ICOM

INSTRUCTION MANUAL

COMMUNICATIONS RECEIVER
IC-PCR1500

ICOM
IC-PCR1500
COMMUNICATIONS RECEIVER
POWER

Icom Inc.

FOREWORD

Thank you for purchasing this Icom radio. The IC-PCR1500 COMMUNICATIONS RECEIVER is designed and built with Icom's state of the art technology and craftsmanship. With proper care, this product should provide you with years of trouble-free operation.

◇ *FEATURES*

- ❍ *Wide frequency coverage with all mode receive*
- ❍ *Real-time bandscope function*
- ❍ *IF shift function*
- ❍ *ANF and NR functions are available*
  (Only when the DSP unit is installed.)

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IMPORTANT

READ ALL INSTRUCTIONS carefully and completely before using the receiver.

SAVE THIS INSTRUCTION MANUAL— This instruction manual contains important operating instructions for the IC-PCR1500.

EXPLICIT DEFINITIONS

WORD	DEFINITION
⚠ WARNING!	Personal injury, fire hazard or electric shock may occur.
CAUTION	Equipment damage may occur.
NOTE	Recommended for optimum use. No risk of personal injury, fire or electric shock.

MOUSE PROPERTY SETTING

Depending on the 'Mouse Property' setting in the control panel, main and sub mouse button functions are swapped.

▨ In this instruction manual, the operation is described with the default setting.

SYSTEM REQUIREMENTS

PC

- Microsoft® Windows® XP/2000/Me/98SE installed
- USB 2.0 or 1.1
- Intel Pentium® III 450 MHz or faster (Pentium® 4 recommended)
- At least 128 MB of memory or higher (256 MB or more recommended)
- At least 50 MB or higher hard disk space
- At least 1024 × 768 pixel resolution, high color display

- CD-ROM or DVD drive is required for software installation.
- Mouse or other compatible pointing device is required.
- USB audio dropouts or gaps may occur, because of a lack of PC power.
- Additional hard disk space is required for;
  - Recording sound (at high quality): max 300 MB (approx.)
  - Storing scope data
    - Frequency mode : max 5 MB (approx.)
    - Time mode : max 1.5 MB (approx.)
  - Memory channel data : max 500 kB (approx.)

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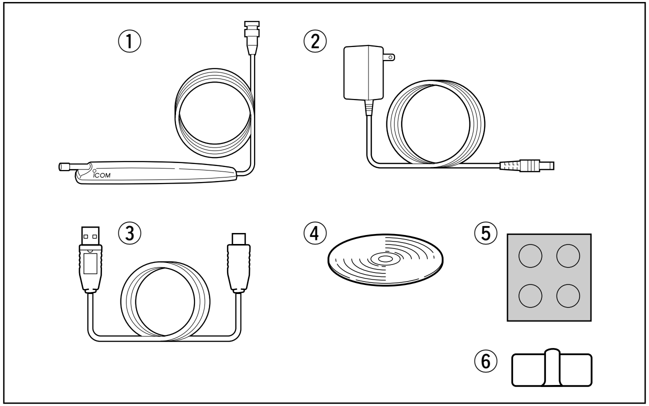
Pentium is a registered trademark of Intel Corporation.
All other products or brands are registered trademarks or trademarks of their respective holders.

SUPPLIED ACCESSORIES



① Antenna	1
② AC adapter*	1
③ USB cable	1
④ CD	1
⑤ Foot pad sheet	1
⑥ Cable hanger	1

*Not supplied with some versions.

PRECAUTIONS

⚠**WARNING! NEVER** connect the OPC-254L to an AC outlet. This may pose a fire hazard or result in an electric shock.

NEVER expose the receiver to rain, snow or any liquids. The receiver may be damaged.

NEVER operate or touch the receiver with wet hands. This may result in an electric shock or damage the receiver.

AVOID using or placing the receiver in direct sunlight or in areas with temperatures below 0°C (+32°F) or above +60°C (+140°F).

AVOID the use of chemical agents such as benzine or alcohol when cleaning, as they can damage the receiver's surfaces.

DO NOT use the supplied CD for any other devices.
The CD is for the IC-PCR1500 only.

DO NOT turn the IC-PCR1500 main unit OFF or disconnect the AC adapter while IC-PCR1500 program is running. This may result in the computer hang up.

DO NOT disconnect the USB cable while the IC-PCR1500 main unit or IC-PCR1500 program is running. This may result in the computer hang up.

DO NOT start vehicle engine while the IC-PCR1500 program is running when optional CP-12L is connected to a cigatette lighter socket. This may result in the computer hang up.

For DC power operation

(while connecting an OPC-254L or CP-12L)

NEVER connect the receiver to a power source of more than 13.9 V DC. This will damage the receiver.

NEVER connect the receiver to a power source using reverse polarity. This will damage the receiver.

NEVER cut the DC power cable between the DC plug and fuse holder. If an incorrect connection is made after cutting, the receiver may be damaged.

If a connection cable is disconnected or has a loose connection during operation, an error may occur. Connect the connectors correctly, and **DO NOT** touch the connectors during operation.

For the operation of PC and peripheral devices, follow the instructions provided in the manuals which come with the PC and peripheral devices.

This device may cause signal interference when used in a domestic setting. When interference occurs, move this unit as far as possible away from the affected device.

All copyrights associated with this manual and all intellectual property rights associated with the hardware and software of the IC-PCR1500 are held by Icom Inc.

Unauthorized reproduction or transmission of this manual, or any part hereof, is prohibited.

The content of this manual, the hardware and software associated with the IC-PCR1500, and the appearance of the IC-PCR1500 are all subject to change without notice.

For U.S.A. only

CAUTION: Changes or modifications to this device, not expressly approved by Icom Inc., could void your authority to operate this device under FCC regulations.

TABLE OF CONTENTS

FOREWORD i
IMPORTANT i
EXPLICIT DEFINITIONS i
MOUSE PROPERTY SETTING i
SYSTEM REQUIREMENTS ii
SUPPLIED ACCESSORIES ii
PRECAUTIONS iii
TABLE OF CONTENTS iv

1 INSTALLATION 1–3
- ■ Hardware installation 1
- ■ TNC connection 2
- ■ DC power supply connection 2
- ■ Accessory attachments 3

2 DRIVER INSTALLATION 4–24
- ■ Microsoft® Windows® XP 4
- ■ Microsoft® Windows® 2000 9
- ■ Microsoft® Windows® 98SE 15
- ■ Microsoft® Windows® Me 20

3 APPLICATION INSTALLATION 25–28
- ■ Installation 25
- ■ Launching the IC-PCR1500 26
- ■ Uninstall 27

4 PANEL DESCRIPTION 29–40
- ■ Application screens (on PC screen) 29
- ■ Main unit 40

5 BASIC OPERATION 41–50
- ■ Starting the IC-PCR1500 41
- ■ Changing the screen 41
- ■ Closing the IC-PCR1500 42
- ■ Quitting the IC-PCR1500 42
- ■ Receiving 43
- ■ Setting a frequency 44
- ■ Setting a tuning step 45
- ■ Squelch level setting 47
- ■ Receive mode selection 48
- ■ Automatic mode selection 49
- ■ Monitor function 50
- ■ Mute function 50

6 OTHER FUNCTIONS 51–57
- ■ Duplex operation 51
- ■ IF filter selection 52
- ■ Attenuator function 53
- ■ AFC function 53
- ■ NB function 54
- ■ AGC function 54
- ■ VSC function 55
- ■ IF shift function 55
- ■ Weather channel operation (USA and CANADA versions only) 56
- ■ Squelch delay setting 57

7 MEMORY CHANNELS 58–67
- ■ General 58
- ■ Memory channel selection 58
- ■ Memory channel programming 60
- ■ Editing the memory list 61
- ■ Memory channel clearing 65
- ■ Saving memory channel data 66
- ■ Opening memory channel data 66
- ■ Creating new memory channel data file 66

TABLE OF CONTENTS (Continued)

■ Printing a memory channel 66
■ Importing a CSV file 67
■ Exporting a CSV file 67
8 SCAN OPERATION
(Multi function receiver/Component screens only) **68–76**
■ Scan types 68
■ Programmed scan 69
■ Auto memory write scan 71
■ Memory/bank scan 73
■ Versatile memory scan 74
■ Scan resume condition 75
■ Scan speed setting 76
9 PRIORITY SCAN
(Multi function receiver/Component screens only) **77–78**
■ Priority scan type 77
■ Priority scan operation 77
10 TONE SQUELCH OPERATION
(Multi function receiver/Component screens only) **79–82**
■ Tone/DTCS operation 79
■ DTCS polarity setting 81
■ Pocket beep operation 81
■ Tone scan operation 82
11 BAND SCOPE
(Multi function receiver/Component screens only) **83–87**
■ Operation 83
■ Pick up signal function 85
■ Saving the sweep data 85
■ Changing the automatic sweep step limit 86
■ Wide band scope function 87
■ Band scope options 87
12 DTMF OPERATION 88
■ Operation 88
13 AUDIO SETTING SCREEN 89–91
■ Operation 89
14 SHORTCUT KEY OPERATION 92
■ Operation 92
15 MULTI CHANNEL MONITOR 93–94
■ Multi channel programming 93
■ Multi channel monitor operation 94
16 RECORDING OPERATION 95–96
■ Recording a receiving signal 95
■ Sampling Rate setting 96
■ Remote recording function 96
17 INTERNAL AUDIO SWITCH 97
18 DSP OPERATION 98–100
■ UT-106 installation 98
■ ANF function (Available only when the UT-106 is installed.) ... 99
■ NR function (Available only when the UT-106 is installed.) ... 100
19 USB PORT SETTING 101
20 USB AUDIO SETTING 102
21 CLONING OPERATION
(Available only when the IC-R1500 is connected) **103**
22 TROUBLESHOOTING 104
23 SPECIFICATIONS AND OPTIONS 105–106
■ Specifications 105
■ Options 106
DOC 107

In this instruction manual, the screen shot contents may be different from the actual one.

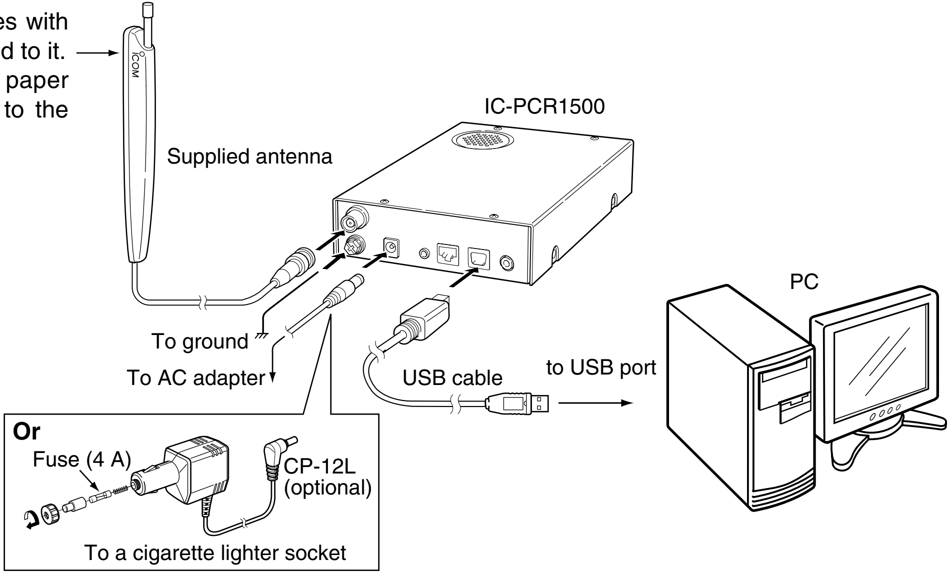
■ Hardware installation

Refer to the diagram below for connections.

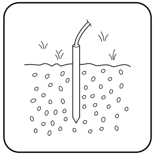
CAUTION: Icom Inc. assumes no responsibility for the receiver's operation resulting from the use of any other USB cable other than the one supplied by Icom in the original IC-PCR1500 package.

NOTE: The antenna's double sided tape may not adhere to all items. Additionally, the tape is not intended for multiple uses. Lastly, some items may be damaged by trying to remove the antenna holder once it has been taped into place. Icom Inc cannot accept any responsibility for any damage to any item caused by the supplied tape.

The antenna holder comes with double sided tape attached to it. Remove the protective paper and adhere the antenna to the location you desire.

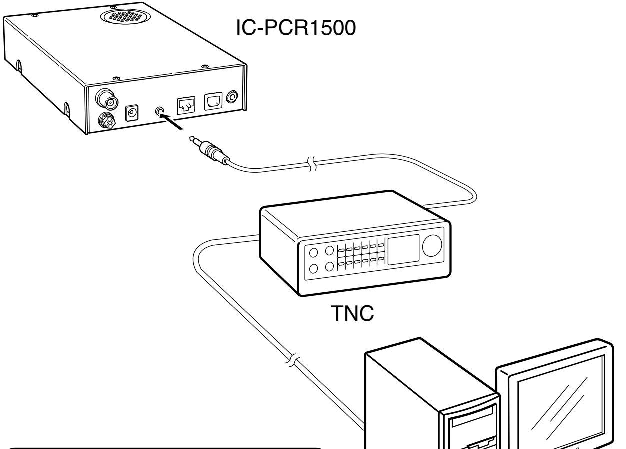

ICOM
IC-PCR1500
Supplied antenna
PC
To ground
To AC adapter
USB cable
to USB port
Or
Fuse (4 A)
CP-12L
(optional)
To a cigarette lighter socket

⚠ **WARNING!: NEVER** use a gas pipe or electrical conduit pipe for grounding.

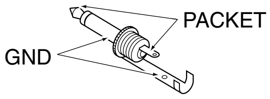


■ TNC connection

The IC-PCR1500 can receive 9600 bps packet communication (AFSK) with the use of a TNC (not supplied).
Connect the TNC (Terminal Node Controller) as illustrated below. (Other connections are same as page 1.)


IC-PCR1500
TNC
PC

◇ PACKET jack connection

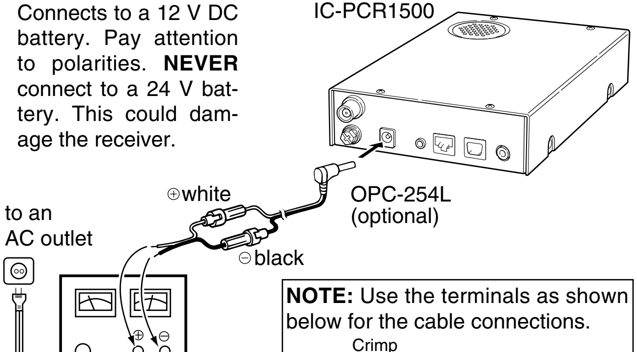


2-conductor 3.5 (d) mm (⅛″)/100 kΩ

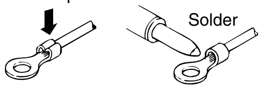
■ DC power supply connection

Use a 12 V DC power supply with at least 1.2 A capacity. Make sure the ground terminal of the DC power supply is grounded.

Connects to a 12 V DC battery. Pay attention to polarities. **NEVER** connect to a 24 V battery. This could damage the receiver.

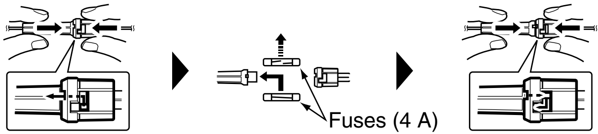

IC-PCR1500
⊕white
OPC-254L (optional)
to an AC outlet
⊖black
⊕ ⊖
DC power supply 12 V

NOTE: Use the terminals as shown below for the cable connections.


Crimp
Solder

⚠ **CAUTION! NEVER** remove the fuse-holders from the DC power cable.

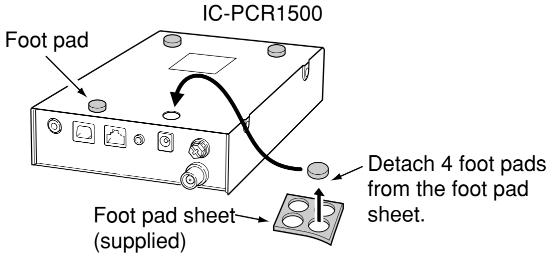
◇ Fuse replacement



■ Accessory attachments

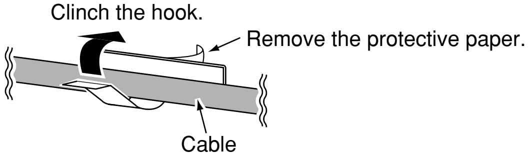
◇ Foot pad

Attach 4 foot pads to the bottom of the IC-PCR1500 as below.


IC-PCR1500
Foot pad
Detach 4 foot pads from the foot pad sheet.
Foot pad sheet (supplied)

◇ Cable hanger

The cable hanger is convenient for fixing a cable to the wall, etc.


Clinch the hook.
Remove the protective paper.
Cable

The displayed dialog boxes or indications may differ slightly from the following instructions according to your system conditions, or environment.

■ Microsoft® Windows® XP

NOTE: Driver installation with CD is required when an additioal IC-PCR1500 is connected to the PC (i.e. 2 or more IC-PCR1500s are connected to the PC). In such a case, install the driver as shown below.

①Quit all applications when Windows is running.

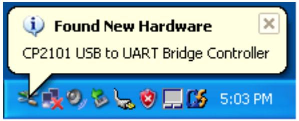
②Connect the IC-PCR1500 to the desired PC's USB port with the supplied USB cable.

CAUTION: Icom Inc. assumes no responsibility for the receiver's operation resulting from the use of any other USB cable other than the one supplied by Icom in the original IC-PCR1500 package.

③Insert the CD into the appropriate CD drive.

④Turn the IC-PCR1500 power ON.

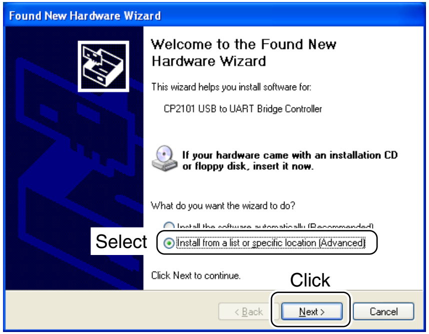
- The power indicator lights.
- "Found New Hardware" appears as below.



Found New Hardware

CP2101 USB to UART Bridge Controller

⑤The CP2101 USB device is detected automatically, and the "Found New Hardware Wizard" will come up as below. Select "Install from a list or specific location (Advanced)," then click [Next>].



Found New Hardware Wizard

Welcome to the Found New Hardware Wizard

This wizard helps you install software for:

CP2101 USB to UART Bridge Controller

If your hardware came with an installation CD or floppy disk, insert it now.

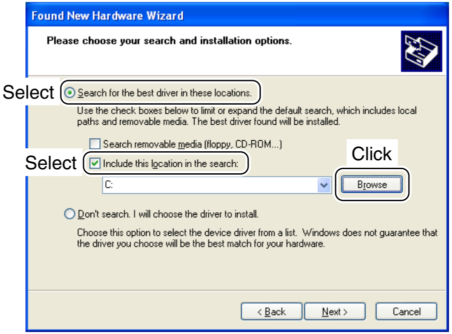
What do you want the wizard to do?

○ Install the software automatically (Recommended)

● Install from a list or specific location (Advanced)

Click Next to continue.

⑥Select "Search for the best driver in these locations." then select "Include this location in the search," click [Browse].



Found New Hardware Wizard

Please choose your search and installation options.

● Search for the best driver in these locations.

Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.

☐ Search removable media (floppy, CD-ROM...)

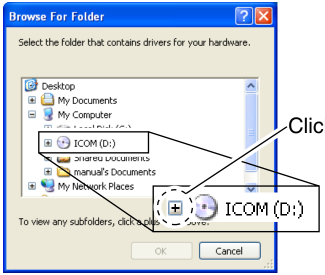
☑ Include this location in the search:

C:

○ Don't search. I will choose the driver to install.

Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.

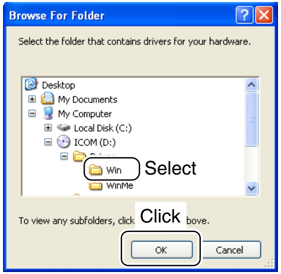
⑦Click "⊞" of the CD drive folder in "My Computer."
- The CD drive folder name (e.g. "D") is depending on a PC.


Browse For Folder

Select the folder that contains drivers for your hardware.

To view any subfolders, click a plus ... bove.
Desktop
My Documents
My Computer
ICOM (D:)
Shared Documents
manual's Documents
My Network Places
ICOM (D:)
Click
OK
Cancel

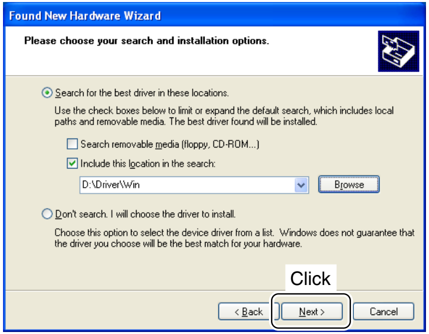
⑧Click "⊞" of the "Driver" folder in the CD drive folder, then select "Win" folder.
Click [OK].


Browse For Folder

Select the folder that contains drivers for your hardware.

To view any subfolders, click ... bove.
Desktop
My Documents
My Computer
Local Disk (C:)
ICOM (D:)
Win
Select
WinMe
Click
OK
Cancel

⑨Click [Next>].


Found New Hardware Wizard

Please choose your search and installation options.

● Search for the best driver in these locations.

Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.

☐ Search removable media (floppy, CD-ROM...)

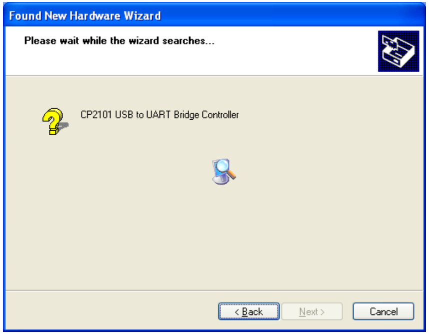
☑ Include this location in the search:

D:\Driver\Win

○ Don't search. I will choose the driver to install.

Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
Browse
Click
< Back
Next >
Cancel

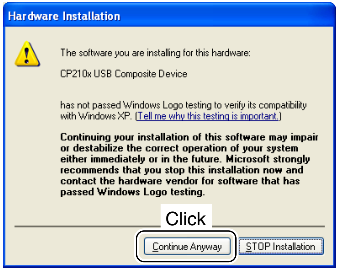
⑩The Wizard starts searching for the driver and shows the dialog below during search.


Found New Hardware Wizard

Please wait while the wizard searches...

CP2101 USB to UART Bridge Controller
< Back
Next >
Cancel

⑪After the driver is found, the “Hardware Installation” dialog box appears as below.
Click [Continue Anyway] to start the installation.


Hardware Installation

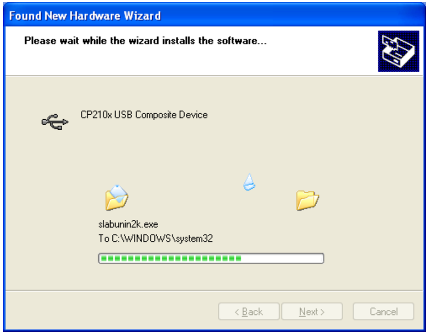
The software you are installing for this hardware:

CP210x USB Composite Device

has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)

Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.

⑫Windows starts installing the USB driver.

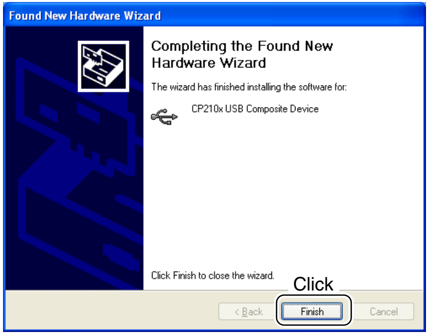

Found New Hardware Wizard

Please wait while the wizard installs the software...

CP210x USB Composite Device

slabunin2k.exe
To C:\WINDOWS\system32

⑬After the installation is completed, click [Finish].


Found New Hardware Wizard

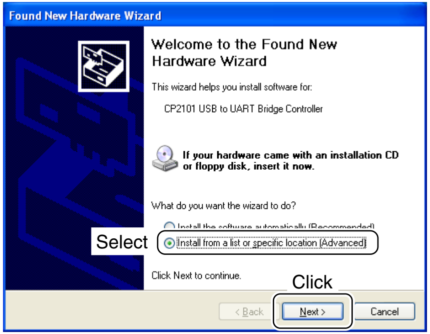
Completing the Found New Hardware Wizard

The wizard has finished installing the software for:

CP210x USB Composite Device

Click Finish to close the wizard.

⑭The “Found New Hardware Wizard” will come up again to install the USB serial port driver.
Select “Install from a list or specific location (Advanced),” then click [Next>].


Found New Hardware Wizard

Welcome to the Found New Hardware Wizard

This wizard helps you install software for:

CP2101 USB to UART Bridge Controller

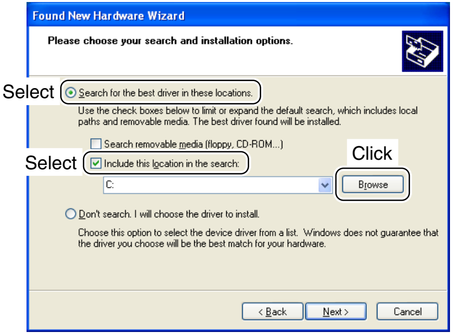
If your hardware came with an installation CD or floppy disk, insert it now.

What do you want the wizard to do?

○ Install the software automatically (Recommended)
● Install from a list or specific location (Advanced)

Click Next to continue.

⑮Select “Search for the best driver in these locations.” then select “Include this location in the search:”, click [Browse].



Found New Hardware Wizard

Please choose your search and installation options.

● Search for the best driver in these locations.

Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.

☐ Search removable media (floppy, CD-ROM...)

☑ Include this location in the search:

C:

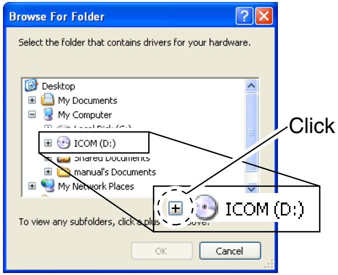
○ Don't search. I will choose the driver to install.

Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.

Select
Select
Click
Browse
< Back
Next >
Cancel

⑯Click “⊞” of the CD drive folder in “My Computer.”

- The CD drive folder name (e.g. “D”) is depending on a PC.



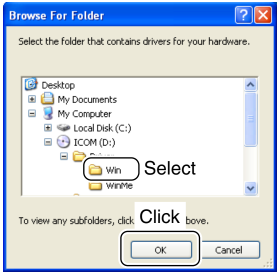
Browse For Folder

Select the folder that contains drivers for your hardware.

To view any subfolders, click a plus sign above.

Desktop
My Documents
My Computer
Local Disk (C:)
ICOM (D:)
Shared Documents
manual's Documents
My Network Places
Click
ICOM (D:)
OK
Cancel

⑰Click “⊞” of the “Driver” folder in the CD drive folder, then select “Win” folder.
Click [OK].



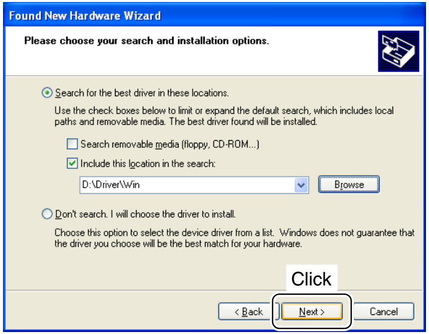
Browse For Folder

Select the folder that contains drivers for your hardware.

To view any subfolders, click a plus sign above.

Desktop
My Documents
My Computer
Local Disk (C:)
ICOM (D:)
Driver
Win
Select
WinMe
Click
OK
Cancel

⑱Click [Next>].



Found New Hardware Wizard

Please choose your search and installation options.

● Search for the best driver in these locations.

Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.

☐ Search removable media (floppy, CD-ROM...)

☑ Include this location in the search:

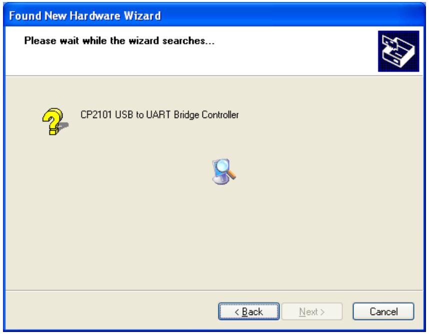
D:\Driver\Win

○ Don't search. I will choose the driver to install.

Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.

Browse
Click
< Back
Next >
Cancel

⑲The Wizard starts searching for the driver and shows the dialog below during search.

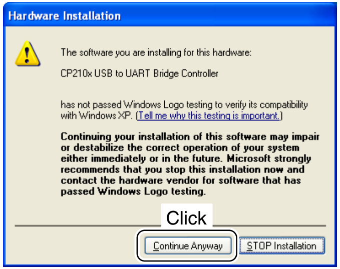


Found New Hardware Wizard

Please wait while the wizard searches...

CP2101 USB to UART Bridge Controller

⑳After the driver is found, the “Hardware Installation” dialog box appears as below.
Click [Continue Anyway] to start the installation.



Hardware Installation

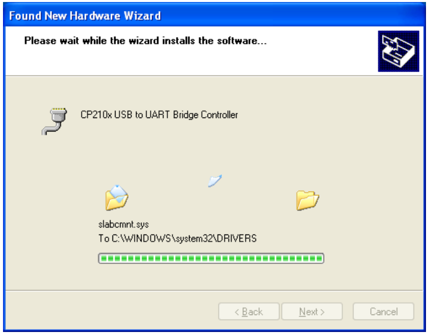
The software you are installing for this hardware:

CP210x USB to UART Bridge Controller

has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)

Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.

㉑Windows starts installing the USB driver.



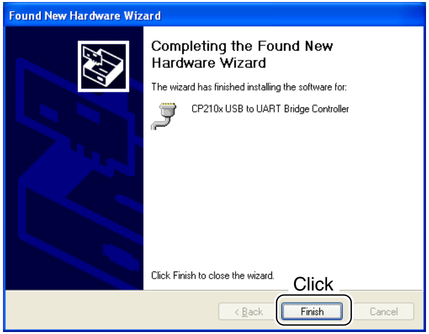
Found New Hardware Wizard

Please wait while the wizard installs the software...

CP210x USB to UART Bridge Controller

slabcmnt.sys
To C:\WINDOWS\system32\DRIVERS

㉒After the installation is completed, click [Finish].



Found New Hardware Wizard

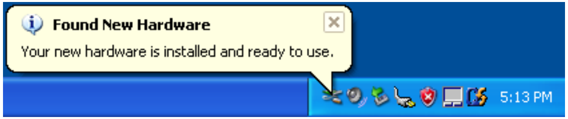
Completing the Found New Hardware Wizard

The wizard has finished installing the software for:

CP210x USB to UART Bridge Controller

Click Finish to close the wizard.

㉓After clicking [Finish], the dialog appears as below.



Found New Hardware

Your new hardware is installed and ready to use.

㉔Eject the CD.

- Restarting the PC is recommended.

■ Microsoft® Windows® 2000

NOTE: Driver installation with CD is required when an additional IC-PCR1500 is connected to the PC (i.e. 2 or more IC-PCR1500s are connected to the PC). In such a case, install the driver as shown below.

①Quit all applications when Windows is running.

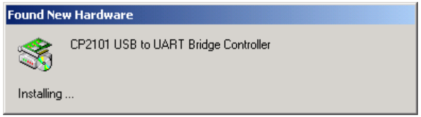
②Connect the IC-PCR1500 to the desired PC's USB port with the supplied USB cable.

CAUTION: Icom Inc. assumes no responsibility for the receiver's operation resulting from the use of any other USB cable other than the one supplied by Icom in the original IC-PCR1500 package.

③Insert the CD into the appropriate CD drive.

④Turn the IC-PCR1500 power ON.

- The power indicator lights.
- "Found New Hardware" appears as below.

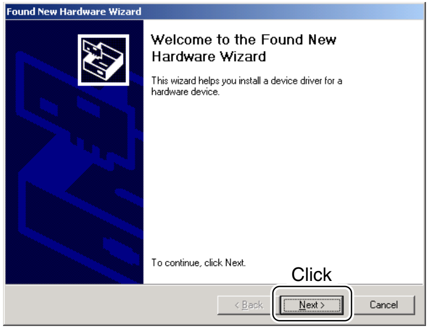


Found New Hardware

CP2101 USB to UART Bridge Controller

Installing ...

⑤The CP2101 USB device is detected automatically, and the "Found New Hardware Wizard" will come up as below. Click [Next>].



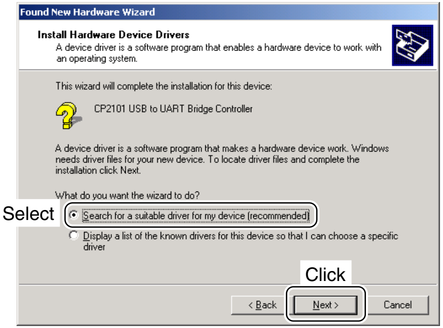
Found New Hardware Wizard

Welcome to the Found New Hardware Wizard

This wizard helps you install a device driver for a hardware device.

To continue, click Next.

⑥Select "Search for a suitable driver for my device (recommended)," then click [Next>].



Found New Hardware Wizard

Install Hardware Device Drivers

A device driver is a software program that enables a hardware device to work with an operating system.

This wizard will complete the installation for this device:

CP2101 USB to UART Bridge Controller

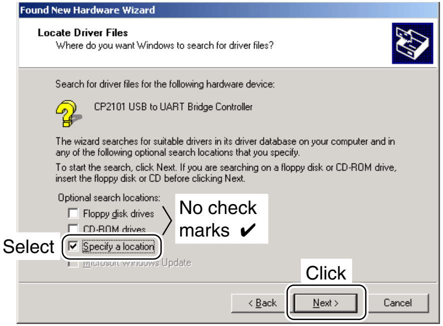
A device driver is a software program that makes a hardware device work. Windows needs driver files for your new device. To locate driver files and complete the installation click Next.

What do you want the wizard to do?

● Search for a suitable driver for my device (recommended)

○ Display a list of the known drivers for this device so that I can choose a specific driver

⑦Select "Specify a location," then click [Next>].



Found New Hardware Wizard

Locate Driver Files

Where do you want Windows to search for driver files?

Search for driver files for the following hardware device:

CP2101 USB to UART Bridge Controller

The wizard searches for suitable drivers in its driver database on your computer and in any of the following optional search locations that you specify.

To start the search, click Next. If you are searching on a floppy disk or CD-ROM drive, insert the floppy disk or CD before clicking Next.

Optional search locations:

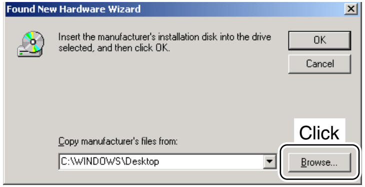
☐ Floppy disk drives

☐ CD-ROM drives

☑ Specify a location

☐ Microsoft Windows Update

⑧Click [Browse...].



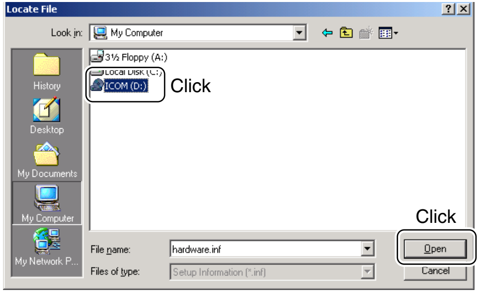
Found New Hardware Wizard

Insert the manufacturer's installation disk into the drive selected, and then click OK.

Copy manufacturer's files from:

C:\WINDOWS\Desktop

⑨Select the CD drive in “My Computer,” then click [Open].
- The CD drive folder name (e.g. “D”) is depending on a PC.


Locate File

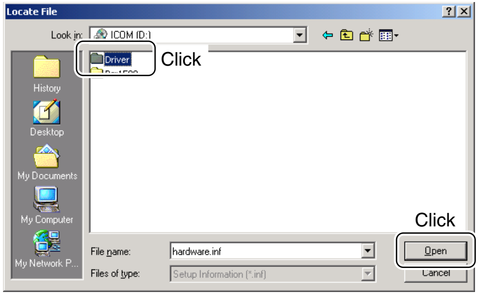
Look in: My Computer

File name: hardware.inf

Files of type: Setup Information (*.inf)

3½ Floppy (A:)
Local Disk (C:)
ICOM (D:)
Click
History
Desktop
My Documents
My Computer
My Network P...
Click
Open
Cancel

⑩Select the “Driver” folder in the CD drive, then click [Open].


Locate File

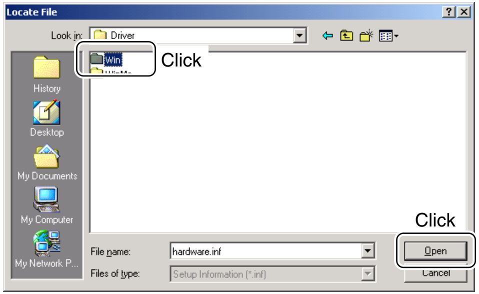
Look in: ICOM (D:)

File name: hardware.inf

Files of type: Setup Information (*.inf)

Driver
Click
History
Desktop
My Documents
My Computer
My Network P...
Click
Open
Cancel

⑪Select “Win” in the “Driver” folder, then click [Open].


Locate File

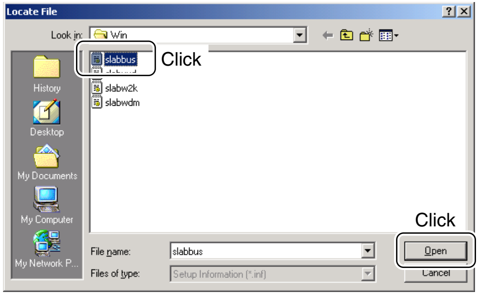
Look in: Driver

File name: hardware.inf

Files of type: Setup Information (*.inf)

Win
Click
History
Desktop
My Documents
My Computer
My Network P...
Click
Open
Cancel

⑫Select “Slabbus” in the “Win” folder, then click [Open].


Locate File

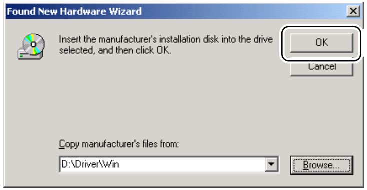
Look in: Win

File name: slabbus

Files of type: Setup Information (*.inf)

slabbus
slabw2k
slabwdm
Click
History
Desktop
My Documents
My Computer
My Network P...
Click
Open
Cancel

⑬Click [OK].



Found New Hardware Wizard

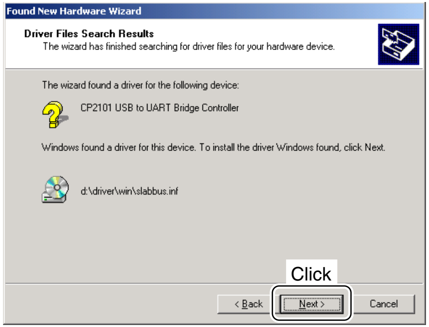
Insert the manufacturer's installation disk into the drive selected, and then click OK.

Copy manufacturer's files from:

D:\Driver\Win

Click

⑭When the driver is found, the following dialog is displayed. Click [Next>] to start the installation.



Found New Hardware Wizard

Driver Files Search Results

The wizard has finished searching for driver files for your hardware device.

The wizard found a driver for the following device:

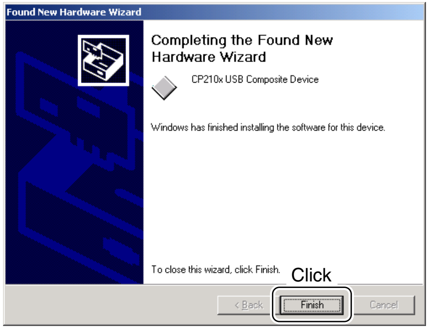
CP2101 USB to UART Bridge Controller

Windows found a driver for this device. To install the driver Windows found, click Next.

d:\driver\win\slabbus.inf

Click

⑮After the installation is completed, click [Finish].



Found New Hardware Wizard

Completing the Found New Hardware Wizard

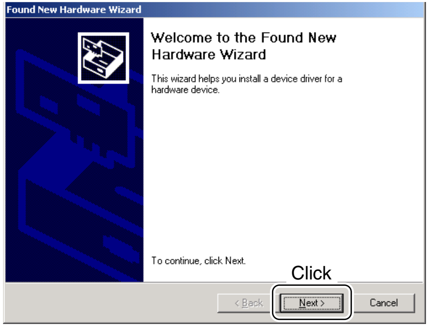
CP210x USB Composite Device

Windows has finished installing the software for this device.

To close this wizard, click Finish.

Click

⑯The “Found New Hardware Wizard” appears again. Click [Next>].



Found New Hardware Wizard

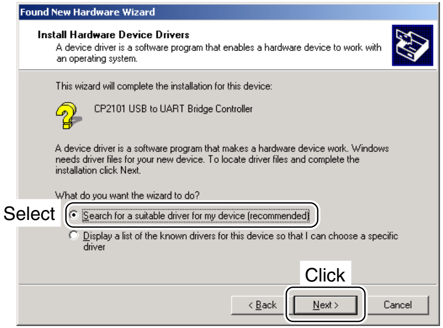
Welcome to the Found New Hardware Wizard

This wizard helps you install a device driver for a hardware device.

To continue, click Next.

Click

⑰Select “Search for a suitable driver for my device (recommended),” then click [Next>].



Found New Hardware Wizard

Install Hardware Device Drivers

A device driver is a software program that enables a hardware device to work with an operating system.

This wizard will complete the installation for this device:

CP2101 USB to UART Bridge Controller

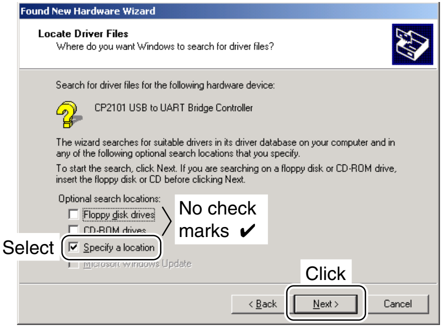
A device driver is a software program that makes a hardware device work. Windows needs driver files for your new device. To locate driver files and complete the installation click Next.

What do you want the wizard to do?

● Search for a suitable driver for my device (recommended)

○ Display a list of the known drivers for this device so that I can choose a specific driver

⑱Select “Specify a location,” then click [Next>].



Found New Hardware Wizard

Locate Driver Files

Where do you want Windows to search for driver files?

Search for driver files for the following hardware device:

CP2101 USB to UART Bridge Controller

The wizard searches for suitable drivers in its driver database on your computer and in any of the following optional search locations that you specify.

To start the search, click Next. If you are searching on a floppy disk or CD-ROM drive, insert the floppy disk or CD before clicking Next.

Optional search locations:

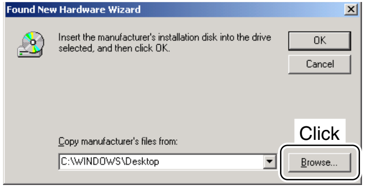
☐ Floppy disk drives

☐ CD-ROM drives

☑ Specify a location

☐ Microsoft Windows Update

⑲Click [Browse...].



Found New Hardware Wizard

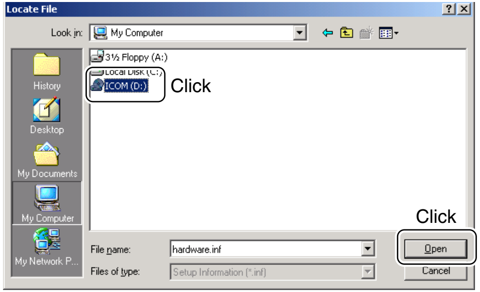
Insert the manufacturer's installation disk into the drive selected, and then click OK.

Copy manufacturer's files from:

C:\WINDOWS\Desktop

⑳Select the CD drive in “My Computer,” then click [Open].

- The CD drive folder name (e.g. “D”) is depending on a PC.



Locate File

Look in: My Computer

3½ Floppy (A:)

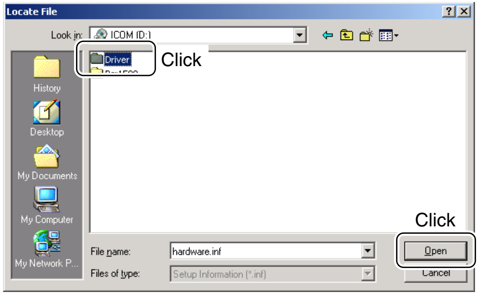
Local Disk (C:)

ICOM (D:)

File name: hardware.inf

Files of type: Setup Information (*.inf)

㉑Select the “Driver” folder in the CD drive, then click [Open].



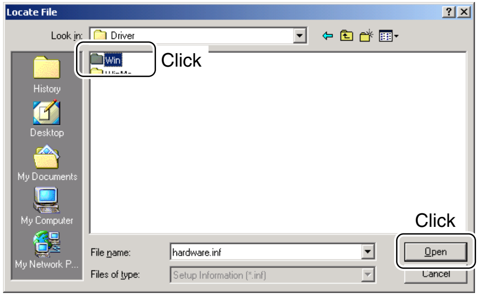
Look in: ICOM (D:)

File name: hardware.inf

Files of type: Setup Information (*.inf)

Locate File
Driver
Click
History
Desktop
My Documents
My Computer
My Network P...
Click
Open
Cancel

㉒Select “Win” in the “Driver” folder, then click [Open].



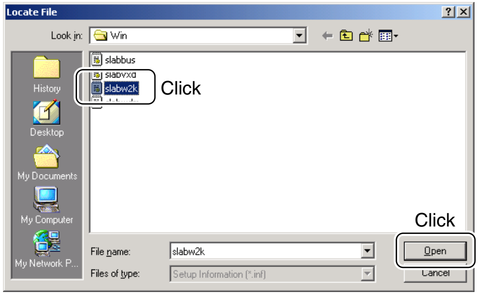
Look in: Driver

File name: hardware.inf

Files of type: Setup Information (*.inf)

Locate File
Win
Click
History
Desktop
My Documents
My Computer
My Network P...
Click
Open
Cancel

㉓Select “Slabw2k” in the “Win” folder, then click [Open].



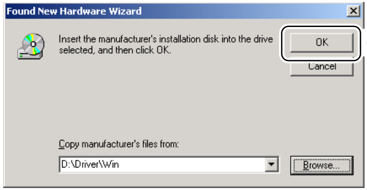
Look in: Win

File name: slabw2k

Files of type: Setup Information (*.inf)

Locate File
slabbus
slabvxd
slabw2k
Click
History
Desktop
My Documents
My Computer
My Network P...
Click
Open
Cancel

㉔Click [OK].

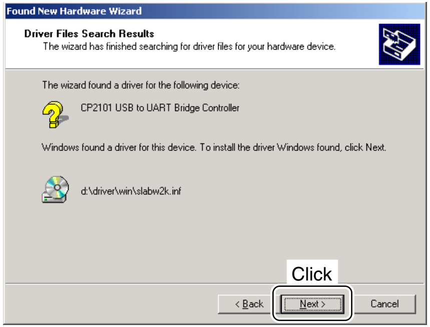


Insert the manufacturer's installation disk into the drive selected, and then click OK.

Copy manufacturer's files from: D:\Driver\Win

Found New Hardware Wizard
OK
Click
Cancel
Browse...

㉕When the driver is found, the following dialog is displayed. Click [Next>] to start the installation.



Found New Hardware Wizard

Driver Files Search Results

The wizard has finished searching for driver files for your hardware device.

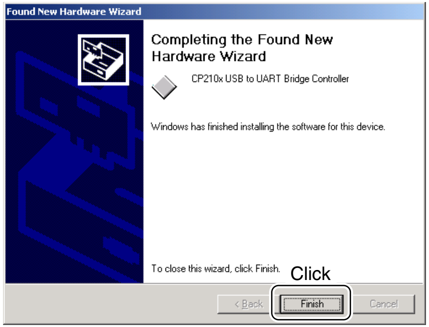
The wizard found a driver for the following device:

CP2101 USB to UART Bridge Controller

Windows found a driver for this device. To install the driver Windows found, click Next.

d:\driver\win\slabw2k.inf

㉖After the installation is completed, click [Finish].



Found New Hardware Wizard

Completing the Found New Hardware Wizard

CP210x USB to UART Bridge Controller

Windows has finished installing the software for this device.

To close this wizard, click Finish.

㉗Eject the CD.

- Restarting the PC is recommended.

■ Microsoft® Windows® 98SE

①Quit all applications when Windows is running.

②Connect the IC-PCR1500 to the desired PC's USB port with the supplied USB cable.

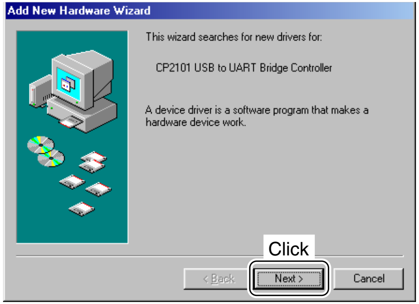
CAUTION: Icom Inc. assumes no responsibility for the receiver's operation resulting from the use of any other USB cable other than the one supplied by Icom in the original IC-PCR1500 package.

③Insert the CD into the appropriate CD drive.

④Turn the IC-PCR1500 power ON.

- The power indicator lights.

⑤The CP2101 USB device is detected automatically, and the "Add New Hardware Wizard" will come up as below. Click [Next>].



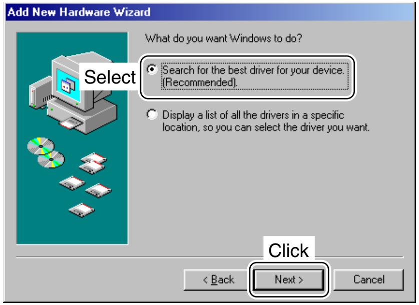
Add New Hardware Wizard

This wizard searches for new drivers for:

CP2101 USB to UART Bridge Controller

A device driver is a software program that makes a hardware device work.

⑥Select “Search for the best driver for your device. (Recommended),” then click [Next>].



Add New Hardware Wizard

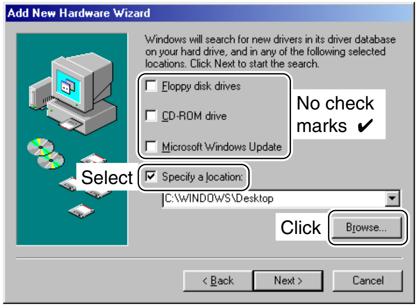
What do you want Windows to do?

● Search for the best driver for your device. (Recommended).

○ Display a list of all the drivers in a specific location, so you can select the driver you want.

Select
Click
< Back
Next >
Cancel

⑦Select “Specify a location:”, click [Browse...].



Add New Hardware Wizard

Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search.

☐ Floppy disk drives

☐ CD-ROM drive

☐ Microsoft Windows Update

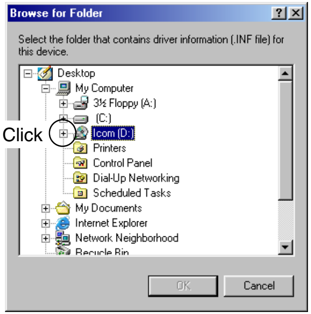
☑ Specify a location:

C:\WINDOWS\Desktop

No check marks ✔
Select
Click
Browse...
< Back
Next >
Cancel

⑧Click “+” of the CD drive folder in “My Computer”.

- The CD drive folder name (e.g. “D”) is depending on a PC.

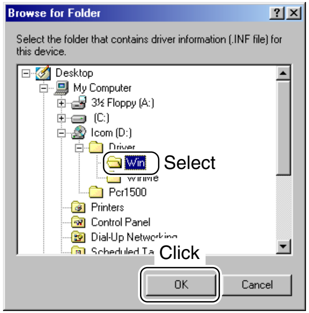


Browse for Folder

Select the folder that contains driver information (.INF file) for this device.

Desktop
My Computer
3½ Floppy (A:)
(C:)
Icom (D:)
Printers
Control Panel
Dial-Up Networking
Scheduled Tasks
My Documents
Internet Explorer
Network Neighborhood
Recycle Bin
Click
OK
Cancel

⑨Select “Win” in the “Driver” folder, click [OK.]

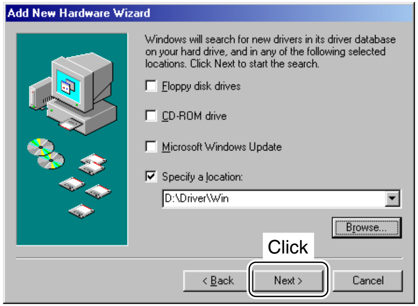


Browse for Folder

Select the folder that contains driver information (.INF file) for this device.

Desktop
My Computer
3½ Floppy (A:)
(C:)
Icom (D:)
Driver
Win
WinMe
Pcr1500
Printers
Control Panel
Dial-Up Networking
Scheduled Ta
Select
Click
OK
Cancel

⑩Click [Next>].



Add New Hardware Wizard

Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search.

☐ Floppy disk drives

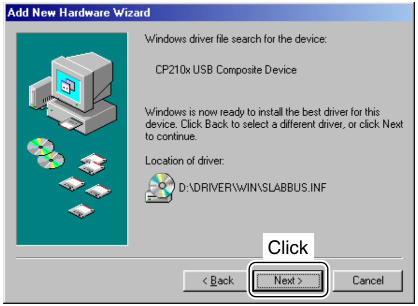
☐ CD-ROM drive

☐ Microsoft Windows Update

☑ Specify a location:

D:\Driver\Win

⑪When the driver is found, the following dialog is displayed. Click [Next>] to start the installation.



Add New Hardware Wizard

Windows driver file search for the device:

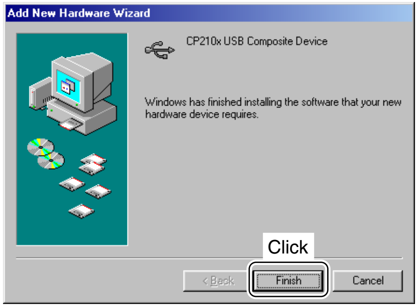
CP210x USB Composite Device

Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.

Location of driver:

D:\DRIVER\WIN\SLABBUS.INF

⑫After the installation is completed, click [Finish].

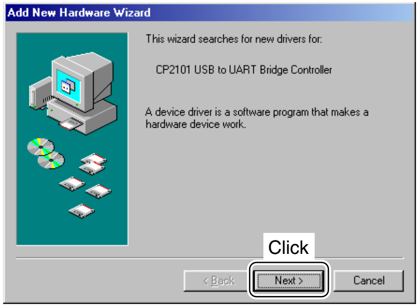


Add New Hardware Wizard

CP210x USB Composite Device

Windows has finished installing the software that your new hardware device requires.

⑬The “Add New Hardware Wizard” appears again. Click [Next>].



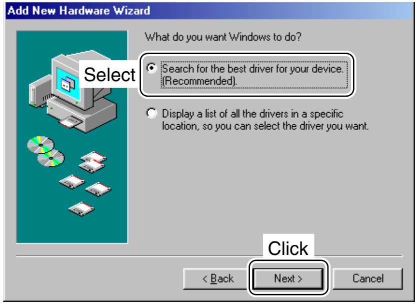
Add New Hardware Wizard

This wizard searches for new drivers for:

CP2101 USB to UART Bridge Controller

A device driver is a software program that makes a hardware device work.

⑭ Select “Search for the best driver for your device. (Recommended),” then click [Next>].



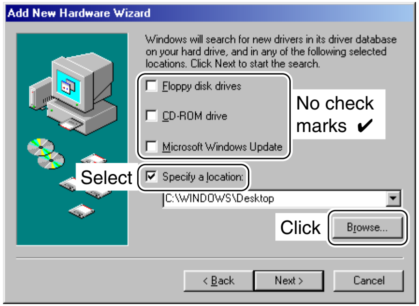
What do you want Windows to do?

● Search for the best driver for your device. (Recommended).

○ Display a list of all the drivers in a specific location, so you can select the driver you want.

Add New Hardware Wizard
Select
Click
< Back
Next >
Cancel

⑮ Select “Specify a location:”, click [Browse...].



Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search.

☐ Floppy disk drives

☐ CD-ROM drive

☐ Microsoft Windows Update

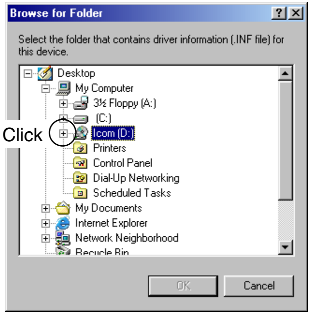
☑ Specify a location:

C:\WINDOWS\Desktop

Add New Hardware Wizard
No check marks ✔
Select
Click
Browse...
< Back
Next >
Cancel

⑯ Click “+” of the CD drive folder in “My Computer.”

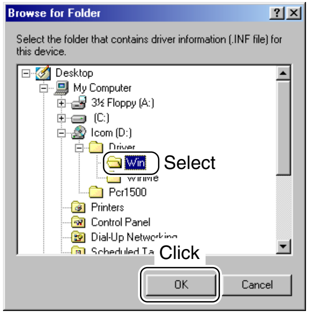
- The CD drive folder name (e.g. “D”) is depending on a PC.



Select the folder that contains driver information (.INF file) for this device.

Browse for Folder
Desktop
My Computer
3½ Floppy (A:)
(C:)
Icom (D:)
Printers
Control Panel
Dial-Up Networking
Scheduled Tasks
My Documents
Internet Explorer
Network Neighborhood
Recycle Bin
Click
OK
Cancel

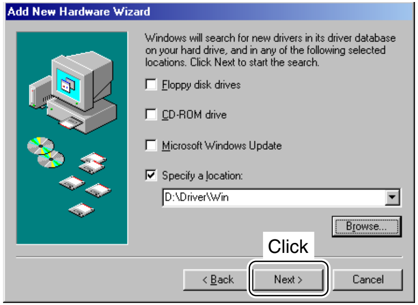
⑰ Select “Win” in the “Driver” folder, click [OK].



Select the folder that contains driver information (.INF file) for this device.

Browse for Folder
Desktop
My Computer
3½ Floppy (A:)
(C:)
Icom (D:)
Driver
Win
Select
WinMe
Pcr1500
Printers
Control Panel
Dial-Up Networking
Scheduled Ta
Click
OK
Cancel

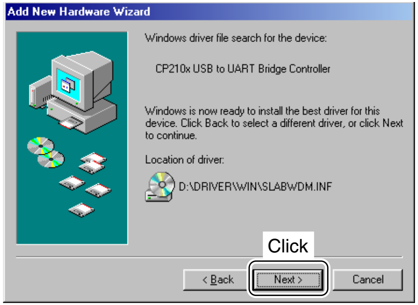
⑱Click [Next>].


Add New Hardware Wizard
Click
< Back
Next >
Cancel
Browse...

Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search.

☐ Floppy disk drives
☐ CD-ROM drive
☐ Microsoft Windows Update
☑ Specify a location:
D:\Driver\Win

⑲When the driver is found, the following dialog is displayed. Click [Next>] to start the installation.


Add New Hardware Wizard
Click
< Back
Next >
Cancel

Windows driver file search for the device:

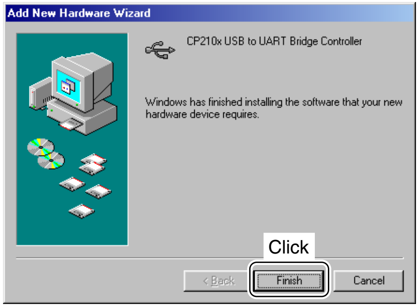
CP210x USB to UART Bridge Controller

Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.

Location of driver:

D:\DRIVER\WIN\SLABWDM.INF

⑳After the installation is completed, click [Finish].


Add New Hardware Wizard
Click
< Back
Finish
Cancel

CP210x USB to UART Bridge Controller

Windows has finished installing the software that your new hardware device requires.

㉑Eject the CD.

- Restartting the PC is recommended.

■ Microsoft® Windows® Me

①Quit all applications when Windows is running.

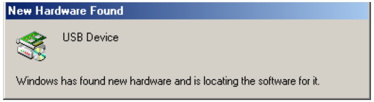
②Connect the IC-PCR1500 to the desired PC’s USB port with the supplied USB cable.

CAUTION: Icom Inc. assumes no responsibility for the receiver’s operation resulting from the use of any other USB cable other than the one supplied by Icom in the original IC-PCR1500 package.

③Insert the CD into the appropriate CD drive.

④Turn the IC-PCR1500 power ON.

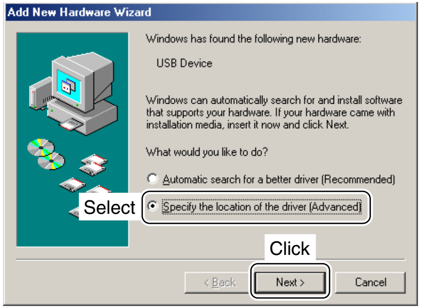
- The power indicator lights.
- “New Hardware Found” appears as below.



USB Device

Windows has found new hardware and is locating the software for it.

⑤The CP2101 USB device is detected automatically, and the “Add New Hardware Wizard” will come up as below. Select “Specify the location of the driver (Advanced),” then click [Next>].



Windows has found the following new hardware:

USB Device

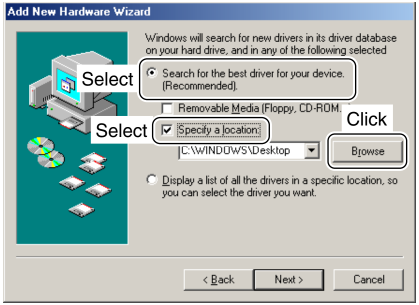
Windows can automatically search for and install software that supports your hardware. If your hardware came with installation media, insert it now and click Next.

What would you like to do?

○ Automatic search for a better driver (Recommended)

● Specify the location of the driver (Advanced)

⑥Select “Search for the best driver for your device. (Recommended),” then select “Specify a location:”, click [Browse].


Add New Hardware Wizard
Select
Select
Click
Browse
< Back
Next >
Cancel

Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected

● Search for the best driver for your device. (Recommended).

☐ Removable Media (Floppy, CD-ROM...)

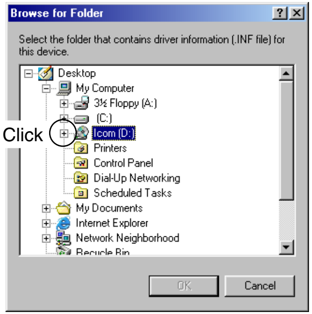
☑ Specify a location:

C:\WINDOWS\Desktop

○ Display a list of all the drivers in a specific location, so you can select the driver you want.

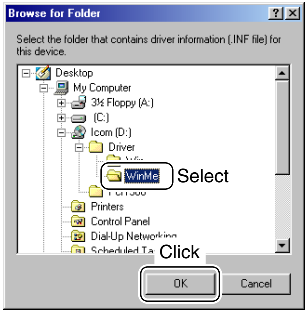
⑦Click “⊞” of the CD drive folder in “My Computer.”

- The CD drive folder name (e.g. “D”) is depending on a PC.


Browse for Folder
Desktop
My Computer
3½ Floppy (A:)
(C:)
Icom (D:)
Printers
Control Panel
Dial-Up Networking
Scheduled Tasks
My Documents
Internet Explorer
Network Neighborhood
Recycle Bin
Click
OK
Cancel

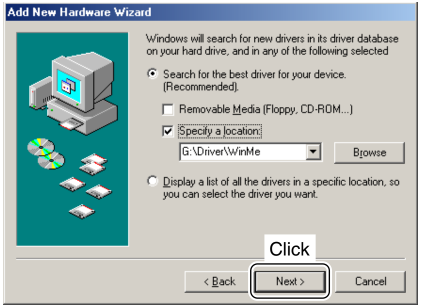
Select the folder that contains driver information (.INF file) for this device.

⑧Select “WinMe” in the “Driver” folder, click [OK].


Browse for Folder
Desktop
My Computer
3½ Floppy (A:)
(C:)
Icom (D:)
Driver
WinMe
Select
Printers
Control Panel
Dial-Up Networking
Click
OK
Cancel

Select the folder that contains driver information (.INF file) for this device.

⑨Click [Next>].


Add New Hardware Wizard
Browse
Click
< Back
Next >
Cancel

Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected

● Search for the best driver for your device. (Recommended).

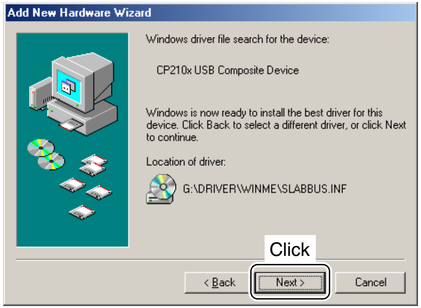
☐ Removable Media (Floppy, CD-ROM...)

☑ Specify a location:

G:\Driver\WinMe

○ Display a list of all the drivers in a specific location, so you can select the driver you want.

⑩When the driver is found, the following dialog is displayed. Click [Next>] to start the installation.



Add New Hardware Wizard

Windows driver file search for the device:

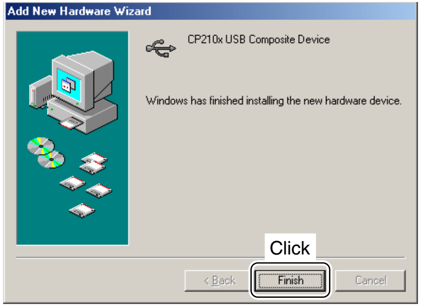
CP210x USB Composite Device

Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.

Location of driver:

G:\DRIVER\WINME\SLABBUS.INF

⑪After the installation is completed, click [Finish].

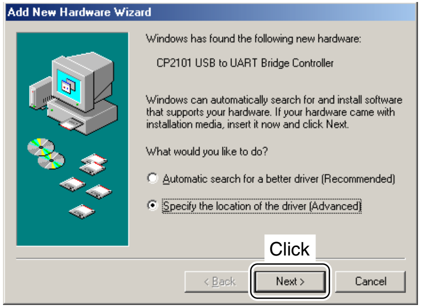


Add New Hardware Wizard

CP210x USB Composite Device

Windows has finished installing the new hardware device.

⑫The "Add New Hardware Wizard" appears again. Select "Specify the location of the driver (Advanced)," then click [Next>].



Add New Hardware Wizard

Windows has found the following new hardware:

CP2101 USB to UART Bridge Controller

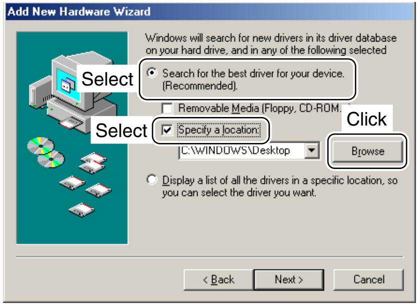
Windows can automatically search for and install software that supports your hardware. If your hardware came with installation media, insert it now and click Next.

What would you like to do?

○ Automatic search for a better driver (Recommended)

● Specify the location of the driver (Advanced)

⑬Select "Search for the best driver for your device. (Recommended)," then select "Specify a location:", click [Browse].



Add New Hardware Wizard

Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected

● Search for the best driver for your device. (Recommended).

☐ Removable Media (Floppy, CD-ROM...

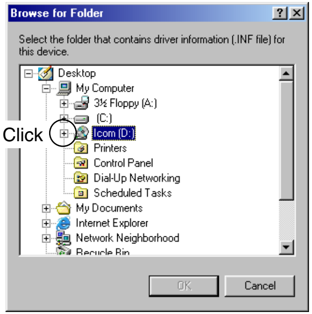
☑ Specify a location:

C:\WINDOWS\Desktop

○ Display a list of all the drivers in a specific location, so you can select the driver you want.

⑭Click "+" of the CD drive folder in "My Computer."

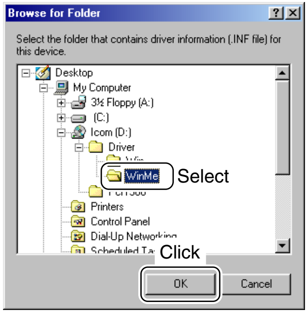
- The CD drive folder name (e.g. "D") is depending on a PC.


Browse for Folder

Select the folder that contains driver information (.INF file) for this device.

Desktop
My Computer
3½ Floppy (A:)
(C:)
Icom (D:)
Printers
Control Panel
Dial-Up Networking
Scheduled Tasks
My Documents
Internet Explorer
Network Neighborhood
Recycle Bin
Click
OK
Cancel

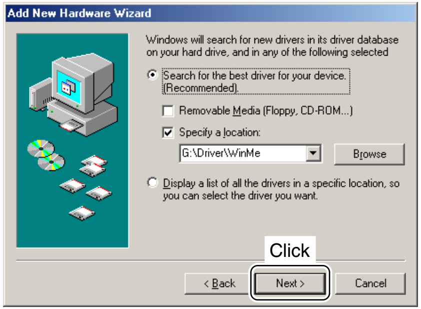
⑮Select "WinMe" in the "Driver" folder, click [OK].


Browse for Folder

Select the folder that contains driver information (.INF file) for this device.

Desktop
My Computer
3½ Floppy (A:)
(C:)
Icom (D:)
Driver
WinMe
Select
Printers
Control Panel
Dial-Up Networking
Scheduled Ta
Click
OK
Cancel

⑯Click [Next>].


Add New Hardware Wizard

Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected

● Search for the best driver for your device. (Recommended).

☐ Removable Media (Floppy, CD-ROM...)

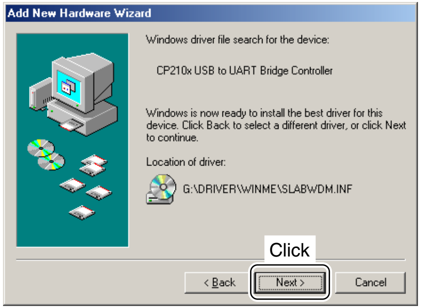
☑ Specify a location:

G:\Driver\WinMe

○ Display a list of all the drivers in a specific location, so you can select the driver you want.

Browse
Click
< Back
Next >
Cancel

⑰When the driver is found, the following dialog is displayed. Click [Next>] to start the installation.


Add New Hardware Wizard

Windows driver file search for the device:

CP210x USB to UART Bridge Controller

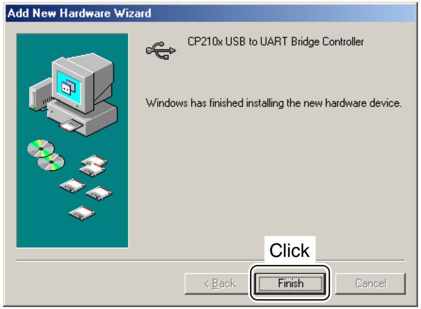
Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.

Location of driver:

G:\DRIVER\WINME\SLABWDM.INF

Click
< Back
Next >
Cancel

⑱After the installation is completed, click [Finish].



Add New Hardware Wizard

CP210x USB to UART Bridge Controller

Windows has finished installing the new hardware device.

⑲Eject the CD.

- Restarting the PC is recommended.

■ Installation

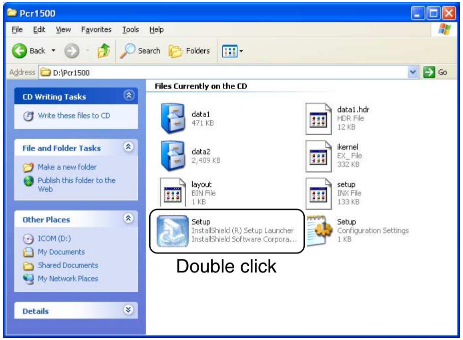
①Quit all applications when Windows is running.

②Insert the CD into the CD drive.

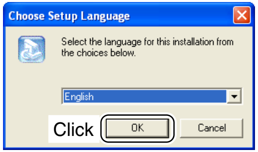
③Open the CD drive contents via “My computer” or “Windows Explorer.”

- “Driver” and “Pcr1500” folders are included.

④Double click “Setup.exe” file in “Pcr1500” folder.


Pcr1500
File Edit View Favorites Tools Help
Back Search Folders
Address D:\Pcr1500 Go
CD Writing Tasks
Write these files to CD
File and Folder Tasks
Make a new folder
Publish this folder to the Web
Other Places
ICOM (D:)
My Documents
Shared Documents
My Network Places
Details
Files Currently on the CD
data1 471 KB
data1.hdr HDR File 12 KB
data2 2,409 KB
ikernel EX_ File 332 KB
layout BIN File 1 KB
setup INX File 133 KB
Setup InstallShield (R) Setup Launcher InstallShield Software Corpora...
Setup Configuration Settings 1 KB
Double click

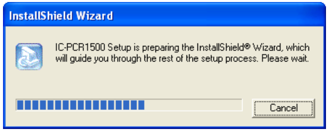
⑤Select the display language type from “English” or “Japanese.” Click [OK].


Choose Setup Language
Click
OK
Cancel

Select the language for this installation from the choices below.

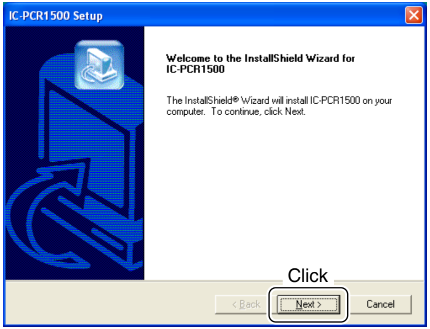
English

- The “InstallShield® Wizard” starts preparing the installation.


InstallShield Wizard
Cancel

IC-PCR1500 Setup is preparing the InstallShield® Wizard, which will guide you through the rest of the setup process. Please wait.

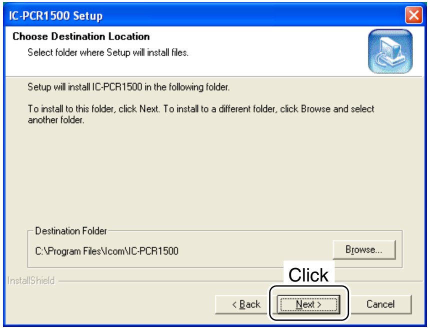
⑥After the preparation, the following dialog is displayed. Click [Next>].


IC-PCR1500 Setup
Click
< Back
Next >
Cancel

Welcome to the InstallShield Wizard for IC-PCR1500

The InstallShield® Wizard will install IC-PCR1500 on your computer. To continue, click Next.

⑦Confirm the location, then click [Next>] to start the installation.
- Click [Browse...] then type the desired location if you specifying the installation location.



IC-PCR1500 Setup

Choose Destination Location

Select folder where Setup will install files.

Setup will install IC-PCR1500 in the following folder.

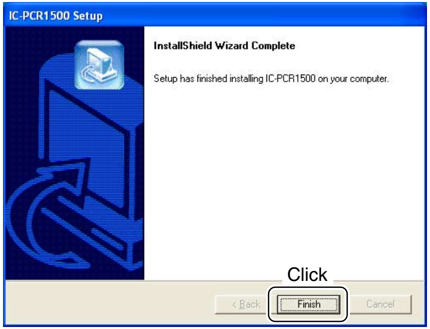
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.

Destination Folder

C:\Program Files\Icom\IC-PCR1500

Browse...
InstallShield
Click
< Back
Next >
Cancel

⑧After the installation is completed, click [Finish].



IC-PCR1500 Setup

InstallShield Wizard Complete

Setup has finished installing IC-PCR1500 on your computer.

Click
< Back
Finish
Cancel

⑨Eject the CD.
- The IC-PCR1500 shortcut icon is created on the desktop.
- Restarting the PC is recommended.

■ Launching the IC-PCR1500

◇ Microsoft® Windows® XP

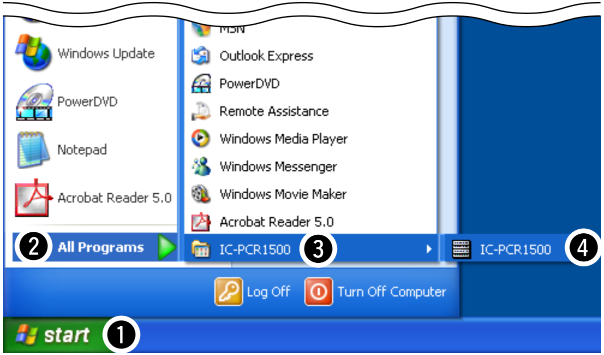
①Before launching the program, please be sure the IC-PCR1500 is turned ON.
- The power indicator lights green.

②Click the [Start] button and point to [All Programs].

③Point to the “IC-PCR1500” folder.

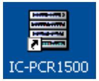
④Click the “IC-PCR1500” program.

(or simply double click the desktop short cut icon as below, which was automatically created during application installation.)



Windows Update
PowerDVD
Notepad
Acrobat Reader 5.0
❷ All Programs
MSN
Outlook Express
PowerDVD
Remote Assistance
Windows Media Player
Windows Messenger
Windows Movie Maker
Acrobat Reader 5.0
IC-PCR1500 ❸
IC-PCR1500 ❹
Log Off
Turn Off Computer
start ❶

Short cut icon

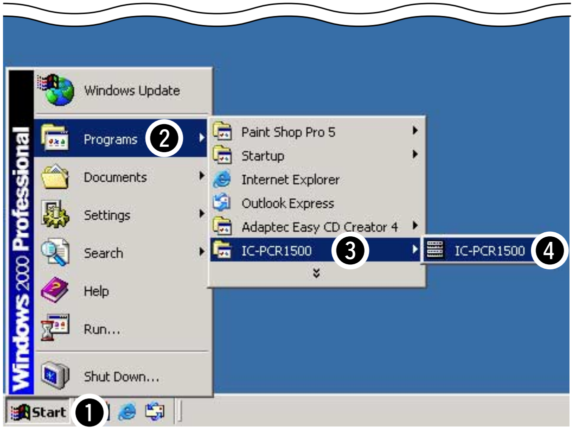


NOTE: Launch the program after approx. 20 sec. has passed when the “Communication error” occurs.

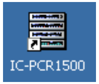
◇ Microsoft® Windows® 98SE/Me/2000

①Before launching the program, please be sure the IC-PCR1500 is turned ON.
- The power indicator lights green.

②Click the [Start] button and point to [Programs].
③Point to the “IC-PCR1500” folder.
④Click the “IC-PCR1500” program.
(or simply double click the desktop short cut icon as below, which was automatically created during application installation.)


Windows 2000 Professional
Windows Update
Programs
Documents
Settings
Search
Help
Run...
Shut Down...
Start
❶
②
Paint Shop Pro 5
Startup
Internet Explorer
Outlook Express
Adaptec Easy CD Creator 4
IC-PCR1500
③
IC-PCR1500
④

Short cut icon



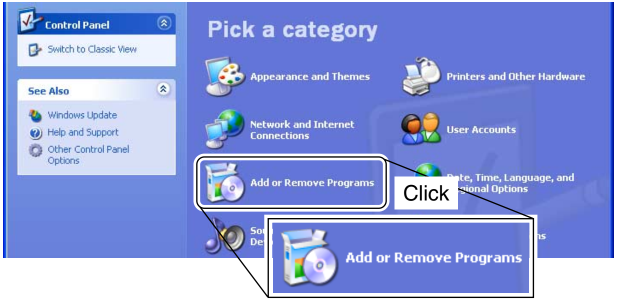
NOTE: Launch the program after approx. 20 sec. has passed when the “Communication error” occurs.

■ Uninstall

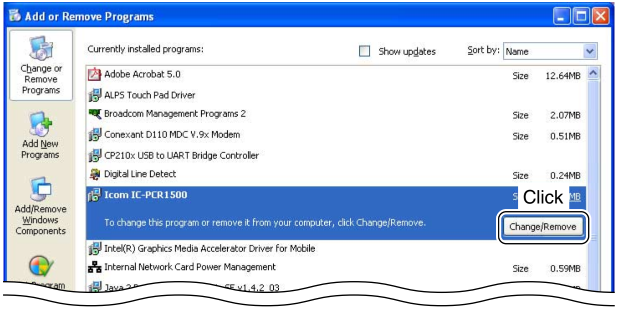
In this section, screen shots of Windows XP are used for the instruction example. However, the instructions are similar to the other operating systems, Windows 98SE, Me and 2000.

①Start up Windows.
②Select the “Control Panel” in the Start menu.
- The control panel appears as shown in the next step below.

③Click the “Add or Remove Programs.”
- The “Add or Remove Programs” menu appears.


Control Panel
Switch to Classic View
See Also
Windows Update
Help and Support
Other Control Panel Options
Pick a category
Appearance and Themes
Printers and Other Hardware
Network and Internet Connections
User Accounts
Add or Remove Programs
ate, Time, Language, and
ional Options
Click
Add or Remove Programs

④Click the “Icom IC-PCR1500,” then click [Change/Remove].



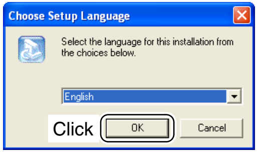
Add or Remove Programs
Change or Remove Programs
Add New Programs
Add/Remove Windows Components
Show updates
Sort by: Name
Click
Change/Remove

Currently installed programs:

Adobe Acrobat 5.0	Size	12.64MB
ALPS Touch Pad Driver		
Broadcom Management Programs 2	Size	2.07MB
Conexant D110 MDC V.9x Modem	Size	0.51MB
CP210x USB to UART Bridge Controller		
Digital Line Detect	Size	0.24MB
Icom IC-PCR1500		
Intel(R) Graphics Media Accelerator Driver for Mobile		
Internal Network Card Power Management	Size	0.59MB

To change this program or remove it from your computer, click Change/Remove.

⑤Select the display language type from “English” or “Japanese,” click [OK].

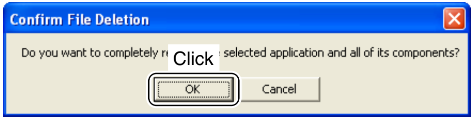


Choose Setup Language
Click
OK
Cancel

Select the language for this installation from the choices below.

English

⑥“Confirm File Deletion” appears, click [OK] to remove the program from the PC.

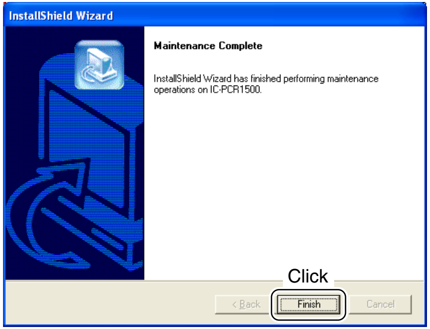


Confirm File Deletion
Click
OK
Cancel

Do you want to completely r

selected application and all of its components?

⑦After the uninstall is completed, click [Finish].



InstallShield Wizard
Click
< Back
Finish
Cancel

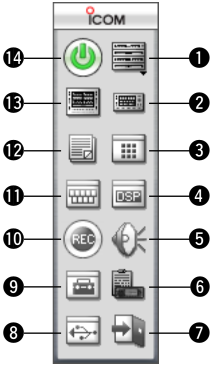
Maintenance Complete

InstallShield Wizard has finished performing maintenance operations on IC-PCR1500.

■ Application screens (on PC screen)

◇ Tool bar

The application screen can be seen after the application installation. See page 25 for details.



❶**COMPONENT BUTTON** (pgs. 35, 42)
Click to display the Component screen.

❷**SIMPLE BUTTON** (pgs. 34, 41)
Click to display the Simple screen.

❸**MULTI CHANNEL MONITOR BUTTON** (p. 93)
Click to make the multi channel monitor screen appear/disappear.

❹**DSP DIGITAL FILTER BUTTON** (pgs. 99, 100)
Click to make the DSP digital filter screen appear/disappear.

❺**AUDIO SETTING BUTTON** (p. 89)
Click to make the audio setting screen appear/disappear.

❻**CLONE BUTTON** (p. 103)
Click to make the cloning screen appear/disappear.

❼**EXIT BUTTON**
Click to quit the IC-PCR1500 program.

❽**USB PORT SETTING BUTTON**
Click to make the USB setting screen appear.

❾**AUTO MODE SETTING/
SHORT CUT KEY SETTING BUTTON** (pgs. 49, 92)
Click to make the auto mode setting list and short cut key list screen appear/disappear.

❿**RECORDING BUTTON** (p. 95)
Click to make the recording screen appear/disappear.

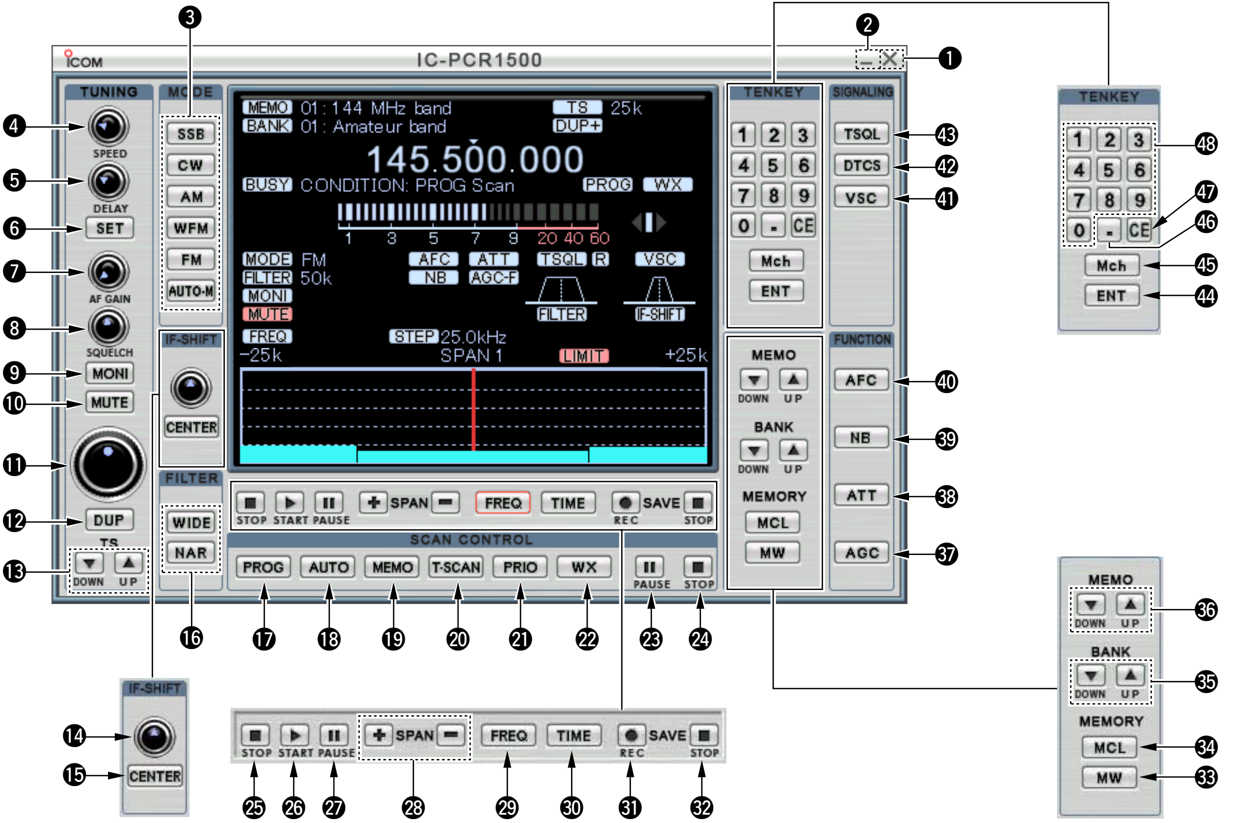
⓫**DTMF REMOTE COMMANDER BUTTON** (p. 88)
Click to make the DTMF remote commander screen appear/disappear.

⓬**MEMORY CHANNEL BUTTON** (pgs. 59, 61)
Click to make the memory channel screen appear/disappear.

⓭**MULTI-FUNCTION RECEIVER BUTTON** (pgs. 30, 41)
Click to display the Multi-function receiver screen.

⓮**POWER BUTTON** (p. 41)
Click to make the IC-PCR1500 interface unit receiving circuit and program ON or OFF.

◇ Multi-function receiver screen


ICOM
IC-PCR1500
TUNING
SPEED
DELAY
SET
AF GAIN
SQUELCH
MONI
MUTE
DUP
TS
DOWN
UP
MODE
SSB
CW
AM
WFM
FM
AUTO-M
IF-SHIFT
CENTER
FILTER
WIDE
NAR
MEMO 01 : 144 MHz band
BANK 01 : Amateur band
TS 25k
DUP+
145.500.000
BUSY
CONDITION: PROG Scan
PROG
WX
1 3 5 7 9 20 40 60
MODE FM
FILTER 50k
MONI
MUTE
AFC
NB
ATT
AGC-F
TSQL
R
VSC
FILTER
IF-SHIFT
FREQ
STEP 25.0kHz
−25k
SPAN 1
LIMIT
+25k
STOP
START
PAUSE
SPAN
FREQ
TIME
SAVE
REC
STOP
SCAN CONTROL
PROG
AUTO
MEMO
T-SCAN
PRIO
WX
PAUSE
STOP
TENKEY
1 2 3
4 5 6
7 8 9
0 . CE
Mch
ENT
MEMO
DOWN
UP
BANK
DOWN
UP
MEMORY
MCL
MW
SIGNALING
TSQL
DTCS
VSC
FUNCTION
AFC
NB
ATT
AGC
❶
❷
❸
❹
❺
❻
❼
❽
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❶CLOSE BUTTON
Click to quit and exit the application screen.

❷MINIMIZE BUTTON
Click to minimize the application screen.

❸RECEIVE MODE BUTTONS ([SSB], [CW], [AM], [WFM], [FM] and [AUTO-M]) (pgs. 48, 49)
Click to select a receive mode.

- When using [AUTO-M] (automatic mode), a receive mode, IF filter passband width, tuning step, etc., are selected automatically after inputting a frequency.

❹SCAN SPEED CONTROL [SPEED] (p. 76)
Click to set the scan speed at which channels or frequencies are searched during scan operation.

- Right-click to increase the speed level. (Scan is faster)
- Left-click to decrease the speed level. (Scan is slower)

❺SCAN DELAY TIME CONTROL [DELAY]
Click to set the period in which a scan pauses after receiving a signal.

- Right-click to increase the period.
- Left-click to decrease the period.

❻SET BUTTON [SET] (p. 75)
Click to show the [Scan Delay] screen.
This screen is used for the settings of the scan delay details.

❼AUDIO FREQUENCY GAIN CONTROL [AF GAIN] (p. 43)
Click to adjust the audio output level.

- Right-click to increase the audio output level.
- Left-click to decrease the audio output level.

❽SQUELCH CONTROL [SQUELCH] (pgs. 43, 47)
Click to adjust the squelch threshold level.
The squelch removes noise output from the speaker (closed condition) when no signal is received.

- Right-click to close the squelch.
- Left-click to open the squelch.

❾MONITOR BUTTON [MONI] (p. 50)
Click to turn the monitor function ON or OFF.
The monitor function is used to temporarily open the squelch to listen for a weak signal.

❿MUTE BUTTON [MUTE] (p. 50)
Click to turn the mute function ON or OFF.
This function is used to temporarily mute the audio output.

⓫TUNING DIAL (p. 44)
Click to set the receive frequency with the selected tuning step.

- Right-click to increase the frequency.
- Left-click to decrease the frequency.

⓬DUPLEX BUTTON [DUP] (p. 51)
➥ Right-click to display the offset frequency setting screen.
➥ Left-click to set the duplex direction from OFF (no indication), DUP –, and DUP +.

⓭TUNING STEP UP/DOWN BUTTONS [▲]/[▼] (p. 46)
➥ Right-click to display the tuning step setting screen.
➥ Left-click to select the tuning steps in order.

⑭**IF-SHIFT CONTROL** (p. 55)
Click to set a signal passband position.
- Right-click to increase the signal passband position.
- Left-click to decrease the signal passband position.

⑮**CENTER KEY [CENTER]** (p. 55)
After setting a signal passband position with clicking the IF-shift control, click to return to the center position.

⑯**IF FILTER BUTTONS [WIDE]/[NAR]** (p. 52)
Click to change the IF filter in use.
- Click [WIDE] to select a wide filter.
- Click [NAR] to select a narrow filter.

*Usable IF filter is according to the receive mode.

⑰**PROGRAMMED SCAN BUTTON [PROG]** (p. 69)
Click to start/stop a programmed scan.
- “PROG Scan” blinks during scanning.

⑱**AUTO MEMORY WRITE SCAN BUTTON [AUTO]** (p. 71)
Click to start/stop an auto memory write scan.
- “AUTO MW Scan” blinks during scanning.

⑲**MEMORY SCAN BUTTON [MEMO]** (pgs. 73, 74)
Click to start/stop a memory scan.
- “MEMO Scan” blinks during scanning.

⑳**TONE SCAN BUTTON [T-SCAN]** (p. 82)
Click to start/stop a tone scan.
- “TONE Scan” blinks during scanning.

㉑**PRIORITY SCAN BUTTON [PRIO]** (p. 77)
Click to start/stop a priority scan.
- “PRIO Scan” blinks during scanning.

㉒**WEATHER ALERT BUTTON [WX]** (p. 56)
Push to start the weather alert function. (USA and CANADA version only)
- “WX” appears.

㉓**SCAN PAUSE BUTTON [❚❚]**
Push to pause/resume a scan.
- “Pause” blinks during scan is pausing.

㉔**SCAN STOP BUTTON [■]**
Push to cancel a scan operation.

㉕**SWEEP STOP BUTTON [■]** (p. 83)
Click to cancel a band scope operation.

㉖**SWEEP START BUTTON [▶]** (p. 83)
Click to start the band scope operation which is used to observe signal conditions around the receive frequency.

㉗**SWEEP PAUSE BUTTON [❚❚]** (p. 83)
Click to pause/resume a band scope sweeping.

NOTE: While using the band scope function, audio is disabled in SSB and CW modes. To monitor the frequency, push [❚❚] to pause the function, or push [■] to cancel the function.

㉘**SPAN (TIME) UP/DOWN BUTTON [+]/[–]**
When “FREQUENCY” mode is displayed;
Click to select the band scope edge frequency. (p. 83)
When “TIME” mode is displayed;
Click to select the time interval to show the receiving signal. (p. 84)

㉙**FREQUENCY BUTTON [FREQ]** (p. 83)
Click to show the receiving signal relative to signal strength while sweeping..

㉚**TIME BUTTON [TIME]** (p. 84)
Click to show the received signal strength in the specified time period while sweeping.

㉛**REC BUTTON [●]** (p. 85)
Click to start recording of the received signal.

㉜**STOP BUTTON [■]** (p. 85)
Click to stop recording.

㉝**MEMORY WRITE BUTTON [MW]** (p. 60)
Click to write the current receive frequency into the selected memory channel.

㉞**MEMORY CLEAR BUTTON [MCL]** (p. 65)
Click to clear the displayed memory channel contents.

㉟**BANK UP/DOWN BUTTONS [▲]/[▼]** (p. 58)
Click to change the memory bank.

㊱**MEMORY CHANNEL UP/DOWN BUTTONS [▲]/[▼]** (p. 58)
Click to change a memory channel.

㊲**AUTOMATIC GAIN CONTROL BUTTON [AGC]** (p. 54)
Click to toggle the AGC (Automatic Gain Control) time constant between slow and fast.

- “AGC-F” appears when the AGC fast is selected.

㊳**ATTENUATOR BUTTON [ATT]** (p. 53)
Click to turn the ATT (Attenuator) function ON or OFF.

- “ATT” appears when the ATT function is turned ON.

㊴**NOISE BLANKER BUTTON [NB]** (p. 54)
Click to turn the NB (Noise Blanker) function ON or OFF.

- “NB” appears when the NB function is turned ON.

㊵**AUTOMATIC FREQUENCY CONTROL BUTTON [AFC]** (p. 53)
Click to turn the AFC (Automatic Frequency Control) function ON or OFF.

- “AFC” appears when the AFC function is turned ON.

㊶**VOICE SQUELCH CONTROL BUTTON [VSC]** (p. 55)
Click to turn the VSC (Voice Squelch Control) function ON or OFF.

- “VSC” appears when the VSC function is turned ON.

㊷**DTCS SETTING BUTTON [DTCS]** (p. 80)

➥ Click to turn the DTCS squelch ON or OFF.
  - “DTCS” appears when the DTCS squelch is turned ON.
  - Available only when FM mode is selected.

➥ When the DTCS squelch is turned ON, right-click to display the [DTCS] screen.

㊸**TSQL SETTING BUTTON [TSQL]** (p. 79)

➥ Click to turn the tone squelch ON or OFF.
  - “TSQL” appears when the tone squelch is turned ON.
  - Available only when FM mode is selected.

➥ When the tone squelch is turned ON, right-click to display the [TSQL] screen.

㊹ ENTER KEY [ENT]
Click to enter the frequency when the desired receive frequency is input via the 10-keypad (㊽) or PC keyboard.

㊺ MEMORY CHANNEL KEY [Mch]
Click to call the memory channel when the desired channel number is input via the 10-keypad (㊽) or PC keyboard.

㊻ TENKEY— DECIMAL BUTTON [.]
Click to set the MHz digit when inputting a frequency via the 10-keypad.

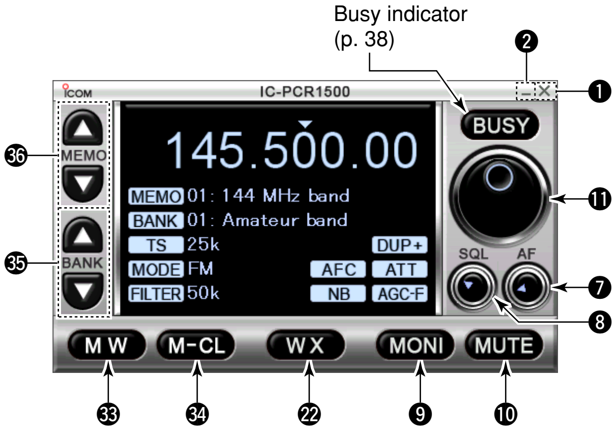
㊼ TENKEY— CLEAR BUTTON [CE]
Click to clear the mistake while inputting a receive frequency or memory channel number via the 10-keypad (㊽) or PC keyboard.

㊽ TENKEY— 10-KEYPAD [1] to [0]
The 10-keypad can be used for several functions as below:

- Direct receive frequency input.
- Memory channel input.

◇ Simple screen

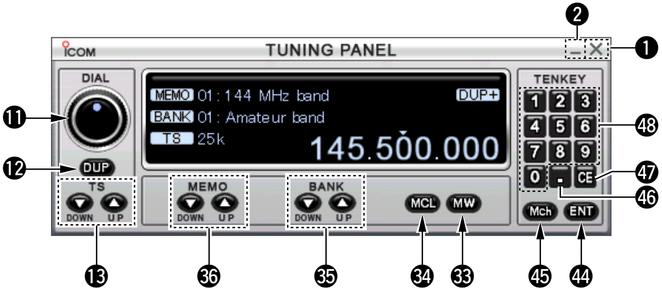
The Simple screen buttons, controls, etc. operate the same as the Multi-function receiver screens. Please refer to the explanations on pages 30 to 34.

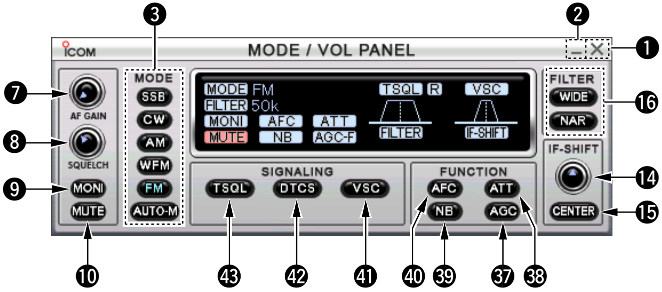

Busy indicator
(p. 38)

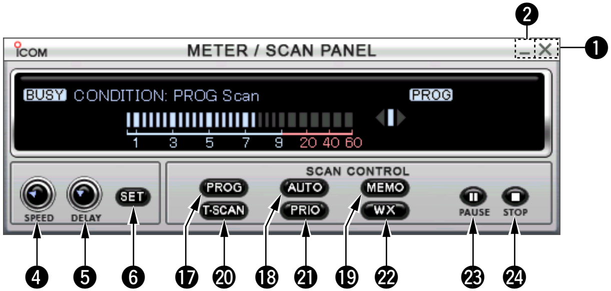
145.500.00
MEMO 01: 144 MHz band
BANK 01: Amateur band
TS 25k
MODE FM
FILTER 50k

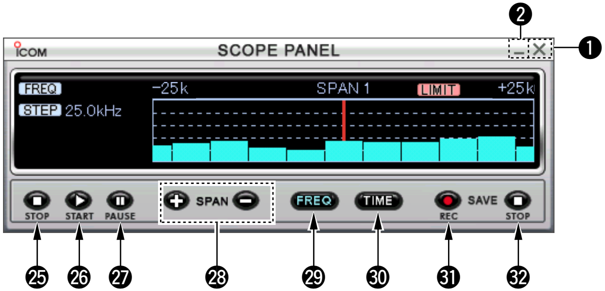
◇ Component screen

The Component screen buttons, controls, etc. operate the same as the Multi-function receiver screens. Please refer to the explanations on pages 30 to 34.

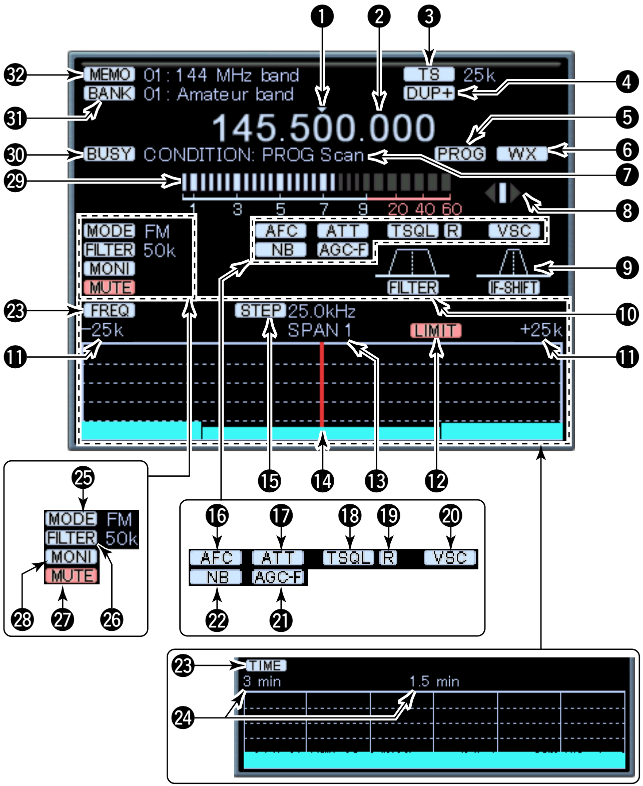

ICOM
TUNING PANEL
DIAL
DUP
TS
DOWN UP
MEMO
DOWN UP
BANK
DOWN UP
MCL
MW
TENKEY
1 2 3
4 5 6
7 8 9
0 . CE
Mch
ENT
MEMO 01 : 144 MHz band
BANK 01 : Amateur band
TS 25k
DUP+
145.500.000
①
②
⑪
⑫
⑬
㊱
㉟
㉞
㉝
㊺
㊹
㊽
㊼
㊻


ICOM
MODE / VOL PANEL
AF GAIN
SQUELCH
MONI
MUTE
MODE
SSB
CW
AM
WFM
FM
AUTO-M
MODE FM
FILTER 50k
MONI
MUTE
AFC
NB
ATT
AGC-F
TSQL R
VSC
FILTER
IF-SHIFT
SIGNALING
TSQL
DTCS
VSC
FUNCTION
AFC
ATT
NB
AGC
FILTER
WIDE
NAR
IF-SHIFT
CENTER
①
②
③
⑦
⑧
⑨
⑩
⑭
⑮
⑯
㊸
㊷
㊶
㊵
㊴
㊲
㊳


ICOM
METER / SCAN PANEL
BUSY
CONDITION: PROG Scan
PROG
1 3 5 7 9 20 40 60
SPEED
DELAY
SET
SCAN CONTROL
PROG
T-SCAN
AUTO
PRIO
MEMO
WX
PAUSE
STOP
①
②
④
⑤
⑥
⑰
⑳
⑱
㉑
⑲
㉒
㉓
㉔


ICOM
SCOPE PANEL
FREQ
STEP 25.0kHz
−25k
SPAN 1
LIMIT
+25k
STOP
START
PAUSE
SPAN
FREQ
TIME
SAVE
REC
STOP
①
②
㉕
㉖
㉗
㉘
㉙
㉚
㉛
㉜

◇ Function display (on Multi-function receiver screen)


❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿ ⓫ ⓬ ⓭ ⓮ ⓯ ⓰ ⓱ ⓲ ⓳ ⓴ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙ ㉚ ㉛ ㉜
MEMO 01 : 144 MHz band
BANK 01 : Amateur band
TS 25k
DUP+
145.500.000
BUSY CONDITION: PROG Scan
PROG
WX
1 3 5 7 9 20 40 60
MODE FM
FILTER 50k
MONI
MUTE
AFC
ATT
TSQL
R
VSC
NB
AGC-F
FILTER
IF-SHIFT
FREQ
STEP 25.0kHz
SPAN 1
LIMIT
-25k
+25k
TIME
3 min
1.5 min

❶ **TUNING STEP INDICATOR**
Indicates the tuning step digit.

❷ **FREQUENCY READOUT**
Indicates the receive frequency and data as it is being input such as memory channel numbers, etc.

❸ **TUNING STEP INDICATOR** (p. 46)
This is the frequency increment used when selecting a frequency using the tuning dial and when searching for signals using a scan function.

❹ **DUPLEX INDICATOR** (p. 51)
“DUP+” appears when plus duplex, “DUP–” appears when minus duplex operation is selected.

❺ **SCAN INDICATOR** (pgs. 69–74, 78, 82)
“PROG,” “AUTO,” “MEMO,” “T-SCAN” or “PRIO” appears during scanning.

❻ **WEATHER INDICATOR** (pgs. 56, 57)
Appears when weather function is turned ON. (USA and CANADA version only)

❼ **CONDITION INDICATOR**
Indicates the receiver’s condition.

❽ **FM CENTER INDICATORS**
- ➥ “◀” or “▶” appears when the received signal is not tuned to its center frequency; or the squelch is closed.
- ➥ “▮” appears when the received signal is tuned to its center frequency.

❾ **IF-SHIFT INDICATOR** (p. 55)
Indicates the received signal passband position.

❿ **IF-FILTER PASSBAND WIDTH INDICATOR** (p. 52)
Indicates the current signal passband width.

⓫ **MAXIMUM FREQUENCY SPAN INDICATORS** (p. 84)

➥ Indicates the upper and lower observable frequency limits around a receive frequency.

➥ In the diagram, the upper and lower limits are ± 500 kHz.

⓬ **LIMIT/PAUSE INDICATOR** (p. 84)

➥ “LIMIT” appears when the tuning step (❸) is larger than the automatic sweep step (⓭) setting.

- The limit indicator is not indicated when the tuning step and the sweep step width are the same.

➥ “PAUSE” appears while the band scope is pausing.

⓭ **FREQUENCY SPAN INDICATOR** (p. 84)
Indicates the frequency span selected with the [SPAN +] or [SPAN –] button.

⓮ **CENTER FREQUENCY INDICATOR** (p. 84)
Indicates the center frequency of the frequency span; this is for the currently received frequency.

⓯ **SWEEP STEP INDICATOR** (p. 84)
Indicates band scope sweep step.

⓰ **AFC INDICATOR [AFC]** (p. 53)
Appears when the AFC (Automatic Frequency Control) function is ON.

⓱ **ATTENUATOR INDICATOR [ATT]** (p. 53)
Appears when the ATT (Attenuator) function is ON.

⓲ **TSQL/DTCS INDICATOR [TSQL]/[DTCS]**

➥ “TSQL” appears when the tone squelch frequency is set. (p. 79)

➥ “DTCS” appears when DTCS code and the polarity are set. (p. 80)

⓳ **REVERSE/POCKET BEEP INDICATOR [R]/((•))**

➥ “[R]” appears when the reverse action is set. (pgs. 79, 80)

➥ “((•))” appears when the pocket beep function is set. (p. 81)

⓴ **VSC INDICATOR [VSC]** (p. 55)
Appears when the VSC (Voice Squelch Control) function is ON.

㉑ **AGC INDICATOR [AGC-F]** (p. 54)
“AGC-F” appears when the AGC fast is selected.

㉒ **NB INDICATOR [NB]** (p. 54)
Appears when the NB (Noise Blanker) function is ON.

㉓ **FREQUENCY/TIME INDICATOR [FREQ]/[TIME]**

➥ “FREQ” appears when Frequency mode is selected in the band scope operation. (p. 83)

➥ “TIME” appears when Time mode is selected in the band scope operation. (p. 84)

㉔ **TIME INTERVAL INDICATORS** (p. 84)
Indicates the time interval to sweep the receiving signal.

㉕ **RECEIVE MODE INDICATORS** (p. 48)
Indicate the current receive mode.

㉖ **IF FILTER INDICATOR** (p. 52)
Indicates the selected IF filter.

㉗ **MUTE INDICATOR** (p. 50)
Appears when the squelch circuit mutes the received audio signal.

㉘ **MONI INDICATOR** (p. 50)
Appears during monitoring the operating frequency.

㉙ **S (SIGNAL) METER** (pgs. 43, 47)
➥ Indicates the receive signal strength.
➥ Indicates the S-meter squelch receive level set via the [SQUELCH] control.

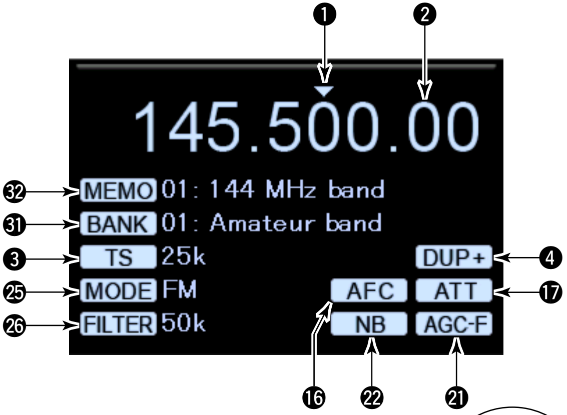
㉚ **BUSY INDICATOR [BUSY]**
Appears when receiving a signal or when signal noise opens the squelch.

㉛ **MEMORY BANK INDICATOR** (p. 58)
Indicates the memory bank number (and name if it is set) being received.

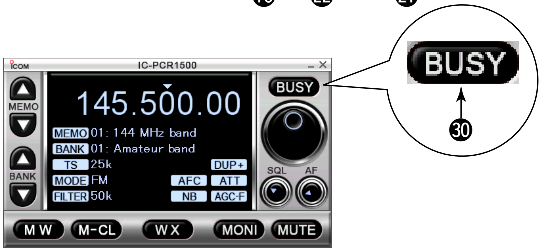
㉜ **MEMORY CHANNEL INDICATOR** (p. 58)
Indicates the memory channel number (and name if it is set) being received.

◇ Function display (on Simple screen)

The function display indicators on the Simple screen operate the same as on the Multi-function receiver screens. Please refer to the explanations on pages. 36 to 38.



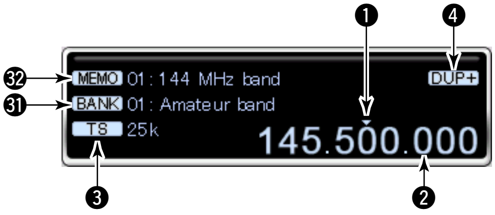
145.500.00
MEMO 01: 144 MHz band
BANK 01: Amateur band
TS 25k
MODE FM
FILTER 50k

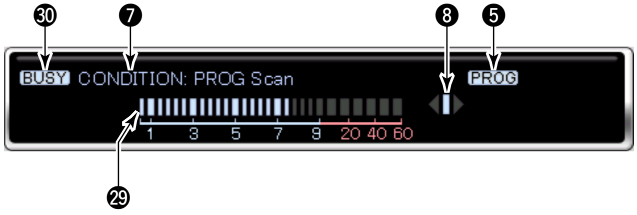


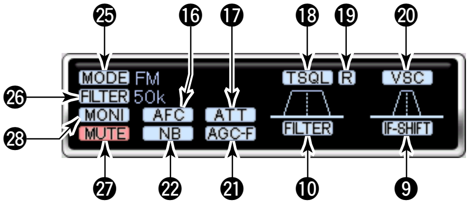
145.500.00
MEMO 01: 144 MHz band
BANK 01: Amateur band
TS 25k
MODE FM
FILTER 50k

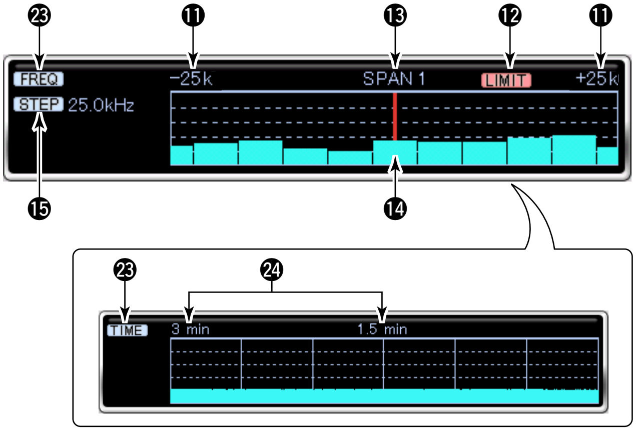
◇ Function display (on Component screen)

The function display indicators on the Component screen operate the same as on the Multi-function receiver screens. Please refer to the explanations on pages. 36 to 38.


①
④
㉜
MEMO 01 : 144 MHz band
DUP+
㉛
BANK 01 : Amateur band
TS 25k
145.500.000
③
②

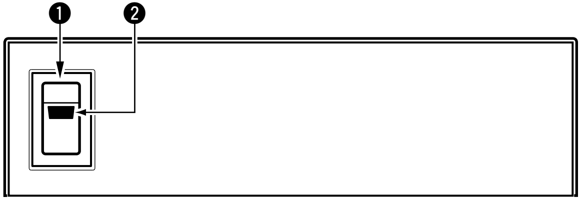

㉚
⑦
⑧
⑤
BUSY CONDITION: PROG Scan
PROG
1 3 5 7 9 20 40 60
㉙


㉕
⑯
⑰
⑱
⑲
⑳
MODE FM
TSQL R
VSC
㉖
FILTER 50k
MONI AFC ATT
MUTE NB AGC-F
FILTER
IF-SHIFT
㉘
㉗
㉒
㉑
⑩
⑨


㉓
⑪
⑬
⑫
⑪
FREQ
−25k
SPAN 1
LIMIT
+25k
STEP 25.0kHz
⑮
⑭
㉓
㉔
TIME
3 min
1.5 min

■ Main unit

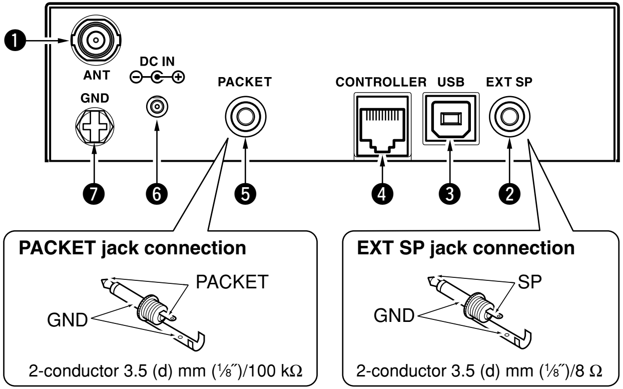
◇ Front panel



❶ POWER SWITCH [POWER]
Turn the IC-PCR1500 main unit power ON and OFF.

❷ POWER INDICATOR
Lights when the IC-PCR1500 main unit is turned ON.

◇ Rear panel


❶
ANT
DC IN
⊖-◐-⊕
PACKET
CONTROLLER
USB
EXT SP
GND
❼
❻
❺
❹
❸
❷
PACKET jack connection
PACKET
GND
2-conductor 3.5 (d) mm (⅛″)/100 kΩ
EXT SP jack connection
SP
GND
2-conductor 3.5 (d) mm (⅛″)/8 Ω

❶ ANTENNA CONNECTOR [ANT]
Connects a 50 Ω antenna with a BNC connector and a 50 Ω coaxial cable.

❷ EXTERNAL SPEAKER JACK [EXT SP]
Connects an 8 Ω external speaker (not supplied).
- Audio output power is more than 0.5 W.

❸ USB CONNECTOR [USB]
Connects to a PC via the supplied USB cable.

❹ CONTROLLER [CONTROLLER] (IC-R1500 only)
Connects to a controller via an extension cable.

❺ DATA JACK [PACKET]
Connects a TNC (Terminal Node Controller), etc. for data communications.
- The receiver can receive 9600 bps packet communication (AFSK.)
- See p. 2 for connection information.

❻ POWER JACK [DC IN]
Accepts 12 V DC ±15% with the supplied DC power cable.

❼ GROUND TERMINAL [GND]
Connect this terminal to a ground.

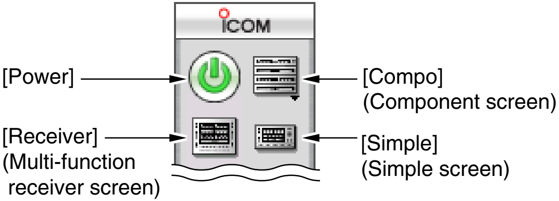
■ Starting the IC-PCR1500

①Before launching the program, please make sure the IC-PCR1500 is powered ON.
- The power indicator lights green.

②Launch the IC-PCR1500 program. (p. 26)

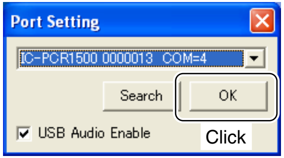
③Click the [Power] icon on the tool bar to turn the IC-PCR1500 ON.

④Click the desired icon, [Receiver], [Compo] or [Simple] on the tool bar to select the receiver screen that you want to use.


ICOM
[Power]
[Compo]
(Component screen)
[Receiver]
(Multi-function
receiver screen)
[Simple]
(Simple screen)

◇ USB port confirmation

After the IC-PCR1500 is turned ON (step ③ as above), the following dialog box appears at first time only. Please confirm the connected PC's USB port number and serial number of your IC-PCR1500, then click [OK].


Port Setting

IC-PCR1500 0000013 COM=4

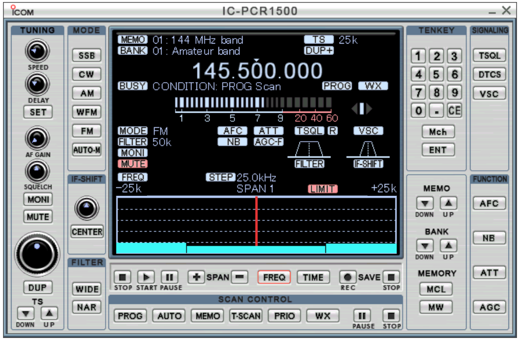
☑ USB Audio Enable

Click

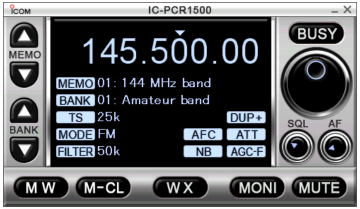
■ Changing the screen

Click the desired tool bar icon that you want to use.

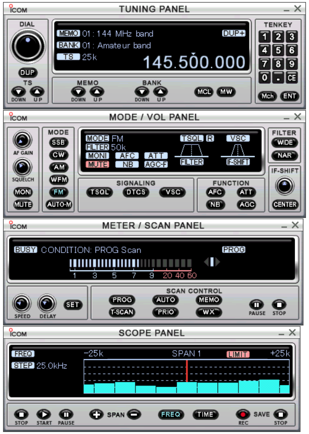
➥Click the [Receiver] icon for the Multi-function receiver screen.


ICOM
IC-PCR1500
TUNING
SPEED
DELAY
SET
AF GAIN
SQUELCH
MONI
MUTE
DUP
TS
DOWN
UP
MODE
SSB
CW
AM
WFM
FM
AUTO-M
IF-SHIFT
CENTER
FILTER
WIDE
NAR
MEMO 01 : 144 MHz band
BANK 01 : Amateur band
TS 25k
DUP+
145.500.000
BUSY CONDITION: PROG Scan
PROG
WX
1 3 5 7 9 20 40 60
MODE FM
FILTER 50k
MONI
MUTE
AFC
NB
ATT
AGC-F
TSQL R
VSC
FILTER
IF-SHIFT
FREQ
-25k
STEP 25.0kHz
SPAN 1
LIMIT
+25k
STOP
START
PAUSE
SPAN
FREQ
TIME
SAVE
REC
STOP
SCAN CONTROL
PROG
AUTO
MEMO
T-SCAN
PRIO
WX
PAUSE
STOP
TENKEY
1 2 3
4 5 6
7 8 9
0 . CE
Mch
ENT
MEMO
DOWN UP
BANK
DOWN UP
MEMORY
MCL
MW
SIGNALING
TSQL
DTCS
VSC
FUNCTION
AFC
NB
ATT
AGC

➥Click the [Simple] icon for the Simple screen.

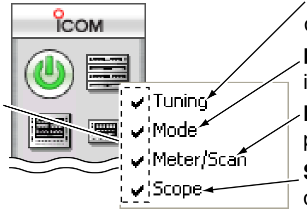

ICOM
IC-PCR1500
MEMO
BANK
145.500.00
MEMO 01 : 144 MHz band
BANK 01 : Amateur band
TS 25k
DUP+
MODE FM
AFC
ATT
FILTER 50k
NB
AGC-F
BUSY
SQL
AF
M W
M-CL
W X
MONI
MUTE

➥Click the [Compo] icon for the Component screen.


TUNING PANEL
MODE / VOL PANEL
METER / SCAN PANEL
SCOPE PANEL
145.500.000
CONDITION: PROG Scan

◇ Component screen selection

Click the [Compo] icon to display the Component screen, then click again to display the Component screen menu.
Select each panel indication ON or OFF.


ICOM
✔ Tuning
✔ Mode
✔ Meter/Scan
✔ Scope

Check mark ✔ is displayed during the screen indication.

TUNING panel is displayed.

MODE/VOL panel is displayed.

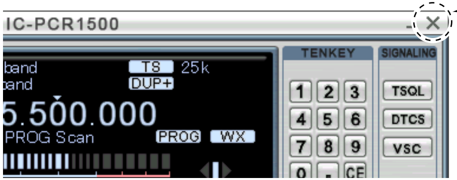
METER/SCAN panel is displayed.

SCOPE panel is displayed.

■ Closing the IC-PCR1500

Click the close button ([**X**]) to close the IC-PCR1500 program.

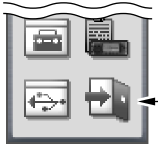
- Click the close button (**X**) in each [TUNING PANEL], [MODE/VOL PANEL], [METER/SCAN PANEL] and [SCOPE PANEL] when the Component screen is displayed.


IC-PCR1500
TENKEY
SIGNALING
TSQL
DTCS
VSC

Close button

■ Quitting the IC-PCR1500

Click the [Exit] icon on the tool bar to quit the IC-PCR1500.



[Exit]

■ Receiving

Make sure the hardware installation is finished. (p. 1)

①Click the [Power] icon on the tool bar to turn power ON.

②Click the desired icon, [Receiver], [Compo] or [Simple] on the tool bar to select the displayed receiver screen type that you want to use.

③Click [AF GAIN] ([AF])* to set the audio level.
- Right-click to increase the audio level.
- Left-click to decrease the audio level.
- When clicking and holding [AF GAIN] ([AF])*, the audio level scrolls up or down.
- Push the PC's [↑] (UP) or [↓] (DOWN) key also sets the audio level.

④Click [SQUELCH] ([SQL])* to set the squelch level.
- Right-click to increase the squelch level (tight squelch).
- Left-click to decrease the squelch level (loose squelch).
- When clicking and holding [SQUELCH] ([SQL])*, the squelch level scrolls up or down.

⑤Set the receive frequency and mode. (pgs. 44, 45, 48)

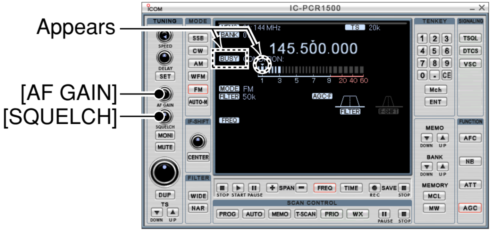
⑥When receiving a signal on the set frequency, squelch opens and the receiver emits audio.

For Multi-function receiver/Component screen
- "BUSY" appears and the S-meter indicator shows the relative signal strength for the received signal.

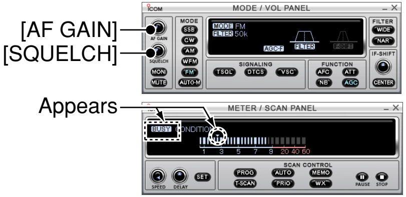
For Simple screen
- "BUSY" indicator lights green.

*Available only when Simple screen is displayed.

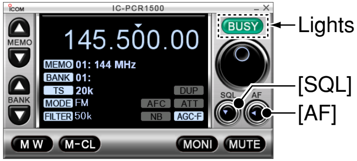
Multi-function receiver screen


Appears
[AF GAIN]
[SQUELCH]
IC-PCR1500
BUSY
145.500.000

Component screen


[AF GAIN]
[SQUELCH]
Appears
MODE / VOL PANEL
METER / SCAN PANEL
BUSY

Simple screen


Lights
[SQL]
[AF]
IC-PCR1500
BUSY
145.500.00

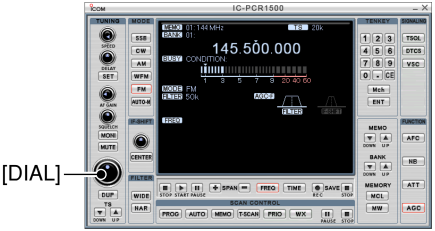
■ Setting a frequency

Depending on the situation, the receive frequency can be set using the following methods. Frequencies can be set from 0.010 to 3299.9999 MHz.

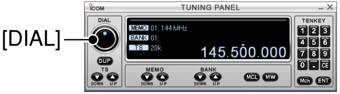
◇ Using the tuning dial

➥ Click [DIAL] to set the receive frequency with the selected tuning step.
- Right-click to increase the frequency.
- Left-click to decrease the frequency.
- When clicking and holding [DIAL], the frequency scrolls up or down.
- The frequency changes according to the preset tuning steps. See pgs. 45 and 46 for selecting the tuning step.

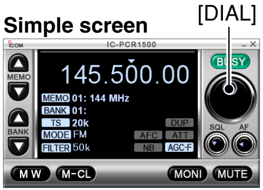
Multi-function receiver screen



Component screen



Simple screen

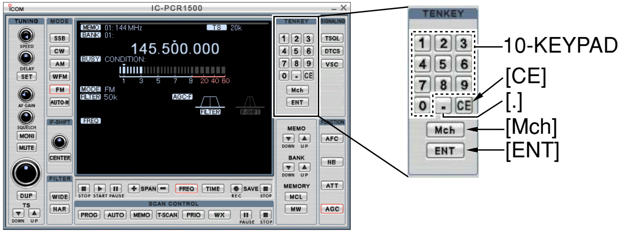


◇ Using the 10-keypad

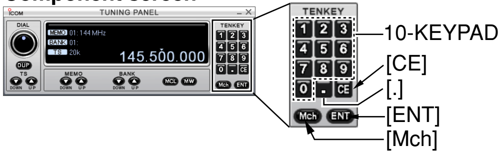
Using Multi-function receiver/Component screen

➥ Click the desired 10-keypad, then click [ENT] to set the frequency.
- If you make a mistake while inputting a frequency, click [CE] to clear the input and return to the previous frequency.
- When you want to change the 100 kHz digit and below, click [•] first, then the 10-keypad and then [ENT].
- When you want to set the 100 kHz digit and below to 0, input the MHz digits and then click [ENT].
- When inputting a frequency outside of the allowed receive frequency range, the previously selected frequency is automatically selected after clicking [ENT].

Multi-function receiver screen



Component screen



◇ Using the PC keyboard

➥ Enter the desired frequency using the 10-keypad on the PC keyboard, then push [Enter] to set the frequency.

- When inputting from the keyboard, click anywhere in the receiver screen first, then begin inputting the frequency.
- If you make a mistake while inputting a frequency, click [CE] on the receiver screen to clear the input and return to the previous frequency.
- When you want to change the 100 kHz digit and below, push [•] first, then the 10-keypad and then [Enter].
- When you want to set the 100 kHz digit and below to 0, input the MHz digits and then push [Enter].
- When inputting a frequency outside of the allowed receive frequency range, the previously selected frequency is automatically selected after clicking [Enter].

■ Setting a tuning step

When using the tuning dial to change the frequency, or when a scan function is activated, the frequency changes in increments determined by the set tuning step. The tuning step is adjustable.

The following tuning step are available:

- 1 Hz
- 10 Hz
- 20 Hz
- 50 Hz
- 100 Hz
- 500Hz
- 1 kHz
- 2.5 kHz
- 5 kHz
- 6.25 kHz
- 8.33 kHz
- 9 kHz
- 10 kHz
- 12.5 kHz
- 15 kHz
- 20 kHz
- 25 kHz
- 30 kHz
- 50 kHz
- 100 kHz
- 125 kHz
- 150 kHz
- 200 kHz
- 500 kHz
- 1 MHz
- 10 MHz
- USER*

*When “USER” is selected, the user programmed tuning step (default: 5 kHz) in “User TS” screen is selected. (p. 46)

☞ Continued to the next page.

◇ Tuning step selection

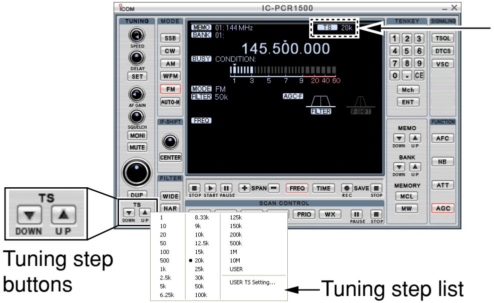
Using Multi-function receiver/Component screen

➥ Right-click [TS ▲] or [TS ▼] to display a tuning step list, then select the desired tuning step.

➥ Left-click [TS ▲] or [TS ▼] to set the desired tuning step in order.

- The selected tuning step is displayed in the function display.

Multi-function receiver screen

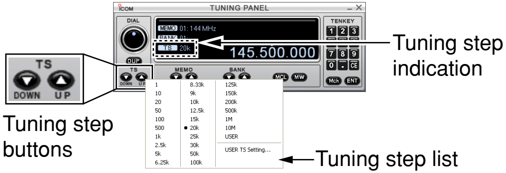

IC-PCR1500
TUNING
MODE
SSB
CW
AM
WFM
FM
AUTO-M
SET
MONI
MUTE
CENTER
DUP
WIDE
NAR
MEMO 01: 144 MHz
BANK 01:
TS 20k
145.500.000
BUSY CONDITION:
MODE FM
FILTER 50k
AGC-F
FREQ
TENKEY
TSQL
DTCS
VSC
Mch
ENT
MEMO
BANK
MEMORY
MCL
MW
FUNCTION
AFC
NB
ATT
AGC
SCAN CONTROL
PRIO
WX
TS
DOWN
UP
1
10
20
50
100
500
1k
2.5k
5k
6.25k
8.33k
9k
10k
12.5k
15k
● 20k
25k
30k
50k
100k
125k
150k
200k
500k
1M
10M
USER
USER TS Setting...

Tuning step indication

Tuning step buttons

Tuning step list

Component screen


TUNING PANEL
DIAL
MEMO 01: 144 MHz
BANK 01:
TS 20k
145.500.000
TENKEY
DUP
MEMO
BANK
MCL
MW
Mch
ENT
TS
DOWN
UP
1
10
20
50
100
500
1k
2.5k
5k
6.25k
8.33k
9k
10k
12.5k
15k
● 20k
25k
30k
50k
100k
125k
150k
200k
500k
1M
10M
USER
USER TS Setting...

Tuning step indication

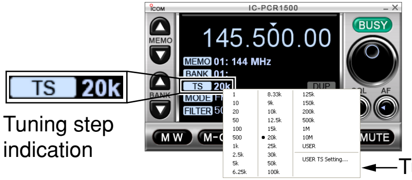
Tuning step buttons

Tuning step list

Using Simple screen

Click the tuning step indication to display a tuning step list, then select the desired tuning step.

Simple screen


IC-PCR1500
MEMO
BANK
145.500.00
MEMO 01: 144 MHz
BANK 01:
TS 20k
MODE
FILTER
DUP
BUSY
AF
MW
M-C
MUTE
1
10
20
50
100
500
1k
2.5k
5k
6.25k
8.33k
9k
10k
12.5k
15k
● 20k
25k
30k
50k
100k
125k
150k
200k
500k
1M
10M
USER
USER TS Setting...

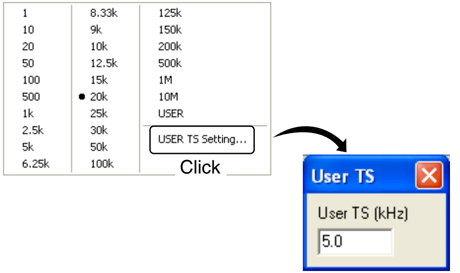
Tuning step indication

Tuning step list

◇ Setting the user tuning step

Right-click [TS ▲] or [TS ▼] (or click tuning step indication)* to display a tuning step list, then select "USER TS Setting...". You can edit the desired tuning step from 0.001–9999.999 kHz (in 0.001 step) directly.

*Available only when Simple screen is displayed.


1
10
20
50
100
500
1k
2.5k
5k
6.25k
8.33k
9k
10k
12.5k
15k
● 20k
25k
30k
50k
100k
125k
150k
200k
500k
1M
10M
USER
USER TS Setting...
Click
User TS

User TS (kHz): 5.0

User tuning step setting screen

■ Squelch level setting

The squelch function sets a minimum receive signal level below which no audio is sent to the speaker. This prevents static or hiss from being heard through the speaker between transmissions.

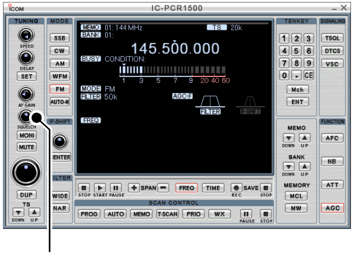
A higher squelch setting removes weak signals. The remove level is displayed on the S-meter (S-meter squelch). The squelch does not open if a signal below the set S-meter level is received.

Using Multi-function receiver/Component screen

Click [SQUELCH] to set the squelch level.

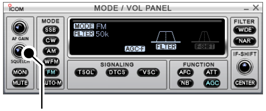
- Right-click to increase the squelch level (tight squelch).
- Left-click to decrease the squelch level (loose squelch).
- When clicking and holding [SQUELCH], the audio level scrolls up or down.
- The S-meter squelch level is displayed in the function display.

Multi-function receiver screen


ICOM
IC-PCR1500
TUNING
MODE
SPEED
DELAY
SET
AF GAIN
SQUELCH
MONI
MUTE
DUP
TS
DOWN
UP
SSB
CW
AM
WFM
FM
AUTO-M
IF-SHIFT
CENTER
FILTER
WIDE
NAR
MEMO 01: 144 MHz
BANK 01:
TS 20k
145.500.000
BUSY
CONDITION:
1 3 5 7 9 20 40 60
MODE FM
FILTER 50k
AGC-F
FILTER
IF-SHIFT
FREQ
STOP START PAUSE
SPAN
FREQ
TIME
SAVE
REC STOP
SCAN CONTROL
PROG
AUTO
MEMO
T-SCAN
PRIO
WX
PAUSE
STOP
TENKEY
1 2 3
4 5 6
7 8 9
0 • CE
Mch
ENT
MEMO
BANK
MEMORY
MCL
MW
SIGNALING
TSQL
DTCS
VSC
FUNCTION
AFC
NB
ATT
AGC

[SQUELCH]

Component screen


ICOM
MODE / VOL PANEL
AF GAIN
SQUELCH
MONI
MUTE
MODE
SSB
CW
AM
WFM
FM
AUTO-M
MODE FM
FILTER 50k
AGC-F
FILTER
IF-SHIFT
SIGNALING
TSQL
DTCS
VSC
FUNCTION
AFC
ATT
NB
AGC
FILTER
WIDE
NAR
IF-SHIFT
CENTER

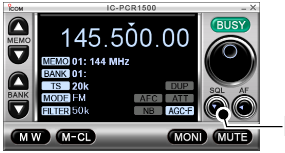
[SQUELCH]

Using Simple screen

Click [SQL] to set the squelch level.

- Right-click to increase the squelch level (tight squelch).
- Left-click to decrease the squelch level (loose squelch).
- When clicking and holding [SQL], the audio level scrolls up or down.

Simple screen


ICOM
IC-PCR1500
MEMO
BANK
145.500.00
MEMO 01: 144 MHz
BANK 01:
TS 20k
MODE FM
FILTER 50k
DUP
AFC
ATT
NB
AGC-F
BUSY
SQL
AF
M W
M-CL
MONI
MUTE

[SQL]

■ Receive mode selection

Receive modes are determined by the physical properties of the radio signals. The receiver has 6 receive modes: USB LSB, CW, AM, WFM and FM modes. The mode selection is stored independently in each memory channel.

Typically, AM mode is used for the AM broadcast stations (0.495–1.620 MHz), air band (118–135.995 MHz), and short-wave broadcasts. WFM is used for FM broadcast stations (76–107.9 MHz).

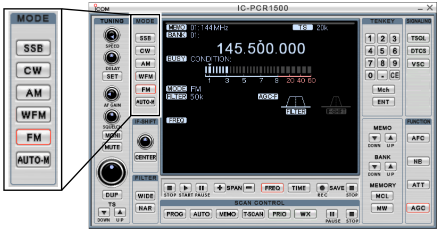
When using [AUTO-M] (automatic mode), a receive mode, IF filter passband width, tuning step, etc., are selected automatically after inputting a frequency. (p. 49)

Using Multi-function receiver/Component screen

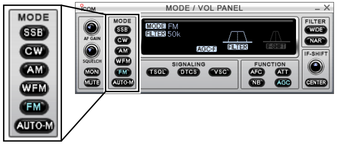
Click [SSB], [CW], [AM], [WFM], [FM] or [AUTO-M] to select the desired receive mode.

- Clicking [SSB] toggles between the USB and LSB mode.

Multi-function receiver screen


MODE
SSB
CW
AM
WFM
FM
AUTO-M
IC-PCR1500
145.500.000
MODE FM
FILTER 50k

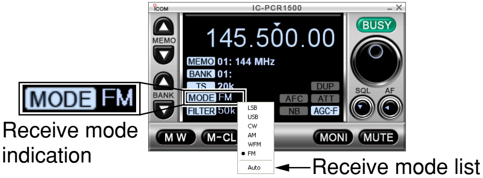
Component screen


MODE
SSB
CW
AM
WFM
FM
AUTO-M
MODE / VOL PANEL

Using Simple screen

Click [MODE] to display a mode list, then select the desired receive mode.

Simple screen


MODE FM
IC-PCR1500
145.500.00
BUSY
LSB
USB
CW
AM
WFM
FM
Auto

Receive mode indication

Receive mode list

■ Automatic mode selection

An automatic mode function is available to automatically set the receive mode, IF filter passband width, tuning step, etc. after inputting a frequency.

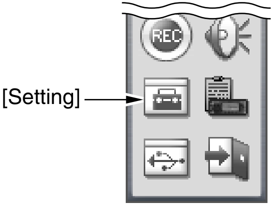
Using Multi-function receiver/Component screen
Each click of [AUTO-M] toggles the automatic mode function ON and OFF.

Using Simple screen
Click [MODE] to display a receive mode list, then select [Auto] to turn the automatic mode function ON.

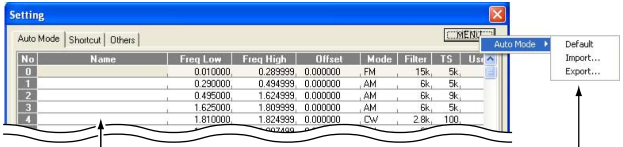
◇ Setting the automatic mode function

The default setting for the automatic mode function can be added to, changed or deleted. Up to 100 ranges can be memorized into the automatic mode function settings.

① Click the [Setting] icon on the tool bar to call up the [Setting] screen if it is not displayed.



②Click the [Auto Mode] tab to display the automatic mode list.



No	Name	Freq Low	Freq High	Offset	Mode	Filter	TS	Use
0		0.010000	0.289999	0.000000	FM	15k	5k	
1		0.290000	0.494999	0.000000	AM	6k	5k	
2		0.495000	1.624999	0.000000	AM	6k	9k	
3		1.625000	1.809999	0.000000	AM	6k	5k	
4		1.810000	1.824999	0.000000	CW	2.8k	100	

Edit the desired memory name (up to 32 characters)

Click [MENU], then point to [Auto Mode]. Select the desired item from the list.
Default: Return the Auto Mode setting list contents to default.
Import : Import the CSV file.
Export : Export the CSV file.

③Click a cell in the [Freq Low] column and the desired line.

④Input the lower frequency of the frequency range from the keyboard, then push [Enter].
- When nothing is input into the [Freq Low] or [Freq High] column, settings for other columns cannot be made.
- When inputting a new frequency, other data automatically appears in the other column.
- To delete a frequency range setting, enter [0] or [Space] into the [Freq Low] column from the keyboard.

⑤Input the higher frequency of the frequency range into the [Freq High] column, push the [Enter] key.

⑥Set other data such as mode, tuning step, etc., if desired.
- Double-click the desired cell, select the desired item and double-click the selection.

⑦Click the close button ([**X**]) to close the setting screen.

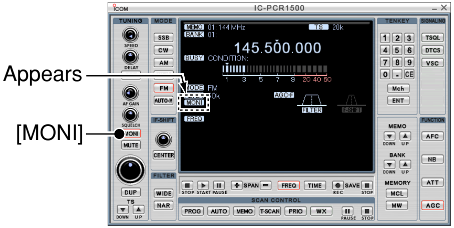
■ Monitor function

This function is used to listen to weak signals without disturbing the squelch setting or to open the squelch manually even when mute functions such as the tone squelch are in use.

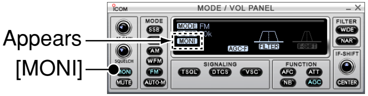
Click [MONI] to monitor the operating frequency.

- "MONI" appears when Multi-function receiver/Component screen is displayed.
- "MONI" button lights green when Simple screen is displayed.

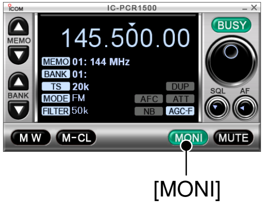
Multi-function receiver screen



Component screen



Simple screen



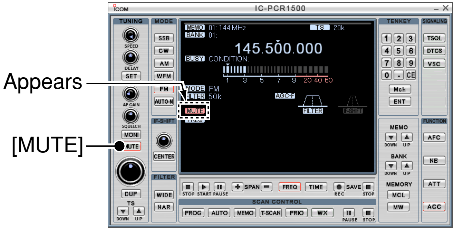
■ Mute function

This function is used to mute the received audio signal.

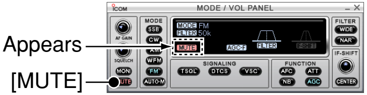
Click [MUTE] to temporarily mute audio output.

- "MUTE" appears when Multi-function receiver/Component screen is displayed.
- "MUTE" button lights green when Simple screen is displayed.

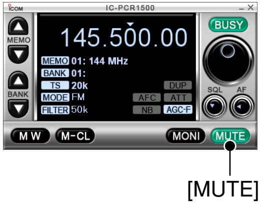
Multi-function receiver screen



Component screen



Simple screen



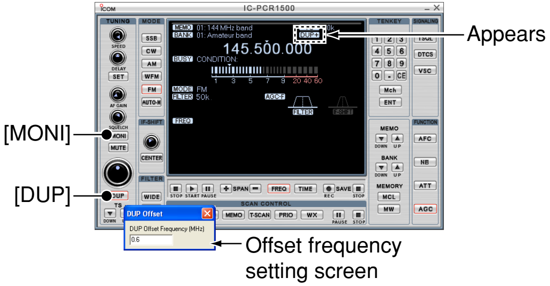
■ Duplex operation

Duplex communication uses one frequency for transmit, and a different frequency for receive. Generally, duplex is used in communication through a repeater, some utility communications, etc.

During duplex operation, the transmit station frequency is shifted from the receive station frequency by the offset frequency. Repeater information (offset frequency and shift direction) can be programmed into memory channels. (p. 58)

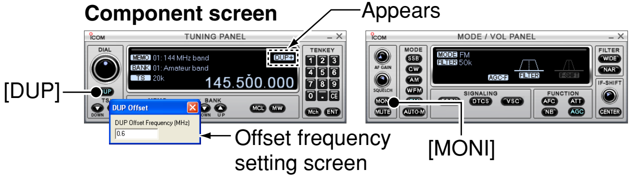
①Set the receive frequency (repeater output frequency). (pgs. 44, 45)
②Right click [DUP] to display the [DUP Offset] screen.
③Set the desired offset frequency within 0.000000–1000.000000 MHz range, then click the close button ([X]) to close the setting screen.
④Left click [DUP] to toggle the duplex direction from OFF (simplex), DUP–, or DUP+.
⑤Click [MONI] to monitor the transmit station frequency (repeater input frequency).
The displayed frequency shifts the offset frequency when monitor function is in use.

Multi-function receiver screen


Appears
[MONI]
[DUP]
Offset frequency setting screen
IC-PCR1500
DUP+
145.500.000

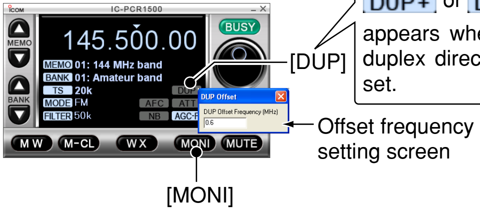
DUP Offset
DUP Offset Frequency (MHz)
0.6

Component screen


Appears
[DUP]
Offset frequency setting screen
[MONI]
TUNING PANEL
MODE / VOL PANEL
DUP+
145.500.000

DUP Offset
DUP Offset Frequency (MHz)
0.6

Simple screen


[DUP]
Offset frequency setting screen
[MONI]
IC-PCR1500
145.500.00
BUSY
M W
M-CL
W X
MONI
MUTE

DUP Offset
DUP Offset Frequency (MHz)
0.6

DUP+ or DUP– appears when the duplex direction is set.

■ IF filter selection

Increasing or decreasing the width of incoming signals can help eliminate interference. Available filters vary according to the receive mode. See the table below.

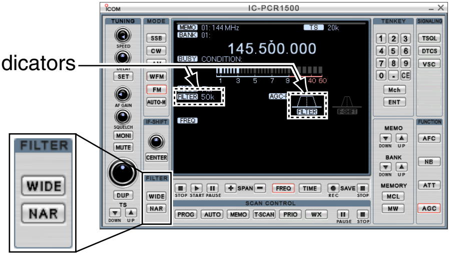
IF filter	2.8 kHz	6 kHz	15 kHz	50 kHz	230 kHz
USB/LSB	○	○	—	—	—
CW	○	○	—	—	—
WFM	—	—	—	○	○
AM	○	○	○	○	—
FM	—	○	○	○	—

○: Available –: Not available

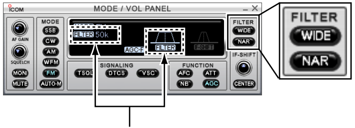
Using Multi-function receiver/Component screen

Click [WIDE] or [NAR] to select the desired IF filter widths.

Multi-function receiver screen


Filter indicators
IC-PCR1500
145.500.000
MEMO 01: 144 MHz
BANK 01:
TS 20k
FILTER 50k
FILTER
WIDE
NAR

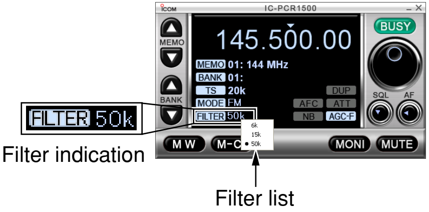
Component screen


MODE / VOL PANEL
FILTER 50k
FILTER
WIDE
NAR
Filter indicators

Using Simple screen screen

Click [FILTER] to display a filter list, then select the desired filter widths.

Simple screen

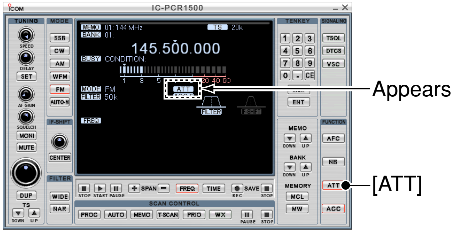

IC-PCR1500
145.500.00
BUSY
MEMO 01: 144 MHz
BANK 01:
TS 20k
MODE FM
FILTER 50k
6k
15k
50k
FILTER 50k
Filter indication
Filter list
M W
MONI
MUTE

■ Attenuator function

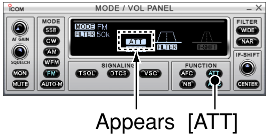
Strong signals (such as from broadcast stations, pocket beepers, nearby amateur radio stations, etc.) can cause distortion of receive signals. The attenuator function can reduce signal strength of interfering signals by approximately 20 dB.
This function cannot be used in 1300.000001 MHz or above.

Click [ATT] to turn the ATT (Attenuator) function ON or OFF.
- "ATT" appears when the ATT function is turned ON.

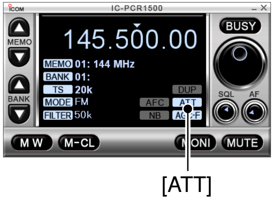
Multi-function receiver screen


IC-PCR1500
145.500.000
ATT
Appears
[ATT]

Component screen


MODE / VOL PANEL
ATT
Appears
[ATT]

Simple screen

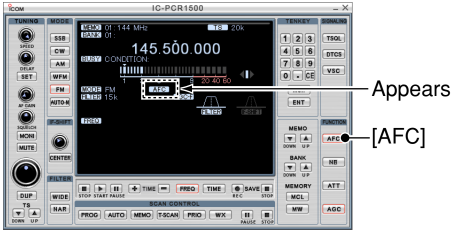

IC-PCR1500
145.500.00
ATT
[ATT]

■ AFC function

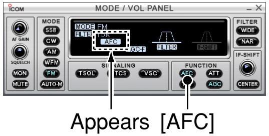
The AFC (Automatic Frequency Control) function tunes the displayed frequency automatically when an off-center frequency is received. It activates in FM mode and IF filter setting is 6 or 15 kHz only.

Click [AFC] to turn the AFC (Automatic Frequency Control) function ON or OFF.
- "AFC" appears when the AFC function is turned ON

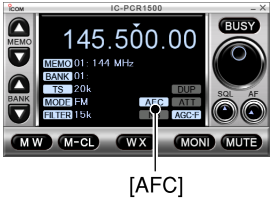
Multi-function receiver screen


IC-PCR1500
145.500.000
AFC
Appears
[AFC]

Component screen


MODE / VOL PANEL
AFC
Appears
[AFC]

Simple screen


IC-PCR1500
145.500.00
AFC
[AFC]

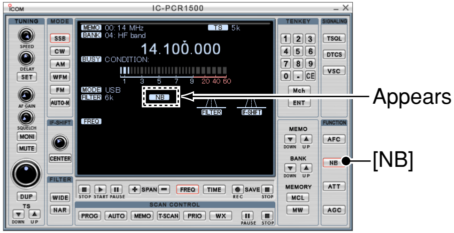
■ NB function

The NB (Noise Blanker) function removes pulse-type noise when USB, LSB, CW or AM mode is selected. Note that the noise blanker is not effective against natural noise such as atmospheric static.

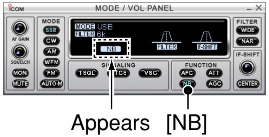
Click [NB] to turn the NB (Noise Blanker) function ON or OFF.

- “NB” appears when the NB function is turned ON.

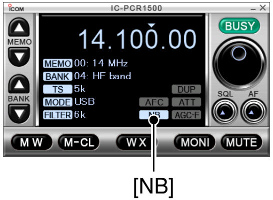
Multi-function receiver screen


IC-PCR1500
Appears
[NB]

Component screen


MODE / VOL PANEL
Appears
[NB]

Simple screen


IC-PCR1500
[NB]

■ AGC function

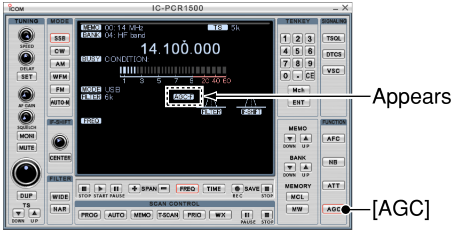
The AGC (Automatic Gain Control) function controls receiver gain to produce a constant audio output level even when the received signal strength is varied by fading, etc.
The AGC fast is always selected in FM or WFM mode.

Click [AGC] ([AGC-F])* to toggle the time constant of the AGC circuit between slow and fast.

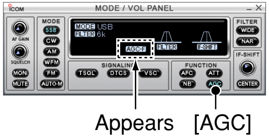
- “AGC-F” appears when fast is selected.

*Available only when Simple screen is displayed.

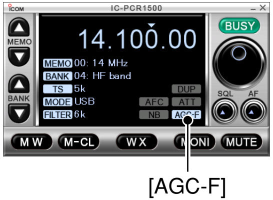
Multi-function receiver screen


IC-PCR1500
Appears
[AGC]

Component screen


MODE / VOL PANEL
Appears
[AGC]

Simple screen


IC-PCR1500
[AGC-F]

■ VSC function

The VSC (Voice Squelch Control) function opens the squelch only when receiving a modulated voice signal.

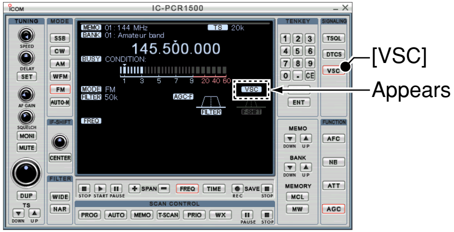
- Not modulated signal (contain no voice or music, etc. components) are muted.

Using Multi-function receiver/Component screen

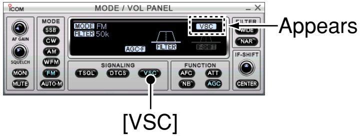
Click [VSC] to turn the VSC (Voice Squelch Control) function ON or OFF.

- “VSC” appears when the VSC function is turned ON.

Multi-function receiver screen



Component screen



■ IF shift function

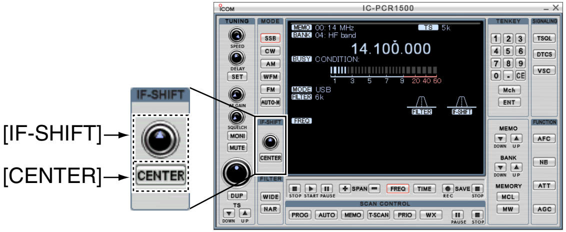
The IF shift function electronically changes the center of the IF (intermediate frequency) passband frequency to reject interference. It activates in SSB/CW modes only.

Using Multi-function receiver/Component screen

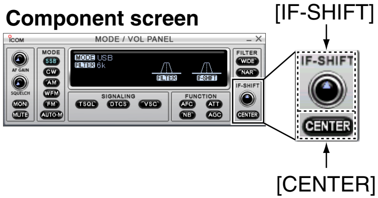
①Adjust the [IF-SHIFT] control for a minimum interference signal level.
- The audio tone may be changed while the IF shift is in use.

②Click [CENTER] to set the shift control to its center position when there is no interference.

Multi-function receiver screen



Component screen



■ Weather channel operation
(USA and CANADA versions only)

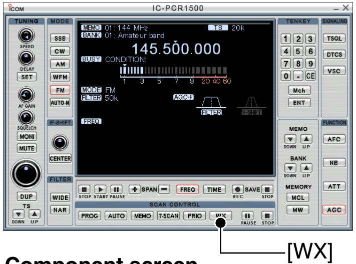
NOAA broadcast stations transmit weather alert tones before important weather announcements. When the weather alert function is turned ON, the selected weather channel is monitored each 5 sec. for the announcement. When the alert signal is detected, the "WX Alert" blinks and the WX channel is displayed, and sounds a beep tone until a change is made within the IC-PCR1500 program window, or the [WX] button is clicked. The previously selected (used) weather channel is checked periodically during standby or while scanning.

①Right-click the [WX] button to call up the [WX Alert] setting screen if it is not displayed.
②Select the desired weather channel in [WX Alert Channel].
- Click [CHECK] to monitor the selected weather channel.

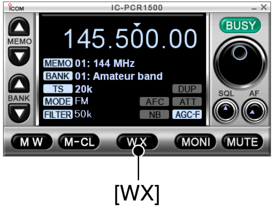
③Click the close ([**X**]) button to close the setting screen.
④ Click the [WX] button to turn the weather alert function ON.
⑤ When the alert is detected, a beep sounds and the indication will be displayed as at right.
⑥ Click the [WX] button to turn the weather alert function OFF.

☞ **NOTE:** While receiving a signal (on a frequency other than the weather alert ON frequency), the receiving signal or audio will be interrupted momentarily every 5 sec. (approx.) in case the alert function is turned ON. This symptom is caused by the WX alert function. To cancel these symptoms, set the weather alert item to OFF in set mode.

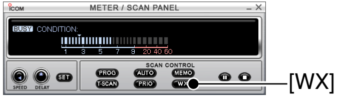
Multi-function receiver screen

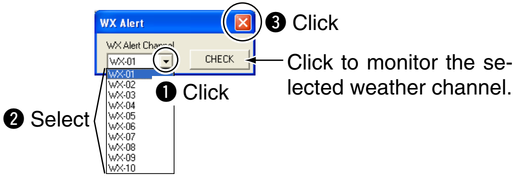

IC-PCR1500
145.500.000
[WX]

Simple screen

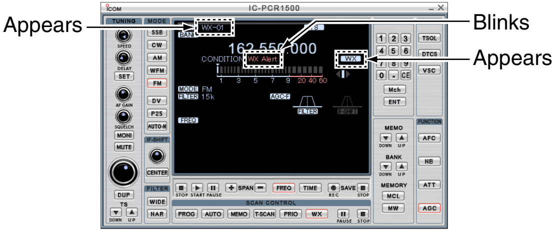

IC-PCR1500
145.500.00
BUSY
M W
M-CL
WX
MONI
MUTE
[WX]

Component screen

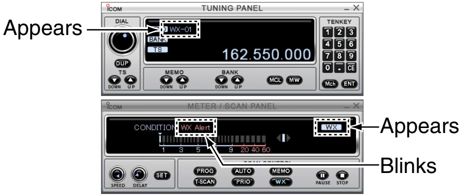

METER / SCAN PANEL
SCAN CONTROL
[WX]


WX Alert
WX Alert Channel
WX-01
CHECK
WX-01
WX-02
WX-03
WX-04
WX-05
WX-06
WX-07
WX-08
WX-09
WX-10
❸ Click
Click to monitor the selected weather channel.
❶ Click
❷ Select

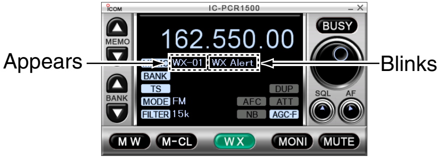
Multi-function receiver screen


Appears
IC-PCR1500
WX-01
Blinks
WX Alert
162.550.000
WX
Appears

Component screen


Appears
TUNING PANEL
WX-01
162.550.000
METER / SCAN PANEL
WX Alert
WX
Appears
Blinks

Simple screen

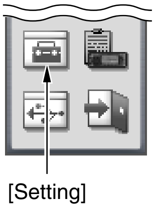

IC-PCR1500
162.550.00
Appears
WX-01
WX Alert
Blinks
BUSY
WX

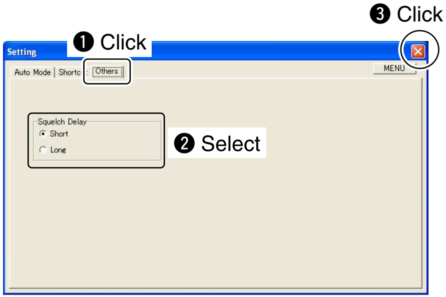
■ Squelch delay setting

Select squelch delay from short and long to prevent repeated opening and closing of the squelch during reception of the same signal.

- Short : Short squelch delay.
- Long : Long squelch delay.

① Click the [Setting] icon on the tool bar to call up the [Setting] screen if it is not displayed.
② Click the [Others] tab to display the squelch delay setting.
③ Click the [Short] or [Long] radio button to set the squelch delay.
④ Click the close button ([**X**]) to close the [Setting] list screen.




❸ Click
❶ Click
❷ Select
Auto Mode
Shortc
Others
MENU

Setting

Squelch Delay
● Short
○ Long

7 MEMORY CHANNELS

■ General

The receiver has 2600 memory channels for storage of often-used frequencies. Total of 26 memory banks are available for usage by group, etc., and 100 channels are assigned into a bank.

◇ Memory channel contents

The following information can be programmed into memory channels:

- Memory channel name (p. 62)
- Sub name (p. 62)
- Operating frequency (p. 44)
- Duplex direction (p. 51)
- Offset frequency (p. 51)
- Receive mode (p. 48)
- IF filter selection (p. 52)
- Attenuator ON/OFF (p. 53)
- Tuning step (p. 45)
- Select memory scan setting (p. 74)
- Memory skip scan setting (p. 74)
- Squelch control system ON/OFF and its frequency or code (p. 79)
- Remark (memory channel comment) (p. 62)

■ Memory channel selection

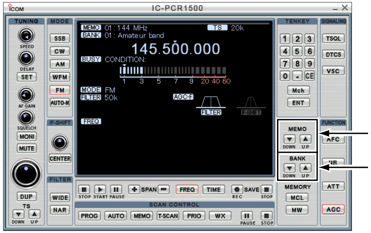
◇ Selecting with the receiver screen

• Using [▲]/[▼] buttons

① Click [BANK ▲] or [BANK ▼] to select the desired memory bank.

② Click [MEMO ▲] or [MEMO ▼] to select the desired memory channel.

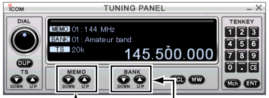
Multi-function receiver screen


IC-PCR1500
TUNING
MODE
SSB
CW
AM
WFM
FM
AUTO-M
TENKEY
SIGNALING
TSQL
DTCS
VSC
Mch
ENT
MEMO
BANK
DOWN UP
AFC
NB
ATT
AGC
MEMORY
MCL
MW
DUP
TS
CENTER
IF-SHIFT
FILTER
WIDE
NAR
SCAN CONTROL
PROG
AUTO
MEMO
T-SCAN
PRIO
WX
145.500.000
01 : 144 MHz
01 : Amateur band
CONDITION:
MODE FM
FILTER 50k
AGC-F
FREQ
TIME
SAVE
SPAN

MEMO [▲]/[▼]

BANK [▲]/[▼]

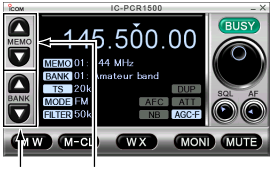
Component screen


TUNING PANEL
DIAL
DUP
TS
MEMO
BANK
TENKEY
01 : 144 MHz
01 : Amateur band
20k
145.500.000
MW
Mch
ENT

MEMO [▲]/[▼]

BANK [▲]/[▼]

Simple screen


IC-PCR1500
MEMO
BANK
145.500.00
01 : 144 MHz
01 : Amateur band
TS 20k
MODE FM
FILTER 50k
DUP
AFC
ATT
NB
AGC-F
BUSY
SQL
AF
MW
M-CL
WX
MONI
MUTE

BANK [▲]/[▼]

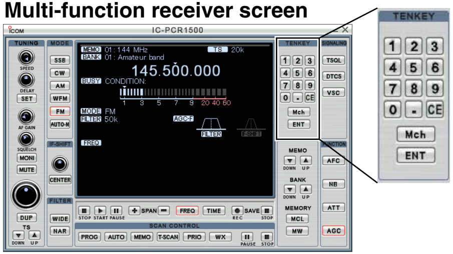
MEMO [▲]/[▼]

• *Direct channel number input on the Multi-function receiver/Component screen*

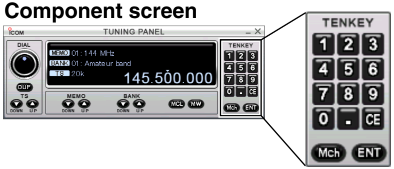
Use the 10-keypad to input the desired memory channel number, then click [Mch] to select the memory channel.

- If a mistake is made when inputting a memory channel, click [CE] to clear the input and return to the previous frequency indication.

Multi-function receiver screen


IC-PCR1500
TENKEY
1 2 3
4 5 6
7 8 9
0 . CE
Mch
ENT
MEMO 01 : 144 MHz
BANK 01 : Amateur band
145.500.000

Component screen


TUNING PANEL
TENKEY
1 2 3
4 5 6
7 8 9
0 . CE
Mch ENT
MEMO 01 : 144 MHz
BANK 01 : Amateur band
145.500.000

◇ Selecting with the memory channel screen

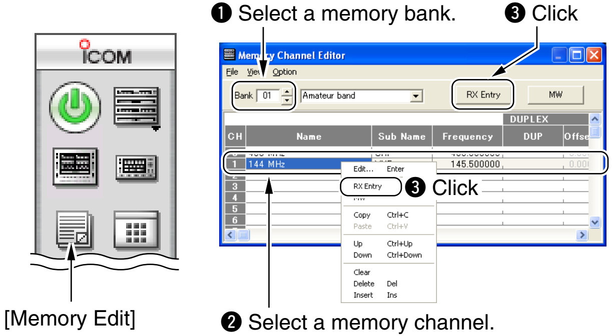
① Click the [Memory Edit] icon on the tool bar to call up the [Memory Channel Editor] screen if it is not displayed.

② Click [▲] or [▼] to select a memory bank.

③ Select the desired memory channel.

④ Click [RX Entry], or right-click a cell then click [RX Entry] in the edit menu.

- The selected channel data is displayed on the receiver screen.


❶ Select a memory bank.
❸ Click
Memory Channel Editor
File View Option
Bank 01
Amateur band
RX Entry
MW
DUPLEX
CH
Name
Sub Name
Frequency
DUP
Offset
144 MHz
145.500000
Edit... Enter
RX Entry
Copy Ctrl+C
Paste Ctrl+V
Up Ctrl+Up
Down Ctrl+Down
Clear
Delete Del
Insert Ins
❸ Click
[Memory Edit]
❷ Select a memory channel.

■ Memory channel programming

100 memory channels are assigned into a memory bank. There are 26 memory banks. Any of the following information can be stored.

- Bank name, memory name, frequency, duplex direction, offset frequency, mode, filter, attenuator, tuning step, select memory scan, skip channel, tone squelch and remark.

◇ Programming from the receiver screen

• Using Multi-function receiver/Component screen

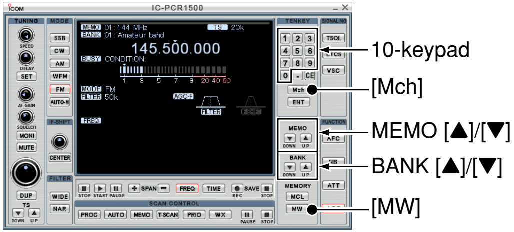
① Click [BANK ▲] or [BANK ▼] to select a memory bank to be programmed.

② Click [MEMO ▲] or [MEMO ▼], or use the 10-keypad to input the desired memory channel number, then click [Mch] to select a memory channel to be programmed.

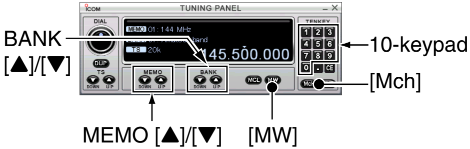
③ Set a frequency, mode, etc. that you want to memorize.

④ Click [MW] for 1 sec. to program the setting information into the selected memory channel.

Multi-function receiver screen



Component screen



• Using Simple screen

① Click [BANK ▲] or [BANK ▼] to select a memory bank to be programmed.

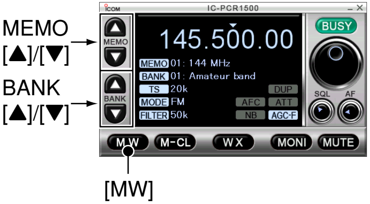
② Click [MEMO ▲] or [MEMO ▼] to select a pre-programmed memory channel to be programmed.

NOTE: You cannot program a blank channel.

③ Set a frequency, mode, etc. that you want memorized.

④ Click [MW] for 1 sec. to program the setting information into the selected memory channel.

Simple screen



■ Editing the memory list

① Click the [Memory Edit] icon on the tool bar to call up the [Memory Channel Editor] screen if it is not displayed.

② Click [▲] or [▼] to select the desired memory bank.

③ Click the [Frequency] cell of the desired memory channel, then input the receive frequency from the keyboard. After inputting, push [Enter].

Program the receive frequency first, otherwise no setting can be made except for the name.

④ Double-click the desired cell directory, or right-click the cell then click [Edit... Enter] from the displayed menu to set other items such as duplex direction, mode, tuning step, etc., if desired.

- Click the desired setting item in the pull down menu to select or change the channel setting, or edit it directly depends on the item.

⑤ Click the [RX Entry] to write the edited memory contents to the receiver.

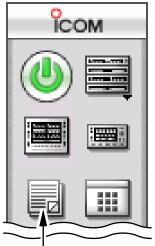
⑥ Click the close button ([X]) to close the [Memory Channel Editor] screen.

◇ Initializing the memory channel contents

The memory channel contents can be initialized using the “preset_e.mch” file (which is saved in mch format).

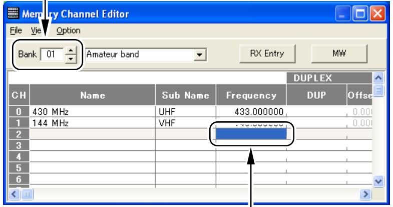
Click [Open...] in the [File] menu, then select “preset_e.mch” that is contained in the “IC-PCR1500” folder to load.

- If the “preset_e.mch” file is overwritten or lose, copy it from the supplied CD into the “IC-PCR1500” folder.
  - Right-click the copied file and select [Properties]. Then click [Read-only] check box (no check mark) to cancel the read protection.



[Memory Edit]

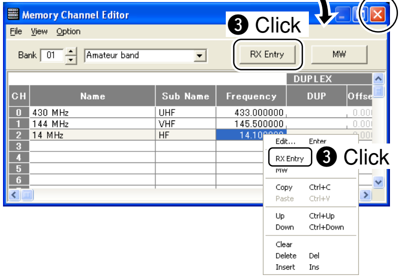
❶ Select a memory bank.


Memory Channel Editor
File
View
Option
Bank
01
Amateur band
RX Entry
MW
DUPLEX

CH	Name	Sub Name	Frequency	DUP
0	430 MHz	UHF	433.000000	
1	144 MHz	VHF		
2				
3				
4				
5				
6				

❷ Input the receive frequency, then set other items.

❹ Click

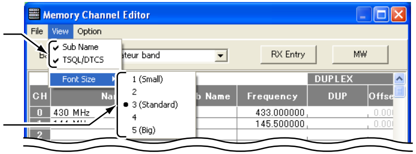

Memory Channel Editor
File
View
Option
Bank
01
Amateur band
RX Entry
MW
DUPLEX
❸ Click
Edit... Enter
RX Entry
MW
❸ Click
Copy Ctrl+C
Paste Ctrl+V
Up Ctrl+Up
Down Ctrl+Down
Clear
Delete Del
Insert Ins

CH	Name	Sub Name	Frequency	DUP
0	430 MHz	UHF	433.000000	
1	144 MHz	VHF	145.500000	
2	14 MHz	HF	14.10	
3				
4				
5				
6				

Edit menu

◇ About the [View] menu

The indicated character size, sub name and TSQL/DTCS setting indication can be set in [View] menu.

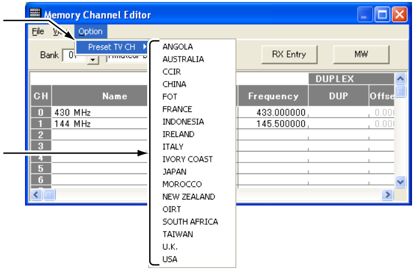

Memory Channel Editor
File
View
Option
Sub Name
TSQL/DTCS
Font Size
1 (Small)
2
3 (Standard)
4
5 (Big)
ateur band
RX Entry
MW
DUPLEX
CH
Name
Frequency
DUP
Offset
0
430 MHz
433.000000
0.000
145.500000
0.000
2

Click to turn the Sub Name and TSQL/DTCS indication ON and OFF.

Click to select the indicated character size.

◇ About the [Option] menu

Click [Preset TV CH] in [Option] menu to display the preset TV channel group. Then select the desired channel group. All available TV frequencies and channel numbers in the selected group are listed in the memory channel screen automatically.


Memory Channel Editor
File
View
Option
Preset TV CH
Bank
RX Entry
MW
ANGOLA
AUSTRALIA
CCIR
CHINA
FOT
FRANCE
INDONESIA
IRELAND
ITALY
IVORY COAST
JAPAN
MOROCCO
NEW ZEALAND
OIRT
SOUTH AFRICA
TAIWAN
U.K.
USA
DUPLEX
CH
Name
Frequency
DUP
Offset
0
430 MHz
433.000000
0.000
1
144 MHz
145.500000
0.000
2
3
4
5
6

Click to display the preset TV channel group.

Click to select the desired channel group.

◇ Editing the memory name

① Click the [Memory Edit] icon on the tool bar to call up the [Memory Channel Editor] screen if it is not displayed.

② Click [▲] or [▼] to select the desired bank.

③ Select the desired channel, then double-click the [Name] or [Sub Name] cell.
- A cursor starts blinking.
- [Name] (up to 64 characters) is used for the memory name of the IC-PCR1500.
- [Sub Name] (up to 6 characters) is used for the memory name of the IC-R1500.

④ Edit the desired memory name from the PC keyboard, then push [Enter] to input.

◇ Editing the channel remark (channel comment)

① Click the [Memory Edit] icon on the tool bar to call up the [Memory Channel Editor] screen if it is not displayed.

② Click [▲] or [▼] to select the desired memory bank.

③ Select the desired channel, then double-click [Remark] cell.
- A cursor starts blinking.

④ Edit the channel comment (up to 64 characters) from the PC keyboard, then push [Enter] to input.

◇ Calling up the memory channel data from the receiver

① Click the [Memory Edit] icon on the tool bar to call up the [Memory Channel Editor] screen if it is not displayed.

② Click [▲] or [▼] to select the desired memory bank.

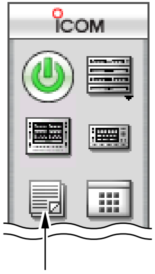
③ Select the desired memory channel to call up the operating channel data on the Multi-function receiver screen or Component screen.

④ Click [MW], or right-click a cell then click [MW] in the edit menu.
- The operating channel data is called up to the [Memory Channel Editor] screen.

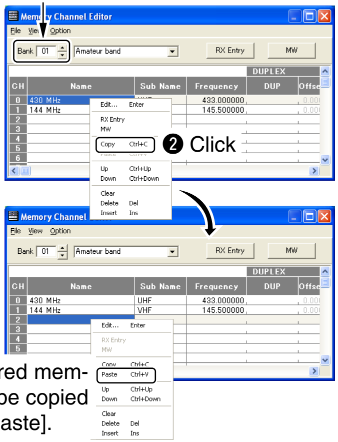
◇ Copying a memory contents

① Click the [Memory Edit] icon on the tool bar to call up the [Memory Channel Editor] screen if it is not displayed.
② Click [▲] or [▼] to select the desired memory bank.
③ Right click any cell of the desired memory channel to be copied, then select [Copy (Ctrl+C)] from the displayed menu.
- After selecting a cell of the desired memory channel, push [C] key while pushing and holding the [Ctrl] key— these key actions are the same as the mouse operation above.

④ Right click any cell of the desired memory channel to be copied to, then select [Paste (Ctrl+V)].
- After selecting a cell of the desired memory channel, push the [V] key while pushing and holding the [Ctrl] key— these key actions are the same as the mouse operation above.



[Memory Edit]


Memory Channel Editor
File View Option
Bank 01
Amateur band
RX Entry
MW
DUPLEX
CH
Name
Sub Name
Frequency
DUP
Offset
Edit... Enter
RX Entry
MW
Copy Ctrl+C
Paste Ctrl+V
Up Ctrl+Up
Down Ctrl+Down
Clear
Delete Del
Insert Ins

CH	Name	Sub Name	Frequency
0	430 MHz	UHF	433.000000
1	144 MHz	VHF	145.500000

❶ Select a memory bank.

❷ Click

❸ Select the desired memory channel to be copied to, then click [Paste].

◇ Memory channel insert/delete

Insert:

New blank channels can be inserted into the channel list. Channels below the cursor are shifted down automatically.

Delete:

Unnecessary channels can be deleted from the list. Channels below the cursor are shifted up automatically.

① Click the [Memory Edit] icon on the tool bar to call up the [Memory Channel Editor] screen if it is not displayed.
② Click [▲] or [▼] to select a memory bank.
③ Right-click a cell on the desired channel that you want to insert/delete, then click [Insert] or [Delete] from the list to insert/delete the channel at the selected position.

◇ Memory channel up/down

Up:

The selected channel contents moves up one step.

Down:

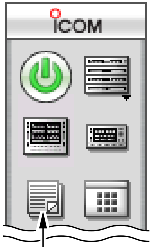
The selected channel contents moves down one step.

① Click the [Memory Edit] icon on the tool bar to call up the [Memory Channel Editor] screen if it is not displayed.
② Click [▲] or [▼] to select a memory bank.
③ Right-click a cell on the desired channel that you want to up/down, then click [Up] or [Down] from the list to move up/down the channel to one step.

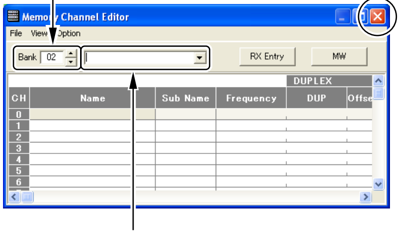
◇ Bank name programming

Each memory bank can be programmed with an alphanumeric bank name for easy recognition and can be indicated independently. Names can be set with a maximum of 64 characters.

① Click the [Memory Edit] icon on the tool bar to call up the [Memory Channel Editor] screen if it is not displayed.
② Click [▲] or [▼] to select a memory bank.
③ Click the bank name dialog box.
  • A cursor starts blinking.
④ Program the desired bank name (up to 64 characters) from the PC keyboard, then push [Enter].
⑤ After programming, click the close button ([**X**]) to close the memory channel list screen.



[Memory Edit]


Memory Channel Editor
File View Option
Bank 02
RX Entry
MW
DUPLEX
CH
Name
Sub Name
Frequency
DUP
Offse
0
1
2
3
4
5
6

❶ Select a memory bank.

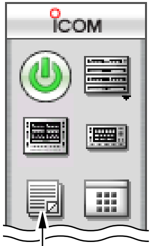
❸ Click

❷ Program a bank name
(up to 64 characters.)

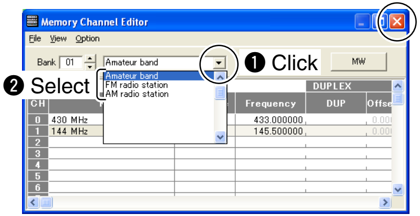
◇ Selecting a bank with the programmed name

Each memory bank can be selected with the programmed name from a bank name dialog box.

① Click the [Memory Edit] icon on the tool bar to call up the [Memory Channel Editor] screen if it is not displayed.
② Click [▼] to display a memory bank name list as below.
③ Click the desired bank name to select the bank.
  • The [Memory Channel Editor] screen contents changes to the selected bank's.
④ After selection, click close button ([X]) to close the memory channel list screen.



[Memory Edit]


Memory Channel Editor
File View Option
Bank 01
Amateur band
MW
Amateur band
FM radio station
AM radio station
DUPLEX
CH
Frequency
DUP
Offse
0 430 MHz 433.000000
1 144 MHz 145.500000
2
3
4
5
6

❸ Click

❶ Click

❷ Select

■ Memory channel clearing

◇ Clearing from the receiver screen

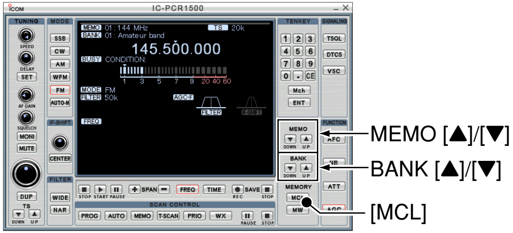
① Click [BANK ▲] or [BANK ▼] to select the memory bank, including the unneeded memory channel.

② Click [MEMO ▲] or [MEMO ▼] to select the unneeded memory channel to be cleared.

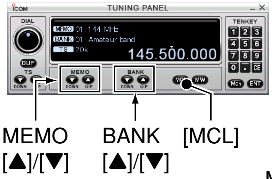
③ Click [MCL] ([M-CL])* for 1 sec. to clear the memory channel contents.

*Available only when Simple screen is displayed.

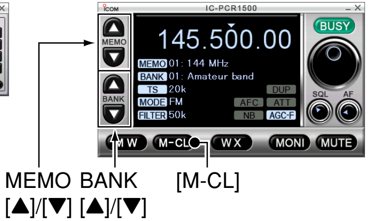
Multi-function receiver screen


MEMO [▲]/[▼]
BANK [▲]/[▼]
[MCL]

Component screen


MEMO [▲]/[▼]
BANK [▲]/[▼]
[MCL]

Simple screen


MEMO [▲]/[▼]
BANK [▲]/[▼]
[M-CL]

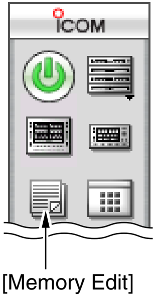
◇ Clearing from the memory list

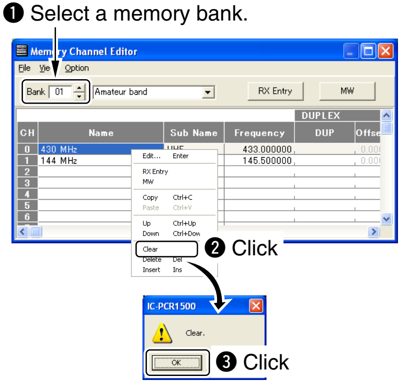
① Click the [Memory Edit] icon on the tool bar to call up the [Memory Channel Editor] screen if it is not displayed.

② Click [▲] or [▼] to select a memory bank.

③ Right click the cell of the unneeded memory channel to be cleared, then click [Clear] from the displayed menu.

④ Click [OK] in the displayed dialog box to clear the selected memory channel contents.


[Memory Edit]


❶ Select a memory bank.
Memory Channel Editor
File
View
Option
Bank 01
Amateur band
RX Entry
MW
Edit... Enter
RX Entry
MW
Copy Ctrl+C
Paste Ctrl+V
Up Ctrl+Up
Down Ctrl+Down
Clear
Delete Del
Insert Ins
❷ Click
IC-PCR1500
OK
❸ Click

CH	Name	Sub Name	Frequency	DUP	Offse
0	430 MHz	UHF	433.000000		0.000
1	144 MHz		145.500000		0.000
2					
3					
4					
5					
6					

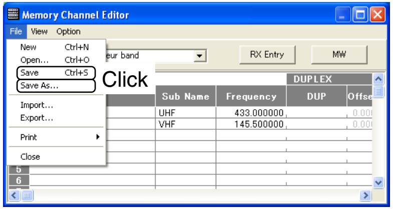
Clear.

■ Saving memory channel data

The memory channels can be stored as a PC file.

Click [Save] or [Save As...] in the [File] menu to back up memory channel data.

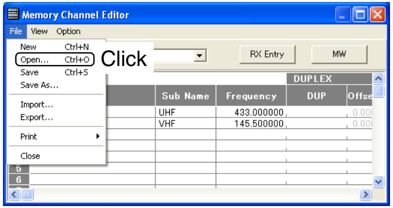
- Save : Saves current project as a PC file. Overwritten if previously saved file of the same name exist.
- Save As... : Saves with a different file name.


Memory Channel Editor
File View Option
New Ctrl+N
Open... Ctrl+O
Save Ctrl+S
Save As...
Import...
Export...
Print
Close
Click
eur band
RX Entry
MW
DUPLEX
Sub Name
Frequency
DUP
Offse
UHF 433.000000 0.00
VHF 145.500000 0.00
5
6

■ Opening memory channel data

The stored memory channel data in the PC can be loaded.

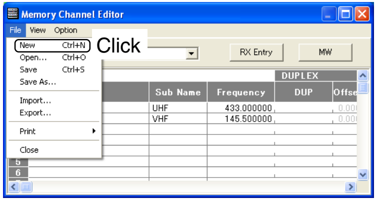
Click [Open...] in the [File] menu, then select the desired memory channel data file that is saved previously.


Memory Channel Editor
File View Option
New Ctrl+N
Open... Ctrl+O
Save Ctrl+S
Save As...
Import...
Export...
Print
Close
Click
RX Entry
MW
DUPLEX
Sub Name
Frequency
DUP
Offse
UHF 433.000000 0.00
VHF 145.500000 0.00
5
6

■ Creating new memory channel data file

The new memory channel data file can be created.

Click [New] in the [File] menu to make a new memory channel data file.

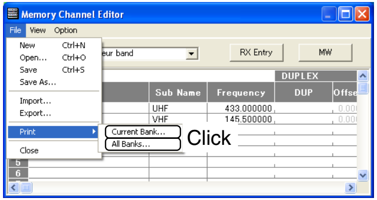

Memory Channel Editor
File View Option
New Ctrl+N
Open... Ctrl+O
Save Ctrl+S
Save As...
Import...
Export...
Print
Close
Click
RX Entry
MW
DUPLEX
Sub Name
Frequency
DUP
Offse
UHF 433.000000 0.00
VHF 145.500000 0.00
5
6

■ Printing a memory channel

A memory channel screen can be printed out.

Click [Print] in the [File] menu to print the displayed memory channel screen.

- Current Bank... : Print a currently displayed bank settings.
- All Banks... : Print all banks settings.

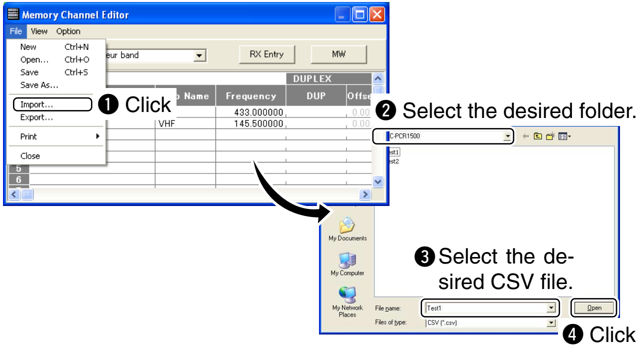

Memory Channel Editor
File View Option
New Ctrl+N
Open... Ctrl+O
Save Ctrl+S
Save As...
Import...
Export...
Print
Current Bank...
All Banks...
Click
Close
eur band
RX Entry
MW
DUPLEX
Sub Name
Frequency
DUP
Offse
UHF 433.000000 0.00
VHF 145.500000 0.00
5
6

■ Importing a CSV file

The CSV (Comma Separated Values) format file (which is saved in CSV format) can be imported and overwrite to the selected bank contents.

NOTE: Save the current contents as a PC file (p. 66) before importing a CSV file. Once the imported CSV file is overwritten, previously set contents are no longer available.

①Click [Import...] in the [File] menu.
②Select the desired drive that the CSV file is saved in, then click [Open].
③Select the desired folder in which the CSV file is saved, then click [Open].
④Select the desired CSV file that you want to import, then click [Open].
- The selected CSV file is imported.


Memory Channel Editor
File View Option
New Ctrl+N
Open... Ctrl+O
Save Ctrl+S
Save As...
Import...
Export...
Print
Close
eur band
RX Entry
MW
DUPLEX
Name Frequency DUP Offse
433.000000 0.00
VHF 145.500000 0.00
C-PCR1500
My Documents
My Computer
My Network Places
File name: Test1
Files of type: CSV (*.csv)
Open

❶ Click

❷ Select the desired folder.

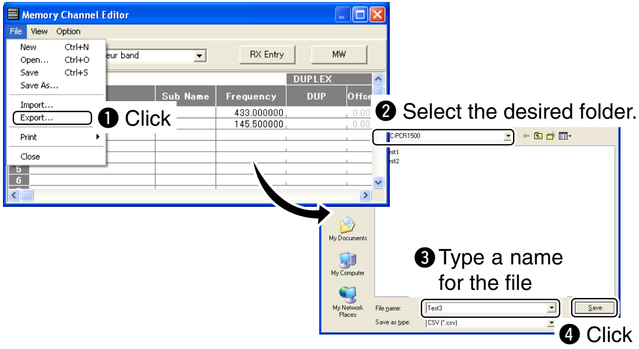
❸ Select the desired CSV file.

❹ Click

■ Exporting a CSV file

The selected bank contents are exportable in CSV (Comma Separated Values) file format.

①Click [Export...] in the [File] menu.
②Select the desired drive to which the CSV file is saved, then click [Open].
③Select the desired folder in which the CSV file is saved, then click [Open].
④Type a name for the file in the [File name] box, then push [Save] to save the selected bank contents in CSV format.


Memory Channel Editor
File View Option
New Ctrl+N
Open... Ctrl+O
Save Ctrl+S
Save As...
Import...
Export...
Print
Close
eur band
RX Entry
MW
DUPLEX
Sub Name Frequency DUP Offse
433.000000 0.00
145.500000 0.00
C-PCR1500
My Documents
My Computer
My Network Places
File name: Test3
Save as type: CSV (*.csv)
Save

❶ Click

❷ Select the desired folder.

❸ Type a name for the file

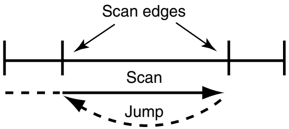
❹ Click

8 SCAN OPERATION (Multi-function receiver/Component screens only)

■ Scan types

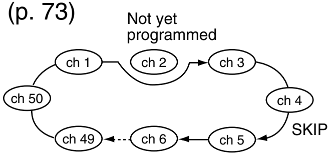
Up to 50 programmed scan ranges, memory scan, memory select scan, memory skip scan, mode select memory scan and auto memory write scan provide scanning versatility.

PROGRAMMED SCAN (p. 69)


Scan edges
Scan
Jump

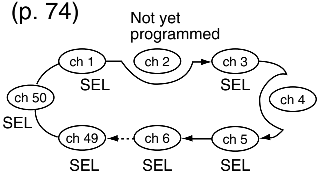
Repeatedly scans between two user-programmed frequencies. Used for checking for frequencies within a specified range such as repeater output frequencies, etc.

MEMORY SCAN (p. 73)


Not yet programmed
ch 1
ch 2
ch 3
ch 4
SKIP
ch 5
ch 6
ch 49
ch 50

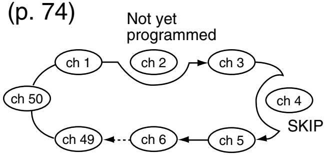
Repeatedly scans memory channels within a memory bank (0–25).

SELECT MEMORY SCAN (p. 74)


Not yet programmed
ch 1
SEL
ch 2
ch 3
SEL
ch 4
ch 50
SEL
ch 49
SEL
ch 6
SEL
ch 5
SEL

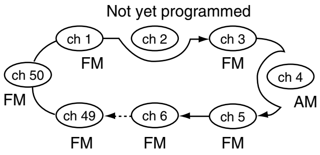
Repeatedly scans only select memory channels within a memory bank. This function can be turned ON/OFF in the [Memory Scan] screen. Select channels can be set in the memory list screen.

MEMORY SKIP SCAN (p. 74)


Not yet programmed
ch 1
ch 2
ch 3
ch 4
SKIP
ch 5
ch 6
ch 49
ch 50

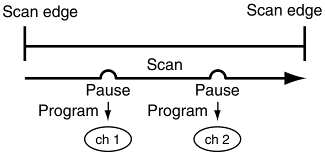
Skips unwanted memory channels that inconveniently stop scanning. This function can be turned ON/OFF in the [Memory Scan] screen. Skip channels can be set in the memory list screen.

MODE SELECT MEMORY SCAN (p. 74)


Not yet programmed
ch 1
FM
ch 2
ch 3
FM
ch 4
AM
ch 50
FM
ch 49
FM
ch 6
FM
ch 5
FM

Repeatedly scans only selected mode channels within a memory bank. This function can be set in the [Memory Scan] screen.

AUTO MEMORY WRITE SCAN (p. 71)


Scan edge
Scan edge
Scan
Pause
Pause
Program
Program
ch 1
ch 2

The frequencies that the programmed scan stops on are automatically programmed into a selected memory bank.

■ Programmed scan

Programmed scan automatically searches for signals within a specified frequency range.

▨ For programmed scan, scan edges must be programmed in advance.

◇ Programming scan edge channels

Set the scan edge channel name, frequency range and ATT in advance. Up to 50 settings can be programmed.

① Right-click the [PROG] button to call up the [Program Scan] setting screen if it is not displayed.
② Click the [Program Scan] tab to show the program list.
③ Input the start frequency into the [Freq Low] cell from the keyboard, then push [Enter].
  - Set other data (e.g. name, end frequency into [Freq High] or attenuator) if desired.

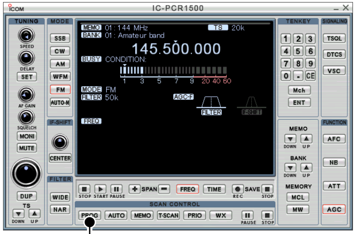
  ▨ Program the start frequency first, otherwise no setting can be done except for the name.
④ Enter the desired scan edge channel number, then click the close ([**X**]) button to close the setting screen.

◇ Edit menu details

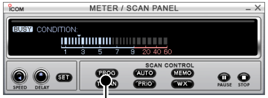
Editing the memory list with the edit menu is the same as the memory channels. See the following pages for details.

- Copying a memory contents (p. 63)
- Memory channel insert/delete (p. 63)
- Memory channel up/down (p. 63)
- Clearing from the memory list (p. 65)

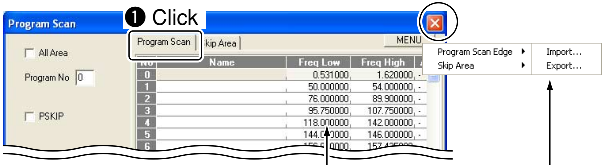
Multi-function receiver screen


IC-PCR1500
145.500.000
[PROG]

Component screen


METER / SCAN PANEL
[PROG]

[Program Scan] setting screen


❸ Click
❶ Click
Program Scan
Program Scan
kip Area
MENU
Program Scan Edge
Skip Area
Import...
Export...

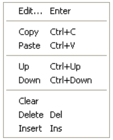
☐ All Area

Program No 0

☐ PSKIP

No	Name	Freq Low	Freq High
0		0.531000	1.620000
1		50.000000	54.000000
2		76.000000	89.900000
3		95.750000	107.750000
4		118.000000	142.000000
5		144.000000	146.000000

❷ Input the start frequency first, then set other data.


Edit... Enter
Copy Ctrl+C
Paste Ctrl+V
Up Ctrl+Up
Down Ctrl+Down
Clear
Delete Del
Insert Ins

Edit menu

Click [MENU], and point to [Program Scan Edge]. Then, select the desired item from the list.

Import : Import the CSV file.

Export : Export the CSV file.

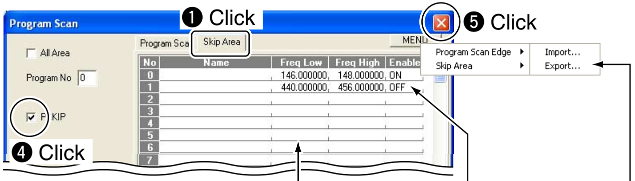
◇ Skip area setting

The skip area setting is available for skipping unwanted frequencies that inconveniently stop scanning.

①Right-click the [PROG] button to call up the [Program Scan] setting screen if it is not displayed.
②Click the [Skip Area] tab to show the skip area list.
③Input the skip start frequency into the [Freq Low] cell from the keyboard, then push [Enter].
- Set other data (e.g. name or skip end frequency into [Freq High]) if desired.

▨ Program the start frequency first, otherwise no setting can be done except for the name.

④Select “ON” in [Enable] to enables the set skip area.
⑤Click [PSKIP] to turn the skip area function ON, then click the close ([**X**]) button to close the setting screen.



☐ All Area
Program No 0
☑ PSKIP

No	Name	Freq Low	Freq High	Enable
0		146.000000	148.000000	ON
1		440.000000	456.000000	OFF
2				
3				
4				
5				
6				
7				

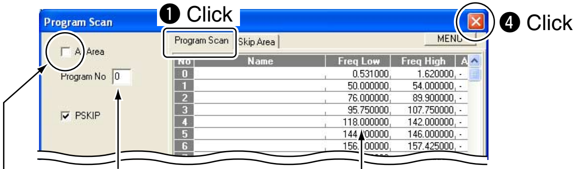
❷ Input the start frequency first, then set other data.

❸ Select ON to enables the set skip area.

Click [MENU], and point to [Skip Area]. Then, select the desired item from the list.
Import : Import the CSV file.
Export : Export the CSV file.

◇ Starting a programmed scan

①Make sure the squelch is set to the threshold point (closed condition).
②Right-click the [PROG] button to call up the [Program Scan] setting screen if it is not displayed.
③Click the [Program Scan] tab to show the program list.
④Enter the programmed scan range number to be scanned in [Program No], then click the close ([**X**]) button to close the setting screen.



☐ All Area
Program No 0
☑ PSKIP

No	Name	Freq Low	Freq High	A
0		0.531000	1.620000	-
1		50.000000	54.000000	-
2		76.000000	89.900000	-
3		95.750000	107.750000	-
4		118.000000	142.000000	-
5		144.[illegible]00000	146.000000	-
6		156.[illegible]00000	157.425000	-

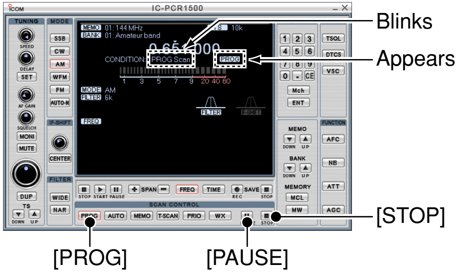
❸ Enter the programmed scan range number to be scanned.
Or, check the [All Area] check box for scanning all frequencies over the entire band.

❷ Input the start frequency first, then set other data.

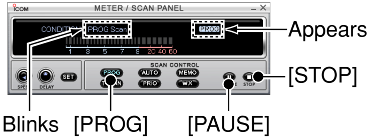
⑤Click the [PROG] button to start programmed scan.
- “PROG Scan” blinks and [PROG] appears while scanning.

⑥To stop the scan, click [STOP] or [PROG].
- When the frequency is changed after cancelling a scan and a new scan is activated, scanning starts from the starting frequency of the specified frequency range. When the frequency is not changed, scan starts from the previously stopped frequency.

Multi-function receiver screen


IC-PCR1500
Blinks
Appears
[STOP]
[PROG]
[PAUSE]

Component screen


METER / SCAN PANEL
Appears
[STOP]
Blinks
[PROG]
[PAUSE]

■ Auto memory write scan

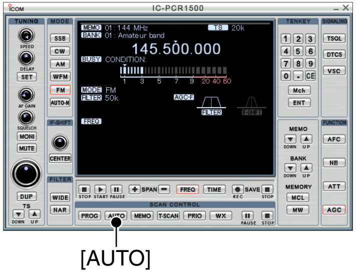
The auto memory write scan does the same as the programmed scan and then writes paused signal frequencies into memory channels of a specified memory bank. Scan edges must be programmed in advance. (p. 69)

◇ Starting an auto memory write scan

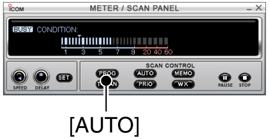
①Make sure the squelch is set to the threshold point (closed condition).

②Right-click [AUTO] to call up the [Auto MW Scan] setting screen if it is not displayed.

Multi-function receiver screen

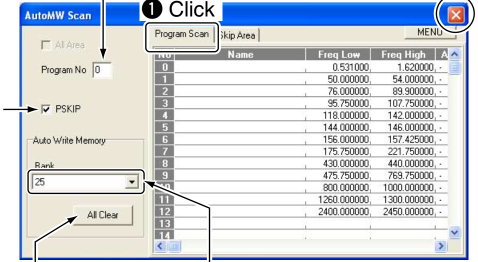

IC-PCR1500
[AUTO]

Component screen


METER / SCAN PANEL
[AUTO]

③Enter the programmed scan range number to be scanned in [Program No].

④Select a memory bank to be written, then click the close ([**X**]) button to close the setting screen.
- To clear the selected memory bank contents, click [All Clear].


AutoMW Scan
Program Scan
Skip Area
MENU
All Area
Auto Write Memory
All Clear

Program No 0

☑ PSKIP

Bank 25

No	Name	Freq Low	Freq High	A
0		0.531000	1.620000	-
1		50.000000	54.000000	-
2		76.000000	89.900000	-
3		95.750000	107.750000	-
4		118.000000	142.000000	-
5		144.000000	146.000000	-
6		156.000000	157.425000	-
7		175.750000	221.750000	-
8		430.000000	440.000000	-
9		475.750000	769.750000	-
10		800.000000	1000.000000	-
11		1260.000000	1300.000000	-
12		2400.000000	2450.000000	-
13				
14				

❶ Click

❷ Enter the programmed scan range number to be scanned.

❸ Click

Click to turn the skip area function ON.

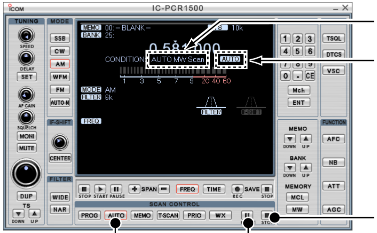
Click to clear the selected memory bank contents.

❸ Select a memory bank to be written.

⑤Click [AUTO] to start auto memory write scan.
- “AUTO Scan” blinks and [AUTO] appears while scanning.

⑥To stop the scan, click [STOP] or [AUTO].

Multi-function receiver screen


IC-PCR1500
CONDITION
AUTO MW Scan
AUTO

Blinks

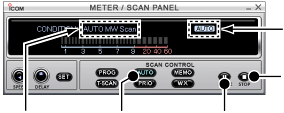
Appears

[STOP]

[AUTO]

[PAUSE]

Component screen


METER / SCAN PANEL
AUTO MW Scan
AUTO
SCAN CONTROL

Appears

[STOP]

Blinks

[AUTO]

[PAUSE]

■ Memory/bank scan

This function searches all memory channels in a selected memory bank.

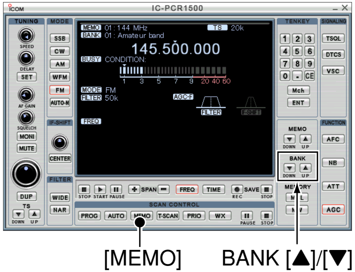
◇ Starting a memory/bank scan

① Make sure the squelch is set to the threshold point (closed condition).

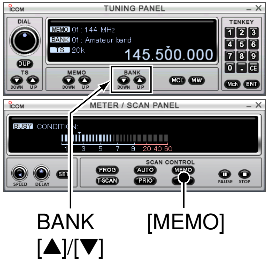
② Click [BANK ▲] or [BANK ▼] to select the desired memory bank.

③ Right-click the [MEMO] button to call up the Memory Scan setting screen if it is not displayed.

Multi-function receiver screen



Component screen



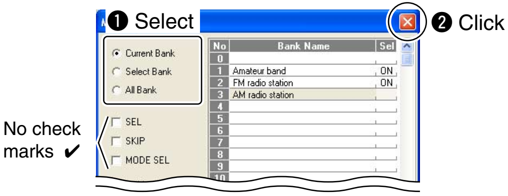
④ Select the bank scan condition from 'Current Bank', 'Select Bank' or 'All Bank.'

(a) 'Current Bank'
Scans memory channels within the current bank.

(b) 'Select Bank'
Scans memory channels within the selected bank ("Sel" setting is turned ON).

(c) 'All Bank'
Scans memory channels within all banks.

⑤ Make sure the check boxes are not checked (✔), then click the close (**[X]**) button to close the setting screen.



● Current Bank
○ Select Bank
○ All Bank

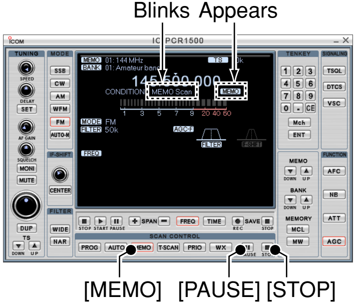
☐ SEL
☐ SKIP
☐ MODE SEL

No	Bank Name	Sel
0		
1	Amateur band	ON
2	FM radio station	ON
3	AM radio station	
4		
5		
6		
7		
8		
9		
10		

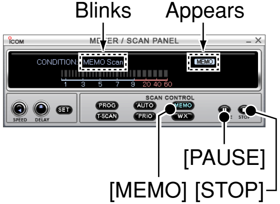
⑥ Click the [MEMO] button to start memory scan.
- "MEMO Scan" blinks and [MEMO] appears while scanning.

⑦ To stop the scan, click [STOP] or [MEMO].

Multi-function receiver screen



Component screen



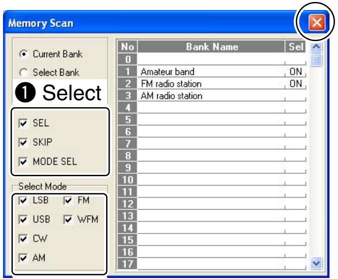
■ Versatile memory scan

You can set the memory scan conditions using the [Memory Scan] setting screen.

①Right-click the [MEMO] button to call up the Memory Scan setting screen if it is not displayed.

②Check the desired check boxes, then click the close ([**X**]) button to close the setting screen.

- When selecting the [SEL] box (select memory scan), repeatedly scans memory channels these "SEL" settings are turned ON in memory channel list screen.
- When selecting the [SKIP] box (memory skip scan), repeatedly scans memory channels except "SKIP" setting is turned ON in memory channel list screen.
- When selecting the [MODE SEL] box (mode select memory scan), repeatedly scans all memory channels with the selected operating mode (in [Select Mode] as below).



Memory Scan

● Current Bank
○ Select Bank

❶ Select

☑ SEL
☑ SKIP
☑ MODE SEL

Select Mode
☑ LSB ☑ FM
☑ USB ☑ WFM
☑ CW
☑ AM

No	Bank Name	Sel
0		
1	Amateur band	ON
2	FM radio station	ON
3	AM radio station	
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		

❷ Select

❸ Click

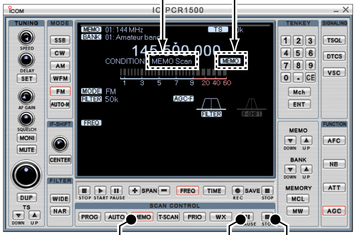
③Click the [MEMO] button to start the desired memory scan.

- "MEMO Scan" blinks and [MEMO] appears while scanning.

④To stop the scan, click [STOP] or [MEMO].

Multi-function receiver screen

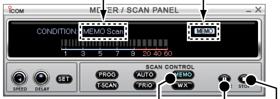
Blinks Appears


IC-PCR1500
CONDITION
MEMO Scan
MEMO
145.500.000
SCAN CONTROL
PROG
AUTO
T-SCAN
PRIO
WX

[MEMO] [PAUSE] [STOP]

Component screen

Blinks Appears


METER / SCAN PANEL
CONDITION
MEMO Scan
MEMO
SCAN CONTROL
PROG
AUTO
T-SCAN
PRIO
WX
SPEED
DELAY
SET

[PAUSE]

[MEMO] [STOP]

- All settings can be used simultaneously.
- SEL, SKIP and receive mode can be set in the memory list screen.
- At least 2 memory channels must be programmed with the desired condition for scan to proceed.

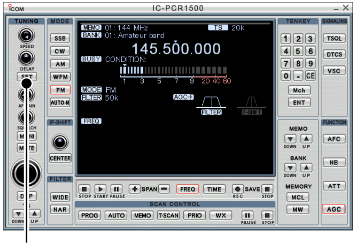
■ Scan resume condition

When receiving a signal, scanning automatically pauses on that signal. The scan resume condition sets the time that the scan pauses before resuming or whether scan stops instead of pausing.

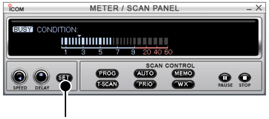
①Click the [SET] button to call up the [Scan Delay] screen if it is not displayed.

②Select the scan delay condition from 'Pause until Signal Disappears,' 'Delay Volume' or 'Scan Stop.'

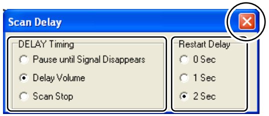
Multi-function receiver screen



Component screen



[Scan Delay] setting screen



DELAY Timing
- ○ Pause until Signal Disappears
- ● Delay Volume
- ○ Scan Stop

Restart Delay
- ○ 0 Sec
- ○ 1 Sec
- ● 2 Sec

(a) 'Pause until Signal Disappears'
Scan pauses when receiving a signal and remains paused until the signal disappears.

(b) 'Delay Volume'
When setting a delay time using the [DELAY] control (on Multi-function receiver screen or Component screen), scan pauses when receiving a signal and then resumes after the specified delay.

(c) 'Scan Stop'
When a signal is received during scan, scan stops and does not resume.

③Select a restart delay time in [Restart Delay]. This setting is valid when (a) or (b) is selected in step ②.

- **0 Sec. :** Scan resumes immediately after the signal disappears.
- **1 Sec. :** Scan resumes 1 sec. after the signal disappears.
- **2 Sec. :** Scan resumes 2 sec. after the signal disappears.

④Click the close ([**X**]) button to close the setting screen.

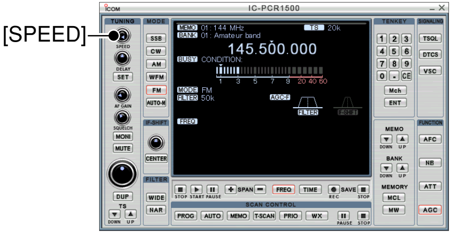
■ Scan speed setting

The searching speed of frequencies or memory channels is variable.

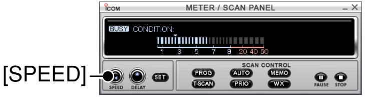
Click the [SPEED] control to set the speed at which scans search through frequencies/memories for signals.

- Right-click to increase the speed level.
- Left-click to decrease the speed level.
- When clicking and holding [SPEED], the scan speed scrolls up or down.

Multi-function receiver screen


[SPEED]
IC-PCR1500
TUNING
SPEED
DELAY
SET
AF GAIN
SQUELCH
MONI
MUTE
DUP
TS
DOWN
UP
MODE
SSB
CW
AM
WFM
FM
AUTO-M
IF-SHIFT
CENTER
FILTER
WIDE
NAR
MEMO 01 : 144 MHz
BANK 01 : Amateur band
TS 20k
145.500.000
BUSY CONDITION:
1 3 5 7 9 20 40 60
MODE FM
FILTER 50k
AGC-F
FILTER
F-SHIFT
FREQ
STOP START PAUSE
SPAN
FREQ
TIME
SAVE
REC
STOP
SCAN CONTROL
PROG
AUTO
MEMO
T-SCAN
PRIO
WX
PAUSE
STOP
TENKEY
1 2 3
4 5 6
7 8 9
0 . CE
Mch
ENT
MEMO
BANK
MEMORY
MCL
MW
SIGNALING
TSQL
DTCS
VSC
FUNCTION
AFC
NB
ATT
AGC

Component screen


[SPEED]
METER / SCAN PANEL
BUSY CONDITION:
1 3 5 7 9 20 40 60
SPEED
DELAY
SET
SCAN CONTROL
PROG
AUTO
MEMO
T-SCAN
PRIO
WX
PAUSE
STOP

PRIORITY SCAN (Multi-function receiver/Component screens only)

■ Priority scan type

The priority scan checks for signals on the frequency every 5 sec. while operating on a scanning memory channel or scanning.

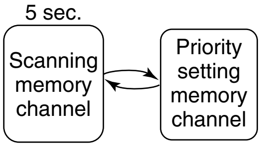
The scan resumes according to the selected scan resume condition. See p. 75 for details.

NOTE: If the pocket beep function is activated, the receiver automatically selects the tone squelch function when priority scan starts.

MEMORY CHANNEL SCAN

While operating on a frequency, priority scan checks for a signal on the selected memory channel every 2 to 60 sec.

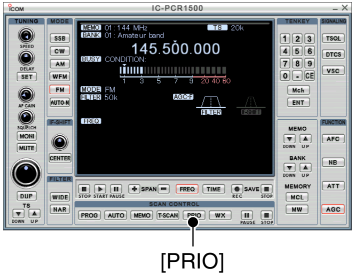
- A memory channel with skip information can be scanned.


5 sec.
Scanning memory channel
Priority setting memory channel

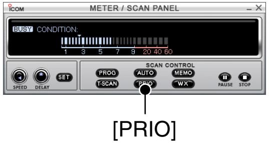
■ Priority scan operation

①Set the receive frequency. (pgs. 44, 45)
②Right-click the [PRIO] button to call up the [Priority Scan] setting screen if it is not displayed.
③Set the scanning channel and bank in [Scan Channel].
④Set the scanning interval from 2 to 60 sec in [Priority Interval], then click the close ([**X**]) button to close the setting screen.
- Click [CHECK] to start priority scan.

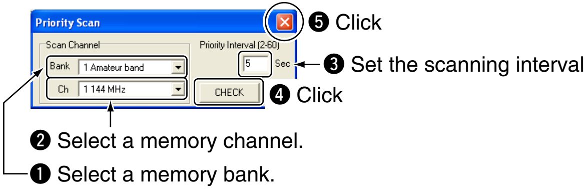
Multi-function receiver screen


IC-PCR1500
TUNING
MODE
SSB
CW
AM
WFM
FM
AUTO-M
MEMO 01 : 144 MHz
BANK 01 : Amateur band
TS 20k
145.500.000
BUSY CONDITION:
MODE FM
FILTER 50k
FREQ
TENKEY
SIGNALING
TSQL
DTCS
VSC
Mch
ENT
MEMO
BANK
MEMORY
MCL
MW
FUNCTION
AFC
NB
ATT
AGC
IF-SHIFT
CENTER
FILTER
WIDE
NAR
SET
MONI
MUTE
DUP
TS
SCAN CONTROL
PROG
AUTO
MEMO
T-SCAN
PRIO
WX
[PRIO]

Component screen


METER / SCAN PANEL
BUSY CONDITION:
SPEED
DELAY
SET
SCAN CONTROL
PROG
AUTO
MEMO
T-SCAN
PRIO
WX
PAUSE
STOP
[PRIO]

[Priority Scan] setting screen


Priority Scan

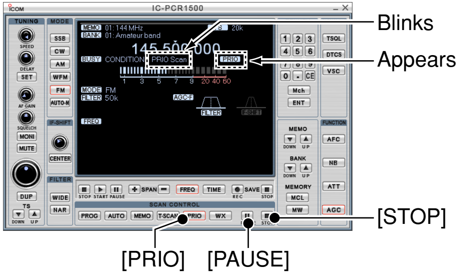
Scan Channel
Bank 1 Amateur band
Ch 1 144 MHz
Priority Interval (2-60) 5 Sec
CHECK

❺ Click
❸ Set the scanning interval
❹ Click
❷ Select a memory channel.
❶ Select a memory bank.

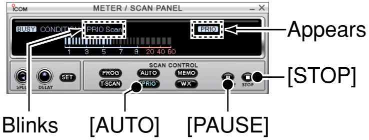
⑤ Click [PRIO] button to start priority scan.
- “PRIO Scan” blinks and [PRIO] appears while scanning.
- The receiver checks the memory channel according to the setting interval.
- The scan resumes according to the selected scan resume condition. (p. 75)
- While the scan is pausing, pushing the pause button ([❚❚]) resumes the scan manually.

⑥ To stop the scan, click [STOP] or [PRIO].
- Click [OFF] to stop the scan when [CHECK] is clicked to start priority scan in step ④.

Multi-function receiver screen


IC-PCR1500
MEMO 01: 144 MHz
BANK 01: Amateur band
145.500.000
BUSY CONDITION PRIO Scan PRIO
MODE FM
FILTER 50k
SCAN CONTROL
PROG AUTO MEMO T-SCAN PRIO WX
Blinks
Appears
[STOP]
[PRIO]
[PAUSE]

Component screen


METER / SCAN PANEL
BUSY CONDITION PRIO Scan PRIO
SCAN CONTROL
PROG AUTO MEMO T-SCAN PRIO WX
Appears
[STOP]
Blinks
[AUTO]
[PAUSE]

■ Tone/DTCS operation

The tone or DTCS opens only when receiving a signal with the same pre-programmed subaudible tone or DTCS code, respectively in FM mode. You can silently wait for the specified signal using the same tone.

◇ Tone squelch frequency setting

①Click [FM] to select FM mode.

②Click [TSQL] to turn the tone squelch ON.
- "TSQL" appears in the function display.

③Right-click [TSQL] to display the [TSQL] setting screen.

④Click [▼] to select the desired tone squelch frequency.
- 51 tone frequencies from 67.0 to 254.1 Hz are available.

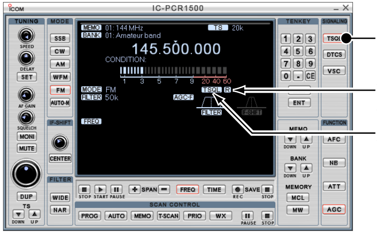
⑤Check the [Reverse Action] check box to mute the received audio signal when the received signal's tone is matched.
- [R] appears in the function display.

⑥Click the close button ([**X**]) to close the [TSQL] setting screen.

⑦When the received signal includes a matched tone, squelch opens and the signal can be heard.
- When the [Reverse Action] check box is checked in step ⑤, the received audio signal is muted.
- When the received signal's tone is not matched, tone squelch does not open, however, the S-indicator shows signal strength.

⑧Click [TSQL] again to cancel the tone squelch.
- "TSQL" disappears.

Multi-function receiver screen

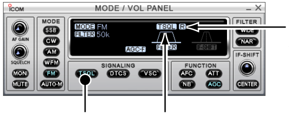


[TSQL]

Appears when [Reverse Action] is turned ON.

Appears

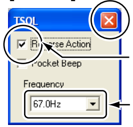
Component screen



Appears when [Reverse Action] is turned ON.

[TSQL] Appears

[TSQL] setting screen



❸ Click

❷ Check the check box to turn [Reverse Action] ON.

❶ Select the desired tone squelch frequency.

• Available tone squelch frequencies list **(Hz)**

67.0	79.7	97.4	118.8	146.2	167.9	186.2	206.5	241.8
69.3	82.5	100.0	123.0	151.4	171.3	189.9	210.7	250.3
71.0	85.4	103.5	127.3	156.7	173.8	192.8	218.1	254.1
71.9	88.5	107.2	131.8	159.8	177.3	196.6	225.7	
74.4	91.5	110.9	136.5	162.2	179.9	199.5	229.1	
77.0	94.8	114.8	141.3	165.5	183.5	203.5	233.6	

◇ DTCS code setting

①Click [FM] to select FM mode.

②Click [DTCS] to turn the DTCS squelch ON.
- “DTCS” appears in the function display.

③Right-click [DTCS] to display the [DTCS] setting screen.

④Click [▼] to select the desired DTCS code.
- 104 DTCS code from 023 to 754 are available.

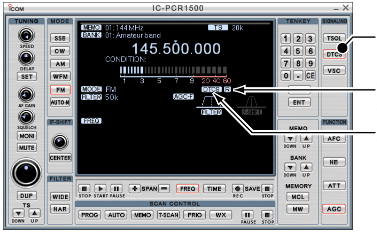
⑤Check the [Reverse Action] check box to mute the received audio signal when the received signal’s tone is matched.
- [R] appears in the function display.

⑥Click the close button ([X]) to close the [DTCS] setting screen.

⑦When the received signal includes a matched code, squelch opens and the signal can be heard.
- When the [Reverse Action] check box is checked in step ⑤, the received audio signal is muted.
- When the received signal’s code does not match, tone squelch does not open, however, the S-indicator shows signal strength.

⑧Click [DTCS] again to cancel the DTCS squelch.
- “DTCS” disappears.

Multi-function receiver screen

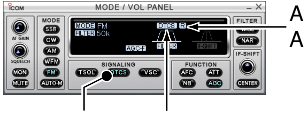


[DTCS]

Appears when [Reverse Action] is turned ON.

Appears

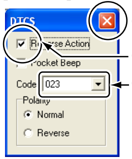
Component screen



Appears when [Reverse Action] is turned ON.

[DTCS] Appears

[DTCS] setting screen



☑ Reverse Action
☐ Pocket Beep
Code 023
Polarity
● Normal
○ Reverse

❸ Click

❷ Check the check box to turn [Reverse Action] ON.

❶ Select the desired DTCS code.

• Available DTCS code list

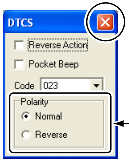
023	054	125	165	245	274	356	445	506	627	732
025	065	131	172	246	306	364	446	516	631	734
026	071	132	174	251	311	365	452	523	632	743
031	072	134	205	252	315	371	454	526	654	754
032	073	143	212	255	325	411	455	532	662	
036	074	145	223	261	331	412	462	546	664	
043	114	152	225	263	332	413	464	565	703	
047	115	155	226	265	343	423	465	606	712	
051	116	156	243	266	346	431	466	612	723	
053	122	162	244	271	351	432	503	624	731	

■ DTCS polarity setting

As well as a code setting, the polarity setting is also available for the DTCS operation. When a different polarity is set, the DTCS never releases audio mute even when a signal with a matching code number is received.

①Click [FM] to select FM mode.
②Click [DTCS] to turn the DTCS squelch ON.
- “DTCS” appears in the function display.

③Right-click [DTCS] to display the [DTCS] setting screen.
④Select the DTCS polarity from “Normal” and “Reverse” in [Polarity].
⑤Click the close button ([**X**]) to close the [DTCS] setting screen.


DTCS
☐ Reverse Action
☐ Pocket Beep
Code 023
Polarity
● Normal
○ Reverse

❷ Click

❶ Select the DTCS polarity.

■ Pocket beep operation

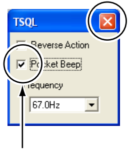
This function uses subaudible tones for calling and can be used as a “common pager” to inform you that someone has called while you were away from the receiver.
Pocket beep emission type can be set in the [Audio Setting] screen. (p. 89)

①Click [FM] to select FM mode.
②Click [TSQL]/[DTCS] to turn the tone/DTCS squelch ON.
- “TSQL”/“DTCS” appears in the function display.

③Right-click [TSQL]/[DTCS] to display the [TSQL]/[DTCS] setting screen.
④Check the [Pocket Beep] check box to turn the pocket beep function ON.
- “((•))” appears in the function display.

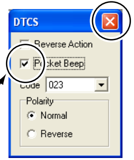
⑤Click the close button ([**X**]) to close the [TSQL]/[DTCS] setting screen.

[TSQL] setting screen


TSQL
☐ Reverse Action
☑ Pocket Beep
Frequency
67.0Hz

❷ Click

[DTCS] setting screen


DTCS
☐ Reverse Action
☑ Pocket Beep
Code 023
Polarity
● Normal
○ Reverse

❷ Click

❶ Check the check box to turn [Pocket Beep] ON.

■ Tone scan operation

By monitoring a signal that is being operated with pocket beep, tone or DTCS squelch function, you can determine the tone frequency or DTCS code necessary to open a squelch.

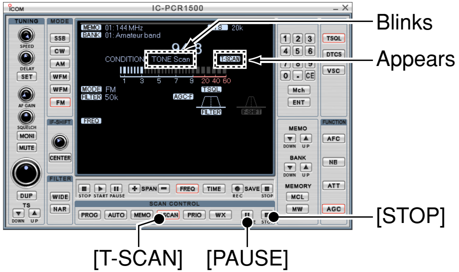
①Click [FM] to select FM mode.
②Select the tone type, tone squelch, or DTCS to be scanned, then set the desired tone squelch frequency or DTCS code. (pgs. 79, 80)
③Click [T-SCAN] to start the tone scan.
- "AUTO Scan" blinks and [AUTO] appears while scanning.

④When the TSQL tone frequency or 3-digit DTCS code is matched, the squelch opens and the tone frequency is temporarily programmed into the selected memory channel.
- The tone scan pauses when a TSQL tone frequency or 3-digit DTCS code is detected.
- The decoded TSQL tone frequency or 3-digit DTCS code is used for the tone encoder or tone encoder/decoder depending on the selected tone condition or type in step ②.

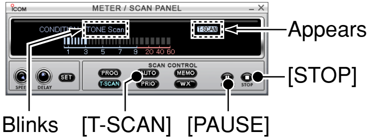
⑤To stop the scan, click [STOP] or [T-SCAN].

☞ **NOTE:** The decoded tone frequency is programmed temporarily when a memory or call channel is selected. However, this will be cleared when the memory/call channel is re-selected.

Multi-function receiver screen



Component screen



■ Operation

The band scope function has 2 modes, Frequency and Time modes.
When Frequency mode is selected, the band scope function sweeps in the specified span from the displayed frequency and allows you to visually check the received signal strength on the function display.
When Time mode is selected, the band scope function displays the received signal strength in the specified time period on the function display while sweeping.

▨ When SSB or CW mode is selected, receive audio is muted while monitoring the band scope.

◇ Using Frequency mode

①Click [FREQ] to select Frequency mode.
- Time mode is selected when [TIME] is clicked.

②Click the sweep start button ([▶]) to begin a sweep; signal conditions appear starting from the center of the range.
- Conditions over the entire set frequency span can be observed around the center frequency of the currently received frequency.
- When a strong signal is received, the waveform is indicated small.

③Click [SPAN +] or [SPAN –] to select the sweep width through SPAN1 (±25.0 kHz) to SPAN5 (±500 kHz)*.
- Choose SPAN1 when band conditions are crowded (many signals are present); choose SPAN5* when few signals are present.

*When the wide band scope function is selected, sweep width expands to SPAN8 (±5 MHz). (p. 87)

④Click [TS ▲] or [TS ▼] to select the sweep tuning step.
- “LIMIT” appears when a selected sweep tuning step is outside the automatic sweep step setting. (p. 86)

⑤Click the waveform to select the frequency of the signal.
- Click [❚❚] to pause a sweep and monitor the frequency. Repeat to resume the sweep. ([PAUSE] is displayed.)
- While pausing the band scope, you can also select the displayed signal frequency by clicking the waveform.
  In this case, the selected frequency does not move, and the previously received frequency is kept to center. So you can select the previously received frequency simply by clicking a center.

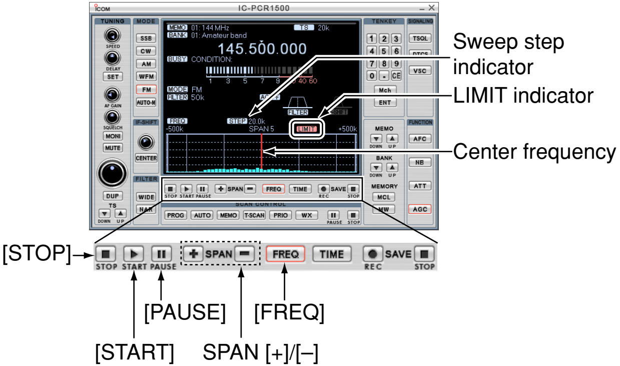
⑥Click the sweep stop button ([■]) to stop a sweep.

▨ According to the setting combination of the sweep width and sweep tuning step, some signals may not be displayed on the function display during sweeping.

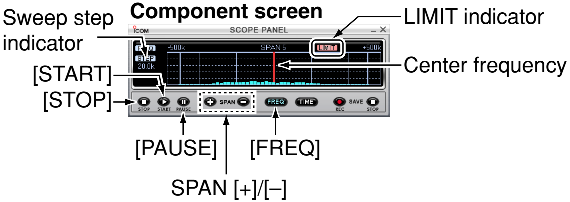
◇ About the limit indicator

When a selected sweep tuning step is outside the automatic sweep step setting (p. 86), “LIMIT” appears in the band scope display during the band scope operation.

Multi-function receiver screen


Sweep step indicator
LIMIT indicator
Center frequency
[STOP]
[PAUSE]
[FREQ]
[START]
SPAN [+]/[–]

Component screen


Sweep step indicator
LIMIT indicator
[START]
[STOP]
Center frequency
[PAUSE]
[FREQ]
SPAN [+]/[–]

◇ Using Time mode

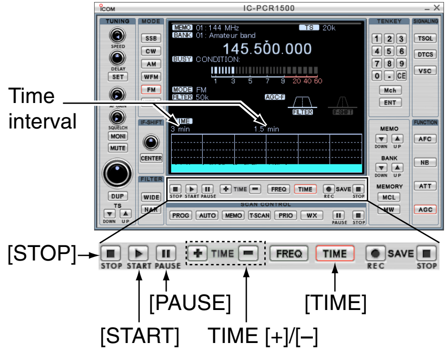
①Click [TIME] to select Time mode.
- Frequency mode is selected when [FREQ] is clicked.

②Click the sweep start button ([▶]) to begin a sweep; the received signal strength is displayed.

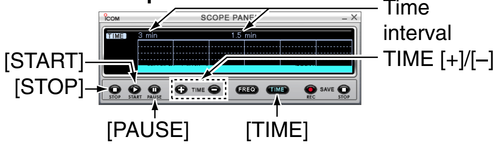
③Click [TIME +] or [TIME –] to select the time scale for indication through 100 min, 30 min, 10 min and 3 min.

④Click the sweep stop button ([■]) to stop a sweep.

Multi-function receiver screen


Time interval
[STOP]
[PAUSE]
[TIME]
[START]
TIME [+]/[–]

Component screen

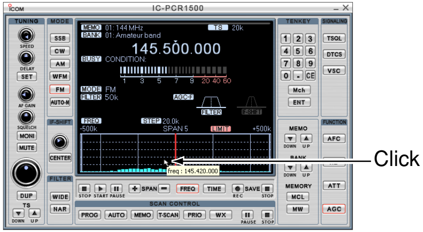

Time interval
TIME [+]/[–]
[START]
[STOP]
[PAUSE]
[TIME]

■ Pick up signal function

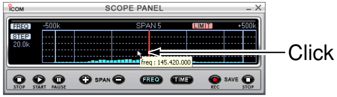
The pick up signal function provides quick frequency setting during the band scope operation. By clicking the desired waveform, the clicked point frequency is set to the receive frequency.

While pausing the band scope, you can also select the displayed signal frequency by clicking the waveform.
In this case, the selected frequency does not move, and the previously received frequency is kept to center. So you can select the previously received frequency simply by clicking a center.

Multi-function receiver screen


IC-PCR1500
TUNING
MODE
SSB
CW
AM
WFM
FM
AUTO-M
MEMO 01: 144 MHz
BANK 01: Amateur band
TS 20k
145.500.000
BUSY CONDITION:
MODE FM
FILTER 50k
AGC-F
FREQ
STEP 20.0k
-500k
SPAN 5
LIMIT
+500k
freq : 145.420.000
TENKEY
SIGNALING
TSQL
DTCS
VSC
MEMO
FUNCTION
AFC
ATT
AGC
CENTER
FILTER
WIDE
NAR
DUP
SCAN CONTROL
PROG
AUTO
MEMO
T-SCAN
PRIO
WX
Click

Component screen


SCOPE PANEL
FREQ
STEP
20.0k
-500k
SPAN 5
LIMIT
+500k
freq : 145.420.000
STOP
START
PAUSE
SPAN
FREQ
TIME
SAVE
REC
STOP
Click

■ Saving the sweeping data

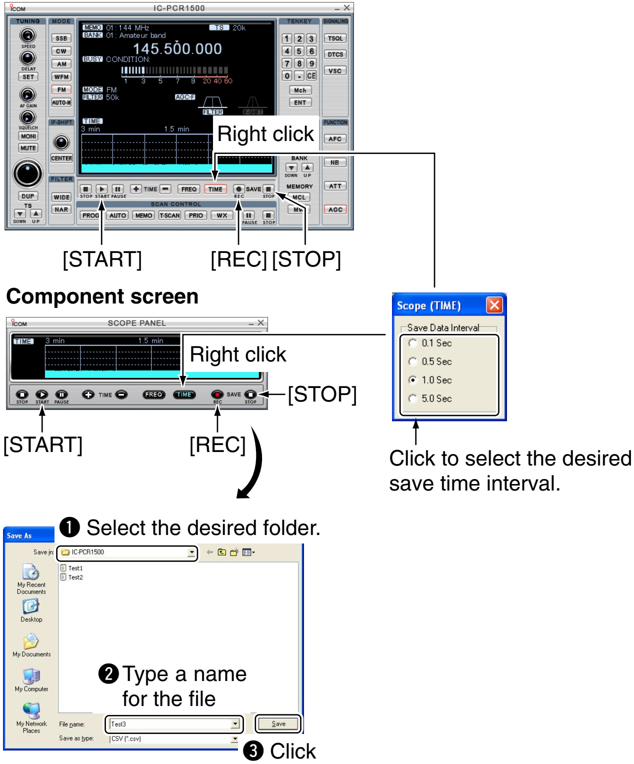
The band scope sweep data can be saved in CSV (Comma Separated Values) file format.

①Click the sweep start button ([▶]) to begin a sweep. (pgs. 83, 84)
- Frequency mode is selected when [FREQ] is clicked, and Time mode is selected when [TIME] is clicked.

②Click the recording start button ([●]) to start saving the receiving signal contents while sweeping.
- When Time mode is selected in step ①, the save time interval can be selected— right click the [TIME] button to indicate the [Scope (TIME)] setting screen, then select the desired save time interval. (e.g. when "1.0 Sec" is selected, time scope data is saved every 1 sec.)
- You can save the sweeping contents with the desired file name in the [File Name] box.
- The following data are saved.
  - Recording start day and time
  - Center frequency
  - Sweeping frequency
  - Sweeping time
  - Electrolytic strength

③Click the recording stop button ([■]) to stop recording.

Multi-function receiver screen


IC-PCR1500
Right click
[START]
[REC] [STOP]
Component screen
SCOPE PANEL
Right click
[STOP]
[START]
[REC]
Scope (TIME)
Save As
Save in: IC-PCR1500
Test1
Test2
My Recent Documents
Desktop
My Documents
My Computer
My Network Places
Save

Save Data Interval
○ 0.1 Sec
○ 0.5 Sec
● 1.0 Sec
○ 5.0 Sec

Click to select the desired save time interval.

❶ Select the desired folder.

❷ Type a name for the file

File name: Test3

Save as type: CSV (*.csv)

❸ Click

■ Changing the automatic sweep step limit

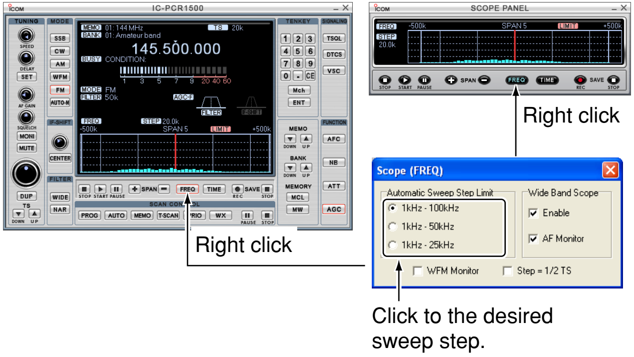
The frequency steps used while sweeping are automatically set according to the tuning step. However, these steps can be defined using the [Scope (FREQ)] setting screen on the setting screen.

① Right-click the [FREQ] button to call up the [Scope (FREQ)] setting screen if it is not displayed.

② Click the desired frequency step range in the [Automatic Sweep Step Limit].
- The sweep step range can be selected from one of 1–100 kHz, 1–50 kHz or 1–25 kHz.

③ Click the close ([**X**]) button to close the setting screen.

Multi-function receiver screen **Component screen**


IC-PCR1500
SCOPE PANEL
Right click
Right click
Scope (FREQ)

Automatic Sweep Step Limit
● 1kHz - 100kHz
○ 1kHz - 50kHz
○ 1kHz - 25kHz

Wide Band Scope
☑ Enable
☑ AF Monitor

☐ WFM Monitor
☐ Step = 1/2 TS

Click to the desired sweep step.

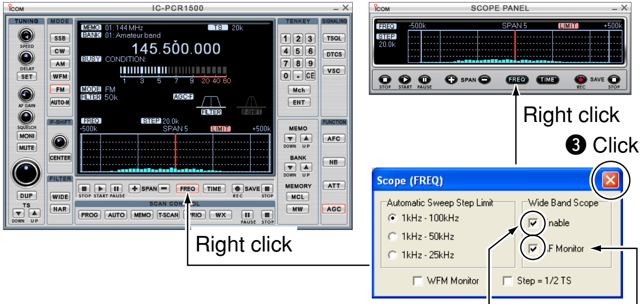
■ Wide band scope function

The wide band scope function is available to sweep a wide band scope (±1, 2 or 5 MHz.)
While sweeping the band scope, AF monitor function is also available.

①Right-click the [FREQ] button to call up the [Scope (FREQ)] setting screen if it is not displayed.
②Check the [Enable] check box in [Wide Band Scope] to enable the wide band scope function.
- Check the [AF Monitor] check box to monitor the receiving frequency.

③Click the close ([**X**]) button to close the setting screen.

Multi-function receiver screen **Component screen**



Automatic Sweep Step Limit
● 1kHz - 100kHz
○ 1kHz - 50kHz
○ 1kHz - 25kHz

Wide Band Scope
☑ Enable
☑ AF Monitor

☐ WFM Monitor
☐ Step = 1/2 TS

Right click

Right click

❸ Click

❶ Check the check box to turn [Wide Band Scope] ON.

❷ Check the check box to turn [AF Monitor] ON.

■ Band scope options

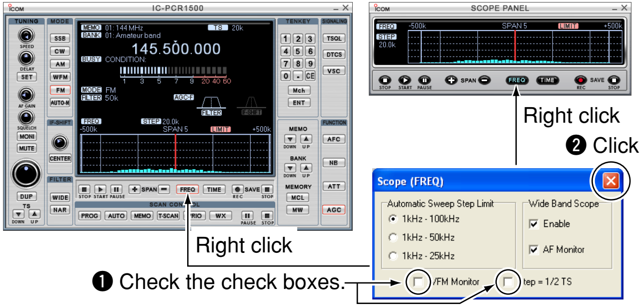
The following optional functions are available for the band scope function. These settings can be defined using the [Scope (FREQ)] screen.

● **WFM Monitor function**
The band scope function is normally used in AM and FM modes only. This function allows it to be used as waveform monitor in WFM mode.

● **1/2 sweep step function**
This function sets the sweep step in half of the tuning step, doubling the sweep resolution.

①Right-click the [FREQ] button to call up the [Scope (FREQ)] setting screen if it is not displayed.
②Check the desired check boxes in [Option], then click the close ([**X**]) button to close the setting screen.

Multi-function receiver screen **Component screen**



Automatic Sweep Step Limit
● 1kHz - 100kHz
○ 1kHz - 50kHz
○ 1kHz - 25kHz

Wide Band Scope
☑ Enable
☑ AF Monitor

☐ WFM Monitor
☐ Step = 1/2 TS

Right click

❷ Click

Right click

❶ Check the check boxes.

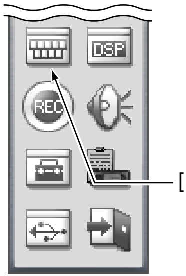
■ Operation

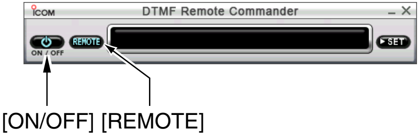
The computer can be remotely controlled using DTMF codes in FM mode. When receiving a programmed DTMF code, the IC-PCR1500 displays a message, activates a program/screen saver or plays a Windows sound file.

①Click [FM] to select FM mode.
② Click the [DTMF] icon on the tool bar to call up the [DTMF Remote Commander] screen if it is not displayed.
③Click [ON/OFF] on the [DTMF Remote Commander] screen to toggle the DTMF decoder circuit ON and OFF.
  - The LED lights when the function is ON.

④Click the [REMOTE] button to toggle the DTMF remote function ON and OFF.
  - The LED lights when the function is ON.

NOTE: When receiving a signal including a DTMF code, the received code is displayed in the DTMF indicator window. Up to 24 digits of the latest received DTMF code are displayed.


DSP
REC
[DTMF]

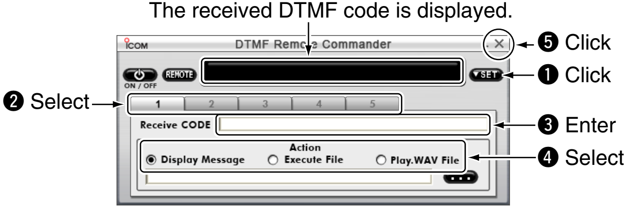

ICOM
DTMF Remote Commander
REMOTE
ON / OFF
SET
[ON/OFF] [REMOTE]

◇ Setting the DTMF receive code

① Click the [DTMF] icon on the tool bar to call up the [DTMF Remote Commander] screen if it is not displayed.
② Click [SET] to call up the receive code setting screen.
③ Click the desired tab from [1] to [5] for the receive code setting, then enter the desired key code in the [Receive CODE] field using the keyboard.
  - 0 to 9, A, B, C, D, E (∗) and F (#) can be used.

④ Select the desired action from 'Display Message', 'Action Execute File' or 'Play.WAV File' when the received code is matched to the [Receive CODE] setting.
  (a) 'Display Message'
    To display a entered message in the text box.
  (b) 'Action Execute File'
    To execute a file, enter the file name, including full path name, or select a desired file after pushing the [...] button.
  (c) 'Play.WAV File'
    To play a file, enter the file name, including full path name, or select a desired file after pushing the [...] button.

⑤Click the close button ([**X**]) to close the [DTMF Remote Commander] screen.


The received DTMF code is displayed.
ICOM
DTMF Remote Commander
❺ Click
REMOTE
ON / OFF
SET
❶ Click
❷ Select
1 2 3 4 5
Receive CODE
❸ Enter
Action
● Display Message
○ Execute File
○ Play.WAV File
❹ Select

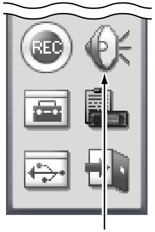
■ Operation

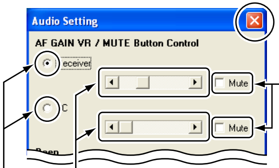
The Audio Setting screen adjusts the audio level and mute condition of the IC-PCR1500 and the connected PC, and also, the confirmation beep ON/OFF, the pocket beep emission type and the pocket beep repeating times can be set.

◇ The AF gain/mute setting

① Click the [Audio Setting] icon on the tool bar to call up the [Audio Setting] screen if it is not displayed.
② Click the [Receiver] or [PC] radio button to select the AF gain setting for the receiver main unit or PC.
③ Click [◀]/[▶] to adjust the AF gain level.
④ Check the [Mute] check box to turn the mute function ON or OFF.
When this function is turned ON, the received audio signal is muted.
- “MUTE” appears.

⑤ Click the close button ([**X**]) to close the Audio Setting screen.


[Audio Setting]



❸ Click

Check the check box to turn the mute function ON.

❷ Click [◀]/[▶] to set the audio volume.

❶ Click the radio button for the receiver main unit or PC’s AF gain setting.

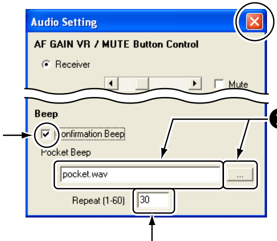
◇ Beep settings

● Confirmation Beep
This function sets the confirmation beep ON or OFF.

● Pocket Beep
This function sets the pocket beep emission type.

● Repeat (1-60)
This function sets the number of times for pocket beep repeating.

① Call up the [Audio Setting] screen if it is not displayed as at left.
② Check the [Confirmation Beep] check box to turn the confirmation beep emission ON.
③ Enter the wave file name in the [Pocket Beep] text box directly, or click [...] to select the desired wave file to set the pocket beep emission type.
④ Enter the beep repeat times from 1 to 60 in [Repeat (1–60)].
⑤ Click the close button ([**X**]) to close the [Audio Setting] screen.



☑ Confirmation Beep
Pocket Beep: pocket.wav
Repeat (1-60): 30

❹ Click

❶ Check the check box to turn the confirmation beep emission ON.

❷ Enter the wave file name, or click [...] to select the desired wave file.

❸ Enter the beep repeat times

◇ When playing through the computer's speaker

The [Audio Device] setting is necessary when the audio is emitted via the built-in or connected PC speaker whenever the USB cable is connected.

NOTE: The sound board should be installed into the PC to hear sound via the PC speaker. Please refer to your PC's instruction manual for details.

① Click the [Power] icon on the tool bar to quit the IC-PCR1500, then turn the receiver's main unit OFF.
- The power indicator of the main unit is turned OFF.

● Microsoft® Windows® XP

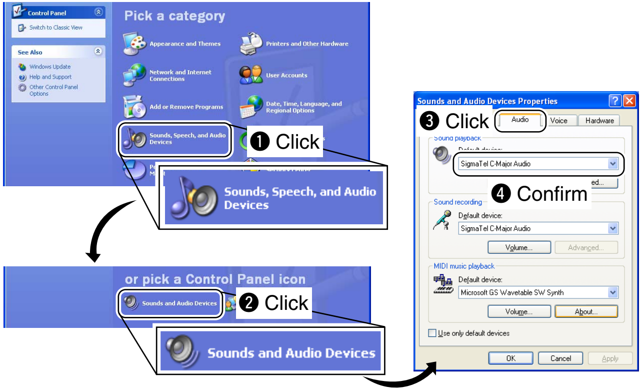
② Click the [Start] button and click [Control Panel] in [My computer].

③ Click [Sounds, Speech, and Audio Devices], then click [Sounds and Audio Devices].

④ Click the [Audio] tab, and confirm the "Default device" in [Sound playback].
- Making a note is recommended.

⑤ Click the close button ([**X**]) to close the [Sounds and Audio Devices Properties] screen.

☞ Continued to step ⑥ (p. 91)


Control Panel
Switch to Classic View
See Also
Windows Update
Help and Support
Other Control Panel Options
Pick a category
Appearance and Themes
Printers and Other Hardware
Network and Internet Connections
User Accounts
Add or Remove Programs
Date, Time, Language, and Regional Options
Sounds, Speech, and Audio Devices
❶ Click
Sounds, Speech, and Audio Devices
or pick a Control Panel icon
Sounds and Audio Devices
❷ Click
Sounds and Audio Devices
Sounds and Audio Devices Properties
❸ Click
Audio
Voice
Hardware
❹ Confirm
Volume...
Advanced...
About...
OK
Cancel
Apply

Sound playback
Default device: SigmaTel C-Major Audio

Sound recording
Default device: SigmaTel C-Major Audio

MIDI music playback
Default device: Microsoft GS Wavetable SW Synth

☐ Use only default devices

● Microsoft® Windows® 2000/Me

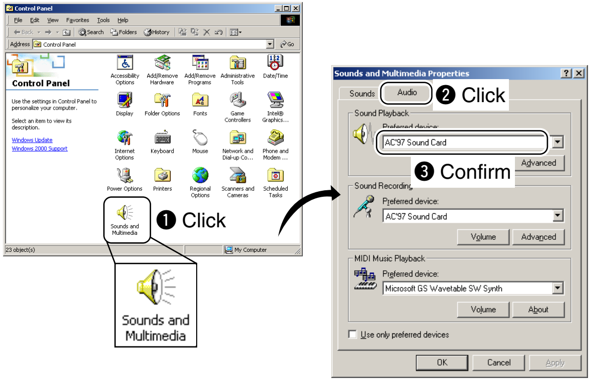
②Click the [Start] button and click [Control Panel] in [Settings].

③Double click on [Sounds and Maltimedia], then click the [Audio] tab.

④Confirm the “Preferred device” in [Sound Playback].

- Making a note is recommended.

⑤Click the close button ([**X**]) to close the [Sounds and Multimedia Properties] screen.


Control Panel
Sounds and Multimedia
❶ Click
Sounds and Multimedia Properties
Sounds
Audio
❷ Click
❸ Confirm
Advanced
Volume
About
OK
Cancel
Apply

Sound Playback — Preferred device: AC'97 Sound Card

Sound Recording — Preferred device: AC'97 Sound Card

MIDI Music Playback — Preferred device: Microsoft GS Wavetable SW Synth

☐ Use only preferred devices

☞ Continued to step ⑥ (as below right)

● Microsoft® Windows® 98SE

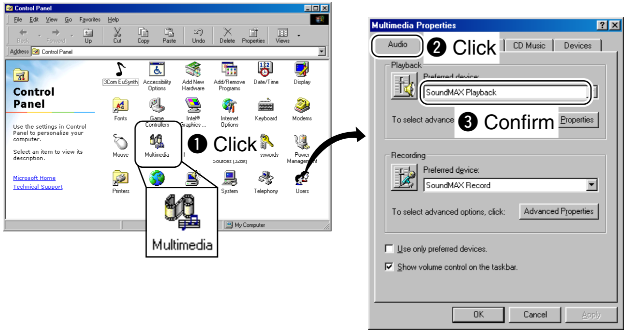
②Click the [Start] button and click [Control Panel] in [Settings].

③Double click on [Multimedia], then click the [Audio] tab.

④Confirm the “Preferred device” in [Sound Playback].

- Making a note is recommended.

⑤Click close button ([**X**]) to close the [Sounds and Maltimedia Properties] screen.


Control Panel
Multimedia
❶ Click
Multimedia Properties
Audio
❷ Click
CD Music
Devices
❸ Confirm
Advanced Properties
OK
Cancel
Apply

Playback — Preferred device: SoundMAX Playback

Recording — Preferred device: SoundMAX Record

☐ Use only preferred devices.

☑ Show volume control on the taskbar.

☞ Continued to step ⑥ (as below)

⑥ Turn the receiver’s main unit ON, then click the [Power] icon on the tool bar to turn the IC-PCR1500 ON.

- The power indicator of the main unit lights green.

⑦ Repeat steps ② to ③ according to your PC’s OS.

⑧ Select the confirmed device, click [OK].

NOTE: The folder, item names may differ depending on the PC. Please refer to your PC’s instruction manual for details.

■ Operation

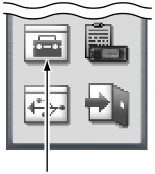
Shortcut keys give you faster and easier operation from a PC key board.

◇ A shortcut key assignment

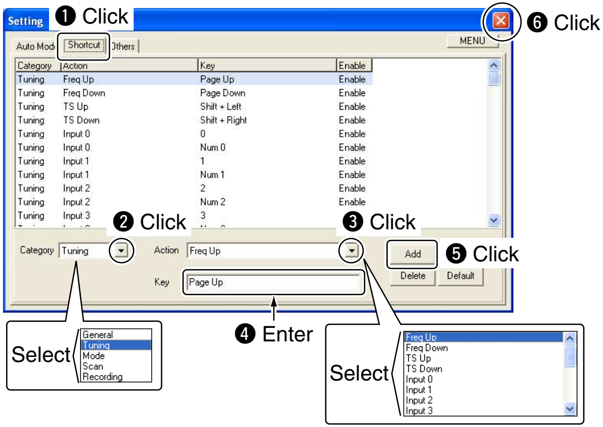
① Click the [Setting] icon on the tool bar to call up the [Setting] screen if it is not displayed.
② Click the [Shortcut] tab to display the shortcut key list.
③ Select the category from 'General,' 'Tuning,' 'Mode,' 'Scan' and 'Recording' in [Category].
④ Select the desired action in [Action].
- Selectable items are differ according to [Category] setting.

⑤ Enter the desired shortcut key or combination of keys that executes a specific function in [Key].
- [Ctrl], [Shift] and [Alt] keys act as shortcut keys with another key combination.
- Some keys cannot be set as shortcut key.

⑥ Click [Add] to add the shortcut key or combination of keys to the list.
⑦ Click close button ([**X**]) to close the [Setting] screen.



[Setting]



Category	Action	Key	Enable
Tuning	Freq Up	Page Up	Enable
Tuning	Freq Down	Page Down	Enable
Tuning	TS Up	Shift + Left	Enable
Tuning	TS Down	Shift + Right	Enable
Tuning	Input 0	0	Enable
Tuning	Input 0	Num 0	Enable
Tuning	Input 1	1	Enable
Tuning	Input 1	Num 1	Enable
Tuning	Input 2	2	Enable
Tuning	Input 2	Num 2	Enable
Tuning	Input 3	3	

Category: Tuning
Action: Freq Up
Key: Page Up

❶ Click
❷ Click
❸ Click
❹ Enter
❺ Click
❻ Click
Select
Select

[Example]: Assign "AM mode selection" to [Ctrl] + [A] key

① Select 'Mode' in [Category].
② Select 'AM' in [Action].
③ Click [Key] text box, then push [Ctrl] and [A] key.
- "Ctrl + A" is indicated in the [Key] text box.

④ Click [Add] to add the shortcut combination keys to the list.

- [Add] : Add the assigned shortcut key to the list.
- [Set] : Set the changing of the shortcut key content.
- [Delete] : Delete the shortcut key from the list.
- [Default] : Reset the shortcut list to the default setting.

The receiver has 250 multi channels. A total of 10 memory banks are available for usage by group, etc., and 25 channels are assigned into a bank.
The multi channel monitor function scans the programmed multi channels, and makes you to check the received signal strength level on the channels visually.

■ Multi channel programming

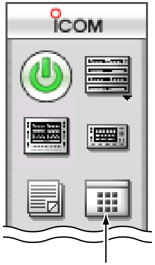
① Click the [Multi CH Monitor] icon on the tool bar to call up the [Multi CH Monitor] screen if it is not displayed.
② Click [SET] to display the [Multi CH Monitor] list screen, then program the desired items.
③ Click the close button ([**X**]) to close the [Multi CH Monitor] list screen.
- The channel name and frequency are displayed on the programmed channel.

④ Click the close button ([**X**]) to close the [Multi CH Monitor] screen.

◇ Multi channel programming details

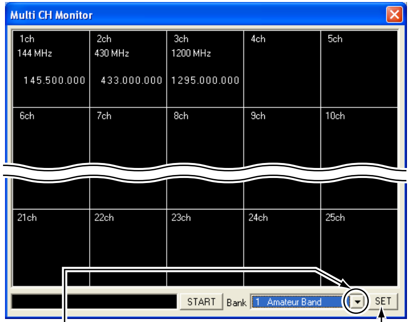
The multi channel programming is the same as the memory channel programming. See the following pages for the multi channel programming details.

- Bank name programming (p. 64)
- Editing the memory list (p. 61)
- Saving memory channel data (p. 66)
- Opening memory channel data (p. 66)
- Creating a new memory channel data file (p. 66)
- Printing a memory channel (p. 66)
- Importing/Exporting a CSV file (p. 67)



[Multi CH Monitor]

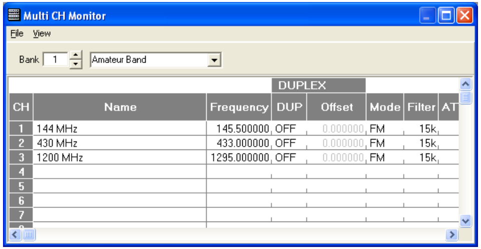
[Multi CH Monitor] screen


Multi CH Monitor
1ch
144 MHz
145.500.000
2ch
430 MHz
433.000.000
3ch
1200 MHz
1295.000.000
4ch
5ch
6ch
7ch
8ch
9ch
10ch
21ch
22ch
23ch
24ch
25ch
START
Bank
1 Amateur Band
SET

Click for a bank selection.

Click to display the [Multi CH Monitor] list screen.

[Multi CH Monitor] list screen


Multi CH Monitor
File
View

Bank 1 Amateur Band

			DUPLEX				
CH	Name	Frequency	DUP	Offset	Mode	Filter	AT
1	144 MHz	145.500000	OFF	0.000000	FM	15k	
2	430 MHz	433.000000	OFF	0.000000	FM	15k	
3	1200 MHz	1295.000000	OFF	0.000000	FM	15k	
4							
5							
6							
7							

■ Multi channel monitor operation

① Click the [Multi CH Monitor] icon on the tool bar to call up the [Multi CH Monitor] screen if it is not displayed.
- The channel name and frequency are displayed on the programmed channel.

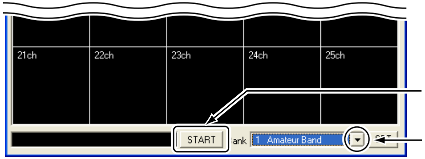
② Click [▼] to select the desired bank to monitor.

③ Click the [START] button to start scan.

// While scanning, the receive audio is muted.
- "SCANNING" blinks in the information box.
- The [START] button changes to the [STOP] button while scanning.
- The background color changes according to the receiving signal strength level.
  - Black : Non programmed or no signal channel.
  - Dark gray : S-meter level is below S3.
  - Pale gray : S-meter level is above S3/below S9.
  - Red : S-meter level is above S9.

④ Click the desired channel screen to monitor.
- Scan is cancelled.

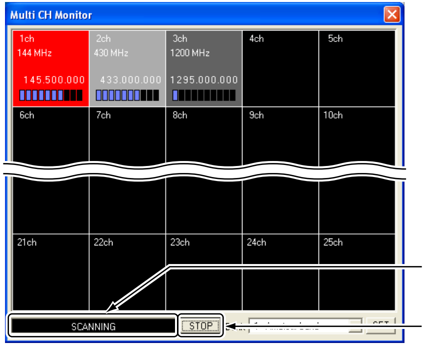
⑤ Click the [STOP] button to stop the scan.


21ch
22ch
23ch
24ch
25ch
START
ank
1 Amateur Band

[START]

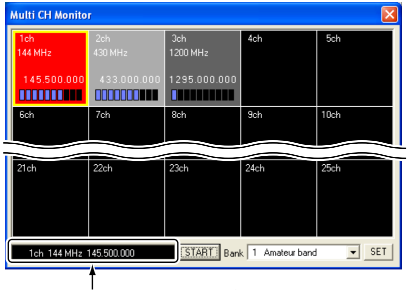
Click for a bank selection.

During scanning


Multi CH Monitor
1ch
144 MHz
145.500.000
2ch
430 MHz
433.000.000
3ch
1200 MHz
1295.000.000
4ch
5ch
6ch
7ch
8ch
9ch
10ch
21ch
22ch
23ch
24ch
25ch
SCANNING
STOP

Blinks

[STOP]


Multi CH Monitor
1ch
144 MHz
145.500.000
2ch
430 MHz
433.000.000
3ch
1200 MHz
1295.000.000
4ch
5ch
6ch
7ch
8ch
9ch
10ch
21ch
22ch
23ch
24ch
25ch
1ch 144 MHz 145.500.000
START
Bank
1 Amateur band
SET

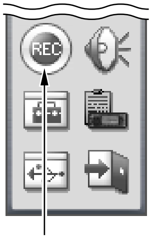
The selected channel information is displayed.

The receiver has a recorder function that enables you to record a signal. The recording data can be saved into the PC.

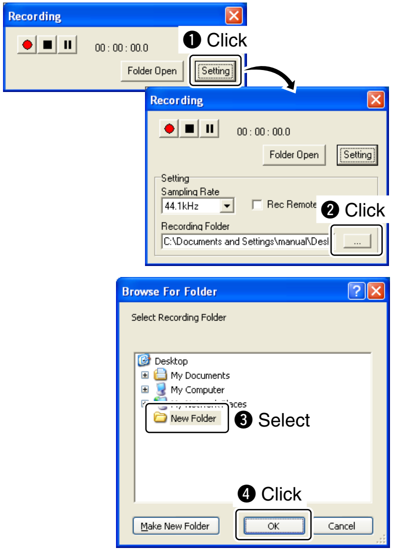
■ Recording a receiving signal

① Receive a signal. (p. 43)
② Click the [Recording] icon on the tool bar to call up the [Recording] screen if it is not displayed.
③ Click [Setting] to display the setting menu.
④ Click [...], then select the desired folder in which the recording data is saved.
After the folder selection, click [OK].
⑤ Click the recording start button ([●]) to start recording the receiving signal.
- While recording, the recording counter and a file name are displayed.
- Click [❚❚] to pause a recording. Repeat to resume recording.
- The recording data is saved in WAVE format.

⑥ Click the recording stop button ([■]) to stop recording.

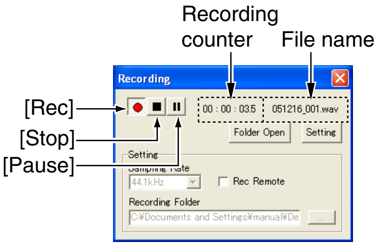


[Recording]


Recording
00 : 00 : 00.0
Folder Open
Setting
❶ Click
Recording
00 : 00 : 00.0
Folder Open
Setting
Setting
❷ Click
Browse For Folder
Desktop
My Documents
My Computer
New Folder
❸ Select
❹ Click
Make New Folder
OK
Cancel

Sampling Rate: 44.1kHz
☐ Rec Remote
Recording Folder: C:\Documents and Settings\manual\Desl

Select Recording Folder


Recording
counter
File name
[Rec]
[Stop]
[Pause]
Recording
Folder Open
Setting
Setting

00 : 00 : 03.5 051216_001.wav
Sampling Rate: 44.1kHz
☐ Rec Remote
Recording Folder: C:¥Documents and Settings¥manual¥De

(While recording)

◇ Playing the recording data

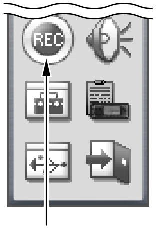
You can play back the recorded signal with the installed media player (e.g. Windows Media® Player, etc.) in the PC. Please refer to the media player's instruction manual for details.

■ Sampling Rate setting

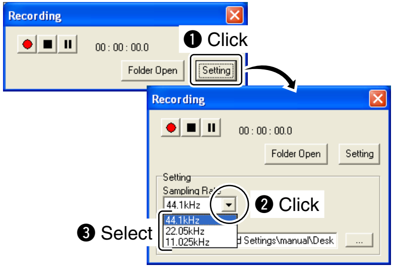
Sampling Rate setting is expressed in samples per second, and determines the sound quality.

Although a higher sampling rate provides a better quality sound than a lower sampling rate, the file size becomes larger.

① Receive a signal. (p. 43)
② Click [Recording] icon on the tool bar to call up the [Recording] screen if it is not displayed.
③ Click [Setting] to display the setting menu.
④ Click [▼] in [Sampling Rate], then select the desired rate from the displayed menu.
  - The higher rate setting enables High-quality sound.



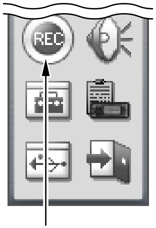
[Recording]


Recording
00 : 00 : 00.0
Folder Open
Setting
❶ Click
Recording
00 : 00 : 00.0
Folder Open
Setting
Setting
Sampling Rate
44.1kHz
44.1kHz
22.05kHz
11.025kHz
❷ Click
❸ Select
Settings\manual\Desk
...

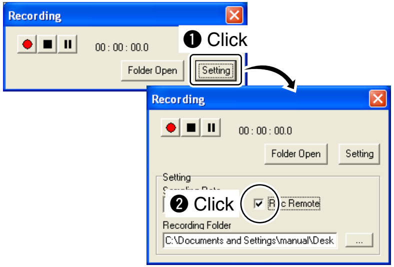
■ Remote recording function

The remote recording function pauses recording automatically when no signal is received, and resumes after the signal appears.

① Receive a signal. (p. 43)
② Click the [Recording] icon on the tool bar to call up the [Recording] screen if it is not displayed.
③ Click [Setting] to display the setting menu.
④ Click the [Rec Remote] check box to turn the remote recording function ON and OFF.
  - "✔" appears when the remote recording function is turned ON.



[Recording]


Recording
00 : 00 : 00.0
Folder Open
Setting
❶ Click
Recording
00 : 00 : 00.0
Folder Open
Setting
Setting
❷ Click
☑ Rec Remote
Recording Folder
C:\Documents and Settings\manual\Desk
...

INTERNAL AUDIO SWITCH

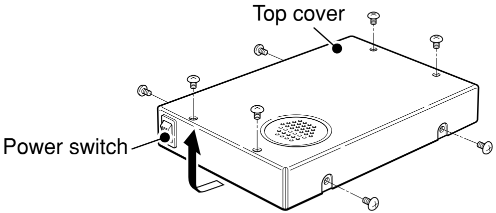
The internal switch must be toggled when using an external speaker, headphones or earphone.

Before removing the top cover, turn the receiver power OFF, then disconnect the DC power cable.

①Turn the power OFF, then disconnect the DC power cable.

②Unscrew the 8 screws and disconnect the connected cables, then remove the top cover.

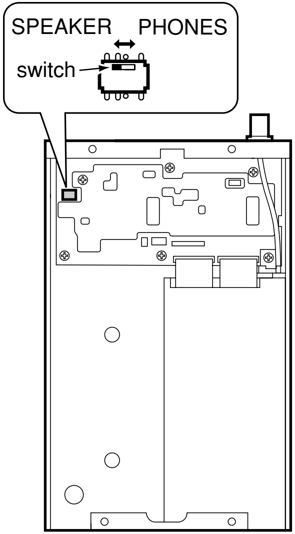
- Be careful not to lose the screws.



③Toggle the switch as desired (shown at right).

- Toggles the switch to [SPEAKER] when an external speaker is connected to the receiver. (default)
- Toggles the switch to [PHONES] when headphones or earphone are/is connected to the receiver.

④Return the top cover, cables and screws to the original position.



The optional UT-106 DSP RECEIVE UNIT provides AF DSP (Digital Signal Processor) functions such as ANF (Auto Notch Filter) and NR (Noise Reduction).

■ UT-106 installation

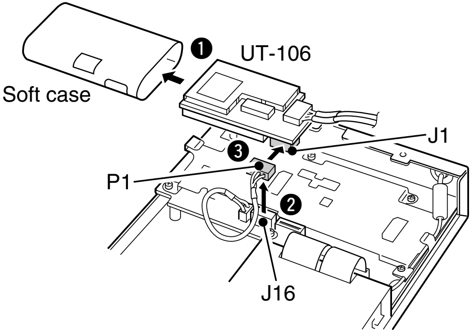
Before removing the top cover, turn the receiver power OFF, then disconnect the DC power cable.

①Turn the power OFF, then disconnect the DC power cable.

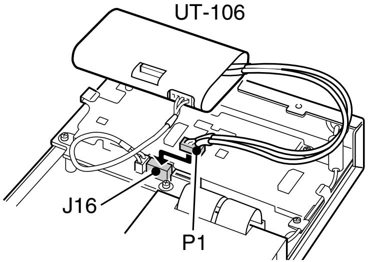
②Unscrew the 8 screws and disconnect the connected cables, then remove the top cover. (See p. 97)
- Be careful not to lose the screws.

③Insert the UT-106 to the supplied soft case. (❶)

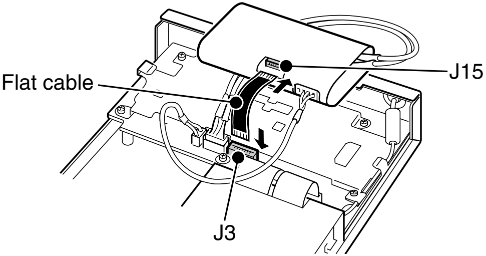
④Disconnect P1 (4 pin) from J16 of the LOGIC unit (❷), then connect to J1 of the UT-106 (❸).



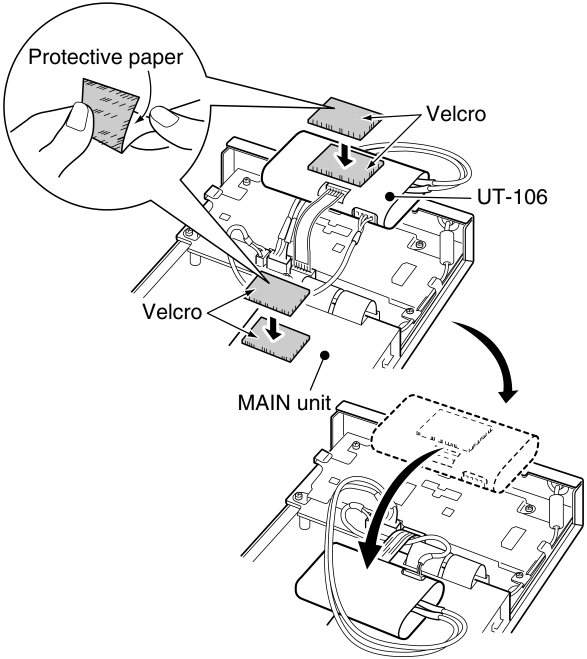
⑤Connect P1 (4 pin) of the UT-106 to J16 of the LOGIC unit.



⑥Connect the supplied flat cable between J15 of the UT-106 and J3 of the LOGIC unit.
- Be sure not upside down.



⑦ Remove the protective paper from the supplied velcro®, then attach it to the UT-106 and IC-PCR1500 MAIN unit.


Protective paper
Velcro
UT-106
Velcro
MAIN unit

⑧ Return the top cover, cables and screws to the original position.

Velcro® is a registered trademark of Velcro Industries B.V.

■ ANF function

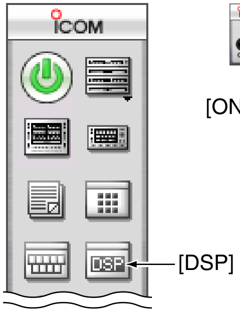
(Available only when the UT-106 is installed.)

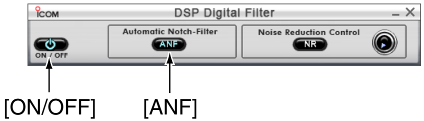
Turns ANF (Automatic Notch Filter) function ON and OFF. The ANF function automatically attenuates up to 3 beat tones, tuning signals, etc. even if they are moving. The ANF function can be used in USB, LSB, AM, FM and WFM modes.

① Click the [DSP] icon on the tool bar to call up the [DSP Digital Filter] screen if it is not displayed.

② Click [ON/OFF] to turn the DSP (Digital Signal Processor) function ON.
- [ON/OFF] indicator lights.

③ Click [ANF] to turn the ANF function ON.
- ANF indicator lights.


ICOM
DSP
[DSP]


ICOM
DSP Digital Filter
Automatic Notch-Filter
ANF
Noise Reduction Control
NR
ON / OFF
[ON/OFF]
[ANF]

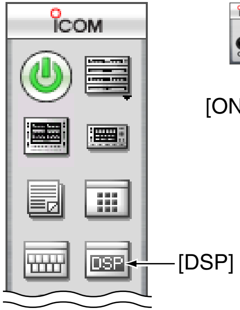
■ NR function

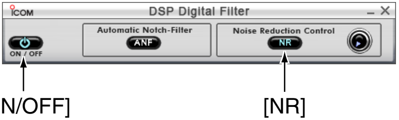
(Available only when UT-106 is installed.)

Selects NR (Noise Reduction) levels run from 1 to 15, or the function may be turned OFF.
The NR function enhances desired signals in the presence of noise by using the DSP circuit. The amount of enhancement is adjustable.
The NR level can result in audio signal masking. Set the noise reduction level for maximum readability.

① Click the [DSP] icon on the tool bar to call up the [DSP Digital Filter] screen if it is not displayed.
② Click [ON/OFF] to turn the DSP (Digital Signal Processor) function ON.
- [ON/OFF] indicator lights.

③ Click [NR] to turn the NR function ON.
- NR indicator lights.


ICOM
DSP
[DSP]


ICOM
DSP Digital Filter
Automatic Notch-Filter
ANF
Noise Reduction Control
NR
ON / OFF
[ON/OFF]
[NR]

USB PORT SETTING 19

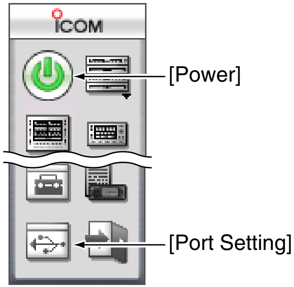
The connected PC's USB port number and the serial number of the IC-PCR1500 can be selected/confirmed in [Port Setting] screen.

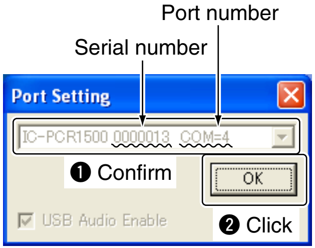
If some receiver's main units are connected to your PC, select the desired USB port and serial number when the IC-PCR1500 power is OFF. The only one IC-PCR1500 main unit can be operated. 2 or more IC-PCR1500s cannot be operated simultaneously.

◇ USB port confirmation

①Click [Port Setting] icon on the tool bar to call up the [Port Setting] screen.
- The connected PC's USB port number and serial number of the IC-PCR1500 are displayed.
- During the IC-PCR1500 is ON, USB port selection in inhibited.

② Confirm the connected USB port and serial number, click [OK].


ICOM
[Power]
[Port Setting]


IC-PCR1500 0000013 COM=4
Port number
Serial number
Port Setting
❶ Confirm
OK
☑ USB Audio Enable
❷ Click

◇ USB port selection

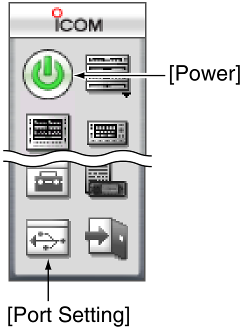
①Click [Power] icon on the tool bar to turn the IC-PCR1500 OFF.

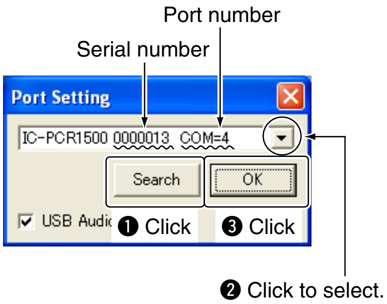
② Click [Port Setting] icon on the tool bar to call up the [Port Setting] screen.

③ Click [Search] to display the connected PC's USB port and serial number of the IC-PCR1500, if it is not displayed.

④ Click [▼] to select the desired USB port and serial number of the IC-PCR1500 to be controlled.

⑤ After selection, click [OK].

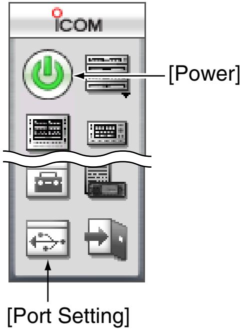

ICOM
[Power]
[Port Setting]

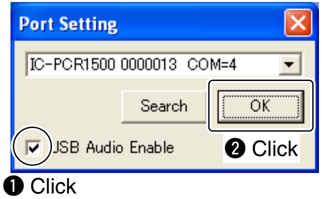

IC-PCR1500 0000013 COM=4
Port number
Serial number
Port Setting
Search
OK
☑ USB Audi
❶ Click
❸ Click
❷ Click to select.

20 USB AUDIO SETTING

USB audio output function can be turned ON or OFF in [Port Setting] screen when the IC-PCR1500 power is OFF.
When the USB audio output function is OFF, the recording function, audio/mute setting for PC (pgs. 89, 95) are disabled, but the computer running speed will be faster than when the USB audio output function is ON.

①Click [Power] icon on the tool bar to turn the IC-PCR1500 OFF.
② Click [Port Setting] icon on the tool bar to call up the [Port Setting] screen.
③ Check the [USB Audio Enable] check box to turn the USB audio output function ON.
④ Click [OK].




Port Setting

IC-PCR1500 0000013 COM=4

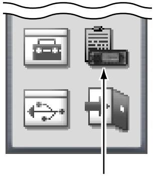
☑ USB Audio Enable

21

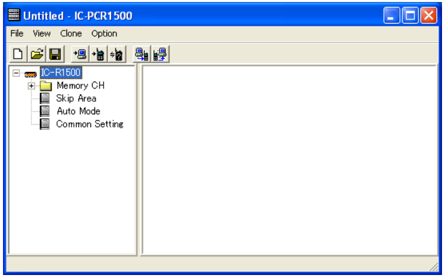
CLONING OPERATION (Available only when the IC-R1500 is connected.)

When the IC-R1500 is connected, data cloning is available. Cloning allows you to quickly and easily transfer the programmed contents from a personal computer to a receiver using the IC-PCR1500 program.
See the cloning instruction manual, supplied with the IC-R1500, for details.

➥ Click [Clone] icon on the tool bar to make the [Cloning] screen appear/disappear.



[Clone]


Untitled - IC-PCR1500
File
View
Clone
Option
IC-R1500
Memory CH
Skip Area
Auto Mode
Common Setting

(Cloning screen)

22 TROUBLESHOOTING

If your receiver seems to be malfunctioning, please check the following points before sending it to a service center.

PROBLEM	POSSIBLE CAUSE	SOLUTION	REF.
Does not turn on.	• An AC adapter is not connected to the IC-PCR1500. • An AC adapter is connected to the same AC outlet with a PC, printer, etc.	• Check the connection. • Check the connection.	p. 1 p. 1
No sound comes from the speaker.	• Volume is too low. • The audio mute function is activated. • Squelch is set too high. • Band scope function is activated in SSB or CW mode.	• Right click [AF GAIN]. • Push [MUTE] to turn the mute function OFF. • Set the squelch level to the threshold. • Pause or cancel the band scope function in SSB or CW mode.	p. 43 p. 50 p. 47 p. 83
Sensitivity is low and only strong signals are audible.	• Antenna feedline or the antenna connector has a poor contact or is short circuited. • Squelch attenuator function is activated.	• Check, and if necessary, replace the feedline or solder the antenna connector again. • Push [ATT] to turn the Attenuator function OFF.	p. 1 p. 53
Frequency cannot be set via the PC key board.	• The receiver screen is not selected.	• Click anywhere in the receiver screen first, then input the frequency.	p. 45
Program scan does not operate.	• The squelch is open. • The start and end frequencies are the same.	• Set the squelch to the threshold point. • Set the different frequencies.	p. 47 p. 69
Memory scan does not operate.	• The squelch is open. • Only 1 memory channel is programmed or other channels are set as skip channel.	• Set the squelch to the threshold point. • Program other memory channels or cancel the memory skip function in the desired channels.	p. 47 p. 73
The Communication error occurs after launching the IC-PCR1500 program.	• The computer does not recognize the IC-PCR1500. • The protector circuit of the power supply is activated.	• Launch the program after approx. 20 sec. has passed. • Use the supplied AC adapter, or a stabilized power supply with large capacity.	pgs. 26, 27 pgs. 1, 2

■ Specifications

◇ GENERAL

- Frequency coverage (MHz)
  U.S.A. : 0.010000–809.999999
  851.000–866.999999
  896.000–1300.000000
  1300.000001–1810.999999
  1852.000–1867.999999
  1897.000–2305.899999
  2357.000–2811.999999
  2853.000–2868.999999
  2898.000–3109.799999
  3136.000–3154.799999
  3181.000–3299.999999
  France : 0.010000–29.999999
  50.200–51.200000
  87.500–108.00000
  144.000–146.00000
  430.000–440.00000
  1240.000–1300.00000
  Other than above : 0.010–3299.999999
  *Guaranteed: 0.495–3000.000 MHz range only
- Type of emission : FM, AM, WFM, USB, LSB, CW
- Number of memory channels
  Main unit : 2600
  Controller (IC-R1500) : 1100 (incl. 100 scan edges)
- Frequency resolution : 1 Hz*, 10 Hz, 20 Hz, 50 Hz, 100 Hz, 500 Hz, 1 kHz, 2.5 kHz, 5 kHz, 6.25 kHz, 8.33 kHz, 9 kHz, 10 kHz, 12.5 kHz, 15 kHz, 20 kHz, 25 kHz, 30 kHz, 50 kHz, 100 kHz, 125 kHz, 150 kHz, 200 kHz, 500 kHz, 1 MHz, 10 MHz*, USER TS*
  *IC-PCR1500 only
- Operating temperature range
  Main unit : 0°C to +60°C; +32˚F to +140˚F
  Controller (IC-R1500) : –10°C to +60°C; +14˚F to +140˚F
- Frequency stability : ±3 ppm (–10°C to +60°C)
- Power supply requirement : 12.0 V DC ±15%
- Current drain
  (at 12.0 V DC: approx.) : standby 0.65 A (typical)
  max. audio 1.2 A
- Antenna connector : BNC (50 Ω)
- Dimensions (proj. not included)
  Main unit : 146(W) × 41(H) × 206(D) mm
  $5\frac{3}{4}$(W)×$1\frac{5}{8}$(H)×$8\frac{1}{8}$(D) in
  Controller (IC-R1500) : 111(W) × 40(H) × 26.5(D) mm
  $4\frac{3}{8}$(W)×$1\frac{9}{16}$(H)×$1\frac{1}{32}$(D) in
- Weight (approx.)
  Main unit : 1.2 kg; 2 lb 10 oz
  Controller (IC-R1500) : 0.2 kg; $7\frac{17}{32}$ oz

◇ RECEIVER

- Receive system : Triple-conversion superheterodyne and down converter
- Intermediate frequencies : 1st: 266.700 MHz, 2nd: 10.700 MHz
  3rd: 450 kHz (except for WFM mode)
- Sensitivity:
  FM (1 kHz/3.5 kHz Dev.; 12 dB SINAD)
    28.000–29.999 MHz : Less than 0.63 μV
    30.000–49.999 MHz : Less than 0.63 μV
    50.000–239.999 MHz : Less than 0.5 μV
    240.000–279.999 MHz : Less than 0.5 μV
    280.000–299.999 MHz : Less than 0.5 μV
    300.000–699.999 MHz : Less than 0.5 μV
    700.000–1300.000 MHz : Less than 0.63 μV
    1300.000001–2299.999 MHz: Less than 5.6 μV
    2300.000–3000.000 MHz : Less than 18 μV
  WFM (1 kHz/52.5 kHz Dev.; 12 dB SINAD)
    50.000–699.999 MHz : Less than 1.4 μV
    700.000–1300.000 MHz : Less than 1.8 μV
    1300.000001–2299.999 MHz: Less than 18 μV
    2300.000–3000.000 MHz : Less than 56 μV

- AM (1 kHz/30% MOD.; 10 dB S/N)
  - 0.495–1.799 MHz : Less than 25 μV
  - 1.800–14.999 MHz : Less than 2.5 μV
  - 15.000–49.999 MHz : Less than 2.5 μV
  - 50.000–299.999 MHz : Less than 2 μV
  - 300.000–699.999 MHz : Less than 2 μV
  - 700.000–1300.000 MHz : Less than 2.5 μV
- SSB/CW (10 dB S/N)
  - 0.495–1.799 MHz : Less than 5 μV
  - 1.800–14.999 MHz : Less than 0.5 μV
  - 15.000–49.999 MHz : Less than 0.5 μV
  - 50.000–699.999 MHz : Less than 0.4 μV
  - 700.000–1300.000 MHz : Less than 0.5 μV
- Squelch sensitivity (threshold) :
  - FM (1 kHz/3.5 kHz Dev.)
    - 28.000–29.999 MHz : Less than 0.63 μV
    - 30.000–49.999 MHz : Less than 0.63 μV
    - 50.000–239.999 MHz : Less than 0.5 μV
    - 240.000–279.999 MHz : Less than 0.5 μV
    - 280.000–299.999 MHz : Less than 0.5 μV
    - 300.000–699.999 MHz : Less than 0.5 μV
    - 700.000–1300.000 MHz : Less than 0.63 μV
    - 1300.000001–2299.999 MHz: Less than 5.6 μV
    - 2300.000–3000.000 MHz : Less than 18 μV
  - WFM (1 kHz/52.5 kHz Dev.)
    - 50.000–699.999 MHz : Less than 5.6 μV
    - 700.000–1300.000 MHz : Less than 7.1 μV
    - 1300.000001–2299.999 MHz: Less than 71 μV
    - 2300.000–3000.000 MHz : Less than 224 μV
  - AM (1 kHz/30% MOD.)
    - 0.495–1.799 MHz : Less than 18 μV
    - 1.800–14.999 MHz : Less than 0.89 μV
    - 15.000–49.999 MHz : Less than 0.89 μV
    - 50.000–299.999 MHz : Less than 0.71 μV
    - 300.000–699.999 MHz : Less than 0.71 μV
    - 700.000–1300.000 MHz : Less than 0.89 μV
  - SSB/CW
    - 0.495–1.799 MHz : Less than 71 μV
    - 1.800–14.999 MHz : Less than 7.1 μV
    - 15.000–49.999 MHz : Less than 7.1 μV
    - 50.000–699.999 MHz : Less than 5.6 μV
    - 700.000–1300.000 MHz : Less than 7.1 μV
- Selectivity :
  - SSB/CW/AM More than 2.8 kHz/–6 dB (typical)
  - SSB/CW/AM/FM More than 6.0 kHz/–6 dB (typical)
  - AM/FM More than 15 kHz/–6 dB (typical)
  - AM/FM/WFM More than 50 kHz/–6 dB (typical)
  - WFM More than 230 kHz/–6 dB (typical)
- AF output power (at 12.0 V DC) : More than 0.5 W at 10% distortion with an 8 Ω load
- Ext. speaker connector : 2-conductor 3.5 (d) mm (1⁄8″)/8 Ω
- Packet connector : 2-conductor 3.5 (d) mm (1⁄8″)/100 kΩ
- IF shift variable range : More than ±1.2 kHz

■ Options

UT-106 DSP RECEIVE UNIT

Provides AF DSP functions such as noise reduction and auto notch.

CP-12L CIGARETTE LIGHTER CABLES

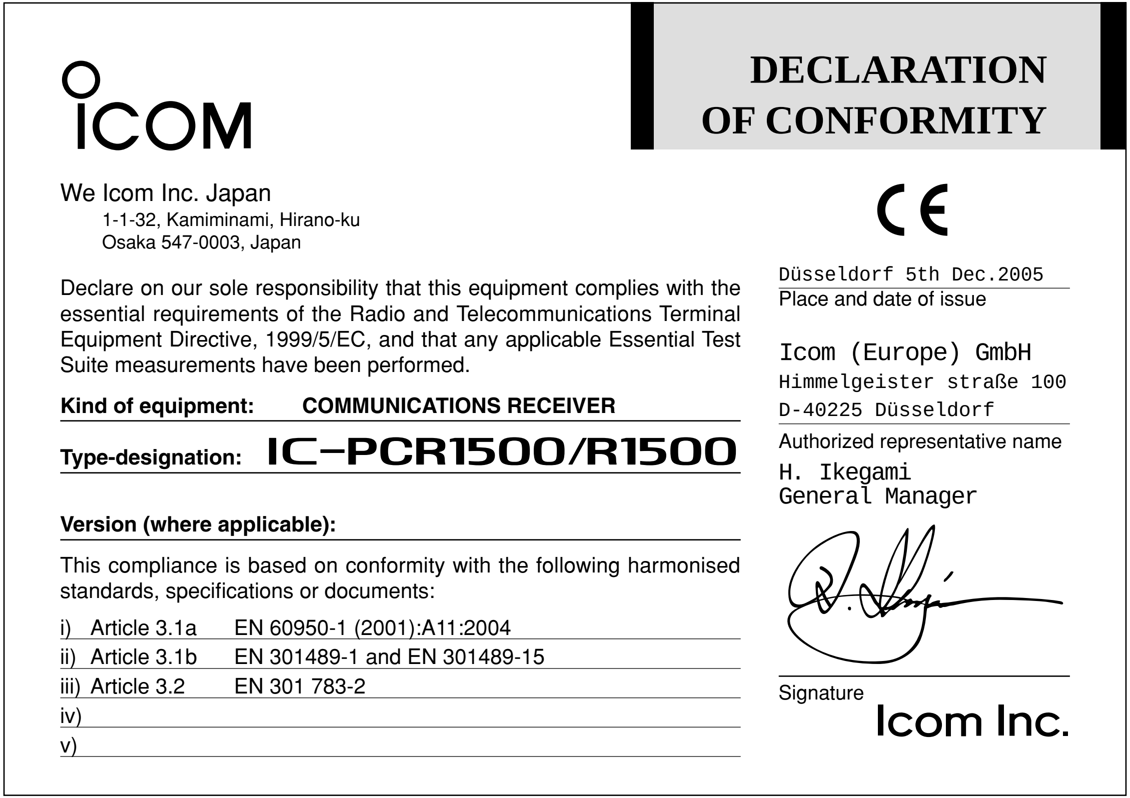
For operation via a 12 V cigarette lighter socket.

OPC-254L DC POWER CABLES

For operation via an external power supply.

SP-10 EXTERNAL SPEAKER

For mobile or base operation. Cable length: 1.5 m; 4.9 ft



DECLARATION OF CONFORMITY

We Icom Inc. Japan
1-1-32, Kamiminami, Hirano-ku
Osaka 547-0003, Japan

Declare on our sole responsibility that this equipment complies with the essential requirements of the Radio and Telecommunications Terminal Equipment Directive, 1999/5/EC, and that any applicable Essential Test Suite measurements have been performed.

Kind of equipment: **COMMUNICATIONS RECEIVER**

Type-designation: IC-PCR1500/R1500

Version (where applicable):

This compliance is based on conformity with the following harmonised standards, specifications or documents:

i) Article 3.1a EN 60950-1 (2001):A11:2004
ii) Article 3.1b EN 301489-1 and EN 301489-15
iii) Article 3.2 EN 301 783-2
iv)
v)

Düsseldorf 5th Dec.2005
Place and date of issue

Icom (Europe) GmbH
Himmelgeister straße 100
D-40225 Düsseldorf
Authorized representative name

H. Ikegami
General Manager

Signature

Icom Inc.

MEMO

Count on us!

#22 Europe

<Intended Country of Use>

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☐ GBR ■ BEL ■ ITA ■ FIN
■ IRL ■ LUX ■ GRE ■ SUI
■ NOR

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☐ NOR

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