# Panasonic

Digital Photo Printer
PV-PD2100

Operating Instructions

For assistance, call 1-800-272-7033.
Please read these instructions thoroughly before operating this product.

MP
OVER COAT   DPOF

Dear Customer,

We would like to take this opportunity to thank you for purchasing this Panasonic Digital Photo Printer.
Please read these Operating Instructions carefully and keep them handy for future reference.

IMPORTANT
Please respect all copyrights.
Whatever you have recorded and created can be
used for your personal entertainment only. Under
copyright laws, it cannot be used without obtaining
permission from the holders of the copyrights.

●"Microsoft Windows" is a trademark of Microsoft Corporation in the United States.
●The name "Apple", Macintosh and System are either registered trademarks or trademarks of Apple Computer
  Inc.
●Other model names, company names, product names, etc. mentioned in this manual are either the
  trademarks or registered trademarks of the companies concerned.

Information for Your Safety

WARNING

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE ONLY THE RECOMMENDED ACCESSORIES AND DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.
DO NOT REMOVE THE COVER (OR BACK);THERE ARE NOT USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

● As this equipment gets hot during use, operate it in well ventilated place; do not install this equipment in a confined space such as a book case or similar unit.

(U.S. only)
This device complies with Part 15 of the FCC Rules. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS :
(1)THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE. AND
(2)THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED. INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

FCC NOTE: (U.S. only)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
● Reorient or relocate the receiving antenna.
● Increase the separation between the equipment and receiver.
● Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
● Consult the dealer or an experienced radio/TV technician for help.

FCC Caution : To assure continued compliance, follow the attached installation instructions and use only shielded cables when connecting to computer or other devices. Also, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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Standard Accessories
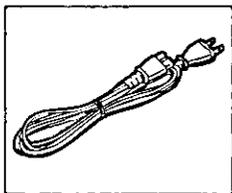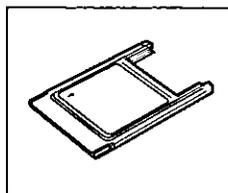
Power Cable (p.10)	PC Card Adapter (p.26)
Video Cable (p.10)	Standard Paper (25 sheets) (p.9,12)
PC Connection Cable for Windows (p.57)	Ink Cassette (p.12)
PC Connection Cable for Macintosh (p.69)	Printer Driver Software CD-ROM (p.58,62,70)
Paper Cassette (p.12)	Operating Instructions
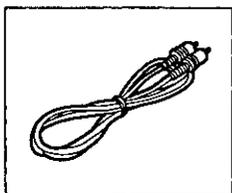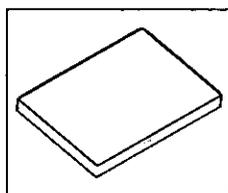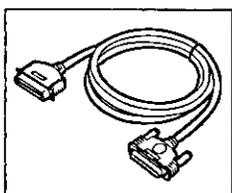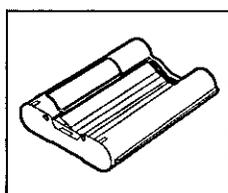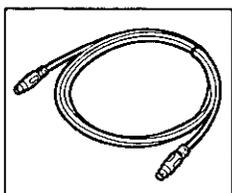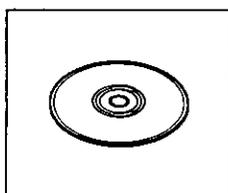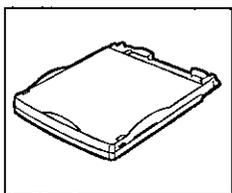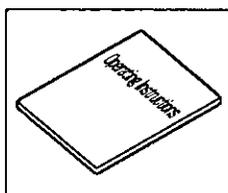
Usable Paper for Printing

Use Print Sets that either bear the ▣ mark or ▣ mark, or have been designated by Panasonic as suitable for this Digital Photo Printer.

Standard Paper
This product comes with a print set (Standard Paper and Ink Cassette).
When the paper and ink run out, purchase the PV-MPS50 (50 sheets) print set which is sold separately.
This paper can be used as a postcard if you affix the proper postage.

Contents

Preparations

Controls and Components
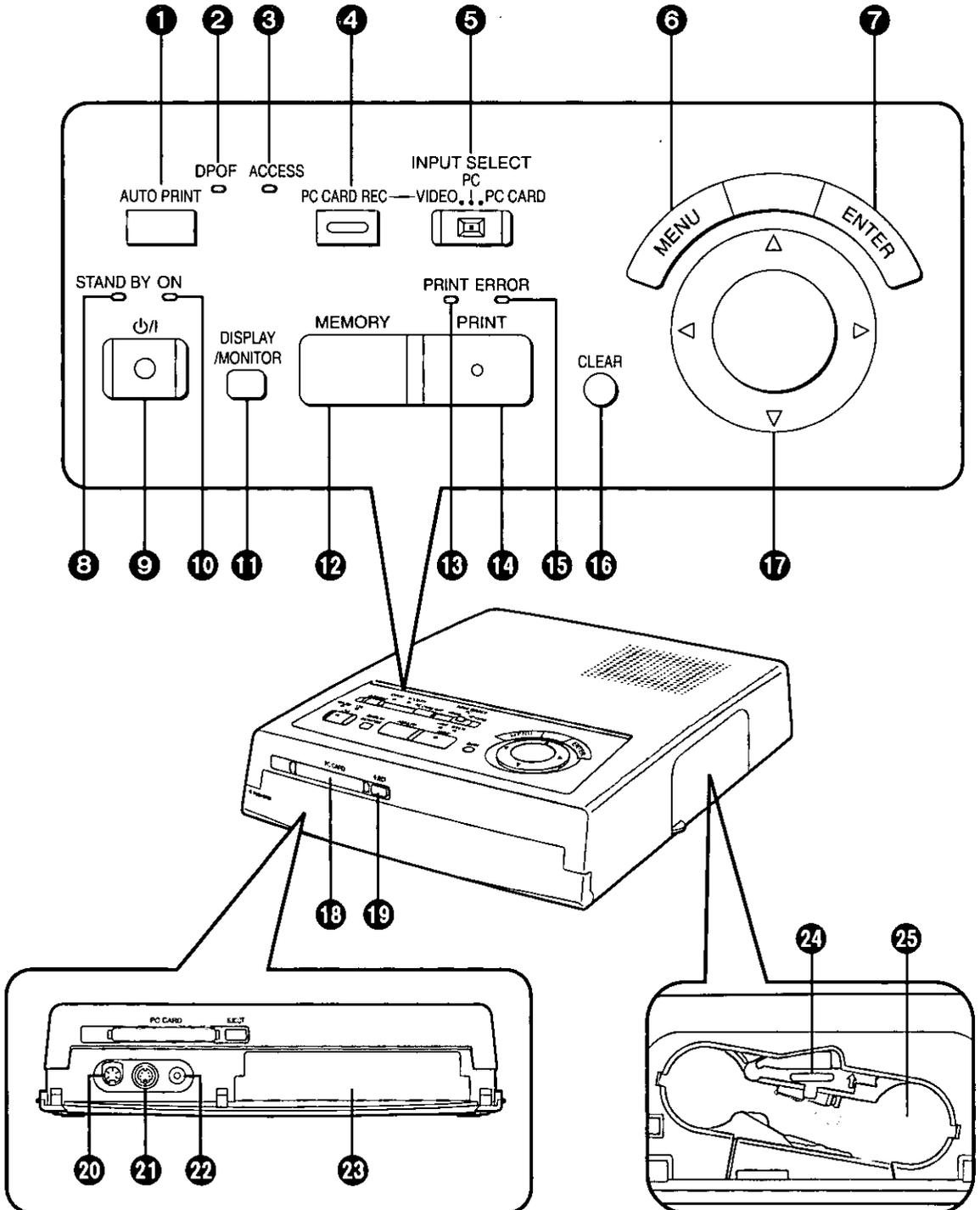
❶ AUTO PRINT Button (p.31)
Used to print all the images on the PC Card.

❷ DPOF Lamp (p.30)
The lamp lights when a PC Card from a Digital
Video Camera or Digital Still Camera which
supports DPOF (Digital Print Order Format) has
been inserted. While the lamp is lighted, the print
setting that was selected in the DPOF supported
Digital Video Camera or Digital Still Camera will
take precedence over any other print selection.

❸ ACCESS Lamp (p.27, 28)
This lights or flashes when a PC Card is inserted
or when images are loaded or saved.

❹ PC CARD REC Button (p.41)
Press this to record images from a VIDEO IN (or
S-VIDEO IN) source onto the PC Card.

❺ INPUT SELECT (VIDEO/PC/PC CARD) Switch
(p.14, 28, 58, 62)
Used to select the VIDEO IN (or S-VIDEO IN)
Socket, Personal Computer or PC Card
depending on the input source of the images to
be printed.

❻ MENU Button (p.16, 32)
Press this to display the MENU Screen.

❼ ENTER Button (p.17, 33)
Press this mainly to execute what has been
selected in the MENU Mode.

❽ STAND BY Lamp (p.25)
This lights when the power is turned off while the
unit still remains connected to the power outlet.

❾ ⏻ / I (Power) Button (p.14, 28)
Press this to turn the unit's power on or off. When
the power is turned off, all the data stored in the
memory will be erased.

❿ ON Lamp (p.14, 28)
This lights when the ⏻ / I (Power) Button is
pressed to turn on the power.

⓫ DISPLAY/MONITOR Button (p.15, 28)
Press this to re-store an already stored image in
the memory. It is also used to switch the display
of the images on the PC Card alternately between
single screen and index screen.

⓬ MEMORY Button (p.15)
Press this to store images appearing on the TV
screen in the memory.
Pressing it again when a stored image is shaking
because the image stored was fast-moving will
stop the shaking.

⓭ PRINT Lamp (p.15, 28)
This lights when the MEMORY Button is pressed.
It flashes while printing is underway.

⓮ PRINT Button (p.15, 28)
Press this to print.

⓯ ERROR Lamp (p.15, 80)
This flashes when normal printing is no longer
possible because, for example, the paper has
jammed or the printing paper or ink has run out.
A message appears on the TV screen at this time.

⓰ CLEAR Button (p.15)
Press this to clear an image stored in the
memory, suspend multiple sheet printing, cancel
Auto Print or release a setting.

⓱ ◄, ►, ▲, ▼ Buttons (p.16, 29, 32)
Press these to select menu items or images on a
PC Card.

⓲ PC Card Slot (p.27)
This is where the PC Card is inserted.

⓳ PC Card EJECT Button (p.27)
Press this to eject the PC Card.

⓴ EDIT Socket
The System Cable (sold separately) is used to
connect this socket to the EDIT Socket of editing
devices. Some editing devices are not
compatible.

㉑ S-VIDEO IN Socket (p.10)
This is connected to the S-VIDEO OUT socket on
the video device using the S-Video Cable.
Pictures with a higher quality than those from the
VIDEO OUT Socket can be obtained.
Use of this socket is recommended if this unit is
connected to a device with an S-VIDEO OUT
Socket.

㉒ VIDEO IN Socket (p.10)
Connect this to the video output socket on the
video device using the Video Cable.

㉓ Paper Cassette Insertion Opening (p.13)
This is where the paper cassette is inserted.

㉔ Ink Cassette Eject Lever (p.13)
Push this up to remove the ink cassette.

㉕ Ink Cassette Insertion Opening (p.13)
This is where the ink cassette is inserted.

Preparations

7

Preparations (Cont.)

Controls and Components (Cont.)
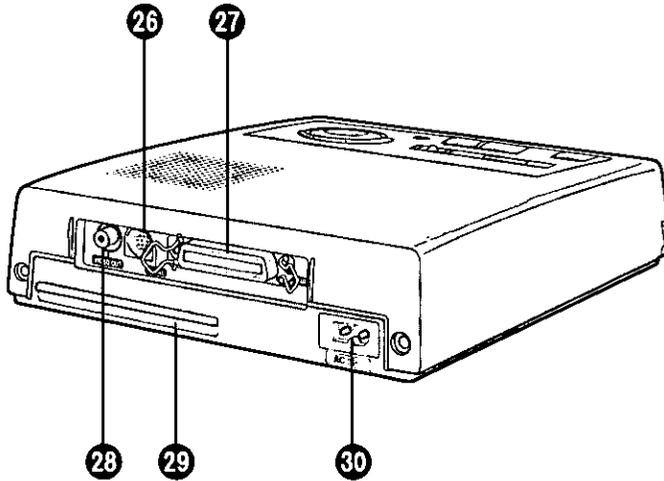
26 **SERIAL Socket** (p.69)
Use this socket to connect the PC Connection
Cable for Macintosh (supplied).

27 **PARALLEL Socket** (p.57)
Use this socket to connect the PC Connection
Cable for Windows (supplied).
The PC should have a bidirectional Parallel
Socket conforming to Centronics standards.

28 **VIDEO OUT Socket** (p.10)
Use this socket to connect the Video Cable
(supplied) from the VIDEO (IN) Socket on the
television.

29 **Paper Removal Port** (p.15)
Remove paper from here if a paper jam occurs.

30 **AC IN Socket** (p.10)
Use this socket to connect the Power Cable
(supplied) here.

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Paper That Can Be Used for Printing

The Digital Photo Printer can use the following four types of paper.
(Use Print Sets that either bear the ⊠ mark or ⊠ mark, or have been designated by Panasonic as suitable for this Digital Photo Printer.)

Overcoat Paper

The PV-MPCS25 Print Set is required.

(Sold separately: Ink Cassette and Paper [25 sheets])

● This paper can be used as a postcard if a postage stamp is affixed.

● Do not affix stamps or adhesive paper to the paper or print on it with a word processor before printing. The paper may become curled, or the stamp may come off, resulting in a paper jam or malfunction in the Photo Printer.

● Do not write on the paper before printing on it with the Photo Printer.

● When writing on a printed surface, use a permanent marker (oil-based). In this case, do not allow printed surfaces to come into contact with each other.

● Permanent markers, washable markers, pencils, and ballpoint pens can all be used to write on the back of the printed images. However, be careful not to apply too much pressure when writing on the back since this will leave marks on the printed surface.

Standard Paper

The PV-MPS50 Print Set is required.

(Sold separately: Ink Cassette and Paper [50 sheets])

● This paper can be used as a postcard if a postage stamp is affixed.

● Do not affix stamps or adhesive paper to the paper or print on it with a word processor before printing. The paper may become curled, or the stamp may come off, resulting in a paper jam or malfunction in the Photo Printer.

● Do not write on the paper before printing on it with the Photo Printer.

● When writing on a printed surface, use a permanent marker (oil-based). In this case, do not allow printed surfaces to come into contact with each other.

● Permanent markers, washable markers, pencils, and ballpoint pens can all be used to write on the back of the printed images. However, be careful not to apply too much pressure when writing on the back since this will leave marks on the printed surface.

Adhesive Back Paper

The PV-MPAS25 Print Set is required.

(Sold separately: Ink Cassette and Adhesive Back Paper [25 sheets])

● Do not peel off the adhesive before printing. This can cause a paper jam or malfunction in the Photo Printer.

● When affixing the Adhesive Back Paper to another surface (paper, glass, plastic, metal, etc.), carefully clean the surface of all dirt and foreign matter.

● When cutting the Adhesive Back Paper after printing, use a "one-sheet cutter" (available at stores) to cut the paper so the backing paper stays in place.

Sticker Paper

The PV-MPAS16 Print Set is required.

(Sold separately: Ink Cassette and 16 pre-cut Sticker Paper [25 sheets])

● Do not peel off the sticker before printing. This can cause a paper jam or malfunction in the Photo Printer.

● When affixing the Sticker Paper to another surface (paper, glass, plastic, metal, etc.), carefully clean the surface of all dirt and foreign matter.

● This paper cannot be used for wide-mode printing.

● The position of the printed image in relation to the borders of the sections of the Sticker Paper may be slightly off.

Preparations (Cont.)

Connections
(Connecting to a VCR or Camera)

Connect with the S-Video Cable if the VCR or Camera has an S-VIDEO OUT socket.
- Use of the S-Video Cable (optional accessory) enables images to be printed with an even better picture quality.
- Connecting to a VCR with an S-VIDEO OUT Socket will allow wide-screen images to be automatically printed out in wide dimensions.
  (When [AUTO] is set for "WIDE" in MENU Mode) (p.17)

Connect using a Video Cable if the VCR or Camera has no S-VIDEO OUT socket.
- To listen to sound from the VCR or Video Camera, connect the audio output from the VCR or Video Camera directly to the television AUDIO IN socket.
- If different video sources are connected simultaneously to the S-VIDEO IN Socket and the VIDEO IN Socket, the video for the S-VIDEO IN Socket takes precedence.

To VIDEO IN Socket

VIDEO OUT Socket

Video Cable (supplied)

Television (sold separately)

AC IN ~ Socket

Power Cable (supplied)

S-VIDEO IN Socket   VIDEO IN Socket

To AC Power Outlet

S-Video Cable (sold separately)

Video Cable (sold separately)

To S-VIDEO OUT Socket

To VIDEO OUT Socket
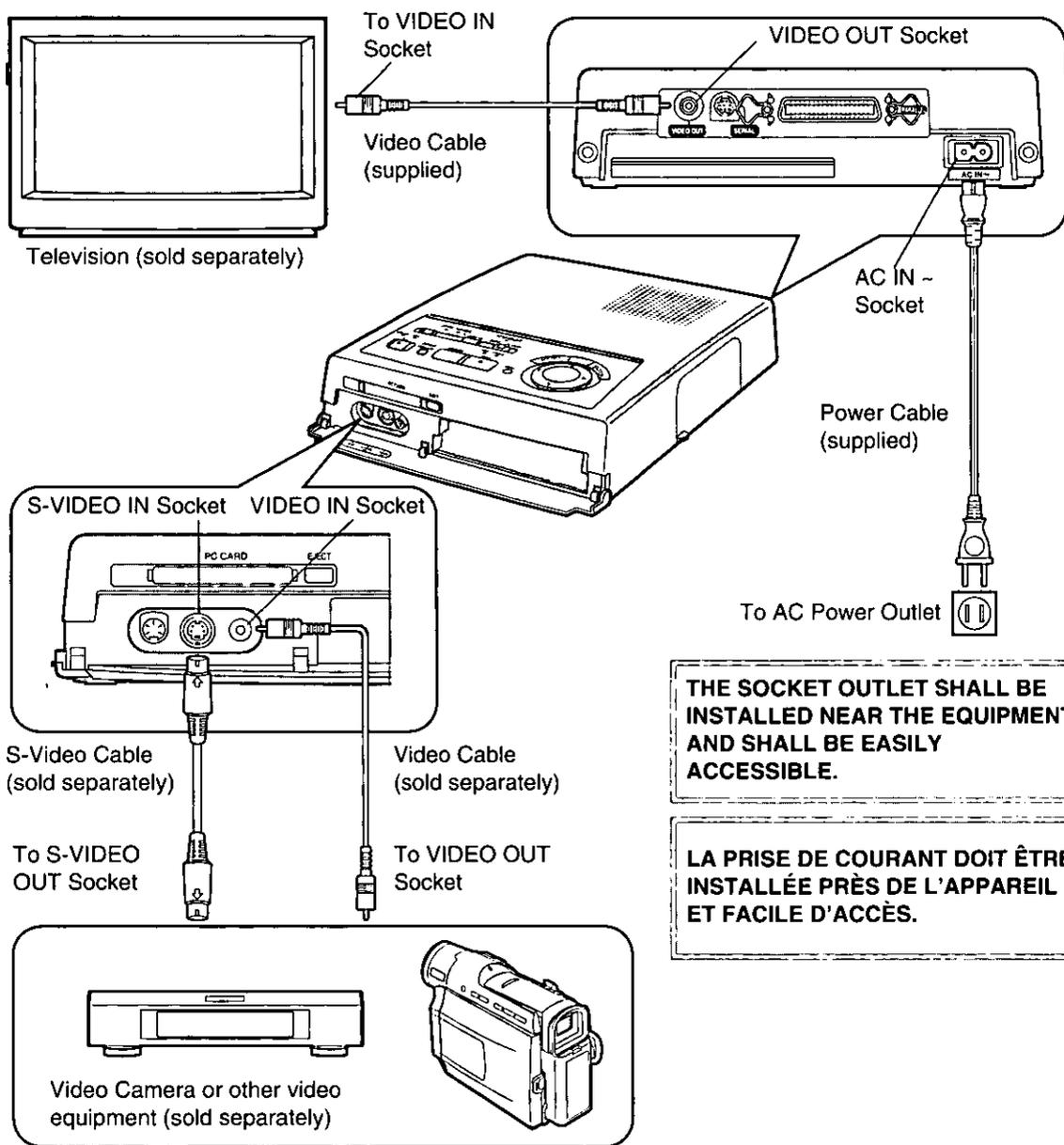
THE SOCKET OUTLET SHALL BE INSTALLED NEAR THE EQUIPMENT AND SHALL BE EASILY ACCESSIBLE.

LA PRISE DE COURANT DOIT ÊTRE INSTALLÉE PRÈS DE L'APPAREIL ET FACILE D'ACCÈS.

Video Camera or other video equipment (sold separately)

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Installation Notes:
The temperature inside this printer can become extremely hot due to the thermal sublimation transfer printing system. For this reason, the printer should be used in a well-ventilated location. Also, objects should not be placed on top of the printer.
Be sure to leave at least 10 cm behind the printer so that paper can be removed from the Paper Removal Port if a paper jam occurs.

Preparations (Cont.)

Ink Cassette
Compartment Door

Paper Cassette Slot

Ink Cassette Slot
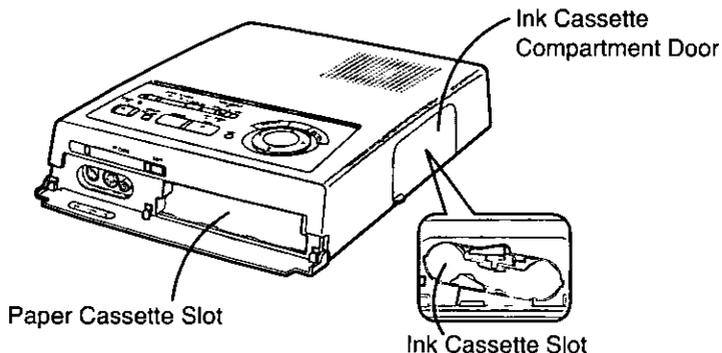
Title

Inserting the Printing Paper

1

Open the cover of the Paper Cassette (supplied).
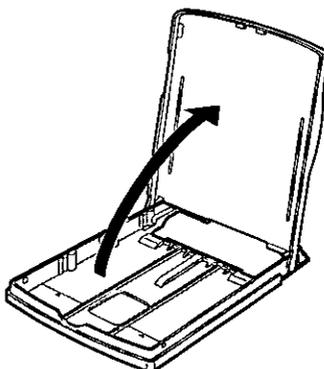
2

Place the paper under the holders with the white surface facing up.

Holders
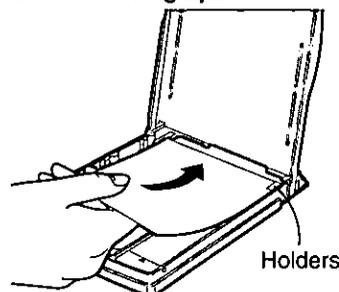
● Up to 25 sheets can be inserted.
● Insert the paper as far as it will go. Close the cover to its original position.

Title

Inserting the Ink Cassette

1

Open the Ink Cassette Compartment Door.
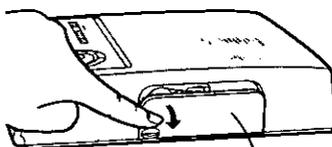
Ink Cassette Compartment Door

2

Take up any slack in the Ink Film.

Ink Film
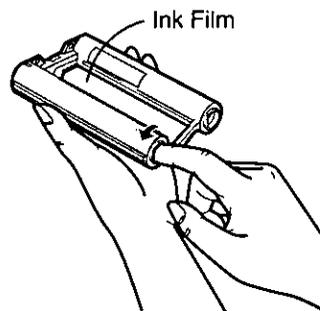
● Insert a finger in a spool and turn it in the direction indicated by the arrow.
● Ink Cassettes are included in the Print Sets. (p.9)

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Removing the Ink Cassette

Ink Cassette
Eject Lever
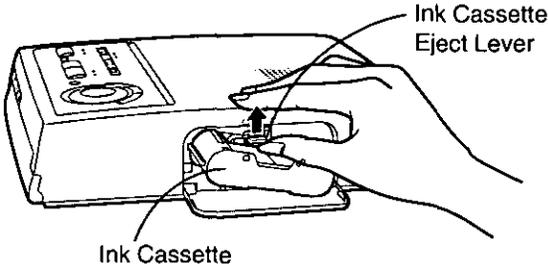
Ink Cassette

●Push up the Ink Cassette Eject Lever, and then pull the Ink Cassette straight out.
Close the ink cassette compartment door after removing the cassette.

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③
Open the front cover.
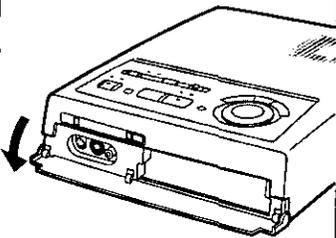
To open, pull the cover towards you where "◀PULL-OPEN" is indicated.

④
Push the Paper Cassette into the Photo Printer as far as it will go.
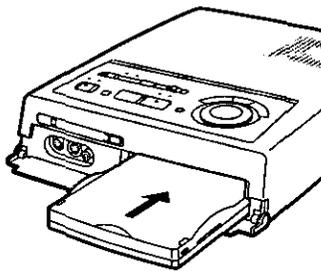
Remarks, etc.
●**Do not bend or fold the paper or place it in the cassette with the wrong side facing upward.**
●Do not soil the printing side (blank side) of the paper.
●Fan the paper before placing it in the Paper Cassette.
●The front end of the Paper Cassette Slot becomes the left side of the image to be printed.
●Do not remove the Paper Cassette while printing is in progress.
●After printing, remove the Paper Cassette and close the cover of the Paper Cassette Slot.

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③
With the recessed part facing upward, push the Ink Cassette into the Photo Printer as far as it will go.

Recessed part
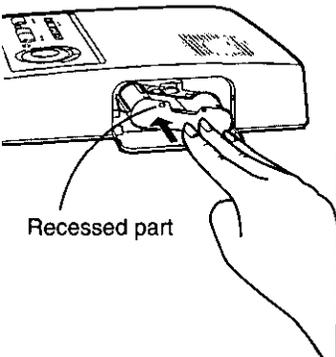
④
Close the Ink Cassette Compartment Door.
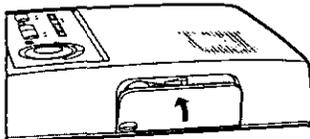
Check that the Ink Cassette has been inserted all the way before closing the Compartment Door.

Remarks, etc.
●**Do not touch the Ink Film in the Ink Cassette, and do not try to pull it out of the cassette.**
●Do not peel off the label on the Ink Cassette.
●The Ink Film refers to the wide tape that is inside the Ink Cassette.
●When all of the Ink Film in an Ink Cassette has been used up, replace the Ink Cassette with a new one. Used Ink Cassettes cannot be reused.
●For best printing results, use only the printing paper and Ink Cassette packaged together as a Print Set.

Video Input

Paper Cassette
Slot
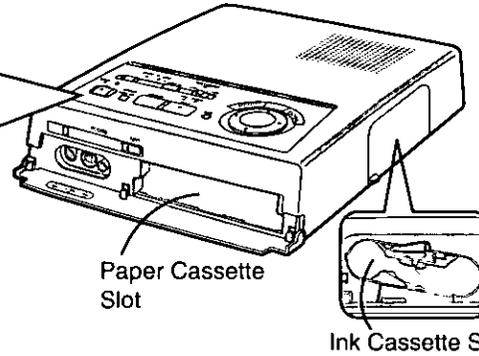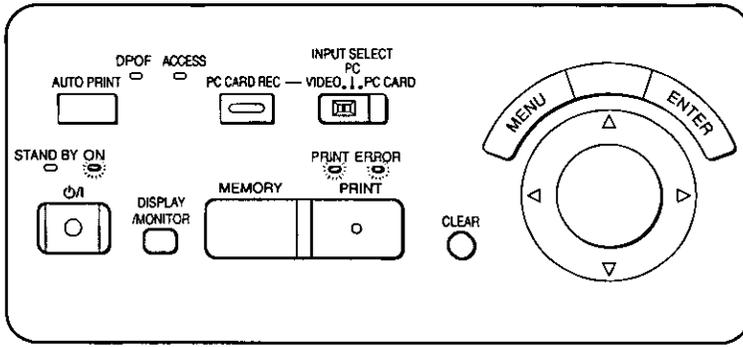
Ink Cassette S

⟨ Title ⟩

Printing from a Video Input
(Printing an image from the VIDEO IN or S-VIDEO IN socket)

- Before printing, check that an Ink Cassette has been inserted in the Ink Cassette Compartment.
- Check that paper has been placed in the Paper Cassette, then start the printing procedure.

⟨ 1 ⟩

Press the ⏻ / I (Power) Button to turn the printer on.

⏻/I

- The ON Lamp lights.

⟨ 2 ⟩

Set the INPUT SELECT Switch to "VIDEO".

INPUT SELECT
PC
VIDEO↓PC CARD

←

⟨ Reducing Blur ⟩

Use the MEMORY Button when the picture stored in memory is blurred because the subject is moving.
"FIELD" appears on the screen when it is pressed.

MEMORY

- Images stored in memory may appear blurry or horizontally warped on some televisions. This will not affect the printed image.
- The image also may appear blurry or horizontally warped when it is stored in memory or when the input screen is displayed immediately after printing.

While printing is in progress, the only buttons on the Photo Printer that function are the CLEAR Button for canceling the printing of multiple sheets and the DISPLAY/MONITOR Button.

If a Paper Jam Occurs
A **"REMOVE JAMMED PAPER"** or **"REMOVE PAPER AND PUSH [PRINT]"** error message is displayed, and the ERROR Lamp flashes. When this happens, remove the paper where it has jammed (❶ or ❷ in the figure right).

● After removing the paper, remove and re-insert the ink cassette to erase the error message. Printing will be resumed.

❶ Paper Removal Port   ❷ Print Exit (above the Paper Cassette)

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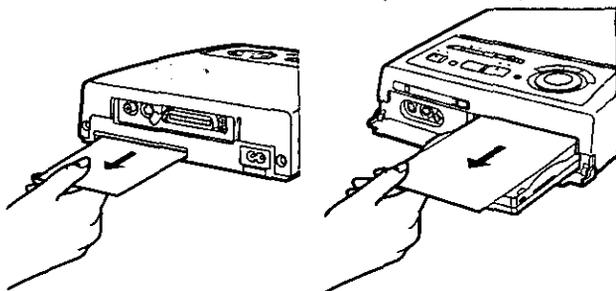
③

While watching the television screen, press the MEMORY Button at the scene that you want to print.

MEMORY
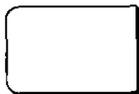
● The PRINT Lamp lights.
● To store a new scene in memory, press the DISPLAY/MONITOR Button so that the PRINT Lamp turns off. Then, press the MEMORY Button again to store a new image in memory.

Remarks, etc.

● For several seconds after the power is turned on, the MENU Button and MEMORY Button will not function even if they are pressed.

To Print the Same Image Again
After printing is finished, press the DISPLAY/MONITOR Button again so that the image displayed on the television screen is stored in the memory. Then, press the PRINT Button to print the same image again.

Printing Multiple Copies of the Same Image
Set the number of prints on the MENU Screen (up to 10 sheets). (p.16)
● The remaining sheets to be printed are shown at the top right of the television screen. This number includes the sheet being printed.
● To cancel continuous printing when two or more sheets remain, press the CLEAR Button.
● When the ink or paper has been replenished after running out during printing, printing will resume even if the PRINT Button is not pressed again.

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④

Check that the PRINT Lamp on the Photo Printer is lit, and then press the PRINT Button.
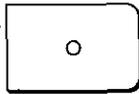
PRINT
○

● Printing starts.
● During printing, the picture that is being input from the memory appears on the television screen.
● When printing is finished, the picture that is being input from the video source appears on the television screen again.

Remarks, etc.

● When printing starts, the "– – –" display shown at the top right of the screen changes to "☆– –".
"☆– –" : Printing in progress
"☆☆–" : Printing in progress
"☆☆☆" : Printing is completed when the ☆ mark flashes and then lights up.
(The ☆ mark indicates the printing progress.)
● Progress in printing on Overcoat Paper is displayed as four different stages.
(Four stars "☆☆☆☆" are displayed when printing is completed.)
● **Do not pull the paper while it is moving during the printing operation.**
● **Do not remove the Paper Cassette while printing is in progress.**
● Do not take out the Ink Cassette while printing is in progress.
● If there is no paper in the Paper Cassette or if the paper is not inserted properly, the **"SET PAPER"** message may appear after the PRINT Button is pressed (after approx. 25 seconds). When this happens, reinsert the paper correctly.
● Printing may take more time for continuous printing of two or more sheets or when printing at high or low temperatures.
● Please note that if the paper is bent or folded, the prints may fall from the Print Exit (above the Paper Cassette).
● **To prevent paper jams, do not allow more than 10 sheets of paper to accumulate at the Print Exit.**
● A noise may be generated during printing. This is not a fault with the printer and will not affect the printed pictures.

Video Input (Cont.)

Title
Using MENU Mode

The Photo Printer settings can be selected by using the MENU Screen.

1
Press the MENU Button.
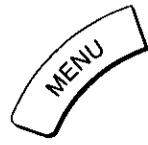
● The MENU Screen is displayed on the television screen.

2
Use the ▲ and ▼ Buttons to select the desired menu.
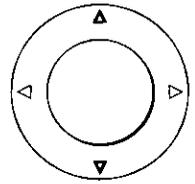
● The ☞ mark indicates the selected item.

Menu Description

❶ **PRINT** : Use the ◀▶ Buttons to set the desired number of prints (from 1 to 10).

❷ **FORMAT** : If [SET] is selected, use the ▲▼ Buttons to select each print function. (p.20-25,44,48)

❸ **TITLE** : Select [SET] to create a title. (p.50-55)

❹ **PICTURE** : If [SET] is selected, you can adjust the picture quality. (p.18)

❺ **OSD (On Screen Display)**
: Use the ◀▶ Buttons to select [ON] or [OFF] for the screen display.
● Error messages, menus, and the preset title menu are still displayed even when [OFF] is selected for OSD.
(The setting for OSD is still stored even when the INPUT SELECT Switch is set to "PC CARD").

MENU

❶   ☞ PRINT   : 1

❷   FORMAT   : [STD]   SET

❸   TITLE   : [OFF]   SET

❹   PICTURE   : [STD]   SET

❺   OSD   : [ON]   OFF

❻   WIDE   : [AUTO]   ON   OFF

[◄►]CHANGE

[▲▼]SELECT   [ENTER]END

---

③

Use the ◄ and ► Buttons to select the desired setting.

●The selected setting is indicated by brackets [ ].

---

④

Press the ENTER Button to complete the setting.

●The MENU Screen disappears from the television screen.

Remarks, etc.

●**The ▲▼ ◄► Buttons, ENTER Button, and ⏻/I (Power) Button are the only buttons that function while the MENU Screen is displayed.**

●Once you set "PICTURE", [ADJ] is displayed on the MENU Screen. The previous settings are maintained in memory until you select [SET] to implement the new settings.

●The stored settings are erased when the power is turned off or the power cable is unplugged.

●If the letters are blurred and difficult to read when the MENU Screen is displayed, go to the memory screen and then return to the MENU Screen to select the settings.

---

❻ WIDE

[AUTO] :The wide video signal from the S-VIDEO IN socket is automatically identified and printed in wide dimensions (62 × 107 mm).

[ON] :All pictures are printed in wide dimensions.

[OFF] :All images, including wide images, are printed in normal dimensions.

Wide Images

●When normal-sized images are to be printed in the wide mode, the printed images will appear slightly reduced in size vertically.
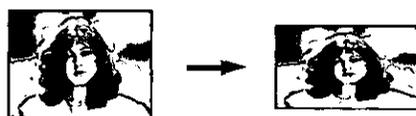
●When wide images are printed as normal-sized images, the printed picture is stretched vertically.
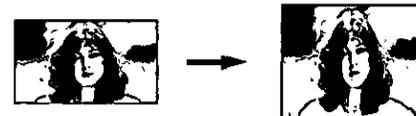
●Wide images can be automatically identified only when the Photo Printer and the video device are connected with an S-Video Cable.

17

Video Input (Cont.)
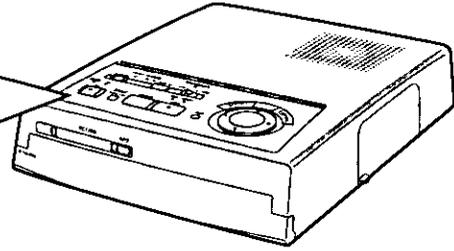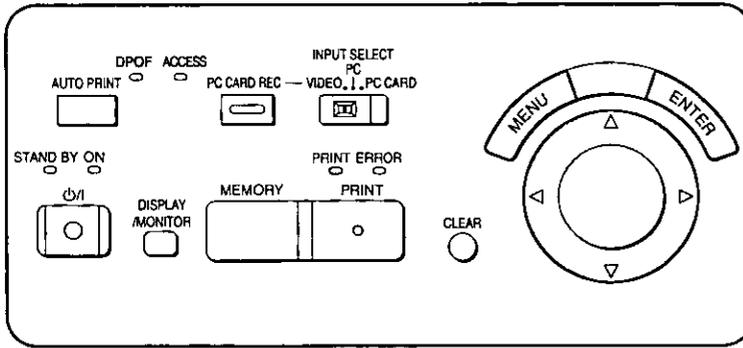
For Optimum Printing Results
(PICTURE)

The picture quality can be adjusted before or after the images are stored in the memory.

1
Press the MENU Button.
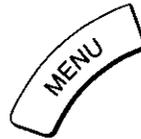

```
              MENU
☞ PRINT      : 1
  FORMAT     : [STD]      SET
  TITLE      : [OFF]      SET
  PICTURE    : [STD]      SET
  OSD        : [ON]       OFF
  WIDE       : [AUTO]  ON  OFF

  [◄►]CHANGE
  [♦]SELECT      [ENTER]END
```

2
Use the ▼ Button to select "PICTURE".
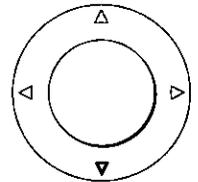

```
              MENU
  PRINT      : 1
  FORMAT     : [STD]      SET
  TITLE      : [OFF]      SET
☞ PICTURE    : [STD]      SET
  OSD        : [ON]       OFF
  WIDE       : [AUTO]  ON  OFF

  [◄♦►]SELECT    [ENTER]END
```

5
Use the ◄► Buttons to adjust the level.
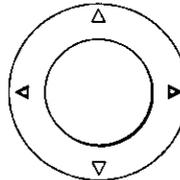

```
  COLOR      +2
  –                            +
  -----------|-------

  [◄►]ADJUST
  [♦]SELECT      [ENTER]END
```

6
Press the ENTER Button.

Picture Quality Adjustment Procedure

1. Set "PICTURE" to [STD] in MENU Mode, and then print an image with contrasting bright and dark areas.
2. In television picture quality adjustment, adjust the television screen to nearly the same color as the printed picture.
3. At "PICTURE" in MENU Mode, adjust the television screen to the desired color balance.
   Printing after making these adjustments will produce a print with almost exactly the same colors as the screen.

---

③

Use the ▶ Button to select [SET].
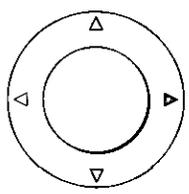
MENU		
PRINT	: 1	
FORMAT	: [STD]	SET
TITLE	: [OFF]	SET
☞ PICTURE	: STD	[SET]
OSD	: [ON]	OFF
WIDE	: [AUTO]	ON OFF

[◀ ♦ ▶]SELECT   [ENTER]END

④

Use the ▲▼ Buttons to select the picture quality item that you want to adjust.

● See the adjustment items below.
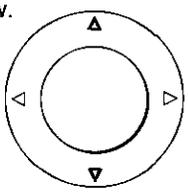
COLOR   0

− ---------|-------- +

[◀▶]ADJUST
[♦]SELECT   [ENTER]END

Remarks, etc.

● For PC Card input, follow the same procedure shown on the left.
● If it is necessary to re-adjust the picture quality, start from Step 1.
● Adjusting SHARPNESS has no effect on television picture quality.
● Images are stored in the PC Card without the setting adjustments made to the picture quality.

Returning an adjusted item to the standard setting
Select [STD] in Step 3.

Hints for Use
When using video input, one of the most important factors in printing images of high quality is skillful Video Camera work.
When printing, it is recommended that you use the S-VIDEO IN Socket for best results.
When shooting a scene from a Video Camera, keep the following points in mind.
● If at all possible, shoot with the light source at your back.
● When shooting a scene outdoors that includes motion, either put the Video Camera into "sports mode" or, if the camera is equipped with an electronic shutter function, set it to about 1/500. Doing so will allow you to print images with less blurring.
● When shooting indoors, make sure that there is enough light.

Picture Quality Adjustment Items

```
 ┌→COLOR←→TINT←→BRIGHTNESS←┐
 └→SHARPNESS←────→CONTRAST←┘
```

The adjustments shown above change in the following order.

COLOR: This setting lets you adjust to the desired color intensity.
TINT: This setting lets you reproduce colors with the correct balance.
BRIGHTNESS: This setting lets dark parts become more visible.
CONTRAST: This setting lets you adjust the difference between the light and dark parts of the picture.
SHARPNESS: This setting lets you adjust the contours.

● The COLOR, TINT, BRIGHTNESS, and CONTRAST settings can be adjusted from −9 to +9 using the ◀▶ Buttons.
● The level of SHARPNESS can be set to L (Low), M (Medium), or H (High) using the ◀▶ Buttons.
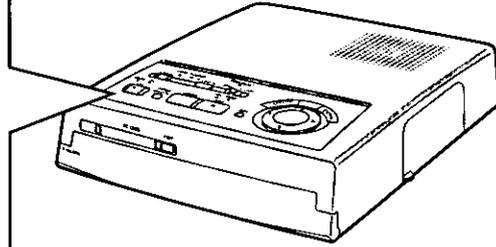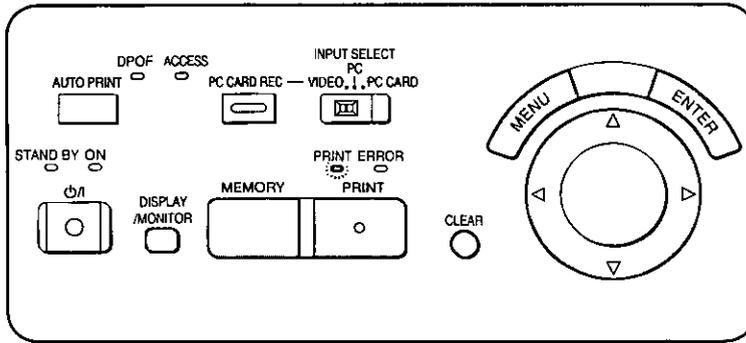
19

Video Input (Cont.)

Title

Printing a Series of Different Pictures on the Same Print
(ALBUM)

This printing function allows you to divide the screen into 4, 9, or 16 mini-frames containing different pictures, and then print them all together on the same print.
- This feature is useful for printing a variety of scenes from an event on a single print.
- When using the Sticker Paper PV-MPAS16 (sold separately), select ALBUM: [16] in Step 4.

1
Press the MENU Button, then use the ▼ Button to select "FORMAT".


```
                MENU
    PRINT    : 1
☞ FORMAT   : [STD]      SET
    TITLE    : [OFF]      SET
    PICTURE  : [STD]      SET
    OSD      : [ON]       OFF
    WIDE     : [AUTO]  ON  OFF

[◄♦►]SELECT    [ENTER]END
```

2
Use the ► Button to select [SET].


```
                MENU
    PRINT    : 1
☞ FORMAT   : STD       [SET]
    TITLE    : [OFF]      SET
    PICTURE  : [STD]      SET
    OSD      : [ON]       OFF
    WIDE     : [AUTO]  ON  OFF

[◄♦►]SELECT    [ENTER]END
```

5
Press the ENTER Button.


```
ALBUM 4
```

6
Press the MEMORY Button.

MEMORY

- After the image stored in memory is displayed for about one second, the display returns to the input screen.

③

Use the ▼ Button to select "ALBUM".

```
        △
◁  (        )  ▷
        ▽
```

```
┌──────────────────────┐
│       FORMAT          │
│ STD                   │
│☞ALBUM    :[4]  9   16 │
│ MULTI                 │
│ ZOOM                  │
│ PINP                  │
│ CALENDAR              │
│ STROBE                │
│ [◄ ♦ ►]SELECT  [ENTER]OK │
└──────────────────────┘
```

④

Use the ◄► Buttons to select the desired number of mini-frames.

```
        △
◁  (        )  ▷
        ▽
```

```
┌──────────────────────┐
│       FORMAT          │
│ STD                   │
│☞ALBUM    :[4]  9   16 │
│ MULTI                 │
│ ZOOM                  │
│ PINP                  │
│ CALENDAR              │
│ STROBE                │
│ [◄ ♦ ►]SELECT  [ENTER]OK │
└──────────────────────┘
```
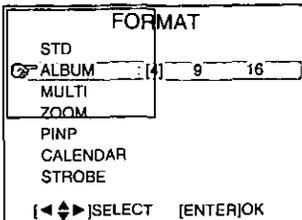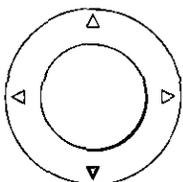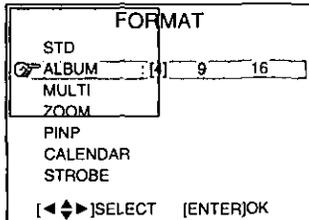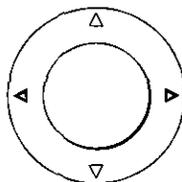
⑦

Repeat step 6, and after storing the number of images which fill up the screen, check that the PRINT Lamp is lit up.

●If the entire ALBUM Screen is not stored in memory, press the DISPLAY/MONITOR Button to light up the PRINT Lamp.

⑧

Then press the PRINT Button.
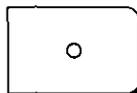
```
   PRINT
┌─────────┐
│    ○    │
└─────────┘
```

●Printing starts.

Remarks, etc.

To Erase Stored Pictures
Press the CLEAR Button when the PRINT Lamp is lit. One frame is erased each time the CLEAR Button is pressed.
(To store new pictures to replace the erased ones, press the DISPLAY/MONITOR Button so that the PRINT Lamp turns off, then press the MEMORY Button.)

Storing Pictures Again after All the Pictures Are Stored
Press the DISPLAY/MONITOR Button so that the PRINT Lamp turns off, then press the MEMORY Button. (See Step 6)

To Abort the Setting Process
Press the CLEAR Button twice when the PRINT Lamp is turned off.

Hints for Use
●If you press the DISPLAY/MONITOR Button again after printing is complete, the display returns to the memory screen, allowing you to print the same pictures again.
●To allow printing without the entire ALBUM Screen stored in memory, press the DISPLAY/MONITOR Button to light up the PRINT Lamp. The ALBUM Screen will be printed with white spaces where no image was saved. [In this case, the pictures are still stored in memory starting from the upper left corner. There is no editing process that will allow images to be printed between blank (white) images.]

21

Video Input (Cont.)

Title

Printing the Same Picture Repeatedly on the Same Print
(MULTI)

This feature allows you to divide the paper into 4, 9, or 16 mini-frames, and then print the same stored image, reduced in size, in each mini-frame.

- This feature is useful for printing head portraits for business cards when using the Print Sets for Sticker Paper.
- When using the Sticker Paper PV-MPAS16 (sold separately), select MULTI: [16] in Step 4.

1
Press the MENU Button, then use the ▼ Button to select "FORMAT".


```
                MENU
    PRINT     : 1
☞ FORMAT  : [STD]          SET
    TITLE     : [OFF]          SET
    PICTURE : [STD]          SET
    OSD       : [ON]           OFF
    WIDE      : [AUTO]   ON   OFF

[◄♦►]SELECT     [ENTER]END
```

2
Use the ► Button to select [SET].


```
                MENU
    PRINT     : 1
☞ FORMAT  : STD          [SET]
    TITLE     : [OFF]          SET
    PICTURE : [STD]          SET
    OSD       : [ON]           OFF
    WIDE      : [AUTO]   ON   OFF

[◄♦►]SELECT     [ENTER]END
```
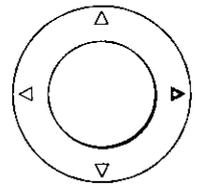
5
Press the ENTER Button.

MULTI 4

6
Press the MEMORY Button.
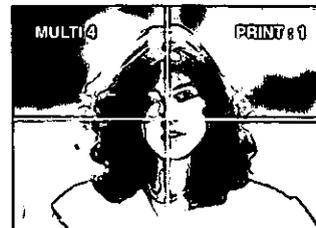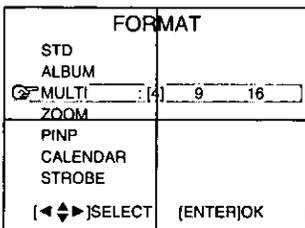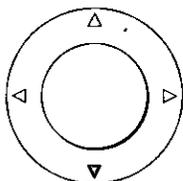
MEMORY

MULTI4   PRINT : 1

3

Use the ▼ Button to select "MULTI".

```
        △
    ◁   ○   ▷
        ▽
```

FORMAT		
STD		
ALBUM		
☞MULTI	: [4] 9 16	
ZOOM		
PINP		
CALENDAR		
STROBE		
[◀ ♦ ▶]SELECT	[ENTER]OK	

4

Use the ◀▶ Buttons to select the desired number of mini-frames.

```
        △
    ◁   ○   ▷
        ▽
```

FORMAT		
STD		
ALBUM		
☞MULTI	: [4] 9 16	
ZOOM		
PINP		
CALENDAR		
STROBE		
[◀ ♦ ▶]SELECT	[ENTER]OK	
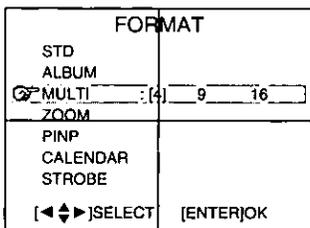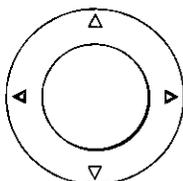
Remarks, etc.

To Erase Stored Pictures
Press the DISPLAY/MONITOR Button when the PRINT Lamp is lit.
(To store new pictures to replace the erased pictures, press the DISPLAY/MONITOR Button so that the PRINT Lamp turns off, then press the MEMORY Button.)

To Abort the Setting Process
Press the CLEAR Button once when the PRINT Lamp is turned off.

Hints for Use
- If you press the DISPLAY/MONITOR Button again after printing is complete, the display returns to the memory screen, allowing you to print the same pictures again.
- It is also possible to store the image that you want to print in memory first, and then select the "MULTI" printing settings on the MENU Screen.

7

Press the PRINT Button.

```
      PRINT
    ┌───────┐
    │   ○   │
    └───────┘
```

- Printing starts.

23
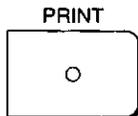
Video Input (Cont.)
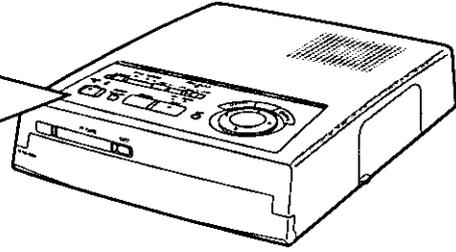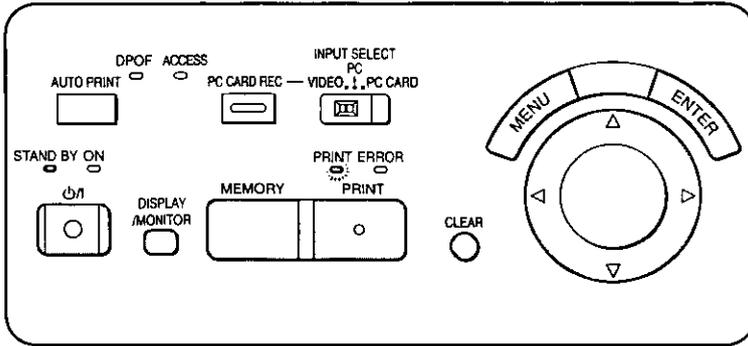
Title
Printing a Sequence of Pictures on the Same Print
(STROBE)
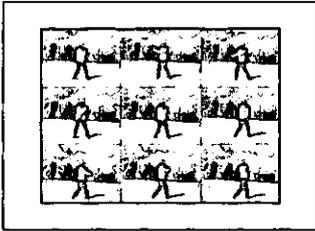
This feature allows the screen to be divided into 9 sub-pictures and a series of motions lasting about 2 seconds to be printed as a sequence of freeze-frames on a single sheet of paper.

1
Press the MENU Button, then use the ▼ Button to select "FORMAT".
Use the ► Button to select [SET].
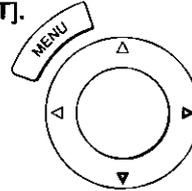

```
             MENU
   PRINT    : 1
☞ FORMAT   : STD          [SET]
   TITLE   : [OFF]          SET
   PICTURE : [STD]          SET
   OSD     : [ON]           OFF
   WIDE    : [AUTO]  ON     OFF

[◄♦►]SELECT     [ENTER]END
```

2
Use the ▼ Button to select "STROBE", then press the ENTER Button.
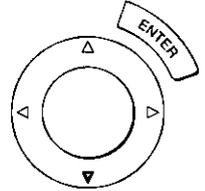

```
             FORMAT
   STD
   ALBUM
   MULTI
   ZOOM
   PINP
   CALENDAR
☞ STROBE

[♦]SELECT     [ENTER]OK
```

Title
After Printing

1
Remove the printed paper.
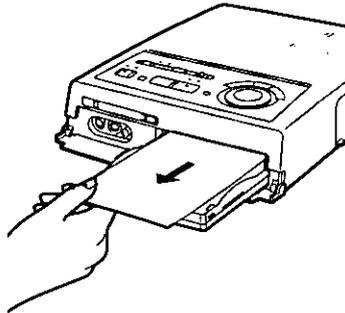
2
Take out the Paper Cassette.

24
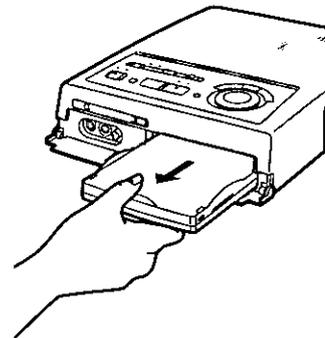
③
Press the MEMORY Button where you want the desired freeze-frames to start.

MEMORY

☐

● The screen goes blank while these frames are being stored in memory.

STROBE

NOW MEMORIZING
---

④
Press the PRINT Button.
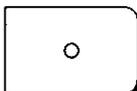
PRINT

○

● Printing starts.

Remarks, etc.
To Erase Stored Pictures
Press the CLEAR Button when the PRINT Lamp is lit. One frame is erased each time the CLEAR Button is pressed. (To store new pictures to replace the erased ones, press the DISPLAY/MONITOR Button so that the PRINT Lamp turns off, then press the MEMORY Button.)
To Resume Storing Pictures Again
Press the DISPLAY/MONITOR Button so that the PRINT Lamp turns off, then press the MEMORY Button.
To Abort the Setting Process
Press the CLEAR Button twice when the PRINT Lamp is turned off.
Hint for Use
● If you press the DISPLAY/MONITOR Button again after printing is complete, the display returns to the memory screen, allowing you to print the same pictures again.

③
Close the front cover.

④
Turn the printer off by pressing the ⏻ /l (Power) Button.

⏻/l

☐ ○
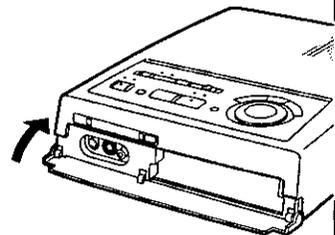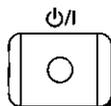
● The STAND BY Lamp lights.

Remarks, etc.
● Also remove the Ink Cassette. (p.13)
● If the printer contains a used-up Ink Cassette and an attempt is made to turn the power off several seconds after turning it on, the power may not turn off immediately. (The power can be turned off once the **"NO INK"** message is displayed on the screen.)

25
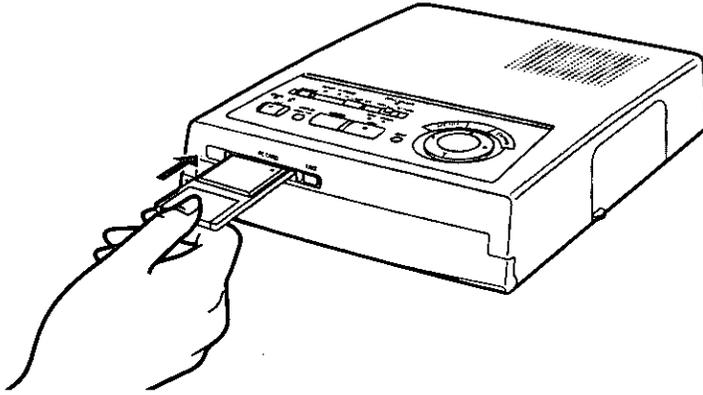
PC Card Input

Title

Inserting a PC Card

When printing from the PC Card, first insert the PC Card in the main unit.
This feature allows you to insert a PC Card, CF Card or Smart Media into the PC Card Slot, and then print images from the card.

● The PC Card can be inserted into the PC Card Slot without any adapters.
To insert a CF Card into the unit, first attach the PC Card Adapter (supplied).
A separate adapter (available at stores) is required for a Smart Media.

1 Using CF Card

Attach the CF (CompactFlash) Card containing image data to a PC Card Adapter (supplied).
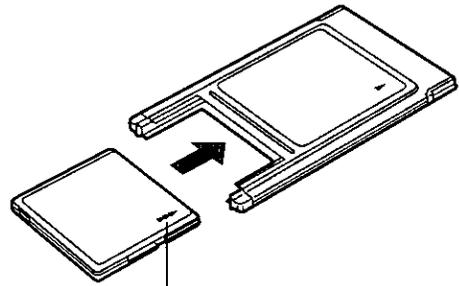
Insert the CF Card in the direction of the ▲ mark as shown in the figure. Insert the CF Card all the way into the PC Card Adapter.

1 Using Smart Media

Attach the Smart Media containing image data to a PC Card Adapter (available at stores).
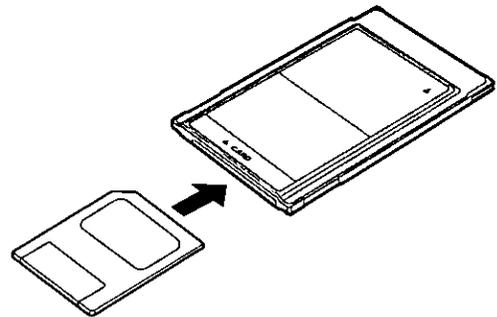
Follow the adapter instructions for attaching the Smart Media.

Removing the PC Card
Press the EJECT Button.

EJECT
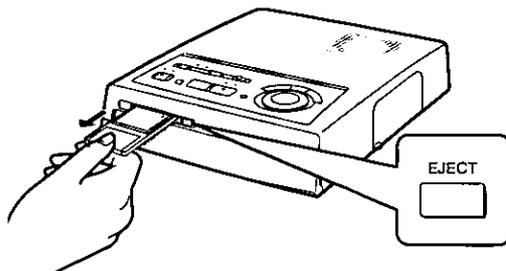
●The card comes out.

2
Insert into PC Card Slot.
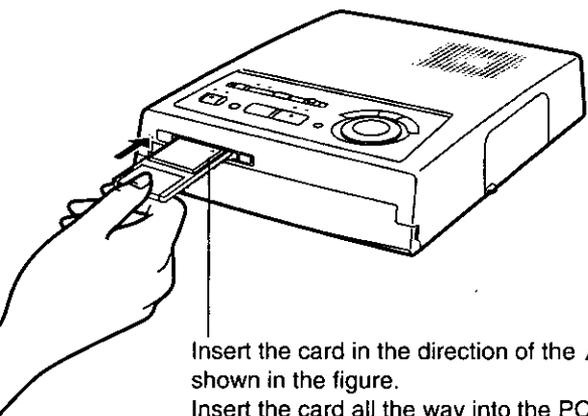
Insert the card in the direction of the ▲ mark as shown in the figure.
Insert the card all the way into the PC Card Slot.

WARNING
Never pull out or insert the card while the ACCESS Lamp is lit up. This could damage the format of the card and make it unusable.

ACCESS
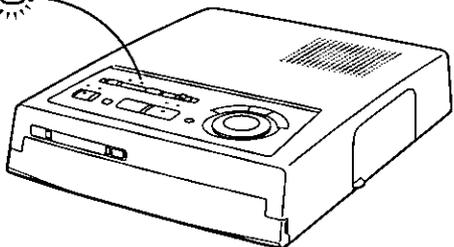
Remarks, etc.
●Be careful not to insert the card in the wrong direction.
●PC Card Adapters (available at stores) include a Smart Media type and CF Card type. Choose the correct one for the card you are using. With a CF Card, use the PC Card Adapter which is a supplied accessory.
●The Smart Media is removed from the adapter by pressing the button on the adapter.
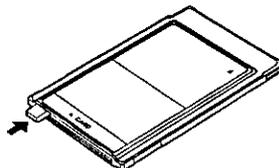
●Do not remove the Smart Media while the adapter is still inserted into the PC Card Slot.
●The card image formats supported are the JPEG baseline system (JFIF, EXIF, DCF [Design rules for Camera File system], CIFF, SISRIF) and TIFF (Baseline TIFF Rev6.0 RGB Full Color Images) standard.

PC Card Input

PC Card Input (Cont.)
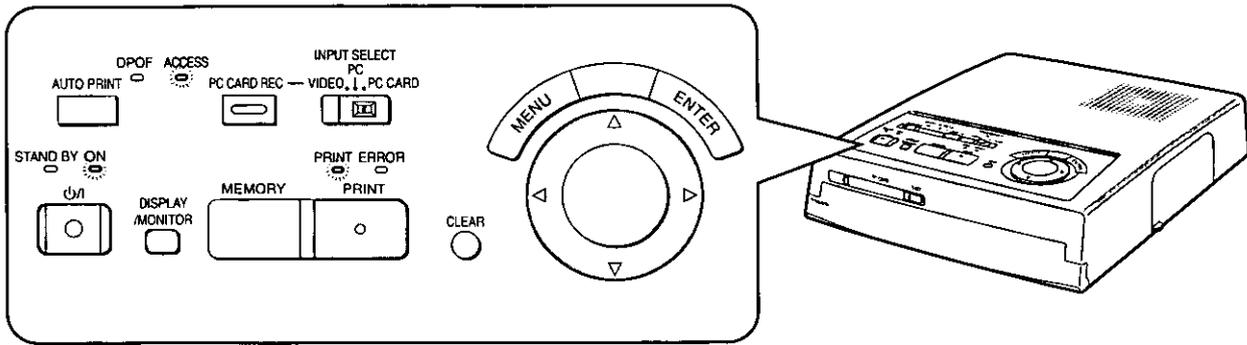
Title

Printing from a PC Card
(Printing images from a PC Card)

The images stored in the PC Card are displayed as an Index (16 images per screen). This makes it easy to select the image to be printed.
- Insert the PC Card into the Digital Photo Printer before starting the procedure.
- Before printing, check that an Ink Cassette has been inserted into the Ink Cassette Compartment.
- Check that paper has been placed in the Paper Cassette, then start the printing procedure.

The only button that will function while printing is in progress is the CLEAR Button, which is used to stop printing when a multiple number of sheets are being printed.

1
Press the ⏻ / I (Power) Button to turn the printer on.

⏻/I

- The ON Lamp lights up.

4
Press the PRINT Button.

PRINT

- The PRINT Lamp blinks when printing starts.
- When printing is finished, a Full Screen Display is shown on the screen.

2
Set the INPUT SELECT Switch to "PC CARD".

INPUT SELECT
PC
VIDEO.↓.PC CARD

- The ACCESS Lamp lights up and the data in the card is read.
- The images stored in the card are shown on an Index Display (16 images per screen).

5
Press the DISPLAY/MONITOR Button to return to the Index.

DISPLAY /MONITOR

28

After Printing

1. Remove the printed paper.
2. Remove the Paper Cassette.
3. Close the front cover.
4. Turn the printer off by pressing the ⏻ /I (Power) Button.

○The STAND BY Lamp lights up.
○Also be sure to remove the PC Card. (p.27)
○If the printer contains a used-up Ink Cassette and an attempt is made to turn the power off several seconds after turning it on, the power may not turn off immediately.
(The power can be turned off once the **"NO INK"** message is displayed on the screen.)

---

③

Use the ◀▶▲▼ Buttons to select the image to be printed.

```
STD
[◀♦▶]SELECT IMAGE
[MEMORY]SET/CANCEL
```
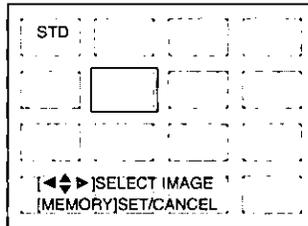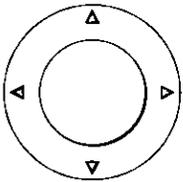
●The blue frame moves each time one of these buttons is pressed.
●When more than 16 images are recorded, you can go to the next Index Display by pressing the ▼▶ Buttons several times.
●The operations do not function while the images are being displayed.

Switching the Television Picture from Index Display to Full Screen Display and Printing

1. Press the DISPLAY/MONITOR Button.

DISPLAY
/MONITOR

2. Use the ◀▶ Buttons to select the image to be printed.

```
STD                    PRINT:1



IMAGE NO.000
[◀▶]SELECT IMAGE
```
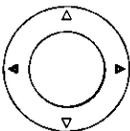
3. Press the PRINT Button.

PRINT

○
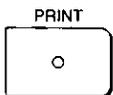
Remarks, etc.

●Some images stored in the PC Card may be output to the television screen at a slow rate depending on the image.
One image takes about 5 to 30 seconds to be displayed on the screen. (An Index Display takes about 5 to 30 seconds × 16 images.)
Also, when the DISPLAY/MONITOR Button is used to change between the Full Screen Display and the Index Display, about 5 to 30 seconds are required for each image to be output.
The menu operations do not function when the picture image is being output.
●If the image is not displayed properly, remove the card and reinsert it, then try to display the image again.
●When printing starts, the "– – –" display shown at the top right of the screen changes to "☆– –".
"☆– –" : Printing in progress
"☆☆–" : Printing in progress
"☆☆☆" : Printing is completed when the ☆ mark flashes and then lights up.
(The ☆ mark indicates the printing progress.)
●Progress in printing on Overcoat Paper is displayed as four different stages.
(Four stars "☆☆☆☆" are displayed when printing is completed.)
●**Do not pull the paper while it is moving during the printing operation.**
●**To prevent paper jams, do not allow more than 10 sheets of paper to accumulate at the Print Exit.**
●While printing is in progress, do not remove the Paper Cassette or take out the Ink Cassette.
●Images on the PC Card may be surrounded by a white border on the display, but this will not affect printing.
●A noise may be generated during printing. This is not a fault with the printer and will not affect the printed pictures.

PC Card Input

PC Card Input (Cont.)
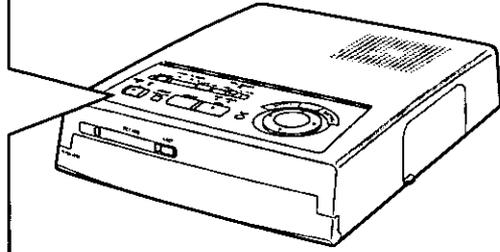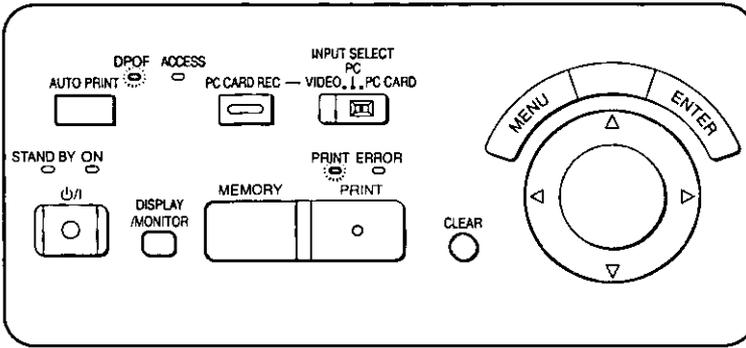
Title
Printing Multiple Images at Once from a PC Card
(Batch print)

This feature allows multiple images selected from the PC Card to be automatically printed.
- When a card from a DPOF supported Digital Video Camera or Digital Still Camera is inserted into the printer, printing automatically be started by simply pressing the AUTO PRINT Button.

DPOF

"DPOF" is short for Digital Print Order Format. This format enables printed information, which the DPOF-compatible systems of lab printing services, etc. of the future will be able to use, to be added to the images stored in the card's memory by a Digital Still Camera or Digital Video Camera. While the DPOF Lamp is lighted, the setting for printing using DPOF takes precedence.

1
If a Full Screen Display is shown, press the DISPLAY/MONITOR Button to display the Index.
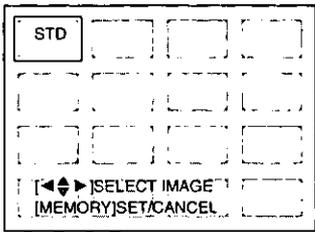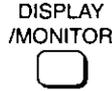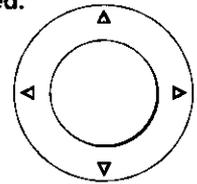
DISPLAY
/MONITOR

2
Use the ◄► ▲▼ Buttons to select the image to be printed.

- When more than 16 images are recorded, you can go to the next Index Display by pressing the ▼► Buttons several times.
- You can return to the previous Index Display by pressing the ◄▲ Buttons several times.

③
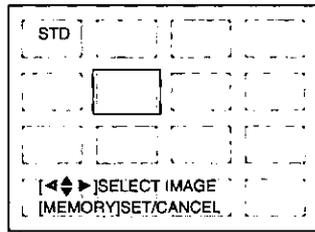
Press the MEMORY Button.

- The image is marked with a ○ mark.
- Pressing the MEMORY Button again will erase the ○ mark.
- Repeat Steps 2 and 3 to select a number of images.

```
┌─────┐┌────┐┌────┐┌────┐
│ STD ││    ││    ││    │
└─────┘└────┘└────┘└────┘
┌─────┐┌────┐┌────┐┌────┐
│     ││  ○ ││    ││    │
└─────┘└────┘└────┘└────┘
┌─────┐┌────┐┌────┐┌────┐
│     ││    ││  ○ ││    │
└─────┘└────┘└────┘└────┘
[◄♦►]SELECT IMAGE
[MEMORY]SET/CANCEL
```
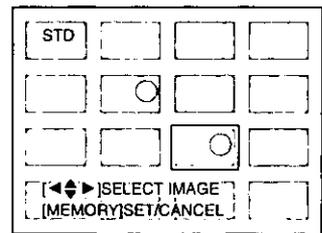
④

Press the AUTO PRINT Button.

AUTO PRINT
```
┌────────┐
│        │
└────────┘
```

- The PRINT Lamp blinks when printing starts.

```
┌──────────────────────┐
│ STD        PRINT ⊟ 1 │
│            ☆ ⊙ ⊙     │
│                      │
│                      │
│                      │
│ NOW AUTO PRINTING    │
│ [CLEAR]CANCEL        │
└──────────────────────┘
```

Remarks, etc.

- The images are printed in the order they were selected in Steps 2 and 3.
- When printing is finished, the ○ mark is erased, and the memory is reset.
- After storing images in memory, turning off the power will clear the memory.
- When the ink or paper has run out in the course of printing multiple images, multiple image printing will continue after the ink or paper has been replenished without the need to press the AUTO PRINT Button again.
- In the DPOF print setting, a maximum of 99 sheets only can be printed even if 100 or more sheets are set.
- When batch printing, it is not possible to enter the date on the images when printing from a PC Card on which the date was not recorded by a digital camera or other equipment that supports DPOF.

To Print All the Images Recorded in the Card
Press the AUTO PRINT Button.
(Steps 1, 2, and 3 are not necessary.)

To Abort Printing
Press the CLEAR Button.
- Although the image being printed will not stop, the remaining images to be printed will be cancelled.
- The **"NOW AUTO PRINTING [CLEAR] CANCEL"** message will not disappear from the screen immediately when the CLEAR Button is pressed while printing is in progress.

Inserting a card with the print settings established by a camera supporting DPOF and printing the images on the card

1. **Insert the PC Card with the DPOF settings into the unit.**

2. **When the Full Screen Display has appeared, press the DISPLAY/MONITOR Button to switch to the Index Display, and check the print images.**

   DISPLAY
   /MONITOR
   ```
   ○
   ```

```
┌─────┐┌────┐┌────┐┌────┐
│ STD ││    ││    ││    │
└─────┘└────┘└────┘└────┘
┌─────┐┌────┐┌────┐┌────┐
│     ││    ││ ○  ││    │
└─────┘└────┘└────┘└────┘
┌─────┐┌────┐┌────┐┌────┐
│     ││ ○  ││    ││    │
└─────┘└────┘└────┘└────┘
[◄♦►]SELECT IMAGE
[MEMORY]SET/CANCEL
```
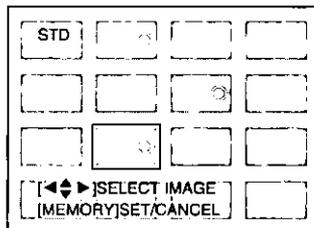
- Each image selected for printing is indicated by a ○ mark.

3. **Press the AUTO PRINT Button.**

   AUTO PRINT
   ```
   ┌────────┐
   │        │
   └────────┘
   ```

PC Card Input

PC Card Input (Cont.)

Using CARD MENU Mode

The settings for the functions in the Photo Printer are made at the CARD MENU Screen.

1

Press the MENU Button.
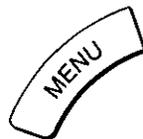
- The CARD MENU Screen is displayed on the television screen.

2

Use the ▲ and ▼ Buttons to select the desired menu.
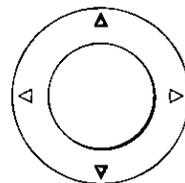
- The ☞ mark indicates the selected item.

CARD Menu Description

❶ PRINT   :Use the ◄► Buttons to set the desired number of prints (from 1 to 10).

❷ FORMAT : If [SET] is selected, use the ▲▼ Buttons to select each print function. (p.34-37,45,46,48)

❸ TITLE   : Select [SET] to create a title. (p.50-55)

❹ PICTURE : If [SET] is selected, you can adjust the picture quality.
- The setting procedure is identical to the procedure for Video Input. (p.18)

❺ OSD (On Screen Display)
- : Use the ◄► Buttons to select [ON] or [OFF] for the screen display.
- Error messages, menus, and the preset title menu are still displayed even when [OFF] is selected for OSD.

CARD MENU

☞ PRINT	: 1	
FORMAT	: [STD]	SET
TITLE	: [OFF]	SET
PICTURE	: [STD]	SET
OSD	: [ON]	OFF
DATE	: [ON]	OFF
CARD	: [OFF]	SET

[◄►]CHANGE
[♦]SELECT   [ENTER]END
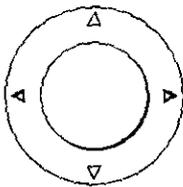
3

Use the ◄ and ► Buttons to select the desired setting.

●The selected setting is indicated by brackets [ ].

4

Press the ENTER Button to complete the setting.

●The CARD MENU Screen disappears from the television screen.

Remarks, etc.

●The ◄►▲▼ Buttons, ENTER Button, and ⏻/I (Power) Button are the only buttons that function while the CARD MENU Screen is displayed.
●The menu operations do not function when the picture image is being output. Operation can be performed once the complete picture appears.
●Once you set "PICTURE," [ADJ] is displayed on the CARD MENU Screen. The previous settings are maintained in memory until you select [SET] to implement the new settings.
●The stored settings are erased when the power is turned off or the power cable is unplugged.

(The setting for OSD is still stored even when the INPUT SELECT Switch is set to "VIDEO".)

⑥ DATE : Only those images which have been recorded with dates can be printed with the dates. (p.38)

⑦ CARD : Images can be deleted, printed by searching their dates or printed after trimming, and image indexes can be printed. (p.38-43)

PC Card Input
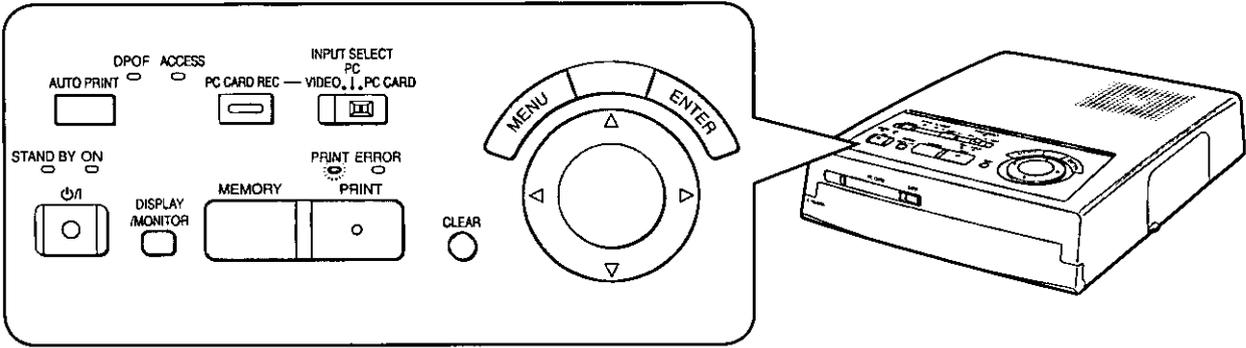
PC Card Input (Cont.)

Title

Printing a Series of Different Pictures on the Same Print
(ALBUM)

This printing function allows you to divide the screen into 4, 9, or 16 mini-frames containing different pictures, and then print them all together on the same print.
- This feature is useful for printing a variety of scenes from a vacation on a single print.
- When using the Sticker Paper PV-MPAS16 (sold separately), select ALBUM: [16] in Step 3.

1

Press the MENU Button, then use the ▼ Button to select "FORMAT".


```
           CARD MENU
   PRINT    : 1
☞ FORMAT   : [STD]        SET
   TITLE    : [OFF]        SET
   PICTURE  : [STD]        SET
   OSD      : [ON]         OFF
   DATE     : [ON]         OFF
   CARD     : [OFF]        SET

   [◄♦►]SELECT      [ENTER]END
```

2

Use the ► Button to select [SET].


```
           CARD MENU
   PRINT    : 1
☞ FORMAT   : STD         [SET]
   TITLE    : [OFF]        SET
   PICTURE  : [STD]        SET
   OSD      : [ON]         OFF
   DATE     : [ON]         OFF
   CARD     : [OFF]        SET

   [◄♦►]SELECT      [ENTER]END
```

5

Use the ◄► Buttons to select the desired image to be printed, then press the MEMORY Button.


```
ALBUM [1]                    PRINT : 1



IMAGE NO.0005
[◄►]SELECT IMAGE
[MEMORY]OK
```

6

Repeat Step 5, and after storing the number of images which fill up the screen, press the PRINT Button.

- Printing starts.

3
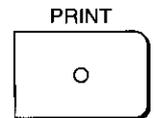
Use the ▼ Button to select "ALBUM", then use the ◄► Buttons to select the desired number of mini-frames.

```
       △
   ◄   ( )   ►
       ▽
```
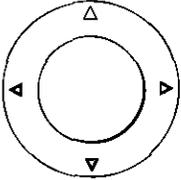
```
            FORMAT
  STD
  ☞ ALBUM      [4]  9   16
  MULTI
  ZOOM
  PINP
  CALENDAR

  [◄ ♦ ►]SELECT      [ENTER]OK
```

4

Press the ENTER Button.

```
  ENTER
```

```
  ALBUM          PRINT : 1



  IMAGE NO.0005
  [◄►]SELECT IMAGE
  [MEMORY]OK
```

Remarks.etc.

- When "DATE" is set to [ON] (p.38), the date will be entered on the pictures of different screens. However, this cannot be checked on the TV screen.

To Delete Stored Pictures
Press the CLEAR Button when the PRINT Lamp is lit.

To Abort the Setting Process
Press the CLEAR Button several times to completely clear the memory screen.

To Print Various ALBUM Prints from Different Screens at the Same Time
1. Use the ◄►▲▼ Buttons and MEMORY Button to select the various different types of images.
2. Press the AUTO PRINT Button.

```
              AUTO PRINT

              [        ]
```

- Example: If ALBUM : [4] is selected when printing 8 selected images, then the first print will have the first to the fourth selected images, and the second print will have the fifth to the eighth selected images.

Hint for Use
- The ALBUM Screen shows white spaces where no image was saved. There is no editing process that will allow images to be printed between blank (white) images.

To Select the Desired Image Displayed on the Index Display

1. After Step 4, press the DISPLAY/MONITOR Button.
2. Use the ◄►▲▼ Buttons to select the desired image to be printed, then press the MEMORY Button.
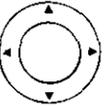
```
      ▲
   ◄  ( )  ►        MEMORY
      ▼             [    ]
```

```
  [ ALBUM 4 ]  [   ]  [   ]
  [   ]  [ ○ ]  [ ○ ]
  [   ]  [ ○ ]  [   ]
  [◄ ♦ ►]SELECT IMAGE
  [MEMORY]SET/CANCEL
```

- The image is marked with a ○ mark.
- Pressing the MEMORY Button again will erase the ○ mark.
- This operation can be performed only for the number of images on the screen.
3. Press the DISPLAY/MONITOR Button to confirm the print images.
4. Press the PRINT Button.

PC Card Input

35

PC Card Input (Cont.)

Title

Printing the Same Picture Repeatedly on the Same Print
(MULTI)

This feature allows you to divide the paper into 4, 9, or 16 mini-frames, and then print the same stored image, reduced in size, in each mini-frame.

● This feature is useful for printing head portraits for business cards when using the Print Sets for Sticker Paper.
● When using the Sticker Paper PV-MPAS16 (sold separately), select MULTI: [16] in Step 3.

1

Press the MENU Button, then use the ▼ Button to select "FORMAT".


```
              CARD MENU
    PRINT      : 1
 ☞ FORMAT     : [STD]        SET
    TITLE      : [OFF]        SET
    PICTURE    : [STD]        SET
    OSD        : [ON]         OFF
    DATE       : [ON]         OFF
    CARD       : [OFF]        SET

  [◄♦►]SELECT          [ENTER]END
```

2

Use the ► Button to select [SET].


```
              CARD MENU
    PRINT      : 1
 ☞ FORMAT     : STD         [SET]
    TITLE      : [OFF]        SET
    PICTURE    : [STD]        SET
    OSD        : [ON]         OFF
    DATE       : [ON]         OFF
    CARD       : [OFF]        SET

  [◄♦►]SELECT          [ENTER]END
```

5
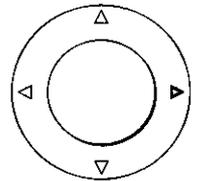
Use the ◄► Buttons to select the desired image to be printed.

6

Press the PRINT Button.
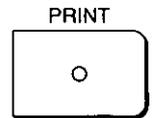
● Printing starts.
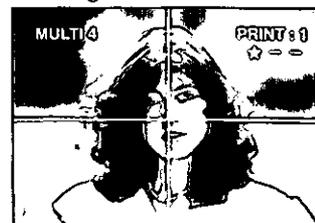
Use the ▼ Button to select "MULTI", then use the ◄► Buttons to select the desired number of mini-frames.
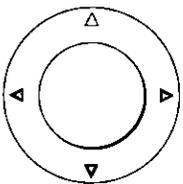
FORMAT

STD
ALBUM
☞MULTI : [4] 9 16
ZOOM
PINP
CALENDAR

[◄♦►]SELECT   [ENTER]OK

Press the ENTER Button.

ENTER

MULTI 4	PRINT : 1

IMAGE NO.0005
[◄►]SELECT IMAGE

To Select the Desired Image Displayed on the Index Display

1. **After Step 4, press the DISPLAY/MONITOR Button.**
2. **Use the ◄► ▲ ▼ Buttons to select the desired image to be printed, then press the MEMORY Button.**

MEMORY

MULTI 4		
	○	

[◄♦►]SELECT IMAGE
[MEMORY]SET/CANCEL

- The image is marked with a ○ mark.
- Pressing the MEMORY Button again will erase the ○ mark.
3. **Press the DISPLAY/MONITOR Button to confirm the print images.**
4. **Press the PRINT Button.**

Remarks, etc.

- When "DATE" is set to [ON] (p.38), the date will be entered on the pictures of different screens. However, this cannot be checked on the TV screen.

To Print Various Types of Different MULTI FRAME Prints from the Same Screen at the Same Time
1. After Step 4, press the DISPLAY/MONITOR Button so that the Index Display is shown.
2. Use the ◄► ▲ ▼ Buttons and MEMORY Button to select the various different types of images.

MULTI 4		
	○	
	○	

[◄♦►]SELECT IMAGE
[MEMORY]SET/CANCEL

3. Press the AUTO PRINT Button.

AUTO PRINT

PC Card Input

PC Card Input (Cont.)

Title
Printing with dates
(DATE)

Apr. 1. 2000

The date on which the image was shot can be inserted at the bottom right of the image for printing.

1
Use the ▼ Button to select "DATE" on the CARD MENU Screen.


```
          CARD MENU
PRINT    : 1
FORMAT   : [STD]      SET
TITLE    : [OFF]      SET
PICTURE  : [STD]      SET
OSD      : [ON]       OFF
☞ DATE   : ON         [OFF]
CARD     : [OFF]      SET

[◄♦►]SELECT      [ENTER]END
```

2
Use the ◄ Button to select [ON], and press the ENTER Button.


```
          CARD MENU
PRINT    : 1
FORMAT   : [STD]      SET
TITLE    : [OFF]      SET
PICTURE  : [STD]      SET
OSD      : [ON]       OFF
☞ DATE   : [ON]       OFF
CARD     : [OFF]      SET

[◄♦►]SELECT      [ENTER]END
```

Title
Printing image indexes with dates
(INDEX)

A collection of images (16 images per screen) recorded on the PC Card can be printed as image indexes.

1
Use the ▼ Button to select "CARD" on the CARD MENU Screen.


```
          CARD MENU
PRINT    : 1
FORMAT   : [STD]      SET
TITLE    : [OFF]      SET
PICTURE  : [STD]      SET
OSD      : [ON]       OFF
DATE     : [ON]       OFF
☞ CARD   : [OFF]      SET

[◄♦►]SELECT      [ENTER]END
```

2
Use the ► Button to select [SET].


```
          CARD MENU
PRINT    : 1
FORMAT   : [STD]      SET
TITLE    : [OFF]      SET
PICTURE  : [STD]      SET
OSD      : [ON]       OFF
DATE     : [ON]       OFF
☞ CARD   : OFF        [SET]

[◄♦►]SELECT      [ENTER]END
```

③

Use the ◄► Buttons to select the image to be printed.

STD
DATE | PRINT:1

IMAGE NO.000
[◄►]SELECT IMAGE

④

Press the PRINT Button.

PRINT

○

●Printing now commences.

STD
DATE | PRINT:1
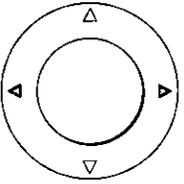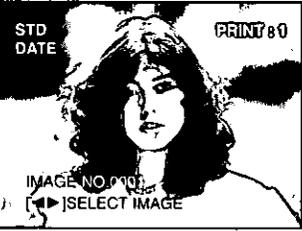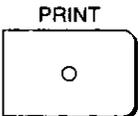
Remarks,etc.

●The initial setting is [ON].
●Dates cannot be checked on the TV screen.
●If there is no date information recorded on the image, the date cannot be printed, even if "DATE" is set to [ON].
●When printing with a preset title, the date may overlap the title or year display. If this happens, set "DATE" to [OFF].
●The date may be cut-off when using Sticker Paper.

③

Use the ▼ Button to select "INDEX" and the ► Button to select [YES].

●Index printing now commences.

```
              CARD
 DELETE    : [NO]      YES
 SEARCH    : [NO]      YES
 TRIMMING  : [AUTO]    OFF
☞INDEX     : NO       [YES]

 [◄♦►]SELECT      [ENTER]OK
```

```
┌INDEX──┬──┐  ┌─PRINT:1┐
└─DATE──┴──┘  └──★──┘
┌──┐┌──┐┌──┐┌──┐
└──┘└──┘└──┘└──┘
┌──┐┌──┐┌──┐┌──┐
└──┘└──┘└──┘└──┘
┌NOW INDEX PRINTING┐┌──┐
└─[CLEAR]CANCEL────┘└──┘
```
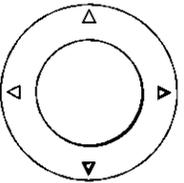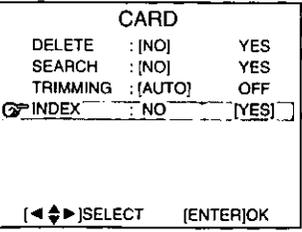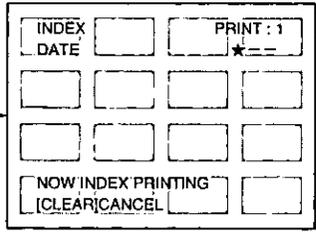
Remarks,etc.

●To print indexes with dates, make sure that [ON] has been set for "DATE".
●Even if the date is recorded on the index image, it cannot be checked on the TV screen.

Canceling the printing at any time
Press the CLEAR Button.

PC Card Input (Cont.)
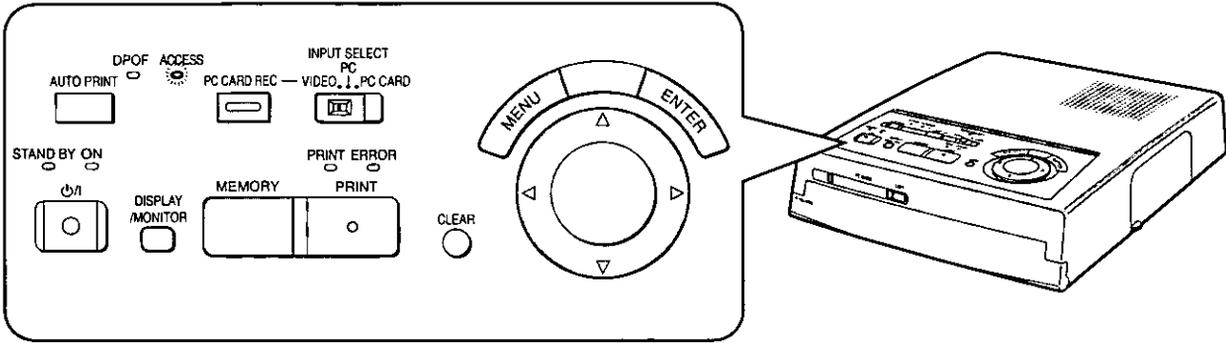
Deleting the Images on the PC Card
(DELETE)

The images stored on the PC Card can be deleted one at a time.

1

Press the MENU Button, then use the ▼ Button to select "CARD".
Use the ► Button to select [SET].
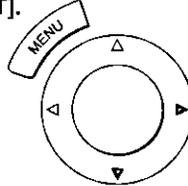

```
           CARD MENU
PRINT     : 1
FORMAT    : [STD]      SET
TITLE     : [OFF]      SET
PICTURE   : [STD]      SET
OSD       : [ON]       OFF
DATE      : [ON]       OFF
☞ CARD    : OFF        [SET]

[◄ ♦ ►]SELECT     [ENTER]END
```

2

Use the ▲▼ Buttons to select "DELETE", then use the ► Button to select [YES]
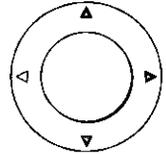

```
              CARD
☞ DELETE    : NO       [YES]
  SEARCH    : [NO]      YES
  TRIMMING  : [AUTO]    OFF
  INDEX     : [NO]      YES


[◄ ♦ ►]SELECT     [ENTER]OK
```

Recording the Video Input Image on the PC Card
(Recording images on the PC Card)

This function allows images from the VIDEO IN Socket or the S-VIDEO IN Socket to be recorded on the PC Card as still images.
● Approximately 24 images can be recorded on a 4 MB capacity PC Card. However, this may vary depending on the stored images.

Preparation:
Connect the necessary devices (p.10), and prepare the desired image to be recorded on the PC Card.

1

Set the INPUT SELECT Switch to "VIDEO".

```
   INPUT SELECT
        PC
VIDEO.↓.PC CARD
    ┌─────┐
    │ ▥▥ │
    └─────┘
```

◄───────

2

Start playback of the video equipment, then while viewing the television screen, press the MEMORY Button at the scene to be recorded on the card.

```
    MEMORY
  ┌────────┐
  │        │
  │        │
  └────────┘
```

● The scene is stored in the Photo Printer memory.
● If the scene is not what you want after pressing the MEMORY Button, press the DISPLAY/MONITOR Button again to continue.

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To Select the Desired Image to be Deleted from the Index Display

1. Press the DISPLAY/MONITOR Button so that the Index Display is shown.

DISPLAY /MONITOR

2. At the CARD MENU Screen, select "CARD" then select [SET].

```
         CARD MENU
PRINT    : 1
FORMAT   : [STD]      SET
TITLE    : [OFF]      SET
PICTURE  : [STD]      SET
OSD      : [ON]       OFF
DATE     : [ON]       OFF
☞ CARD    : OFF       [SET]

[◄♦►]SELECT      [ENTER]END
```

3. Select "DELETE", then select [YES].

```
           CARD
☞ DELETE    : NO      [YES]
  SEARCH    : [NO]     YES
  TRIMMING  : [AUTO]   OFF
  INDEX     : [NO]     YES


[◄♦►]SELECT      [ENTER]OK
```

4. Use the ◄►▲▼ Buttons to select the image to be deleted, then press the ENTER Button.

```
DELETE THIS IMAGE

[MENU]CANCEL
[◄♦►]SELECT    [ENTER]OK
```

---

③

Use the ◄► Buttons to select the desired image to be deleted.

DELETE THIS IMAGE

[MENU]CANCEL
[◄►]SELECT   [ENTER]OK

④
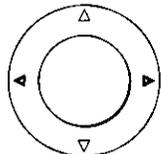
Press the ENTER Button.
- When the image is deleted, the screen returns to the CARD MENU. To continue erasing images, repeat Steps 2 and 3.
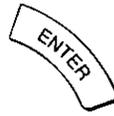
NOW DELETING

Remarks, etc.

- **Once an image has been deleted, it cannot be restored. Check carefully before erasing any images.**
- **Never remove the PC Card or press the ⏻ / I (Power) Button to turn off the Photo Printer while the image is being deleted (when the ACCESS Lamp is lit). This could damage the format of the card and make it unusable.**
- Images can be deleted either from the Full Screen Display or from the Index Display. Refer to the above when erasing from the Index Display.

---

③

Press the PC CARD REC Button, and use the ◄►▲▼ Buttons to specify the date.
- Specify the desired date. Select [OFF] if the date is not going to be specified.

PC CARD REC
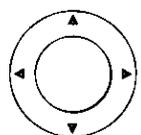
```
☞ 2000
  APR
  24
  OFF
```

[♦]SELECT
[◄►]CHANGE   [ENTER]OK

④

Press the ENTER Button.
- The scene is stored in the PC Card from the Photo Printer memory.
- The ACCESS Lamp lights while the image is being recorded.

```
STD              PRINT : 1

NOW RECORDING
```

Remarks, etc.

- **Never remove the PC Card or turn off the Photo Printer while the image is being recorded (when the ACCESS Lamp is lit). This could damage the format of the card and make it unusable.**
- Images cannot be recorded on the PC Card with the following modes: Album, Multi, Strobe, Zoom and Calendar.
- Data stored in the PC Card undergoes image compression. In some cases, this can deteriorate the image when it is stored on the card.
- Images are stored in the PC Card without the setting adjustments made to the picture quality.
- When an image containing a title is recorded on the PC Card, its title will not be recorded.
- Titles and trimming frames can be recorded separate from images. (p.54)

PC Card Input

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PC Card Input (Cont.)
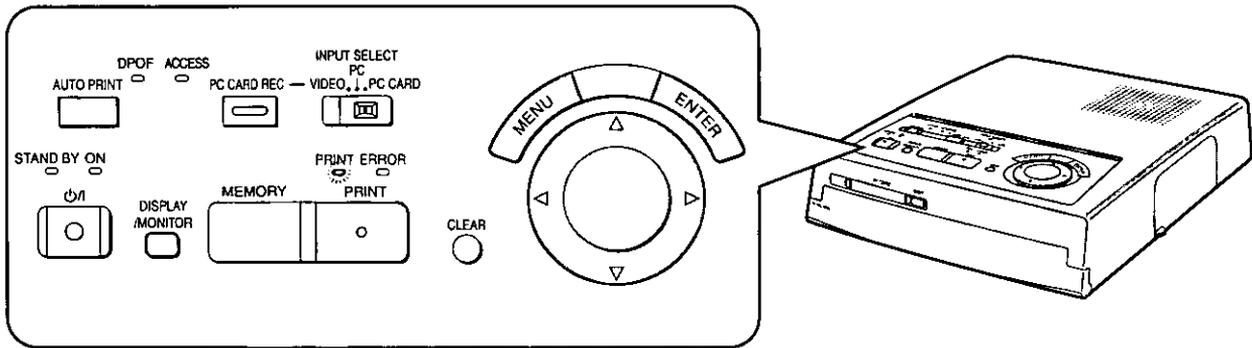
Title

Searching images by date and printing them
(SEARCH)

The date information is recorded onto the images on PC Cards recorded by a Digital Still Camera.

Using this date information, only those images which were shot during the period of time specified can be printed.

Preparations:

When the Full Screen Display has appeared, press the DISPLAY/MONITOR Button to switch to the Index Display.

1

Use the ▼ Button to select "CARD" on the CARD MENU Screen and the ► Button to select [SET].
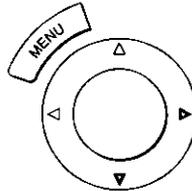

```
         CARD MENU
  PRINT      : 1
  FORMAT     : [STD]      SET
  TITLE      : [OFF]      SET
  PICTURE    : [STD]      SET
  OSD        : [ON]       OFF
  DATE       : [ON]       OFF
☞ CARD       : OFF        [SET]

  [◄ ♦ ►]SELECT     [ENTER]END
```

2

Use the ▼ Button to select "SEARCH" and the ► Button to select [YES].
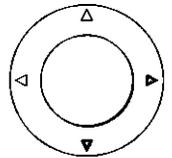

```
            CARD
  DELETE    : [NO]      YES
☞ SEARCH    : NO        [YES]
  TRIMMING  : [AUTO]    OFF
  INDEX     : [NO]      YES

  [◄ ♦ ►]SELECT     [ENTER]OK
```

Title

Trimming images automatically
(TRIMMING)

There may be lot of blank space on the prints when images shot by some types of digital still cameras are printed. (See figure ❶ at top right) When [AUTO] is selected, the images are automatically trimmed, and attractive-looking prints which use the printing paper to maximum effect can be made. (See figure ❷ at top right)

1

Use the ▼ Button to select "CARD" on the CARD MENU Screen and the ► Button to select [SET].
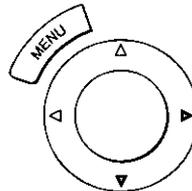

```
         CARD MENU
  PRINT      : 1
  FORMAT     : [STD]      SET
  TITLE      : [OFF]      SET
  PICTURE    : [STD]      SET
  OSD        : [ON]       OFF
  DATE       : [ON]       OFF
☞ CARD       : OFF        [SET]

  [◄ ♦ ►]SELECT     [ENTER]END
```

2

Use the ▼ Button to select "TRIMMING" and the ◄ Button to select [AUTO]. Then press the ENTER Button.
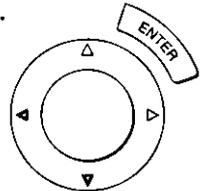

```
            CARD
  DELETE    : [NO]      YES
  SEARCH    : [NO]      YES
☞ TRIMMING  : [AUTO]    OFF
  INDEX     : [NO]      YES

  [◄ ♦ ►]SELECT     [ENTER]OK
```

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❶ When [OFF] has been selected for TRIMMING

The image is always printed in such a way that all the image data fits on the paper.

❷ When [AUTO] has been selected for TRIMMING

The top and bottom or sides of the image are trimmed, and then the trimmed image is enlarged so that the image fills the whole printing area, and printed.

---

❸

Use the ◄► ▲▼ Buttons to specify the period of time (start day/end day) to be searched, and press the ENTER Button.
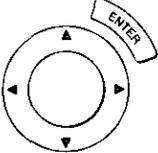
Example: From January 1 to March 31, 2000

FROM	TO
2000	2000
JAN	MAR
1	31

[♦]SELECT   [CLR]CANCEL
[◄►]CHANGE   [ENTER]OK

❹

Use the ◄► ▲▼ Buttons to select the images to be printed, and press the PRINT Button.
● Images found by the search are indicated by the ○ mark.
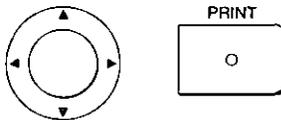
[◄♦►]SELECT IMAGE
[MEMORY]SET/CANCEL

Remarks, etc.

● If there are no images in the specified period of time, the "NOT FOUND" message is displayed upon completion of the search.
● To print all the images found by the search, press the AUTO PRINT Button.

---

❸

Use the ◄► Buttons to select the image to be printed.

IMAGE NO.000
[◄►]SELECT IMAGE

❹
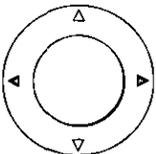
Press the PRINT Button.
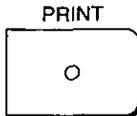
● Printing now commences.

Remarks, etc.

● The default setting is [AUTO].

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Advanced Operations

Printing parts of images enlarged
(ZOOM)

A part of an image stored in the memory is enlarged to approximately double its original size, and printed.

1

Use the ▼ Button to select "FORMAT" on the MENU Screen and the ▷ Button to select [SET].

```
              MENU
    PRINT      : 1
☞ FORMAT    : STD          [SET]
    TITLE      : [OFF]        SET
    PICTURE    : [STD]        SET
    OSD        : [ON]         OFF
    WIDE       : [AUTO]  ON   OFF

[◄♦►]SELECT    [ENTER]END
```

2
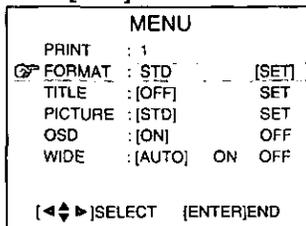
Use the ▼ Button to select "ZOOM", and press the ENTER Button.

```
              FORMAT
    STD
    ALBUM
    MULTI
☞ ZOOM
    PINP
    CALENDAR
    STROBE

[♦]SELECT             [ENTER]OK
```
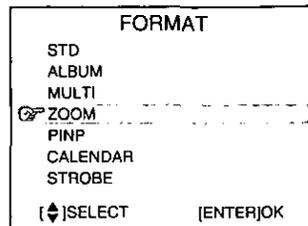
Creating a calendar
(CALENDAR)

■ With Video Input

2-months calendar

12-months calendar

Either a 2-months calendar or 12-months calendar can be selected and created.
● Any year from 1999 to 2040 can be selected.

1

Use the ▼ Button to select "FORMAT" on the MENU Screen and the ▶ Button to select [SET].


```
              MENU
    PRINT      : 1
☞ FORMAT    : STD          [SET]
    TITLE      : [OFF]        SET
    PICTURE    : [STD]        SET
    OSD        : [ON]         OFF
    WIDE       : [AUTO]  ON   OFF

[◄♦►]SELECT    [ENTER]END
```

2

Use the ▼ Button to select "CALENDAR", and press the ENTER Button.


```
              FORMAT
    STD
    ALBUM
    MULTI
    ZOOM
    PINP
☞ CALENDAR
    STROBE

[♦]SELECT             [ENTER]OK
```

5
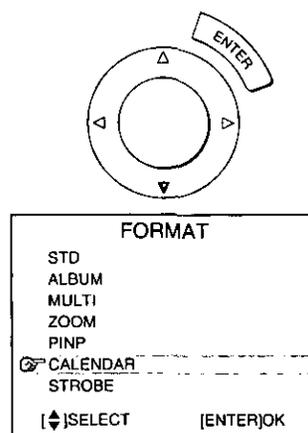
■To stay the color of the date
Press the ENTER Button.

■To change the color of the date
1. Use the ◄►▲▼ Buttons to align the ☐ mark (blinking) with the day whose color is to be changed.
2. Press the MEMORY Button one or more times to select the color.
   Sequence in which colors for the text change
   Red → Black → Blue → Green → Red ...
3. Press the ENTER Button.

---

6 (2 Months)

First, have ready the image, which is to be inserted at the top left, and press the MEMORY Button.
Next, have ready the image, which is to be inserted at the bottom right, and press the MEMORY Button.

MEMORY

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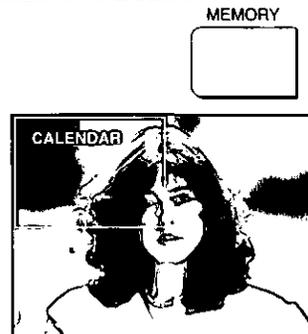
After pressing the MEMORY Button, use the ◀▶▲▼ Buttons to determine the area of the image to be enlarged.

Press the PRINT Button.

PRINT

○
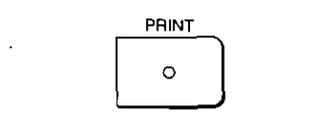
- Printing now commences.
- The inside of the selected frame is magnified.
- The image quality will suffer a slight deterioration.
- Zoomed images cannot be viewed on the TV screen.

Inputting with a PC Card
[Full Screen Display]
1. Use the DISPLAY/MONITOR Button to change to the Fill Screen Display.
2. Select the image using the ◀▶ Buttons.
3. Proceed with Steps 1 and 2 at left.
4. Select the area to be enlarged using the ◀▶▲▼ Buttons.
5. Press the PRINT Button.

[Index Display]
1. Use the DISPLAY/MONITOR Button to change to the Index Display.
2. Proceed with Steps 1 and 2 at left.
3. Select the image using the ◀▶▲▼ Buttons.
4. After pressing the DISPLAY/MONITOR Button, select the area to be enlarged using the ◀▶▲▼ Buttons.
5. Press the PRINT Button.

Select the calendar start month and year, and press the ENTER Button.

- Use the ▲▼ Buttons to select the "year" or "month" and the ◀▶ Buttons to make changes.

Use the ▲▼ Buttons to select either [2 MONTHS] or [12 MONTHS], and press the ENTER Button.

- Select a 2-months calendar (2 months from the calendar start month and year selected in step 3 on the left) or a 12-months calendar (12 months from the calendar start month and year selected in step 3 on the left).

- It is not possible to select the colors for the year, month and day of the week display.
- With a 2-months calendar, the positions where the images are inserted cannot be changed.
- When the calendar function is selected, the Illust, Title, Text and Frame data will be deleted.

Press the PRINT Button.

PRINT

○
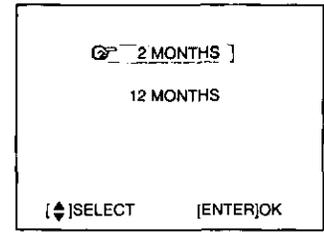
Have ready the image which is to be inserted in the center of the calendar, and press the MEMORY Button.

MEMORY

Press the PRINT Button.

PRINT

○

Advanced Operations

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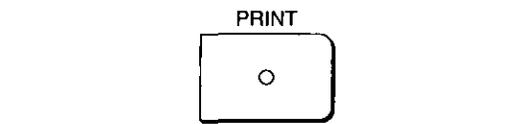
Advanced Operations (Cont.)

Title

Creating a calendar
(CALENDAR)

■ **With PC Card Input**
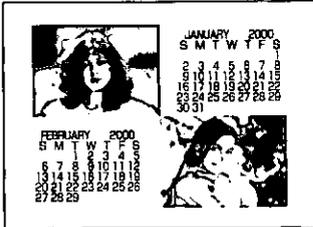
2-months calendar
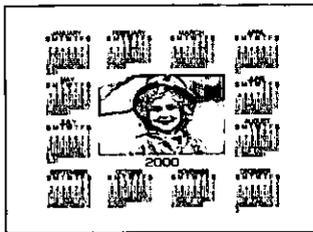
12-months calendar

Either a 2-months calendar or 12-months calendar can be selected and created.
● Any year from 1999 to 2040 can be selected.

1

Use the ▼ Button to select "FORMAT" on the CARD MENU Screen and the ▷ Button to select [SET].

```
            CARD MENU
   PRINT     : 1
☞ FORMAT     : STD        [SET]
   TITLE     : [OFF]       SET
   PICTURE   : [STD]       SET
   OSD       : [ON]        OFF
   DATE      : [ON]        OFF
   CARD      : [OFF]       SET

   [◀ ♦ ▶]SELECT      [ENTER]END
```

2

Use the ▼ Button to select "CALENDAR", and press the ENTER Button.

```
            FORMAT
   STD
   ALBUM
   MULTI
   ZOOM
   PINP
☞ CALENDAR

   [♦]SELECT         [ENTER]OK
```
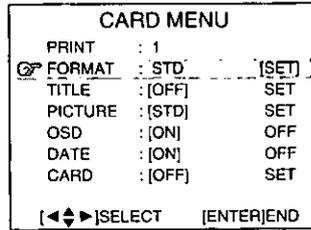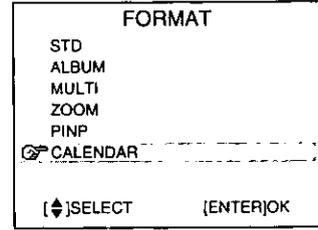
6 (2 Months)

First, use the ◀▶ Buttons to select the image which is to be inserted at the top left, and press the MEMORY Button.
Next, select the image which is to be inserted at the bottom right.
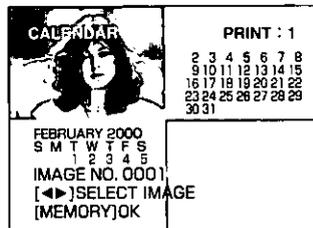
7 (2 Months)

Press the PRINT Button.

PRINT

○
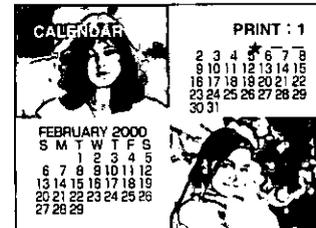
To select an image to be printed from an Index Display

1. Upon completion of Step 5, press the DISPLAY/MONITOR Button.

   DISPLAY /MONITOR

2. Use the ◀▶▲▼ Buttons to select the image which is to be printed, and press the MEMORY Button.
   ● For a 2-months calendar, select 2 images consecutively.
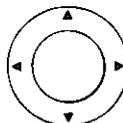
   MEMORY

③

Select the calendar start month and year, and press the ENTER Button.

- Use the ▲▼ Buttons to select the "year" or "month" and the ◄► Buttons to make changes.

```
☞ 2000

    APR



[♠]SELECT
[◄►]CHANGE       [ENTER]OK
```

④

Select either [2 MONTHS] or [12 MONTHS], and press the ENTER Button.

- Select a 2-months calendar (2 months from the calendar start month and year selected in step 3 on the left) or a 12-months calendar (12 months from the calendar start month and year selected in step 3 on the left).

```
☞ 2 MONTHS

    12 MONTHS



[♠]SELECT       [ENTER]OK
```

⑤

■**To stay the color of the date**
Press the ENTER Button.

■**To change the color of the date**
1. Use the ◄►▲▼ Buttons to align the ☐ mark (blinking) with the day whose color is to be changed.
2. Press the MEMORY Button one or more times to select the color.
   Sequence in which colors for the text change
   Red → Black → Blue → Green → Red ...
3. Press the ENTER Button.

⑥ (12 Months)

Use the ◄► Button to select the image which is to be inserted in the center of the calendar.


```
IMAGE NO.0003
[◄►]SELECT IMAGE
```
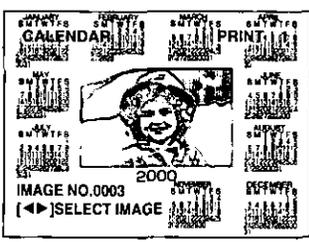
⑦ (12 Months)

Press the PRINT Button.

```
PRINT

  ○
```
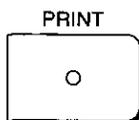

Remarks, etc.

- It is not possible to select the colors for the year, month and day of the week display.
- With a 2-months calendar, the positions where the images are inserted cannot be changed.
- When the calendar function is selected, the Illust, Title, Text and Frame data will be deleted.

- The selected image is indicated by a ○ mark.
- The ○ mark is cleared by pressing the MEMORY Button again.

3. Press the DISPLAY/MONITOR Button, and check the image to be printed.
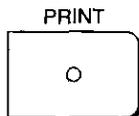
```
DISPLAY
/MONITOR

  ☐
```

4. Press the PRINT Button.

```
PRINT

  ○
```

Title

Printing with a combination of two sub-pictures

("PINP" is short for picture-in-picture.)
■With Video Input

Up to two separate images, which are reduced in size, can be printed together with the main printed image.

1

Use the ▼ Button to select "FORMAT" on the MENU Screen and the ▷ Button to select [SET].

```
                MENU
    PRINT    : 1
☞ FORMAT   : STD          [SET]
    TITLE    : [OFF]        SET
    PICTURE  : [STD]        SET
    OSD      : [ON]         OFF
    WIDE     : [AUTO]   ON  OFF

    [◀ ♦ ▶]SELECT    [ENTER]END
```

2

Use the ▼ Button to select "PINP", and press the ENTER Button.

```
              FORMAT
    STD
    ALBUM
    MULTI
    ZOOM
☞ PINP
    CALENDAR
    STROBE

    [♦]SELECT    [ENTER]OK
```

5

While viewing the TV screen, press the MEMORY Button at the position of sub-picture 1 which is to be inserted.

6

Next, press the MEMORY Button at the position of sub-picture 2 which is to be inserted.

Title

Printing with a combination of two sub-pictures

("PINP" is short for picture-in-picture.)
■With PC Card Input

Up to two separate images, which are reduced in size, can be printed together with the main printed image.

1

Use the ▼ Button to select "FORMAT" on the CARD MENU Screen and the ▶ Button to select [SET].

```
            CARD MENU
    PRINT    : 1
☞ FORMAT   : STD          [SET]
    TITLE    : [OFF]        SET
    PICTURE  : [STD]        SET
    OSD      : [ON]         OFF
    DATE     : ON          [OFF]
    CARD     : [OFF]        SET

    [◀ ♦ ▶]SELECT    [ENTER]END
```

2

Use the ▼ Button to select "PINP", and press the ENTER Button.

```
              FORMAT
    STD
    ALBUM
    MULTI
    ZOOM
☞ PINP
    CALENDAR

    [♦]SELECT    [ENTER]OK
```

5

Use the ◀▶ Buttons to select the image to be inserted in sub-picture 1, and press the MEMORY Button.

6

Next, use the ◀▶ Buttons to select the image to be inserted in sub-picture 2, press the MEMORY Button, and press the PRINT Button.

While viewing the TV screen, press the MEMORY Button at the position of each sub-picture which is to be printed.
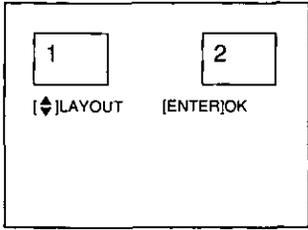
1	2

[♦]LAYOUT   [ENTER]OK

Press the ▲▼ Buttons several times to select the positions where the sub-pictures are to be inserted, and press the ENTER Button.

●Refer to the figures on the right for the positions.
●Two sub-pictures can be inserted. (Three or more sub-pictures cannot be inserted.)

Remarks, etc.

Transition of the sub-picture positions
One of the following six sets of positions can be selected by pressing the ▲▼ Buttons several times.

❶
1	2

❷
1	
	2

❸
	1
2	

❹
1	
2	

❺
	1
	2

❻
	1	2
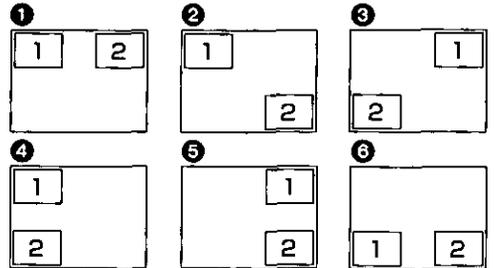
●When printing with the dates, the date position will move when one of the sub-pictures is inserted at the bottom right.
With set ❷ and ❺: Date is moved to the bottom left.
With sets ❻: Date is moved to the top right.
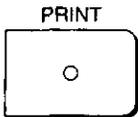
Press the PRINT Button.

PRINT

○

●Printing now commences.

Use the ◄► Buttons to select the images to be printed, and press the MEMORY Button.

1	2

[♦]LAYOUT   [ENTER]OK
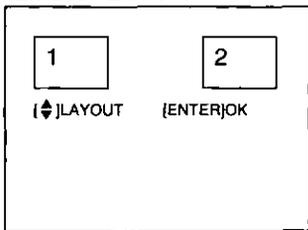
Press the ▲▼ Buttons several times to select the positions where the sub-pictures are to be inserted, and press the ENTER Button.

●Refer to the figures on the right for the positions.
●Two sub-pictures can be inserted. (Three or more sub-pictures cannot be inserted.)

To select the image to be printed from an Index Display

1. Upon completion of step 2, press the **DISPLAY/MONITOR Button.**
2. Use the **◄►▲▼ Buttons to select the image which is to be printed, and press the MEMORY Button.**
   ●The selected image is indicated by a ○ mark.
   ●The ○ mark is cleared by pressing the MEMORY Button again.

[PINP] [ ] [ ] [ ]
[ ] [○] [ ] [1] [2]
[ ] [ ] [ ]
[◄♦►]SELECT IMAGE
[MEMORY]SET/CANCEL
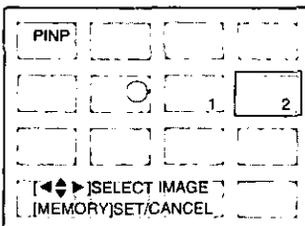
3. Use the **◄►▲▼ Buttons to select the images to be inserted in sub-picture 1 and sub-picture 2, and press the MEMORY Button.**
   ●The selected images are numbered "1" and "2."
4. Press the **DISPLAY/MONITOR Button, and check the background image to be printed.**
5. Press the **▲▼ Buttons several times to select the positions where the sub-pictures are to be inserted, and press the ENTER Button.**
6. Press the **PRINT Button.**

Advanced Operations

49

Advanced Operations (Cont.)

Title

Printing in frames with titles
(PRESET)

Thank you

FOR ALL YOU HAVE DONE. 2000 APR.

When "PRESET" on the "TITLE" on the MENU Screen is selected, an image stored in the memory can be placed in a frame with a title already contained inside the unit.

● As shown on the right, 14 different frames with titles are contained inside the unit.

1

Use the ▼ Button to select "TITLE" on the MENU Screen and the ▷ Button to select [SET].

```
              MENU
   PRINT    : 1
   FORMAT   : [STD]        SET
☞ TITLE    : OFF         [SET]
   PICTURE  : [STD]        SET
   OSD      : [ON]         OFF
   WIDE     : [AUTO]   ON  OFF

   [◄♦►]SELECT    [ENTER]END
```

2

Use the ▲▼ Button to select "PRESET" and the ▷ Button to select [SET].

```
              TITLE
☞ PRESET       : NO        [SET]
   ILLUST
   FRAME
   TEXT
   CARD

   [◄♦►]SELECT    [ENTER]OK
```

5

Use the ▲▼ Buttons to select the one of the "year" displays, and press the ENTER Button.
Use the ▲▼ Buttons to select the one of the "month" displays, and press the ENTER Button.

● The year and month displays can be changed using the ◄► Buttons.

6

Proceed with the printing operation.
1. Press the MEMORY Button.
2. Press the PRINT Button.

To abort the settings at any time
Press the MENU Button.

Title

Printing with text
(TEXT)

HAPPY WEDDING

When "TEXT" is selected on the "TITLE" on the MENU Screen, a text with up to 23 characters per line can be inserted into an image stored in the memory using the alphanumerics and symbols already contained inside the unit.

1

Use the ▼ Button to select "TITLE" on the MENU Screen and the ► Button to select [SET].

```
              MENU
   PRINT    : 1
   FORMAT   : [STD]        SET
☞ TITLE    : OFF         [SET]
   PICTURE  : [STD]        SET
   OSD      : [ON]         OFF
   WIDE     : [AUTO]   ON  OFF

   [◄♦►]SELECT    [ENTER]END
```

2

Use the ▼ Button to select "TEXT" and the ► Button to select [YES].

```
              TITLE
   PRESET
   ILLUST
   FRAME
☞ TEXT        : NO       [YES]
   CARD

   [◄♦►]SELECT    [ENTER]OK
```

5

After deciding on the size of the characters using the MEMORY Button:
Use the ◄►▲▼ Buttons to decide on the text position, and press the ENTER Button.

● The size of the characters is limited by the number of characters which have been input.
● The type style of the characters cannot be changed.

6

Use the ▲▼ Buttons to decide on the text color and the ◄► Buttons to decide on the background.

● Refer to the right of the page for the sequence in which colors for the characters change.
● Decide whether white is to be used as the background color for the area around the characters. This function is used when the colors of the image in the memory and the character colors are similar, making it hard for the text to be read.

50

Use the ◄►▲▼ Buttons to select one of the ❶ to ⓮ frames shown in the figure below, and press the ENTER Button.

● To select a frame from ⓮ to ⓮, press the ►▼ Buttons several times to scroll to page 2 (2/2 display).

Use the ▲▼ Buttons to select the text to be added, and press the ENTER Button.

● Text cannot be selected for frames ❷, ❸, ❺, ❻, ❼, ❽ and ⓮,
● No text will be inserted if [OFF] is selected.

● Part of the frame with title will be missing on the TV screen but they will be shown complete in the print.
● Any year from 1999 to 2040 can be set.
● When the power is turned off, all the data stored in the memory will be deleted.

Hint for Use
● To clear the frame with title from the screen, select [OFF] as the setting for "TITLE" on the MENU Screen.

❶ Thank you
❷ I Miss You
❸ How are you ?
❹ Just Married !
❺ New Baby !
❻ A Happy New Year
❼ HAPPY MEMORIES
❽ Happy Birthday
❾ Happy Mother's Day
⓾ Happy Holidays
⓫ Happy Father's Day
⓬ MERRY CHRISTMAS
⓭ CONGRATULATIONS !
⓮ SEASON'S GREETING

Use the ◄►▲▼ Buttons to select a character (see figure on the right), and press the MEMORY Button.

● Repeat this operation to input the characters (up to 23).
● Refer to the figure on the right for the types of characters available.
● If the wrong characters have been input, press the CLEAR Button to erase the characters one at a time starting with the last one.

After having input the text, press the ENTER Button.

Press the ENTER Button.

Proceed with the printing operation.
1. Press the MEMORY Button.
2. Press the PRINT Button.

● Spaces as well as ['] and [.] are counted as one character. ↗ Spaces

```
ABCDEO abcdeO 1 2 3 4 5
FGHIJ   fghij   6 7 8 9 0
KLMNO   klmno   ' ~ : −
PQRST   pqrst   · / _ ? !
UVWXY   uvwxy
Z       z

HAPPY WEDDING_

[MEMORY]INPUT      [CLR]DEL
{◄♦►}SELECT        [ENTER]OK
```

● Several lines of text can be input by repeating the same operation over and over again.
● The text position can be changed on each line.
● The text color can be changed for each line.
● Selection can be made from 8 colors.
  Sequence in which colors for the characters change:

  ┌→Cyan←→Red←→Magenta←→Yellow←┐
  └→Green←→Blue←→Black←→White←┘

● When the MEMORY Button is pressed, the characters may collapse but this does not reflect what will be printed.
● Since all the input characters will be deleted when the power is turned off, it is recommended that the characters be stored on the PC Card after they have been input.

Advanced Operations

51

Advanced Operations (Cont.)

Title

Deleting all titles made

---

1 Use the ▼ Button to select "TITLE" on the MENU Screen.

```
              MENU
    PRINT    : 1
    FORMAT   : [STD]          SET
☞  TITLE    : [OFF]    ON    SET
    PICTURE  : [STD]          SET
    OSD      : [ON]           OFF
    WIDE     : [AUTO]   ON    OFF

    [◄♦►]SELECT    [ENTER]END
```

---

2 Use the ► Button to select [SET].

```
              MENU
    PRINT    : 1
    FORMAT   : [STD]          SET
☞  TITLE    : OFF     ON    [SET]
    PICTURE  : [STD]          SET
    OSD      : [ON]           OFF
    WIDE     : [AUTO]   ON    OFF

    [◄♦►]SELECT    [ENTER]END
```

Title

Printing with illustrations
(ILLUST)

When "ILLUST" on the "TITLE" on the MENU Screen is selected, an illustration already contained inside the unit can be inserted into an image stored in the memory.

● As shown on the right, 9 different illustrations are contained inside the unit.

---

1 Use the ▼ Button to select "TITLE" on the MENU Screen and the ► Button to select [SET].

```
              MENU
    PRINT    : 1
    FORMAT   : [STD]          SET
☞  TITLE    : OFF          [SET]
    PICTURE  : [STD]          SET
    OSD      : [ON]           OFF
    WIDE     : [AUTO]   ON    OFF

    [◄♦►]SELECT    [ENTER]END
```

---

2 Use the ▼ Button to select "ILLUST" and the ► Button to select [SET].

```
              TITLE
    PRESET
☞  ILLUST   : NO         [SET]
    FRAME
    TEXT
    CARD


    [◄♦►]SELECT    [ENTER]OK
```

Title

Printing in frames

When "FRAME" on the "TITLE" on the MENU Screen is selected, an image stored in the memory can be placed in a frame which is already contained inside the unit.

● There are 4 different frames - SQUARE, OVAL, HEART and FROST - contained inside the unit.

---

1 Use the ▼ Button to select "TITLE" on the MENU Screen and the ► Button to select [SET].

```
              MENU
    PRINT    : 1
    FORMAT   : [STD]          SET
☞  TITLE    : OFF          [SET]
    PICTURE  : [STD]          SET
    OSD      : [ON]           OFF
    WIDE     : [AUTO]   ON    OFF

    [◄♦►]SELECT    [ENTER]END
```

---

2 Use the ▼ Button to select "FRAME" and the ► Button to select [SET].

```
              TITLE
    PRESET
    ILLUST
☞  FRAME    : NO         [SET]
    TEXT
    CARD


    [◄♦►]SELECT    [ENTER]OK
```

Use the ▼ Button to select "DELETE".

```
           TITLE
      PRESET
      ILLUST
      FRAME
      TEXT
      CARD
      COLOR
  ☞ DELETE    :[NO]     YES
  [◄ ♦ ►]SELECT    [ENTER]OK
```

Use the ► Button to select [YES].

● All the text which has been input is now deleted. Once deleted, the text cannot be restored so check carefully before opting for deletion.

```
           TITLE
      PRESET
      ILLUST
      FRAME
      TEXT
      CARD
      COLOR
  ☞ DELETE    : NO    [YES]
  [◄ ♦ ►]SELECT    [ENTER]OK
```

● All titles made will be deleted. Once deleted, the titles cannot be restored, so check carefully before opting for deletion.

Hint for Use

● To delete a title from the screen, select [OFF] as the setting for "TITLE" on the MENU Screen.

Use the ◄►▲▼ Buttons to select one of the ❶ to ❾ illustrations shown below, and press the ENTER Button.
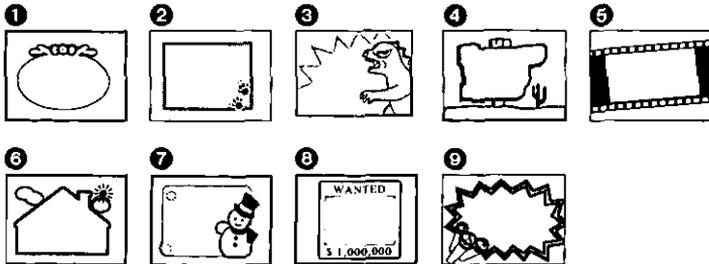
Proceed with the printing operation.
1. Press the MEMORY Button.
2. Press the PRINT Button.

Hints for Use

● To clear an illustration from the screen, select [OFF] as the setting for "TITLE" on the MENU Screen.

● When an illustration is inserted into a PC Card image, the image will shrink slightly at the left and right.

To abort the settings at any time
Press the MENU Button.

To insert your own titles and illustrations recorded on a PC Card and print them
On the screen which appears in step 3 on the left, use the ►▼ Button to scroll to page 2 (2/2 display).

● The title and illustration can be combined with the image recorded on the PC Card and printed.

Use the ▲▼ Button to select "SQUARE","OVAL","HEART" or "FROST", and press the ENTER Button.

● If "SQUARE" is selected, select [YES], and the ◄►▲▼ Buttons to specify the size. Then press the ENTER Button.

```
          FRAME

  ☞ SQUARE    : ADJ  NO  [YES]
    OVAL
    HEART
    FROST


  [◄ ♦ ►]SELECT    [ENTER]OK
```

Proceed with the printing operation.
1. Press the MEMORY Button.
2. Press the PRINT Button.

● The size can be changed for the SQUARE frame only. If black bands appear at the top and bottom of the image or around it (as with a cinema movie), they can be removed.

Hint for Use

● To clear a frame from the screen, select [OFF] as the setting for "TITLE" on the MENU Screen.

Advanced Operations

Title

Making changes to the color of the titles

The colors decided upon when the text was input can be changed.

```
            MENU
   PRINT    : 1
   FORMAT  : [STD]         SET
☞  TITLE    : OFF     ON  [SET]
   PICTURE  : [STD]        SET
   OSD      : [ON]        OFF
   WIDE     : [AUTO]  ON  OFF

   [◀♣▶]SELECT    [ENTER]END
```

1

Use the ▼ Button to select "TITLE" on the MENU Screen and the ▶ Button to select [SET].

2

Use the ▼ Button to select "COLOR" and the ▶ Button to select [YES].

```
            TITLE
   PRESET
   ILLUST
   FRAME
   TEXT
   CARD
☞  COLOR    : NO       [YES]
   DELETE

   [◀♣▶]SELECT    [ENTER]OK
```

Title

Making partial changes to the color of the titles

The colors decided upon when the text was input can be changed in part.

```
         COLOR CHANGE

   WHOLE
☞  PART      : NO      [YES]

   [◀♣▶]SELECT    [ENTER]OK
```

1

After step 2 above, use the ▼ Button to select "PART" on the MENU Screen and the ▶ Button to select [YES].

2

Use the ◀▶▲▼ Buttons to select the top left position of the frame, and press the ENTER Button.

Top left position of the frame

```
         COLOR CHANGE



       HAPPY WEDDING


   [◀♣▶]SET START POSITION
   [ENTER]OK
```

Title

Recording illustrations and text input onto the PC Card

Display the illustration or text that you wish to record on the PC Card before proceeding with the steps to the right.

```
            MENU
   PRINT    : 1
   FORMAT  : [STD]         SET
☞  TITLE    : OFF     ON  [SET]
   PICTURE  : [STD]        SET
   OSD      : [ON]        OFF
   WIDE     : [AUTO]  ON  OFF

   [◀♣▶]SELECT    [ENTER]END
```

1

Use the ▼ Button to select "TITLE" on the MENU Screen and the ▶ Button to select [SET].

2

Use the ▼ Button to select "CARD" and the ▶ Button to select [SET].

```
            TITLE
   PRESET
   ILLUST
   FRAME
   TEXT
☞  CARD     : NO       [SET]
   COLOR
   DELETE
   [◀♣▶]SELECT    [ENTER]OK
```

Use the ▲▼ Button to select "WHOLE" and the ► Button to select [YES].
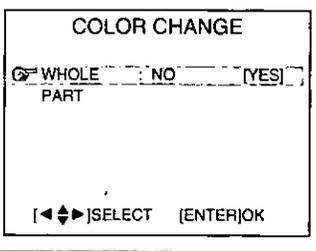
```
        COLOR CHANGE

☞ WHOLE    : NO      [YES]
  PART

[◄ ♦ ►]SELECT    [ENTER]OK
```

Use the ▲▼ Buttons to select the color, and press the ENTER Button.
- Refer to the right of the page for the sequence in which colors for the characters change.

```
        COLOR CHANGE


      HAPPY WEDDING


[♦]SELECT       [ENTER]OK
```
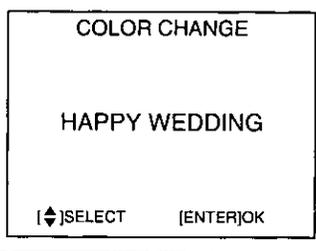
- If the title color is changed totally or partially, the image may be disturbed or shake from side to side on some TV sets.
Sequence in which colors for the characters change:

```
┌→Cyan←→Red←→Magenta←→Yellow←┐
└→Green←→Blue←→Black←→White←┘
```

Hint for Use
- To clear the text from the screen, select [OFF] as the setting for "TITLE" on the MENU Screen.

Use the ◄►▲▼ Buttons to select the range in which the character color is to be changed, and press the ENTER Button.
- The area enclosed in the box is the part whose color will be changed.
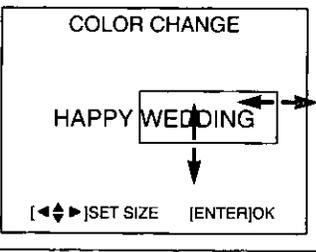
```
        COLOR CHANGE


   HAPPY WED DING


[◄ ♦ ►]SET SIZE    [ENTER]OK
```

Use the ▲▼ Buttons to select the color, and press the ENTER Button.
- Refer to the right of the page for the sequence in which colors for the character change.

```
        COLOR CHANGE


   HAPPY WEDDING


[♦]SELECT       [ENTER]OK
```
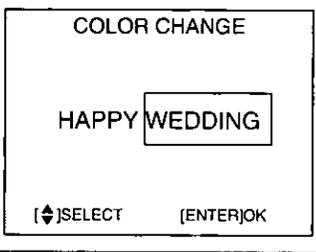
Use the ▲▼ Button to select "RECORD" and the ► Button to select [YES].
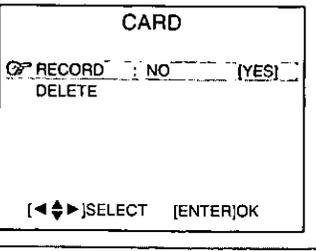
```
           CARD

☞ RECORD   : NO      [YES]
  DELETE


[◄ ♦ ►]SELECT    [ENTER]OK
```

Use the ◄►▲▼ Buttons to specify the date.
- Specify the desired date. Select [OFF] if the date is not going to be specified.

Press the ENTER Button.
- The illustration and input text are recorded on the PC Card.

Printing with illustrations and/or text recorded on a PC Card
On the screen which appears in step 3 in "Printing with illustrations" (p.52), use the ►▼ Button to scroll to page 2 (2/2 display), and the ◄►▲▼ Buttons for selection. (The 1/2 display is the page with the illustrations already contained inside the unit.)
To delete illustrations and text recorded on a PC Card
1. Select "DELETE" in step 3 on the left, and use the ► Button to select [YES].
2. Use the ►▼ Button to scroll to page 2 (2/2 display), and the ◄►▲▼ Buttons to select the illustration or text to be deleted.
3. Press the ENTER Button.

Advanced Operations

55

Windows

Driver Software

Introduction
The PV-PD2100 Digital Photo Printer can be used with Windows 98 and Windows 95 operating systems. Installing this printer driver allows the Photo Printer to be used as a full-color printer.

Trademarks
o "Microsoft Windows" is a trademark of Microsoft Corporation (U.S.).
o Other names, company names, and product names appearing in this manual are trademarks or registered trademarks of the respective companies.

Usage Agreement
The customer may only install this product in one computer system. You may not copy this product or transfer it to a third party in part or in whole, except for the sole purpose of backing up this software.

Notes
o The names of the products being used and the names in this manual may differ in some cases. The screen information shown in this manual may vary depending on the operating environment being used.
o No particular explanation is provided regarding the basic operations and terms for Windows 98/Windows 95 or the Printer unit. Please refer to the respective Operating Instructions for this information.
Also, note that this manual does not provide explanations for basic computer terms.
o A file called [Readme.txt] is included on the Printer Driver CD-ROM.
This file contains information and supplementary items which were unable to be included in this manual. Always read this file first.

Operating Environment

Compatible Computers
● PC/AT-compatible computers
A computer with an 80486 or faster CPU equipped with a 25-pin printer connector is recommended.

Possible Operating Environments
●OS
Microsoft® Windows® 98 or Microsoft® Windows® 95
●RAM
A minimum of 16 MB of RAM is required (32 MB or more is recommended).
●Hard disk
Approximately 1 MB of hard disk space is required for installation.
At least 20 MB of free disk space is needed on the startup disk during the printing operation.
More RAM or hard disk space may be required depending on the printing contents.

Connecting the PC Connection Cable

A PC Connection Cable for Windows (supplied) is required to connect the Photo Printer.

1
Turn the computer off.
● Unplug the Printer.

2
Connect the PC Connection Cable (supplied) to the printer connector on the computer.

3
Connect the PC Connection Cable to the PARALLEL Socket connector on the Printer.
● Close the connector attachment brackets so that the PC Connection Cable does not become disconnected.

To Parallel Port

PC Connection Cable (supplied)

Windows PC
(available at computer stores)

PARALLEL Socket

Driver Software

57
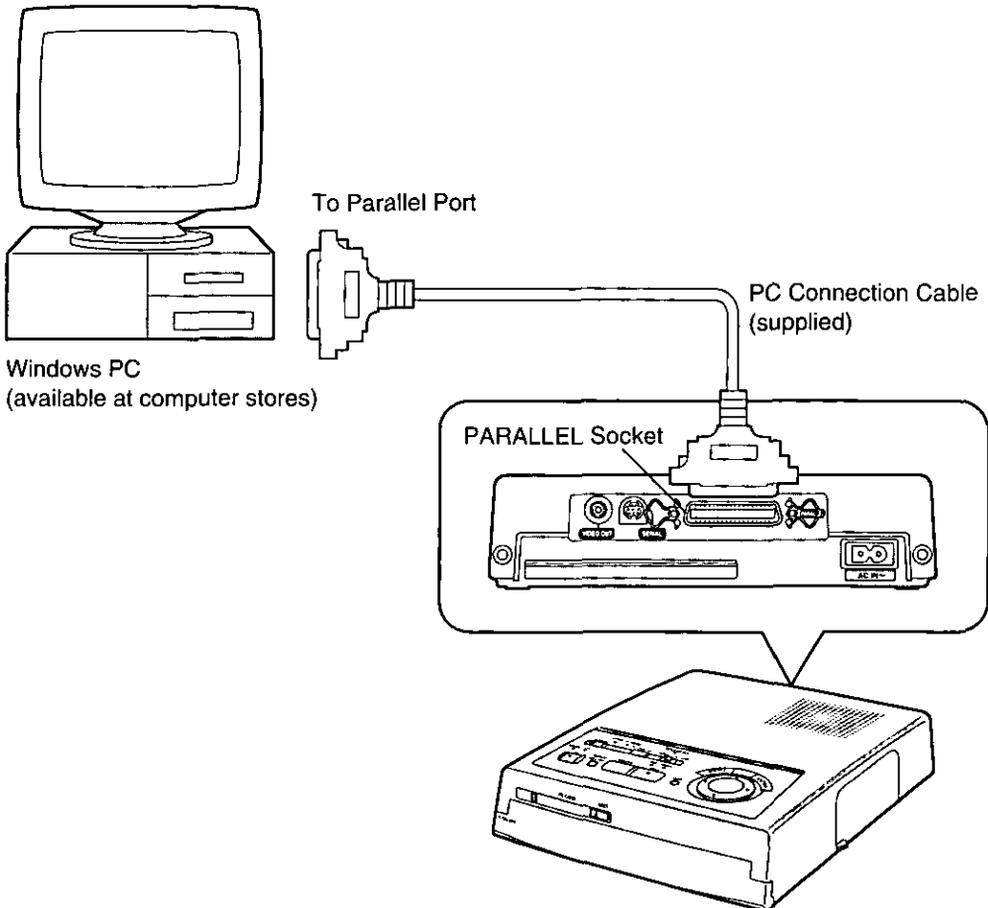
Driver Software (Cont.)

Installing the Printer Driver (for Windows 98)

1

Turn the Printer on.
●Connect the Power Cable and press the ⏻/l (Power) Button to turn the Printer on.

2

Set the INPUT SELECT (VIDEO/PC/PC CARD) Switch to "PC".

3

Start up Windows 98.
●The following message is displayed: "Windows has found new hardware and is locating the software for it."
●Always turn on the Printer before starting up Windows 98.
●The Windows 98 Plug and Play function allows the computer to automatically recognize the printer when the printer is connected.

4

Load the Printer Driver Software CD-ROM and click the [Next] Button.
●Load the CD-ROM into the selected drive.
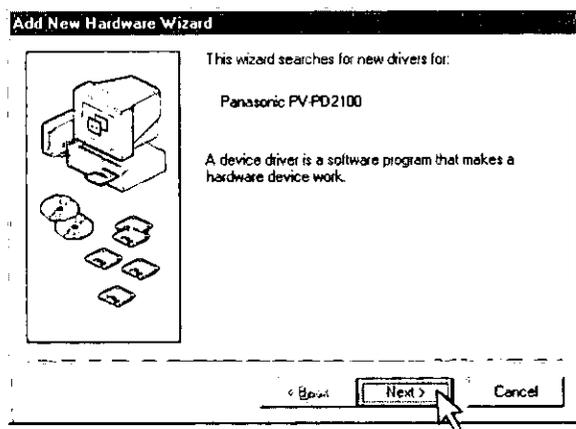
5

Select "Search for the best driver for your device", then click the [Next] Button.
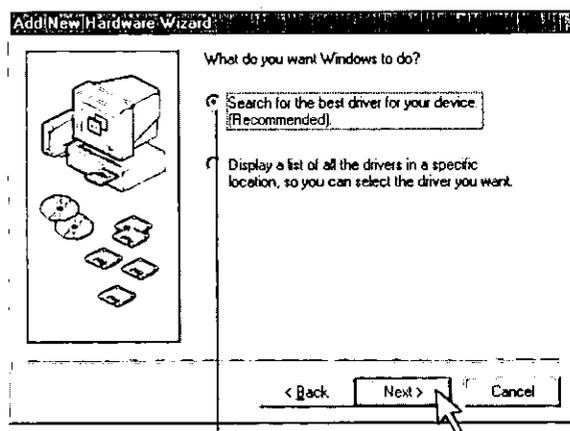
click

If the screen shown in step 4 does not appear:
●If the printer power is off when Windows 98 is started up, the message shown in step 3 and the screen shown in step 4 will not appear. Turn the printer on, then restart Windows 98.
●If the Printer Driver has already been installed, the screen shown in step 4 will not appear. In this case, perform installation according to the installation procedure (p. 60) for when the "Add New Hardware Wizard" screen is not displayed.

If the wrong driver was selected:
●If you accidentally selected "Display a list of all the drivers in a specific location, so you can select the driver you want" and then clicked the [Next] Button, once the screen shown in step 4 on p. 60 appeared, click the [Back] Button.
Doing so will send you back to the "Add New Hardware Wizard" screen.
Select "Search for the best driver for your device".
●If you accidentally clicked the [Cancel] Button, wait until Windows 98 starts up, turn the printer power on, then restart Windows 98.

6

Select "Specify a location", then click the [Browse...] Button.

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:

[▼]

Browse...

< Back   Next >   Cancel
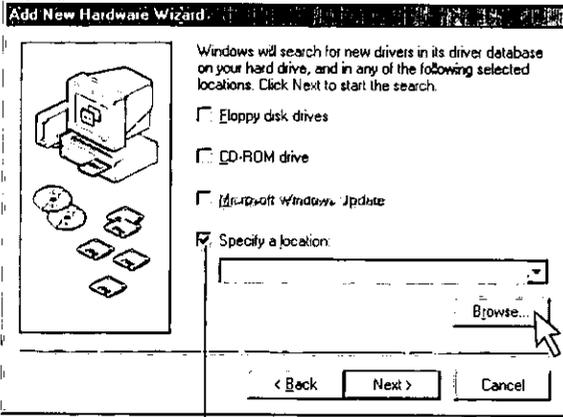
click

7

Select CD-ROM drive for the [PV-PD2100] printer that you purchased, and then click the [OK] Button.

Browse for Folder

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

☐ Desktop
  ☐ My Computer
    ☐ 3½ Floppy (A:)
    ☐ Removable Disk (C:)
    ☐ PV-PD2100 (D:)
    ☐ Printers
    ☐ Control Panel

OK   Cancel

8

Click the [Next] Button.

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:\]

Browse...

< Back   Next >   Cancel

click

9

Click the [Next] Button.

Add New Hardware Wizard

Windows driver file search for the device:

Panasonic PV-PD2100

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:\MPX05M.INF

< Back   Next >   Cancel

10

Select [Yes] to set this printer as the default printer, and then click the [Finish] Button.
● The file is copied.

Add Printer Wizard

You can type a name for this printer, or you can use the name supplied below. When you are ready, click Finish to install the printer and add it to the Printers folder.

Printer name:

Panasonic PV-PD2100

Do you want your Windows-based programs to use this printer as the default printer?

○ Yes

○ No

< Back   Finish   Cancel

click

11

Click the [Finish] Button.
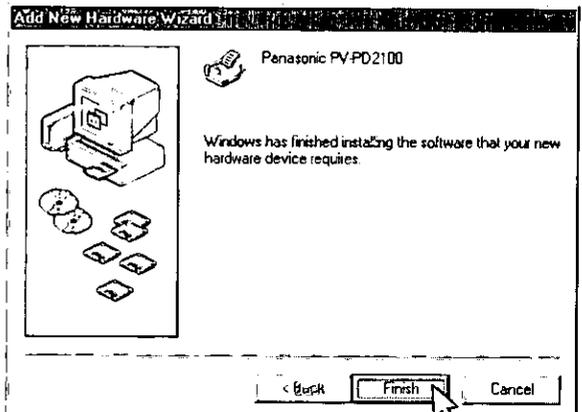
Add New Hardware Wizard

Panasonic PV-PD2100

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

< Back   Finish   Cancel

This completes the installation procedure.

Driver Software

59

Driver Software (Cont.)

Installing the Printer Driver (for Windows 98) (Cont.)

(Installation Procedure If the "Add New Hardware Wizard" Screen Did Not Appear in Step 4 on p. 58)

Turn on the printer, start up Windows 98, and perform the procedure below to install the printer driver.

1
At the [Start] Button, select [Printers] from the [Settings] option.
●The "Printers" folder is displayed.
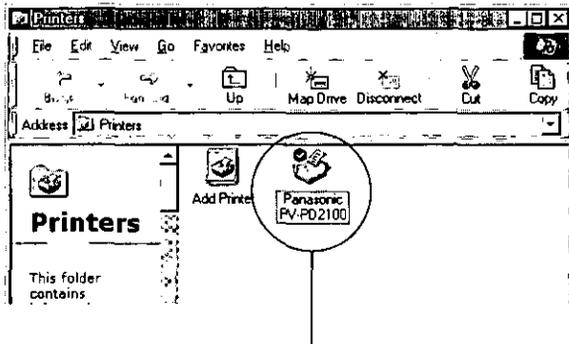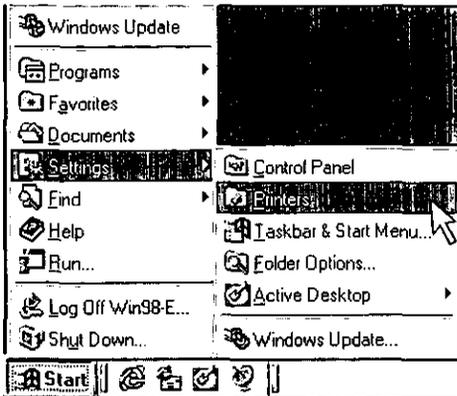
If an icon labeled with the name of this printer is displayed, delete it according to the following procedure:
1. Select the icon labeled with the name of this printer.
2. Use the "Delete" command in the "File" menu to delete the icon.
3. When the message "Some files were used only for this printer and are no longer needed. Would you like to delete these files now?" appears, click [Yes].
●The icon labeled with the name of this printer disappears from the "Printers" screen.

2
Double-click the [Add Printer] icon.
●The "Add Printer Wizard" screen appears.

3
Click the [Next] Button.
●A list of printers appears on the "Add Printer Wizard" screen.
●If a screen appears asking you whether the printer is a local printer or network printer after clicking the [Next] Button, select [Local printer].

4
Click the [Have Disk...] Button.
●The "Install From Disk" screen appears.

5
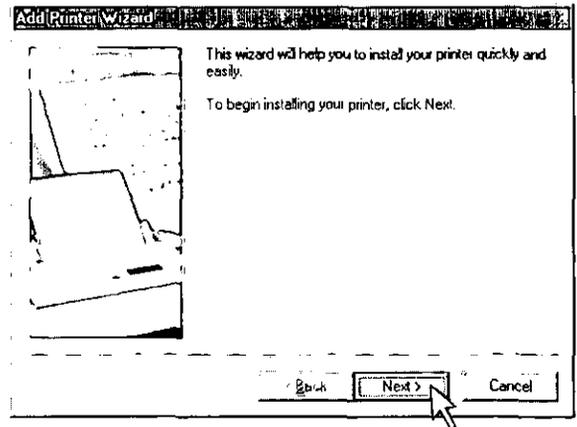
Load the Printer Driver Software CD-ROM, and click the [Browse...] Button.

6

Select the CD-ROM Drive, when [mpx05m.inf] appears, click the [OK] Button.
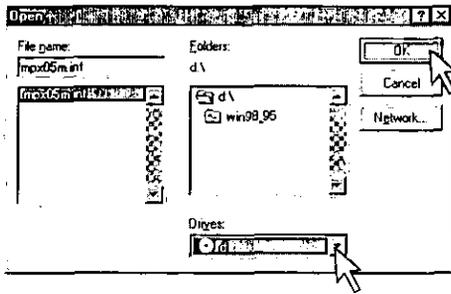
7

Click the [OK] Button.
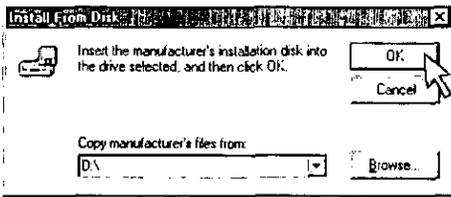
8

Confirm that the name of this printer appears in the "Add Printer Wizard" screen, then click the [Next] Button.
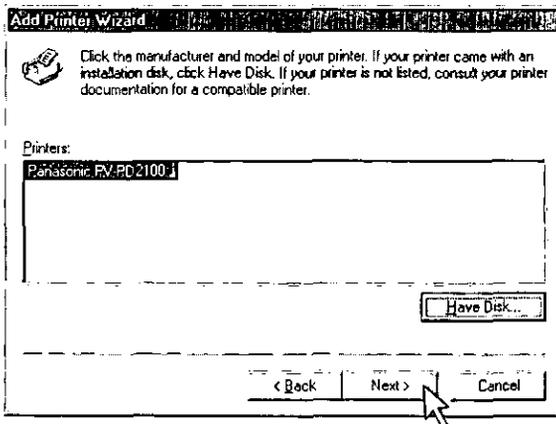
9

Select the port that the printer is connected to, and then click the [Next] Button.

- Select the port that the printer is connected to from the available ports on the screen.
- Only LPT ports should be selected.

10
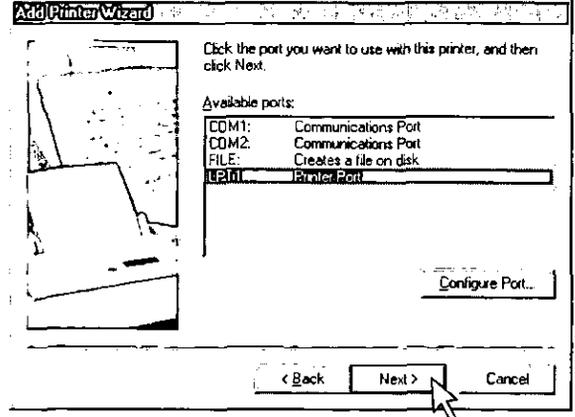
Select [Yes] to set this printer as the default printer, and then click the [Finish] Button.

- The file is copied.

click

This completes the installation procedure.

Driver Software

61
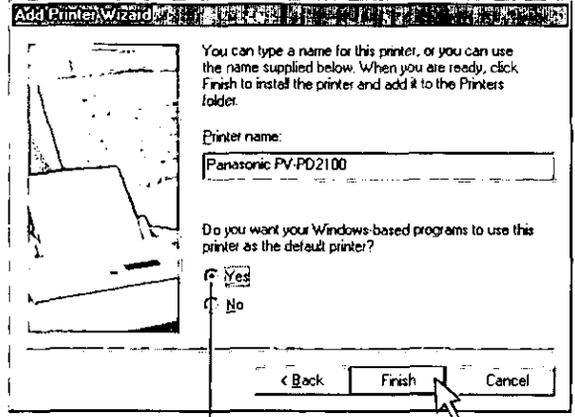
Driver Software (Cont.)

Installing the Printer Driver (for Windows 95)

1

Turn the Printer on.
● Connect the Power Cable, and press the ⏻/I (Power) Button to turn the Printer on.

2

Set the INPUT SELECT (VIDEO/PC/PC CARD) Switch to "PC".

3

Start up Windows 95.
● The following message is displayed: [New hardware has been detected. The required software is being installed.]
● Always turn on the Printer before starting up Windows 95.
● The Windows 95 Plug and Play function allows the computer to automatically recognize the printer when the printer is connected.

4

Load the Printer Driver Software CD-ROM, and click the [Next] Button.
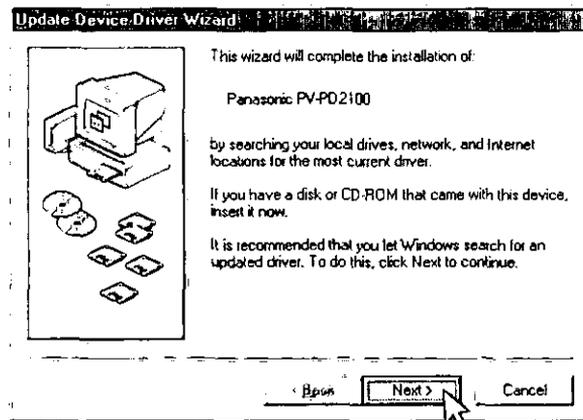
or
Select [Driver from disk provided by hardware manufacturer] and click the [OK] Button.
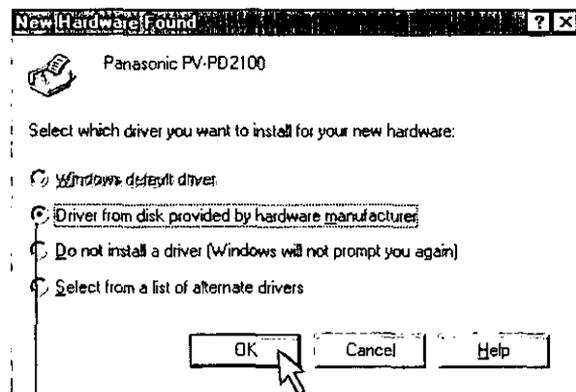
Click

● The display information shown in step 4 may differ according to the type of computer used.

When the screen shown in step 4 does not appear:
● The screen shown in step 4 does not appear if the Printer is not turned on when Windows 95 is started. Turn the Printer on before restarting Windows 95.
● This message screen will not appear if a printer driver has already been installed or if [Do not install driver] was selected on the [New Hardware Found] screen.
In this case, follow the installation procedure (p.64) for when the [New Hardware Found] screen does not appear.

When the wrong driver is selected:
● If you selected [Select from list of alternate drivers] and clicked the [OK] Button, then immediately click the [Cancel] Button on the screen.
This will return you to the [New Hardware Found] screen.
Select [Driver from disk provided by hardware manufacturer].
● If you selected [Do not install a driver] and clicked the [OK] Button, then follow the installation procedure (p.64) for when the [New Hardware Found] screen does not appear.
● If you clicked [Cancel], then turn on the Printer after Windows 95 is started, then restart Windows 95.

5

Click the [Finish] Button when the Printer Driver Software is detected.

Update Device Driver Wizard

Windows found the following updated driver for this device:

Panasonic PV-PD2100

If you want to use this driver, click Finish. If this is not the correct driver and you want to search for a different driver manually, click Other Locations.

Location of Driver

Other Locations...

< Back   Finish   Cancel

or

Load the Printer Driver Software CD-ROM, and click the [OK] Button.

Install From Disk

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

Copy manufacturer's files from:

A:\   Browse...

● Load the CD-ROM into the selected drive.
● The display information shown in step 5 may differ according to the type of computer used.

If the drive name shown in [Copy manufacturer's files from:] differs from the drive name that the CD-ROM was loaded into, directly enter the drive name or click the [Browse...] Button to select the drive that the CD-ROM was loaded into, and then click the [OK] Button. The [Select Device] screen appears.

6

Click the [OK] Button.

Select Device

Click the Printer that matches your hardware, and then click OK. If you don't know which model you have, click OK. This list shows only what was found on the installation disk.

Models:

Panasonic PV-PD2100

Have Disk...

OK   Cancel

7

Select [Yes] to set as the default printer, and then click the [Finish] Button.
● The file is copied.

Add Printer Wizard

You can type a name for this printer, or you can use the name supplied below. When you are ready, click Finish to install the printer and add it to the Printers folder.

Printer name:

Panasonic PV-PD2100

Do you want your Windows-based programs to use this printer as the default printer?

⊙ Yes
○ No

< Back   Finish   Cancel

click

This completes the installation procedure.

Driver Software

Driver Software (Cont.)

Installing the Printer Driver (for Windows 95) (Cont.)

(Installation procedure for when the [New Hardware Found] screen does not appear in Step 4 on p.62)

Turn on the printer, start up Windows 95, and perform the procedure below to install the printer driver.

1

At the [Start] Button, select [Printers] from the [Settings] option.

● The [Printers] folder is displayed.
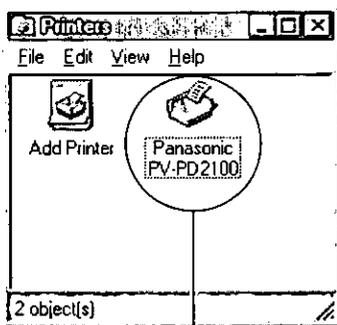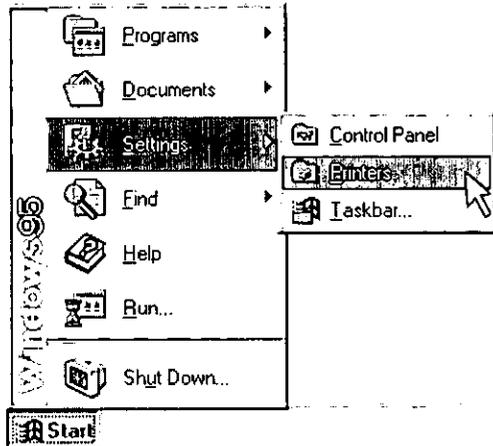
Use the following procedure to delete the [Panasonic PV-PD2100] icon if it is displayed.

1. Select the [Panasonic PV-PD2100] icon.
2. Use the [Delete] function from the [File] menu to delete [Panasonic PV-PD2100].
   (The user should also delete the files used only by this printer).

● The [Panasonic PV-PD2100] icon is deleted from the [Printers] screen.

2

Double-click the [Add Printer] icon.

● The [Add Printer Wizard] screen appears.

3

Click the [Next] Button.

● A list of printers appears on the [Add Printer Wizard] screen.
● If a screen appears asking you whether the printer is a local printer or network printer after clicking the [Next] Button, select [Local printer].

4

Click the [Have Disk...] Button.

● The [Install From Disk] screen appears.

64

5

Load the Printer Driver Software CD-ROM, and click the [OK] Button.

Install From Disk

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

> OK
> Cancel

Copy manufacturer's files from:

> Browse...
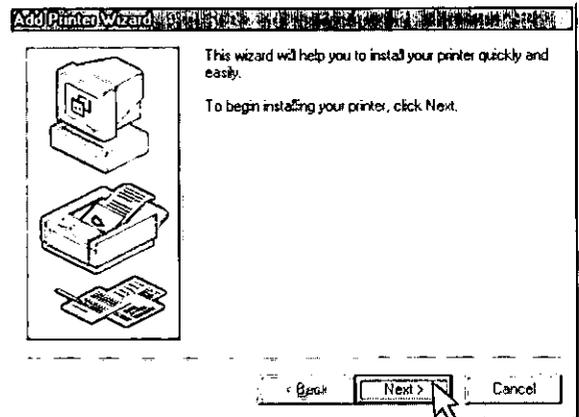
- Load the CD-ROM into the selected drive.
- If the drive name shown in [Copy manufacturer's files from:] differs from the drive name that the CD-ROM was loaded into, directly enter the drive name or click the [Browse...] Button to select the drive that the CD-ROM was loaded into, and then click the [OK] Button.

6

Check that [Panasonic PV-PD2100] is displayed on the [Add Printer Wizard] screen, then click the [Next] Button.

- The [Add Printer Wizard] screen then shows [Available ports:].

Add Printer Wizard

Click the manufacturer and model of your printer. If your printer came with an installation disk, click Have Disk. If your printer is not listed, consult your printer documentation for a compatible printer.

Printers:
Panasonic PV-PD2100

> Have Disk...

> < Back   Next >   Cancel

7

Select the port that the printer is connected to, and then click the [Next] Button.

- Select the port that the printer is connected to from the available ports on the screen.
- Only LPT ports should be selected.

Add Printer Wizard

Click the port you want to use with this printer, and then click Next.

Available ports:

COM1:	Communications Port
COM2:	Communications Port
FILE:	Creates a file on disk
LPT1:	Printer Port

> Configure Port...

> < Back   Next >   Cancel

8

Select [Yes] to set as the default printer, and then click the [Finish] Button.

- The file is copied.

Add Printer Wizard

You can type a name for this printer, or you can use the name supplied below. When you are ready, click Finish to install the printer and add it to the Printers folder.

Printer name:
Panasonic PV-PD2100

Do you want your Windows-based programs to use this printer as the default printer?

- Yes
- No

> < Back   Finish   Cancel

click

This completes the installation procedure.

Driver Software

Driver Software (Cont.)

Installing the Printer Driver (Cont.)

Setting the Default Printer

1
At the [Start] Button, select [Printers] from the [Settings] option.
The [Printers] folder is displayed.
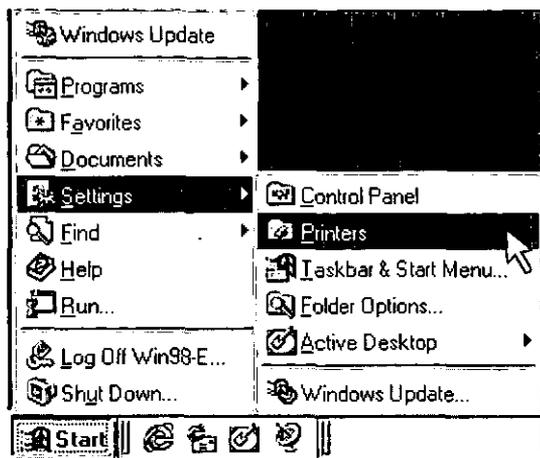
2
Select the [Panasonic PV-PD2100] icon, then open the [File] menu.
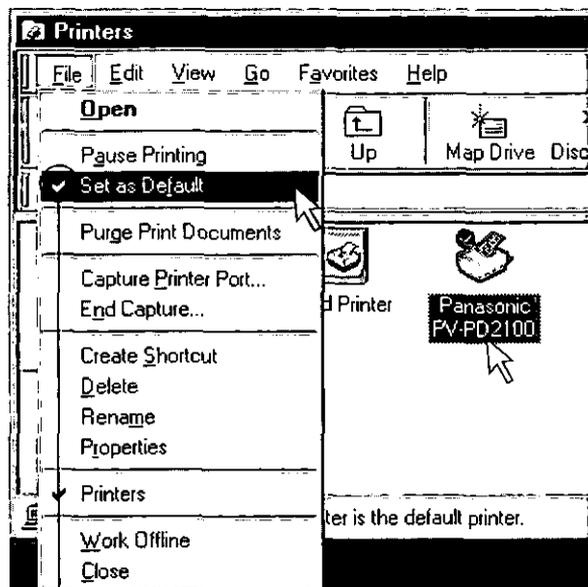
Check that there is a check mark on the [Set As Default] option. If there is no check mark, activate this option by clicking it.

Note

These instructions describe the installation of the driver software only. They do not describe the actual printing operation in any way. For details on the Print Format and other aspects, click the Help Button in the respective dialog boxes and refer to the information which is then displayed.

Restrictions

●This printer driver does not use the Print Manager. Therefore, background printing and network printing cannot be performed. The various settings in the Print Manager are not valid.

●In some Windows applications with page settings, the printing may not be performed properly if the page settings are not made. Be sure to always specify the page.

●If a specific number of colors (256 colors, 32,000 colors, 65,000 colors, or 16.7 million colors) are set at a specific video board, the Printer may be unable to print due to incompatibility with the display driver. Try changing the number of colors at the video board and printing again.

●The printable area with the Printer may be smaller than the area available with ink-jet and other printers. Consequently, a document created in A4 size, for instance, may not fit into the printable area of this Printer, resulting in the ends and sides being cut off. To remedy this, either reduce the size of the image using the application or select the next paper size up, such as Letter size, for printing.

Driver Software

Driver Software
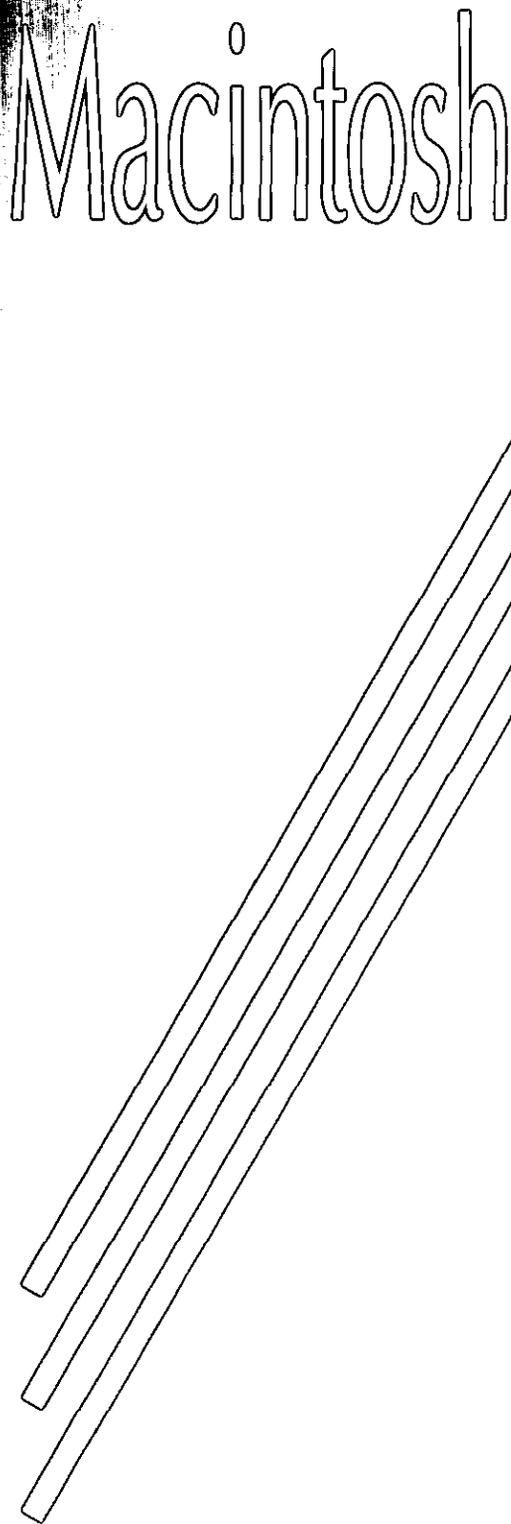
Macintosh

Introduction

The PV-PD2100 Digital Photo Printer can be used with Macintosh systems. Installing this printer driver in a Macintosh system allows the Photo Printer to be used as a full-color printer.

Trademarks

o The "Apple" name, Macintosh, System, AppleTalk, QuickDraw, QuickDraw GX and True Type are registered trademarks or trademarks of Apple Computer Inc.

o Other names, company names, and product names appearing in this manual are trademarks or registered trademarks of the respective companies.

Usage Agreement

The customer may only install this product in one computer system. You may not copy this product or transfer it to a third party in part or in whole, except for the sole purpose of backing up this software.

Notes

o The names of the products being used and the names in this manual may differ in some cases. The screen information shown in this manual may vary depending on the operating environment being used.

o No particular explanation is provided on the basic operations and terms for Macintosh systems or the Printer unit. Please refer to the respective Operating Instructions for this information.
Also, note that this manual does not provide explanations for basic computer terms.

o A file called [readme] is included on the Printer Driver CD-ROM. This file contains information and supplementary items which were unable to be included in this manual. Always read this file first. This file can be opened and read in the Macintosh OS applications [TeachText] or [SimpleText].

• Using with INIT/cdev
This printer driver is a selector level driver conforming to the Macintosh guidelines. The printer driver has already been confirmed for operation compatibility with the Macintosh standard system configuration. Operation cannot be guaranteed when used with other INIT/cdev.

• Application Memory Setting
In some applications, if there is little free memory, the printer may not print or the printing speed will be extremely slow.
When printing, close other applications or increase the value of the memory setting for the application.

Operating Environment

Compatible Computers

Macintosh series computers incorporating a 68030 or faster CPU

●Do not set the CPU cache in 68040 (68LC040) computers to OFF.

Possible Operating Environments

●OS

System 7 or later

This printer driver is compatible with QuickDraw output.

This printer driver is not compatible with System 7 QuickDrawGX.

●RAM

At least 16 MB is required (at least 32 MB is required for PowerMacintosh).

●Hard disk

Approximately 1 MB of hard disk space is required for installation.

At least 20 MB of free disk space is needed on the startup disk during the printing operation.

More RAM or hard disk space may be required depending on the printing contents.

Connecting the PC Connection Cable

The Macintosh and Printer are connected using the PC Connection Cable for Macintosh (supplied).

1
Turn off the Macintosh and Printer.

2
Insert the connector at one end of the PC Connection Cable (supplied) into the Macintosh Printer Port or Modem Port.

3
Insert the connector at the other end of the PC Connection Cable into the Printer SERIAL Socket, and then turn on the Macintosh and Printer.

To Printer Port or Modem Port

PC Connection Cable (supplied)

Printer Port   Modem Port

SERIAL Socket

Macintosh computer
(available at computer stores)
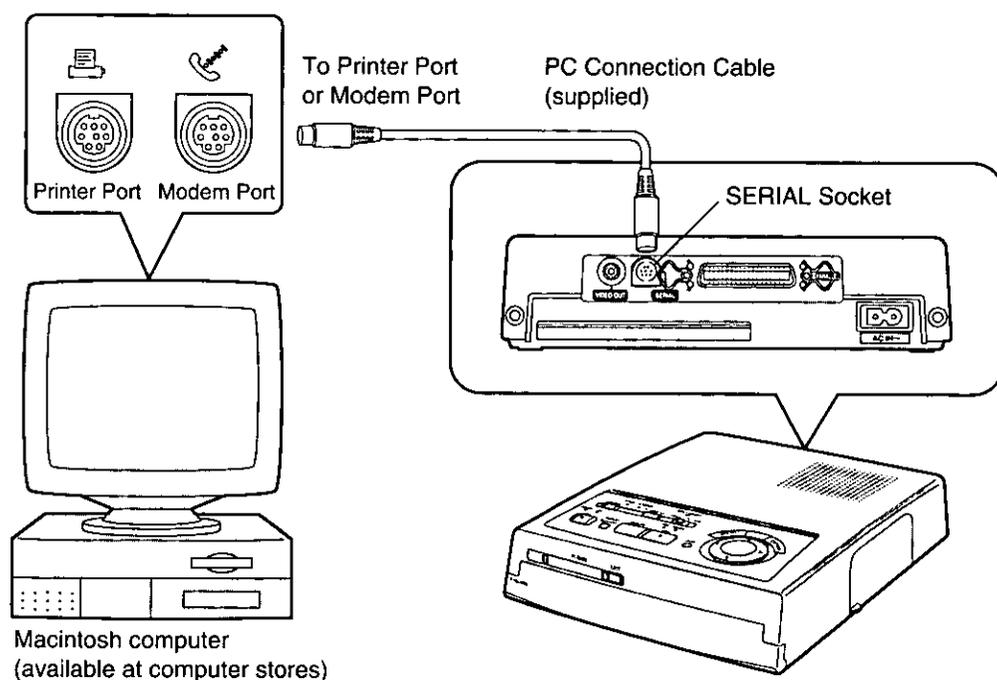
Driver Software

Driver Software (Cont.)

Installing the Printer Driver

This procedure for installing the printer driver to the Macintosh is described below.

1
Turn the Macintosh on.
● If using the Macintosh Performa series with the [At Ease] setting for startup, click [Go to Finder] from the File menu after starting up the Macintosh to display the Desktop.

2
Load the Printer Driver Software CD-ROM into the CD-ROM Drive, and double-click the [PV-PD2100] icon when it appears on the display.
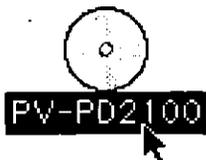
3
Double-click the [PV-PD2100 Installer] icon.
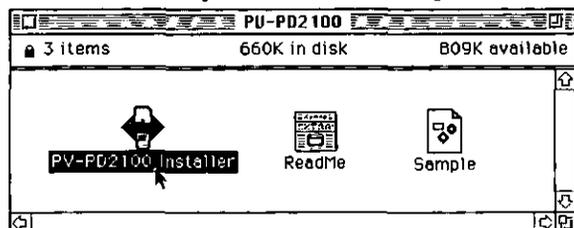
4
Click the [Continue] Button.
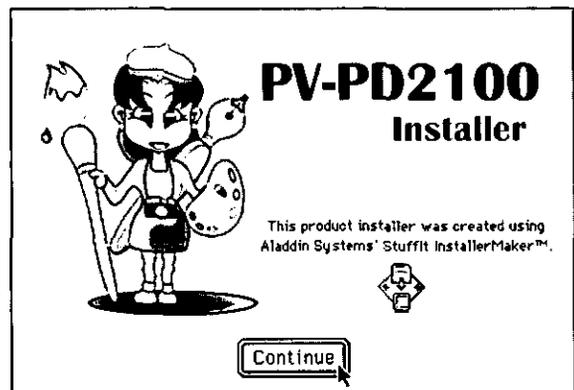
5
Click the [Install] Button.
● The printer driver is automatically installed to the function extension folder inside the system folder.
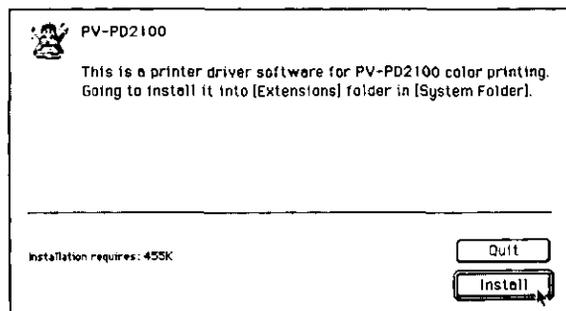
6
After installation, click the [Quit] Button to complete the installation procedure.
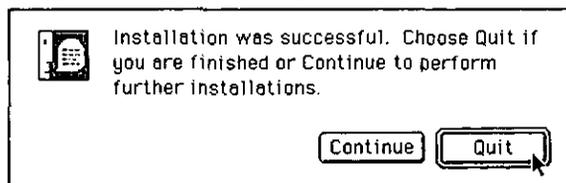
This completes the installation procedure.

Selecting the Printer Driver

The printer driver is selected after installation.

1

Select [Chooser] from the Apple menu.

🍎	File Edit Uiew Label Special
About This Macintosh...	
🍎 **Apple Uideo Player**	
🖭 **AppleCD Audio Player**	
📋 **Automated Tasks** ▶	
🖩 **Calculator**	
🖳 **Chooser**	
🖳 **Control Panels** ▶	
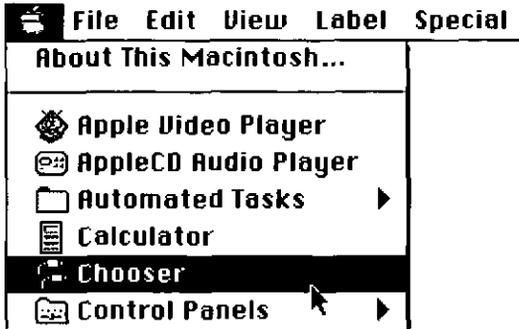
2

Select the Printer Driver icon in the Chooser window.

●Click the [PV-PD2100] icon. This selects the driver.
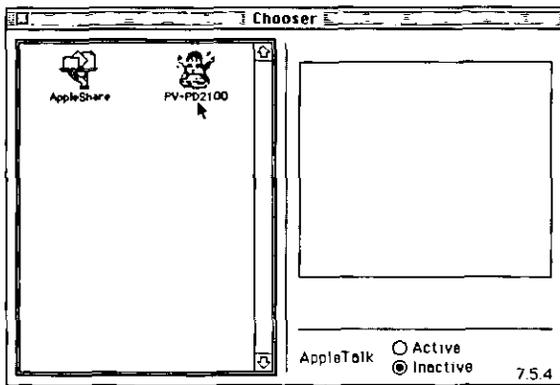
When the PV-PD2100 Printer Driver icon is not displayed in the Chooser window

●The printer driver has not been installed properly. Be sure to read "Installing the Printer Driver"(p.70) thoroughly before installing the software.

●QuickDrawGX is installed in the computer. This printer driver is compatible with QuickDraw; it is not compatible with QuickDrawGX.

●Control Panel settings may need to be made for some types of Macintosh computers and OS environments.

3

Select the output port.

●The output ports are displayed. Click the port that the PC Connection Cable is connected to.
(Some ports are unavailable depending on the type of Macintosh computer used and OS environment.)
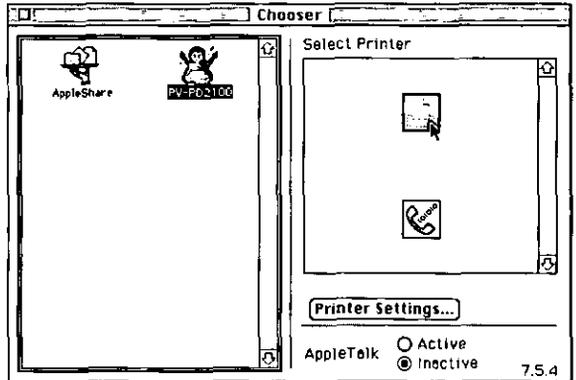
When using LocalTalk

●The PC Connection Cable cannot be connected to the printer port when using the LocalTalk network. In this case, connect the cable to the modem port. However, by setting [AppleTalk] to [Inactive], you can cut off the LocalTalk network connections and then use the printer port.

For networks not using EtherTalk printer ports

●The printer port can be used.

When using software occupying the serial port

●If using a communications modem, MIDI interface, or other device which connects to the serial port, the Printer may not print normally when connecting the PC Connection Cable even if the device is not actually connected. This fault occurs because the programs for operating the devices (in many cases, these files are function extension and Control Panel files) are activated when the Macintosh is started up and occupy the serial port. In this case, either deactivate the programs or connect the PC Connection Cable to a serial port not used by these programs. (Refer to the manual for the application being used for how to deactivate the programs.)

Driver Software

Driver Software

Selecting the Printer Driver (Cont.)

For Macintosh systems with only one serial port:
● The Printer may not print normally when using a
PowerBook Duo series computer with a built-in
ExpressModem or a Macintosh with a single,
shared port for the printer and modem. When using
these types of Macintosh systems, the following
settings must be made.

1. Set AppleTalk to [Inactive].
2. Change the file settings in the Control Panel.
    ● Select Control Panel from the Apple menu, and
    make the following settings.
    ● In the [PowerBook] file, change [Internal Modem]
    to [External Modem].
    ● In the [PowerBook Setup] file, change
    [Compatible] to [Standard].
    ● In the [ExpressModem] file, change [ON] to
    [OFF]. If there are modem settings here, then
    change [Internal Modem] to [External Modem].
    Some of the above settings may not be included
    in the Macintosh system that you are using. In
    this case, perform the settings only for the
    included items.
3. In the Chooser, set the Output Port to [Modem
Port].
    ● When selecting the Printer Driver at the
    [Chooser], designate the modem port as the
    output port.
    ● If the modem and printer share the same icon,
    then click this icon.

The setting procedure may vary depending on the
type of Macintosh system. Generally, the serial port
that the PC Connection Cable is connected to must
not be occupied by other devices or software. Please
refer to the instruction manuals for your Macintosh
system, peripheral devices, and software. Also, be
sure to refer to the Readme file on the CD-ROM
since it contains the most up-to date information.

Note
These instructions describe the installation of the driver software only. They do not describe the actual printing operation in any way. Click the Help Button in the respective dialog boxes and refer to the information which is then displayed.

Restrictions
●Using utilities which utilize virtual memory or increase the memory capacity may reduce the processing speed.
●The printable area with the Printer may be smaller than the area available with ink-jet and other printers. Consequently, a document created in A4 size, for instance, may not fit into the printable area of this Printer, resulting in the ends and sides being cut off. To remedy this, either reduce the size of the image using the application or select the next paper size up, such as Letter size, for printing.

Driver Software

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Precautions

Precautions When Using the Digital Photo Printer

- If the Photo Printer emits smoke, becomes unusually hot, or gives off an unusual smell, turn it off and unplug it.
- If water or other foreign matter gets inside the printer, turn it off and unplug it.
- If the surface of the printer becomes broken or cracked, turn it off and unplug it.
- If the power cable is damaged (such as the core wires being exposed), turn it off and unplug it.

- Do not use the Photo Printer in any way which overloads the electric outlet or wiring. Also, only AC 120 V should be used as the power supply for the Photo Printer.
- Make sure the plug is properly plugged in when using the Photo Printer.
- Do not damage the power cable or plug.
- Remove any dust or other foreign matter adhering to the power plug.
- Do not place the Photo Printer on unsteady, inclined, or other unstable surfaces.
- Do not place flower vases, containers with water, or small metal objects on the Photo Printer.
- Do not drop or insert metal or flammable objects inside the Photo Printer.
- Do not splash or wet the Photo Printer.
- Do not disassemble or remodel the Photo Printer.

- Do not touch the metal parts on the Photo Printer or the plug during a thunderstorm.
- Do not unplug with wet hands.
- Do not place the Photo Printer in locations with smoke, steam, high humidity, large amounts of dust, or severe vibrations.
- Do not install the Photo Printer in such a way that the power cable is forcibly bent.
- Do not cover the ventilation holes on the Photo Printer.
- Do not place heavy objects on the Photo Printer.
- Do not move the Photo Printer with the power cable plugged in.
- Do not unplug by pulling on the power cable.
- Remove the plug from the outlet as a safety measure when cleaning the Photo Printer or when the Photo Printer will not be used for a long period of time.
- Do not touch any internal components other than those specified.
- Do not remove the Paper Cassette while printing is in progress.
  During printing, the paper moves forward and backward three times. You can be cut if you touch the paper during this operation.

Notes on Handling the Digital Photo Printer

- Do not spray insecticides or other volatile materials on the printer.
  If such materials come into contact with the printer, they can damage the surface of the printer or cause the finish to peel. Also, do not leave rubber or vinyl materials in contact with the printer for an extended period of time.
- When the printer will not be used for an extended period of time:
  To conserve electricity, turn the printer off and unplug it.

Leaving the printer idle for long periods can impair its functionality. Be sure to turn the power on and operate the printer once every six months.
- When transporting the printer by car or truck:
  Pack the printer carefully in its original packing materials. If you did not retain the packing materials, wrap the printer carefully in a blanket or other cushioning material to protect it.
  (Before transporting the Photo Printer, be sure to first remove the Paper Cassette and Ink Cassette, and then close the cover.)

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Maintenance Notes

- Do not use benzene, paint thinner, or other solvents to clean the printer.
  Most of the printer surface is plastic. Do not use solvents such as benzene and paint thinner to wipe the printer since they can damage the surface of the printer and/or cause the surface to peel.
  To clean the printer surface, wipe off any dust with a soft, dry cloth.
  If the Photo Printer is particularly dirty, soak the cloth in kitchen detergent (neutral) diluted with water and wring out thoroughly. Then, wipe off the dust with the cloth, and wipe again with a dry cloth. When using a synthetic cloth, follow the precautions in the usage instructions.
- When dust accumulates around the ventilation holes on top of the printer:
  After removing the Ink Cassette, use a vacuum cleaner to clean the dust from the ventilation holes. Dust that enters the printer through the ventilation holes can adhere to the ink film, making high-quality printing impossible. In this event, remove the Ink Cassette, and then clean the dust off the ink film.

Installation Notes

- Install the Photo Printer away from devices that generate magnetic fields.
  The magnetic fields generated by stereo speakers or large monitors will distort the image produced by the Photo Printer.

  Electromagnetic waves produced in this Photo Printer and in televisions, video game machines, and other devices can cause mutual interference, disrupting both the display on the television screen and the print image.

Internal Temperature

- Although it varies with the ambient temperature, if the internal temperature of the Photo Printer rises above a certain level, the ERROR Lamp will flash and the error message "WAIT: COOLING" will appear on the television screen. In this situation, the printing operation will halt temporarily. This is not a malfunction. After waiting for a few minutes for the temperature to drop (four or five minutes at the most), the Photo Printer will automatically resume printing.
- The printing operation may be halted temporarily in any of the following cases, which will result in a longer than normal printing time:
  - When printing images continuously
  - When the ambient temperature is high
  - When the internal temperature of the printer rises quickly because the ventilation holes or other parts are blocked.
- Note that if two or more of these conditions exist, printing will take even longer. Therefore, make every effort to find a well-ventilated location for installing this printer.

Condensation

- When a bottle is taken out from a refrigerator in summer and left to stand for a while for instance, droplets of water will form on it. This phenomenon is known as condensation.
- Conditions for condensation
  Condensation will form if the printer or Print Set is moved to a location with a considerable difference in temperature or humidity, such as:
  - A high-humidity location, such as one filled with steam
  - When suddenly moved from an air-conditioned environment to one with high temperatures and high humidity
  - A room that has just been heated
  In this event, turn the power on and wait for two hours.
  If the paper or rollers are damp with condensation, the printed surface that is produced may be dirty.

Precautions (Cont.)

Notes on Handling the Ink Cassettes, Ink Cassette Film, Paper Cassette, and Paper

To ensure high-quality, precise printing, always observe the following points.
Failure to observe these points can not only result in poor-quality prints, but also paper jams or breakdown of the Photo Printer.

- Use only the specified paper.
  Use Print Sets that carry the 🖼 mark or 🖼 mark, or that have been specified for use with this Photo Printer by Panasonic.
- Use the Ink Cassette with the paper provided in the same box.
  One Ink Cassette is designed to provide enough ink film to print the number of sheets provided in that Print Set.
- Do not remove the label from the Ink Cassette.
  Doing so could lead to mistaken operation.
- Before loading an Ink Cassette, take up any slack in the ink film (wide tape inside the Ink Cassette). The slack can be taken up by turning the spool in the direction of the arrow.
- Make sure that the Ink Cassette is oriented properly and insert it all of the way in.
- Do not touch or pull on the ink film.
- Do not get fingerprints or dust on the ink film or on the paper.
- Do not get the ink film or the paper wet.
- Do not touch the Ink Cassette or the Paper Cassette while printing is in progress.
  The Ink Cassette cannot be taken out while printing is in progress.
  Forcibly pulling out the Ink Cassette, loading too much paper, or applying strong pressure or vibrations to the Paper Cassette could result in a paper jam or other malfunction.

(Do not take out the Paper Cassette and add paper while printing is in progress.)

- Do not attempt to reuse an empty Ink Cassette or paper which has already been printed on.
  Doing so could result in malfunction or breakdown of the Photo Printer.
- Fan the paper thoroughly before placing it in the Paper Cassette.
  Sheets that adhere to other sheets can cause a paper jam.
- Do not fold or bend the paper.
  If a postcard is curled, remove the curl before attempting to use the postcard in the printer.
- Do not load the paper upside-down.
  The glossy side of the paper with no markings on it is the printing side. The paper should be loaded with this side facing up.
- Do not write on the paper before printing on it.
  This could lead to mistaken operation.
- Do not load too much paper in the Paper Cassette.
  No more than 25 sheets should be loaded.
- Allow the Print Set to adjust to the ambient temperature before using it.
  If the Print Set has been stored at a low temperature, condensation could form on the paper when brought into a warmer room. Do not open the Print Set package until it has reached the room temperature.
- Do not leave printed paper above the Paper Cassette (in the Print Exit).
  Do not allow more than 10 sheets to accumulate above the Paper Cassette.
- Do not place objects above the Paper Cassette (in the Print Exit).

Notes on Print Set Storage

- Do not store the Ink Cassettes or paper under high temperatures or high humidity.
  Doing so could result in a deterioration of printing quality.
- Do not store the paper on its end.
  Store the paper flat in its original silver bag.
- Do not store Ink Cassettes or paper in a location exposed to direct sunlight.
  Doing so will result in a deterioration of printing quality. The Ink Cassette and paper could even

become unusable.
- After using the Photo Printer, remove the Ink Cassette and paper and put them back in storage.
  If the Ink Cassette is left in the Photo Printer, slack will develop in the ink film and dust will collect, which may make high-quality printing impossible.
  In order to keep leftover paper in optimum condition for as long as possible, remove the paper from the Photo Printer, and then place it in the original silver bag for storage.

Notes on Handling Finished Prints

In order to preserve finished prints in the best condition, always observe the following points. Failure to observe these points could result in a deterioration of print quality or a slight injury.
- Do not affix cellophane tape to the printed surface.
- Do not touch the printed surface with your fingers.
- Do not let the printed surface come into contact with other objects.
  Do not let the following materials in particular come into contact with the printed surface:
  - Desk pads or business card cases made of vinyl
  - Erasers made of plastic
- Do not spill or apply volatile solvents such as alcohol to the printed surface.
  Doing so could result in discoloration or fading.
- Do not leave printed surfaces in contact with one another.

Doing so could cause color transfer between the two images. Color transfer could also occur if a printed surface is left in contact with any other type of paper under pressure for an extended period of time.
- Do not store prints under conditions of high temperature or high humidity.
  Leaving prints under such conditions for an extended period of time could cause a deterioration in print quality. Do not leave prints exposed to direct sunlight.
- When prints are to be stored in an album, select an album that has nylon pockets.
  Other materials could cause color transfer or discoloration.
  (Polypropylene and cellophane are also acceptable materials.)

Notes on Dirty Thermal Heads

When lines begin to appear on the print surface and it is no longer possible to produce clean prints, it may mean that the thermal heads inside the Ink Cassette Compartment (the ▭ shaded area indicated in the illustration below) are dirty. In this case, clean the thermal heads right to the back with a cotton bud (15cm in length) available at stores.

[Notes]
- Clean the thermal heads after unplugging.
- Do not place your fingers inside the entrance to the Ink Cassette Compartment, as you may be injured.

Precautions, etc.
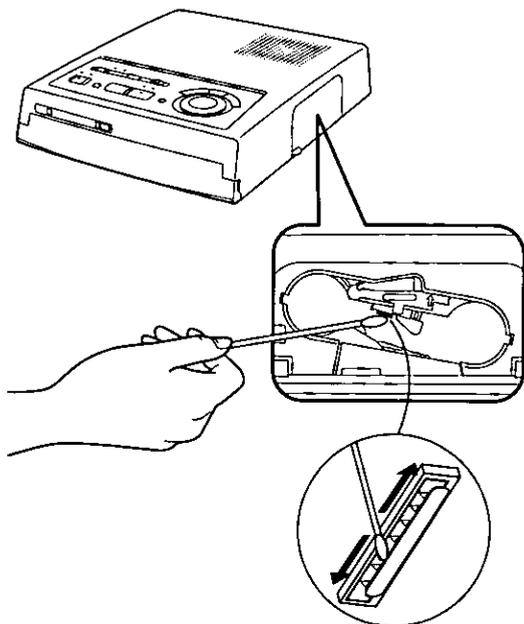
Before Requesting Service

Symptom		Cause / Remedy
The power cannot be switched on.	▶	●Insert the power plug all the way into a wall outlet.
No picture appears on the television screen. (Video Input)	▶	●Connect the external video source correctly. (p.10) ●A device is connected to an S-VIDEO IN Socket, but you are attempting to use a VIDEO IN Socket. → Unplug the S-Video Cable connected to the S-VIDEO IN Socket. ●The INPUT SELECT Switch is set to "VIDEO". (p.14)
The printer does not print.	▶	●The Ink Cassette is not oriented properly, or was not pushed all of the way in. (p.13) ●There is slack in the ink film. → Take up the slack in the ink film. (p.12) ●The Paper Cassette is not oriented properly, or was not pushed all of the way in. (p.13) ●The paper was loaded upside-down. (p.12) ●The internal temperature of the printer is too high. → Wait.
Printing is not of the expected quality.	▶	●The paper being used is not of the specified type. (p.9) ●The paper was not loaded correctly. (p.12) ●The thermal heads are dirty. → Clean the thermal heads. (p.77) ●Condensation has formed. → Wait.
The printed colors are not right.	▶	●The print image has not been adjusted correctly. (p.18)
The printed pictures are distorted.	▶	●The printer is located near a television, video game machine or other source of electromagnetic waves. → Move the printer so that it is at least one meter away from the television, video game machine, etc. ●The printer is located near a stereo speaker, large motor, or other source of a strong magnetic field. → Move the printer away from the device generating the magnetic field.
Pressing the MEMORY Button does not store the picture in memory.	▶	●The television screen is displaying the memory screen. → Press the DISPLAY/MONITOR Button to display the video source picture on the screen. (p.15)
The printer does not respond when a button is pressed.	▶	●The internal temperature of the printer is too high. → Wait. ●Printing is in progress. → Wait until printing is complete.
Paper jams occur frequently.	▶	●More than 25 sheets of paper have been loaded in the Paper Cassette. (p.12) ●More than 10 sheets of paper have accumulated in the Print Exit. (p.15) ●The paper is creased or curled.
The MENU Screen does not appear.	▶	●The Photo Printer is not connected properly to the television. (p.10) ●Printing is in progress. → Wait until printing is complete.

Symptom	Cause / Remedy
No picture appears on the television screen. (PC Card input)	● The CF Card or Smart Media is not correctly inserted in the adapter. (p.26) ● The PC Card is not correctly inserted in the printer. (p.27) ● The INPUT SELECT Switch is set to "PC CARD". (p.28) ● A card with an incompatible format is being used. → This card cannot be used with this printer.
It takes time for the image to appear.	● Depending on the image system for storing the images in the PC Card and its capacity, it can take 20 to 30 seconds to display the image. → This is not a malfunction.
Multiple images from the PC Card cannot be all printed at once.	● The printing of only one image has been selected by the setting performed in the DPOF unit.
Images in the PC Card cannot be erased, or cannot be erased at once.	● There are no images stored in the PC Card. ● The image is set to write-protect in the camera or computer. → Change the write-protect setting in the camera or computer, and then erase. ● Images can only be erased one at a time.
Video images cannot be recorded in the PC Card.	● The INPUT SELECT Switch is set to "VIDEO". (p.40) ● The PC Card is set to write-protect. ● The PC Card is full. → Either erase unneeded images (p.40) or use another PC Card with sufficient capacity.
The video image was stored in the PC Card, but the image is not clear.	● In some cases, image compression may deteriorate the quality of image when storing. → This is not a malfunction.
The printer cannot be used as a computer printer.	● The printer and computer are not connected correctly. (p.57,69) ● The INPUT SELECT Switch is set to "PC". (p.58,62) ● You are not using the proper PC Connection Cable for your computer. ● The printer driver software is not installed or is not installed correctly. (p.58,62,70)

Precautions, etc.

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Error Messages/Specifications

Error Messages

When an error occurs, an error message appears in the center of the television screen to notify you. The ERROR Lamp also flashes.

Error Message	Remedy
SET PAPER	Insert the printing paper correctly. (p.12)
REMOVE PAPER AND PUSH [PRINT]	Remove the jammed paper (p.15) and insert the specified printing paper (p.9,12).
CHECK PAPER TYPE	
REMOVE JAMMED PAPER	
CHECK PAPER TYPE	Insert the specified printing paper (p.9) correctly. (p.12)
SET PAPER PROPERLY	
NO PAPER CASSETTE	Insert the Paper Cassette. (p.13)
REMOVE JAMMED PAPER	Remove the jammed paper. (p.15)
NO INK	Replace the Ink Cassette with a new one. (p.13)
CHECK INK TYPE	Use the specified Ink Cassette. (p.9)
NO INK CASSETTE	Insert the Ink Cassette. (p.13)
WAIT	Wait for a moment.
WAIT:COOLING	Internal temperature (p.75)
NO CARD	Insert the card. (p.27)
CAN NOT USE THIS CARD	Insert a card which can be used. (p.27)
CAN NOT RECORD	Either the card is full or an incompatible card is being used. Either erase unneeded images (p.40), or use another card.
CAN NOT DELETE	The card is delete-protected. Refer to the operating instructions for the card for details on how to release it from this status.
NO IMAGE IN THIS CARD	Use a card with images recorded on it.
UNREADABLE IMAGE	Either the image format is incompatible or the data has been destroyed.
NO ILLUSTRATION IN THIS CARD	Use a card containing Title data.
ILLUSTRATION DATA ERROR	Either the Title format is incompatible or the Title data has been destroyed.

●If F00 or other error message appears, contact your nearest Panasonic dealer.

Specifications

Information for Your Safety

Power Supply	AC 120 V 50/60 Hz
Power Consumption	During printing: Approx. 1.1 A, When the power is ON: 0.14 A, During STANDBY: 0.03 A (with electrical current)
Printing System	Thermal sublimation transfer printing system
Printing Speed	Approx. 83 s / sheet
	Overcoat Paper prints: Approx. 110 s / sheet
Picture Memory	8-bit, 1 frame
Print Media	
●Ink Film	Cassette type (exclusive)
	3 color field successive printing (yellow, magenta, cyan)
●Printing Paper	Cut sheets 100 × 148 mm (postcard size)
	Screen dimensions: Video mode: 82 × 107 mm
	Card mode: 85 × 120 mm
	Computer mode: 85 × 114 mm

Paper Feeding System	Automatic paper feed (holds 25 sheets of Overcoat Paper, Standard Paper, Adhesive Back Paper or Sticker Paper)
Picture Quality	256 color gradations
Number of Printing Pixels	Video mode: 990×1296 dots, 306×306/dpi Card mode: 1024×1450 dots, 306×306/dpi Computer mode: 1024×1380 dots, 306×306/dpi
Number of Copies	Video/Card mode: Max. 10 sheets Computer mode: Max. 99 sheets
Functions	Video mode: Single Screen, Album Print, Strobe Print, Multi Frame Print, Title, Zoom, PinP, Calendar, Wide, Card Storage, Text Card mode: Single Screen, Album Print, Multi Frame Print, Title, Zoom, PinP, Calendar, Card Erase, Auto Print, Text, Date print, Index print Computer mode: Single Screen, Multi Frame Print DPOF (Digital Print Order Format) compatible
Print Head	Film Thermal Head 12.05 dots/mm
Input Sockets	
●**S-VIDEO IN Socket**	Y(luminance signal) 1 Vp-p, 75 ohm, C(color signal) 0.3 Vp-p, 75 ohm (front: 1)
●**VIDEO IN Socket**	RCA pin socket 1 Vp-p, 75 ohm (front: 1)
●**EDIT Socket**	DVC linking mini DIN 5 pin (front: 1)
●**PARALLEL Socket**	Centronics standard 36 pin (rear: 1)
●**SERIAL Socket**	Macintosh serial port 8 pin (rear: 1)
●**PC Card**	PC Card type II (CF Card and Smart Media are compatible with the adapter) (front: 1)
●**Input Switch**	Video mode: S-VIDEO takes precedence when both S-VIDEO and VIDEO are connected. Computer mode: When both the SERIAL Socket and PARALLEL Socket are connected, you can switch to the side to be used.
Output Socket	
●**VIDEO OUT Socket**	RCA pin socket 1 Vp-p, 75 ohm (rear: 1)
Compatible Computers	
●**Windows**	PC/AT compatible system with 80486SX or faster CPU OS: Windows 98, Windows 95 Memory: 32 MB or more (Windows 98, Windows 95)
●**Macintosh**	Macintosh series with 68030 or faster CPU OS: System 7.1 or later Memory: 16 MB or more (Power Macintosh 32 MB or more)
Compatible PC Cards	
●**Standards**	PCMCIA2.1 / JEIDA4.2 and PCMCIA ATA 1.02 standard
●**Formats**	DOS Format
●**Image Formats**	JPEG baseline system (JFIF, EXIF, DCF [Design rule for Camera File System], CIFF, SISRIF) TIFF (Baseline TIFF Rev.6.0 RGB Full Color Images standard)
●**Number of Readable Pixels**	320×240 (QVGA) to 3072×2048 (4BASE) Sub sampling 4:4:4, 4:2:2, 4:2:0, 4:1:1
●**Recorded Image**	JPEG baseline system (DCF [Design rule for Camera File System] standard) Sub sampling 4:2:2
●**Number of Recorded Images**	Approx. 12 images (2 MB card)
●**Decompression Time**	Approx. 7 seconds (VGA image)
Allowable Operating Temperature	5 °C $-$ 35 °C (41 °F - 95 °F)
Allowable Operating Humidity	35% $-$ 80%
External Dimensions	Approx. 8 7/8" (W) $\times$ 2 1/2" (H) $\times$ 10 15/16" (D) [Approx. 225 (W) $\times$ 62 (H) $\times$ 277 (D) mm]
Weight	Approx. 3.96 lbs (1.8 kg)

Precautions, etc.

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Warranty

Panasonic Consumer Electronics Company, Division of Matsushita Electric Corporation of America
One Panasonic Way Secaucus,
New Jersey 07094

Panasonic Sales Company, Division of Matsushita Electric of Puerto Rico, Inc.
Ave. 65 de Infantería. Km. 9.5
San Gabriel Industrial Park, Carolina, Puerto Rico 00985

PANASONIC / QUASAR Video Products
Limited Warranty

Panasonic Consumer Electronics Company of Panasonic Sales Company (collectively referred to as "the Warrantor") will repair this product with new or refurbished parts, free of charge, in the USA or Puerto Rico, in the event of a defect in materials or workmanship as follows (all time periods commence from the date of the original purchase):

PRODUCT	PARTS	LABOR
DIGITAL PHOTO PRINTER	ONE (1) YEAR	NINETY (90) DAYS

Batteries (if included) - New rechargeable batteries in exchange for defective rechargeable batteries for ten (10) days. Non-rechargeable batteries are not warranted.
Tape (if included) - New video cassette tape in exchange for a defective video cassette tape for five (5) days.
In-home, carry-in or mail-in service, as applicable, in the USA can be obtained during the warranty period by contacting a Panasonic Services Company (PASC) Factory Servicenter listed in the Service Directory.
Or call toll free 1-800-272-7033, to locate an authorized PASC Servicenter. Carry-in or mail-in service in Puerto Rico can be obtained during the warranty period by calling the Panasonic Sales Company telephone number listed in the Servicenter Directory. This warranty is extended only to the original purchaser.
A purchase receipt or other proof of the date of the original purchase is requires before warranty service is rendered.
This warranty only covers failures due to defects in materials and workmanship which occur during normal use and does not cover normal maintenance, including, but not limited to, video and audio head cleaning, and does not cover consumable materials such as printing paper and ink cassette. The warranty does not cover damage which occurs in shipment, or failures which are caused products not supplied by the warrantor, or failures which result from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, modification, faulty installation, set-up adjustments, improper antenna, inadequate signal pickup, maladjustment of consumer controls, improper operation, power line surge, improper voltage supply, lightning damage, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a PASC Factory Servicenter or a PASC authorized Servicenter, or damage that is attributable to acts of God.

LIMITS AND EXCLUSIONS
There are no express warranties except as listed above. THE WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES) RESULTING FROM THE USE OF THIS PRODUCTS, OR ARISING OUT OF ANY BREACH OF THE WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.
This warranty gives you specific legal rights and you may also have other rights which vary from state to state.
If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the Customer Satisfaction Center at the Panasonic Consumer Electronics Company address above.
SERVICE CALLS WHICH DO NOT INVOLVE DEFECTIVE MATERIALS OR WORKMANSHIP AS DETERMINED BY THE WARRANTOR, IN ITS SOLE DISCRETION, ARE NOT COVERED.
COSTS OF SUCH SERVICE CALLS ARE THE RESPONSIBILITY OF THE PURCHASER.
warvid 10/24/97

Servicenter Directory

For Product Information, Operating Assistance, Literature Request, Dealer Locations, and all Customer Service inquiries please contact:

1-800-272-7033, Monday-Friday 9am-8pm EST.

Web Site: http://www.Panasonic.com
You can purchase parts, accessories or locate your nearest servicenter by visiting our Web Site.

Product Repairs

Centralized Factory Servicenter

Panasonic Services Company

MAIL TO: 6550 Katella Avenue
Cypress, CA 90630
Attention: Digital Photo Printer

Please carefully pack and ship, prepaid and insured, to the Cypress centralized repair Factory Servicenter. While there will be added handling delays, you may bring your unit to one of the following locations who will then forward the unit to Cypress for repair.
Customer's in Puerto Rico, please ship or carry in to location below ("Service in Puerto Rico").

Factory Servicenter Locations

CALIFORNIA
800 Dubuque Avenue
S. San Francisco,
CA 94080

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Precautions, etc.

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