COM

BIIS 1200
Compatible

OPERATING GUIDE FOR IC-F50V/F60V SERIES BIIS 1200 OPERATION

Icom Inc.

IMPORTANT

Thank you for purchasing this Icom radio. The BIIS 1200 system function is available for your IC-F50V/F60V series radio.

READ ALL INSTRUCTIONS carefully and completely before using the transceiver.

SAVE THIS OPERATING GUIDE — This operating guide contains important operating instructions for;
• **IC-F50V/F51V** VHF TRANSCEIVERS
• **IC-F60V/F61V** UHF TRANSCEIVERS

%**NOTE: DO NOT** operate the transceiver near unshielded electrical
% blasting caps or in an explosive atmosphere. The IC-F50V/F60V
% series transceivers are not the explosion-proof construction.

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■ Programmable function keys

The following functions can be assigned to **[P0]**, **[P1]**, **[P2]**, **[P3]**, **[Red]**, **[▼]** and **[▲]** programmable function keys.

Consult your Icom dealer or system operator for details concerning your transceivers programming.

If the programmable function names are bracketed in the following explanations, the specific switch used to activate the function depends on programming.

DIGITAL BUTTON KEY
➡ Push to select the call ID list, transmit message and standby condition. Toggles between queue channel and received message record indication after queue channel is selected.
➡ Push and hold to select queue channel indication.

STATUS UP/DOWN KEYS
➡ While in the standby condition, push to display the transmit status indication and select a status number.
➡ When a received SDM is displayed, push to cancel the automatic scroll and scroll the message manually.
➡ When an SDM that contains more than 8 characters is displayed, push to scroll the message manually.
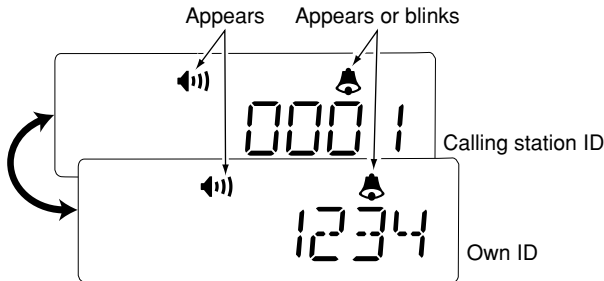
2 OPERATION
■ **Default setting**

The following functions are assigned to each programmable key as the default. However, the assigned function can be changed by your dealer. Ask your dealer for details.

[P0]; Call   : Push to transmit a BIIS code when the selected channel is a MSK channel.

[P1]; Digital Button : Push to select the call list ID/transmit message, or push to display the receive message record for selection.

[P3]; Moni(Audi)   : Push this key after the communication to send a 'clear down' signal during MSK channel operation.

[▼]/[▲]; CH Down/Up

                 : While in the standby condition, push to select the operating channel.
After pushing [Digital] or [TX Code CH Select], push to select call list or TX code channel, respectively.

[P2]/[Red]; Null   : No function is assigned.

■ **Receiving a call**

◇ **Individual call**

① When an individual call is received;
  • Beeps sound.
  • The transceiver vibrates depending on the setting.
  • " 📢 " appears and the mute is released.
  • " 🔔 " appears or blinks depending on the setting.
  • The own ID (or text) and the calling station ID (or text) is displayed alternately, depending on the setting.

Appears   Appears or blinks

Calling station ID

Own ID

② Push and hold [PTT], then speak into the microphone at a normal voice level.
  • Transmit/Busy indicator lights red.
③ Release [PTT] to return to receive.
  • Transmit/Busy indicator lights green while receiving a signal.
④ To finish the conversation, push [P3] (Moni(Audi)) to send the 'Clear down' signal.
  • Either station can send a clear down signal.
  • "CLR DOWN" is displayed for 2 sec. (approx.).
  • " 📢 " disappears and the transceiver returns to the standby condition.

◇ **Group call**

① When a group call is received;
   • Beeps sound.
   • The transceiver vibrates depending on the setting.
   • " ◀ı) " appears and the mute is released.
   • " 🔔 " appears or blinks depending on the setting.
   • The group ID (or text) and the calling station ID (or text) is displayed alternately, depending on the setting.

Appears   Appears or blinks

◀ı)   🔔

0001   Calling station ID

◀ı)   🔔

4001   Group ID

② Push and hold [PTT], then speak into the microphone at a normal voice level.

   ✍ **NOTE:** Only one station is permitted to speak.

   • Transmit/Busy indicator lights red.

③ Release [PTT] to return to receive.

   • Transmit/Busy indicator lights green while receiving a signal.

④ To finish the conversation, push [P3] (Moni(Audi)) to send the 'Clear down' signal.

   • Either station can send a clear down signal.
   • "CLR DOWN" is displayed for 2 sec. (approx.)
   • " ◀ı) " disappears and the transceiver returns to the standby condition.

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◇ **Displaying the received call record — Queue indication**

The transceiver memorizes the calling station ID in the memory. Up to 3 calls can be memorized, and the oldest call record is erased when a 4th call is received. However, once the transceiver is powered OFF, the all records are cleared.

① Push and hold [P1] (Digital) for 1 sec.
  • Displays queue memory.

When a record is available

$$\boxed{\text{--}QUEUE\text{1}\text{--}}$$
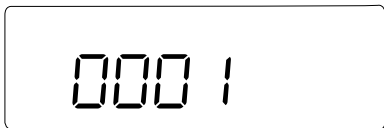
When no record is available

$$\boxed{NO \; QUEUE}$$

② Push [▼]/[▲] to select the desired call.
③ Push and hold [P1] (Digital) for 1 sec. again to return to the standby condition.
  • When no operation is performed for 30 sec., the transceiver returns to the standby condition automatically.

■ **Transmitting a call**

A total of 3 ways for code selection are available— selecting the call code from memory, entering the call code from the keypad and calling back from the queue channel record.

◇ **Using call memory**

① While in the standby condition, push [P1] (Digital) to enter the call code memory channel selection mode.

$$
\boxed{0001}
$$

Call code memory is displayed.

② Push [▼]/[▲] to select the desired call code.

③ Push [P0] (Call) or [PTT]* to call.

   *PTT call can be made only when PTT call capability is permitted.

   NOTE: When no answer back is received, the transceiver repeats the call 3 times (default) automatically, and "WAIT" is displayed during each call. However, an error beep sounds and "FAILED" is displayed when no answer back is received after the calls.

④ Push [PTT] to transmit; release to receive.

⑤ Push [P3] (Moni(Audi)) to send the 'Clear down' signal.

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◇ **Calling back from the queue channel**

① While in the standby condition, push and hold [P1] (Digital) for
1 sec. to enter queue memory channel selection mode.

$$-- QUEUE1 --$$

② Push [▼]/[▲] to select the desired record.

③ Push [P0] (Call) or [PTT]* to call.

*PTT call can be made only when PTT call capability is permitted.
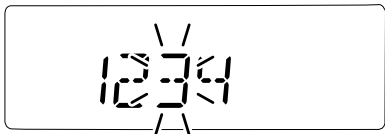
> **NOTE:** When no answer back is received, the transceiver re-
> peats the call 3 times (default) automatically, and "WAIT" is
> displayed during each call. However, an error beep sounds
> and "FAILED" is displayed when no answer back is received
> after the calls.

④ Push [PTT] to transmit; release to receive.

⑤ Push [P3] (Moni(Audi)) to send the 'Clear down' signal.

◇ **Direct code entry**

① While in the standby condition, push [TX Code Enter] to enter the TX code edit mode.
   • Code digit for editing blinks.

$$1234$$

② Push [TX Code Enter] to select the desired digit to be edited.
   • Digit for editing differs according to the setting.
③ Set the desired digit using [▼]/[▲].
④ Push [TX Code Enter] to set the digit, then the digit to the right will blink automatically.
⑤ Repeat ③ and ④ to input all allowable digits.
⑥ Push [P0] (Call) or [PTT]* to call.
   *PTT call can be made only when PTT call capability is permitted.

   NOTE: When no answer back is received, the transceiver repeats the call 3 times (default) automatically, and "WAIT" is displayed during each call. However, an error beep sounds and "FAILED" is displayed when no answer back is received after the calls.

⑦ Push [PTT] to transmit; release to receive.
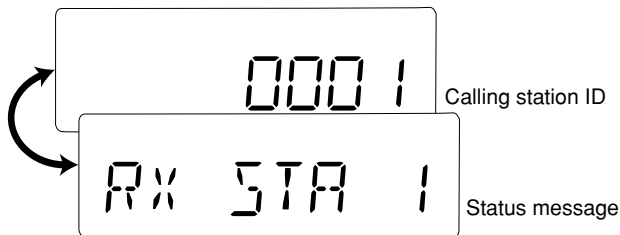⑧ Push [P3] (Moni(Audi)) to send the "Clear down" signal.

For your information
When the 'UpDate' setting for the call code is enabled, the set code is overwritten into the call code memory.

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■ **Receiving a message**

◇ **Receiving a status message**

① When a status message is received;
  • Beeps sound.
  • The transceiver vibrates depending on the setting.
  • The calling station ID (or text) and the status message is displayed alternately, depending on the setting.

$$\boxed{0001}$$ Calling station ID

$$\boxed{RX\ STA\ 1}$$ Status message

② Push [P3] (Moni(Audi)) to return to the standby condition.

NOTE: Only the calling station ID (or text) is displayed (no message is displayed alternately) when the scroll timer is set to 'OFF.' In this case, push [Status Up] or [Status Down] to display the status message manually.

◇ **Receiving an SDM**

① When an SDM is received;
   • Beeps sound.
   • The transceiver vibrates depending on the setting.
   • The calling station ID (or text) and the SDM is displayed alternately,
     depending on the setting.

Calling station ID

SDM

② When the received SDM includes more than 8 characters, the
   message scrolls automatically, when the automatic scroll func-
   tion is activated.

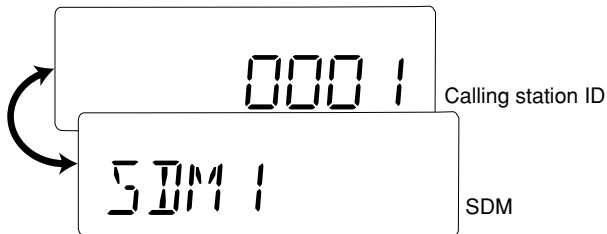   • Push [Status Up]/[Status Down] to scroll the message manually.

③ Push [P3] (Moni(Audi)) to return to the standby condition.

   NOTE: Only the calling station ID (or text) is displayed (no
   message is displayed alternately) when the scroll timer is set
   to 'OFF.' In this case, push [Status Up] or [Status Down] to dis-
   play the SDM manually.
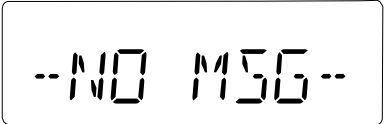
◇ **Received message selection**

The transceiver memorizes the received messages in the memory. Up to 6 messages for status and SDM, or 95 character SDM's can be memorized. The oldest message is erased when the 7th message is received. However, once the transceiver is powered OFF, all messages are cleared.

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① Push and hold [P1] (Digital) for 1 sec.
  • Displays queue memory.
② Push [P1] (Digital) momentarily.
  • Displays message memory.

   When a message is available

$$-- \quad MSG1 \quad --$$

   When no message is available

$$--NO \quad MSG--$$

③ Push [▼]/[▲] to select the desired message.
  • When selecting the SDM that includes more than 8 characters, the message scrolls automatically when the automatic scroll function is activated.
  • Push [Status Up]/[Status Down] to scroll the message manually.
④ Push and hold [P1] (Digital) for 1 sec. again to return to the standby condition.
  • When no operation is performed for 30 sec., the transceiver returns to the standby condition automatically.

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■ **Transmitting a status**

◇ **General**

The status message can be selected with the programmed text, and the message text is also displayed on the function display of the called station.

Up to 24 status types (1 to 24) are available, and the status messages 22 and 24 have designated meanings.

Status 22: Emergency*
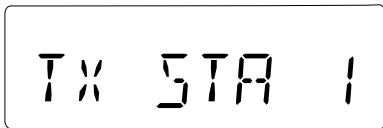
Status 24: GPS request

*The status 22 can also be used as a normal status message by disabling the designated meaning. However, the status 24 is fixed.

The status call can be sent with both individual and group calls.

◇ **Transmitting a status**

①While in the standby condition, push [P1] (Digital), then push [▼]/[▲] to select the desired station/group code.

②Push [P1] (Digital) again, then push [▼]/[▲] to select the desired status message.

Or, you can select the desired status message directly using [Status Up]/[Status Down] key, if assigned.

$$TX \ STR \ 1$$

Status message is displayed.

③Push [P0] (Call) or [PTT]* to transmit the status message to the selected station/group.

*PTT call can be made only when PTT call capability is permitted.

• 2 beeps will sound and the transceiver returns to the standby condition automatically when the transmission is successful.

■ **Transmitting an SDM**

◇ **General**

The short data message, SDM, can be sent to an individual station or group stations. Also, 8 SDM memory channels are available and the messages can be edited via PC programming.

◇ **Transmitting an SDM**

① While in the standby condition, push [P1] (Digital), then push [▼]/[▲] to select the desired station/group code.

② Push [P1] (Digital) again, then push [▼]/[▲] to select the desired SDM.

Or, you can select the desired SDM using [Status Up]/[Status Down] key directly.

$$\boxed{\text{SDM }8}$$

SDM is displayed.

③ Push [P0] (Call) or [PTT]* to transmit the SDM to the selected station/group.

*PTT call can be made only when PTT call capability is permitted.

• 2 beeps will sound and the transceiver returns to the standby condition automatically when the transmission is successful.

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■ **Position data transmission**

When the optional OPC-966 INTERFACE CABLE and a GPS receiver is connected to the transceiver, the position (longitude and latitude) data can be transmitted automatically.
Ask your dealer or system operator for connection details.

The position data is transmitted when;
- Status 24 message is received
  *When the status 24 message, GPS request, is received.
- Fully automatic
  When automatic position transmission is enabled, send the position data according to 'Time Marker' and 'Interval Timer' settings.
- PTT is released
  When 'Send with Logoff' is enabled.
  - Set the "Log-In/Off" item as "L-OFF."
- After sending a status message
  When 'Send with Status' is enabled.
- After sending an SDM
  When 'Send with SDM' is enabled.
- After sending status 22 (Emergency)
  When 'Send with Emergency' is enabled.

■ **Printer connection**

When the optional OPC-966 INTERFACE CABLE is connected to the transceiver, a printer can be connected to print out the received SDM content and the ID of the station who sent the message.
Ask your dealer or system operator for connection details.

■ **PC connection**

When the optional OPC-966 INTERFACE CABLE is connected to the transceiver, a PC can be connected to provide remote control, data reception, etc.
Ask your dealer or system operator for connection details.

■ **Digital ANI**

The own ID can be transmitted each time the PTT is pushed (log-in) or released (log-off) during individual or group call communications. By receiving the ANI, the communication log can be recorded when using a PC dispatch application.

In addition, when using the ANI with log-in, the PTT side tone function can be used to inform you that the ID is sent and voice communication can be performed.

■ **Emergency transmission**

When [Emergency] is pushed, an emergency signal is automatically transmitted for the specified time period.

The status 22 (Emergency) is sent to the selected ID station, and the position data is transmitted after the emergency signal when a GPS receiver is connected to the transceiver.

The emergency transmission is performed on the emergency channel, however, when no emergency channel is specified, the signal is transmitted on the previously selected channel.

■ **Stun function**

When the specified ID, set as a killer ID, is received, the stun function is activated.

When the killer ID is received, the transceiver switches to the passcode required condition. Entering of the passcode via the keypad is necessary to operate the transceiver again in this case.

■ BIIS indication

The following indications are available for the BIIS operation on an MSK channel.

CONNECT : Individual/group call is successful.
OK : Message (status or SDM) transmission is successful.
FAILED : No answer back is received.
WAIT : Appears during retry of the call (2nd call).
CLR DOWN : End the communication.
BUSY : Operating channel is in the busy condition.

■ Priority A channel selection

When one of the following operations is performed, the transceiver selects the Priority A channel automatically.

Priority A is selected when;
• Clear down signal is received/transmitted
  - Set the "Move to PrioA CH" item as "Clear Down."
• Turning the power ON
  The Priority A channel is selected each time the transceiver power is turned ON.
• Status call
  The Priority A channel is selected when transmitting a status call.
  - Enable the "Send Status on PrioA CH" item in the MSK configuration.

Count on us!