ID−5100A/ID−5100E Firmware update information— Release E3

Thank you for using the Icom Download Service.
The Release E3 firmware update will provide the following additional functions or changes to your transceiver.
The first time you update, thoroughly read "Firmware update instructions" for details.

IMPORTANT!

We strongly recommend you to backup all the transceiver's data to an SD card or to a PC before starting the firmware update.

When the firmware is updated, memory and data contents will be deleted and settings will be returned to their default value.

You cannot revert to an older firmware version after you have updated the firmware.

■ Additions and changes

➥ Adds a split tone. (p. 1)
➥ Increases the number of the repeater lists, call sign memories, and GPS memories. (p. 2)
➥ Improves the cooling fan control (p. 2)
➥ Displays the previously displayed item in the Quick menu. (p. 2)
➥ Improves the DV scan (p. 2)
➥ Improves the Auto dimmer (p. 2)

➥ Adds the "Clock/Voltage Display" menu. (p. 3)
➥ Adds the "Backlight Night Time Setting" menu. (p. 3)
➥ Adds the Sub band mute for transmitting. (p. 4)
➥ Adds an extra save format to use when saving the settings onto an SD card. (p, 4)
➥ Adds the Bluetooth® headset function. (p. 5)
➥ Improves using the RS-MS1A (p. 5)
➥ Adds new CI-V commands. (p. 6)

■ Split tone

You can transmit and receive with different tones.
The split tone options are displayed when you set any tone squelch function in the FM mode or the FM-N mode.

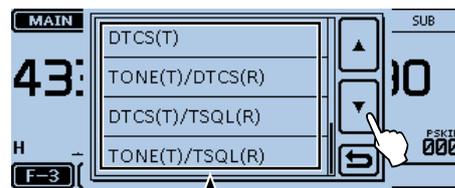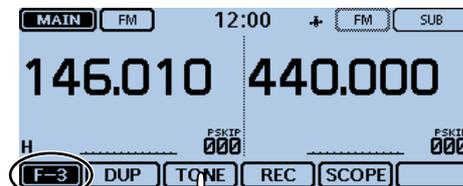① Touch the Function group icon one or more times. Select the F-3 menu.
② Touch [TONE].
Enters the tone setting mode.
③ Touch the desired option.
The options shown in bold letters are new options.

➥ "TONE"   Repeater Tone
➥ "TSQL((•))"   Pocket Beep by Tone Squelch
➥ "TSQL"   Tone squelch
➥ "DTCS((•))"   Pocket Beep by DTCS Code Squelch
➥ "DTCS"   DTCS Code Squelch
➥ "TSQL-R"   Reverse Tone Squelch
➥ "DTCS-R"   Reverse DTCS Code Squelch
➥ "**DTCS (T)**"   TX: DTCS, RX: OFF
                      • "DTCS" blinks.
➥ "**TONE (T)/DTCS (R)**" TX: TONE, RX: DTCS
                      • "T-DTCS" is displayed ("T" blinks).
➥ "**DTCS (T)/TSQL (R)**" TX: DTCS, RX: CTCSS
                      • "D-TSQL" is displayed ("D" blinks).
➥ "**TONE (T)/TSQL (R)**" TX: TONE, RX: CTCSS
                      • "T-TSQL" is displayed ("T" blinks).

New options

■ Repeater lists/Call sign memory/GPS memory

The number of the repeater lists, call sign memory, and GPS memory is increased.

- Number of repeater lists: 1,200   → 1,500
  30 groups → 50 groups
- Number of call sign memory: 200   → 300
- Number of GPS memory: 200   → 300

■ Cooling fan

The cooling fan control is improved to reduce the fan running time.

■ About the Quick menu

The previously selected item is displayed, even if you turn OFF and restart the transceiver.

■ DV Scan improvement

The DV scan stops when the signal is received and a standby beep sounds.

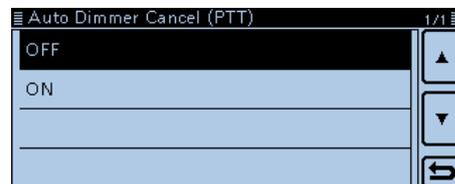# ■ Auto Dimmer

◇ Added items
The following items are added into the "Display" screen.

Auto Dimmer Cancel (PTT)   (Default: OFF)

Display > Auto Dimmer Setting > Auto Dimmer Cancel (PTT)

Select the transceiver operation for when [PTT] is pushed while the Auto dimmer is activated.
- OFF: Pushing [PTT] transmits a signal without turning OFF the Auto dimmer when the Auto dimmer is activated.
- ON: Pushing [PTT] turns OFF the Auto dimmer and then transmits a signal when the Auto dimmer is activated.
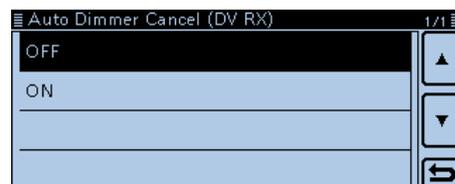
Auto Dimmer Cancel (DV RX) (Default: OFF)

Display > Auto Dimmer Setting > Auto Dimmer Cancel (DV RX)

Select the transceiver operation for when receiving a DV signal while the Auto dimmer is activated.
- OFF: Receiving a DV signal displays the RX screen without turning OFF the Auto dimmer when the Auto dimmer is activated.
- ON: Receiving a DV signal turns OFF the Auto dimmer and then displays the RX screen when the Auto dimmer is activated.

■ Clock/Voltage Display

A new item, "Clock/Voltage Display" is added.
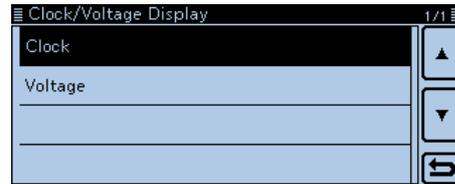
Clock/Voltage Display   (Default: Clock)
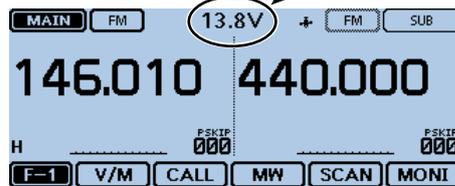
Display > Clock/Voltage Display

Select whether to display the clock or voltage at the top of the LCD.
• Clock: Displays the current time.
• Voltage: Displays the voltage of the battery or external DC power source.

NOTE: When "Voltage" is selected, the LCD displays the transceiver's internal voltage. Therefore, the displayed voltage is lower than the voltage of the connected battery.

Displays the voltage

■ Backlight Night Time Setting

◇ Added items
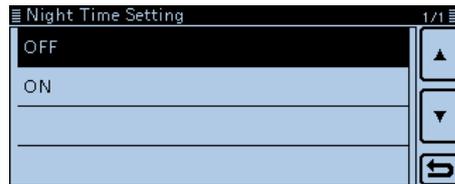The following items are added into the "Display" screen.

Night Time Setting   (Default: OFF)

Display > Backlight Night Time Setting > Night Time Setting

Select whether or not to tone down the backlight brightness for the nighttime operation.

You can set the nighttime operation start or stop time in Night Time Start or Night Time End item
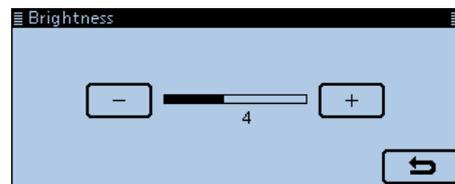• OFF: Does not tone down the backlight brightness.
• ON: Tones down the backlight brightness.

Brightness   (Default: 4)

Display > Backlight Night Time Setting > Brightness
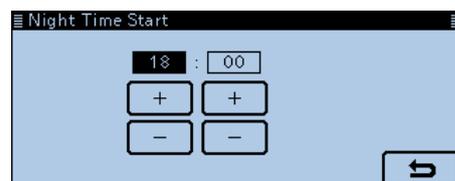
Select the backlight brightness level for the nighttime operation between 1 (Dark) and 8 (Bright).

Night Time Start   (Default: 18:00)

Display > Backlight Night Time Setting > Night Time Start
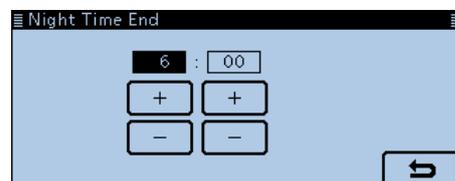
Set the start time for the nighttime operation to between 0:00 and 23:59.

Night Time End   (Default: 6:00)

Display > Backlight Night Time Setting > Night Time End

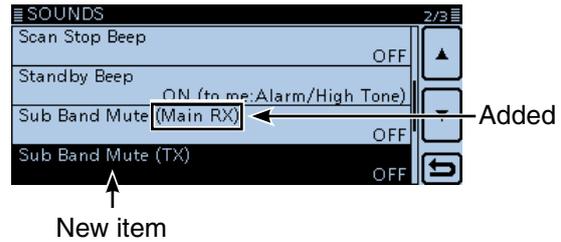Set the end time for the nighttime operation to between 0:00 and 23:59.

■ Sub Band Mute

The "Sub Band Mute" item in the "Sounds" screen is changed to "Sub Band Mute (Main RX)."
The "Sub Band Mute (TX)" item is added into the "Sounds" screen.

Sub Band Mute → Sub Band Mute (Main RX)
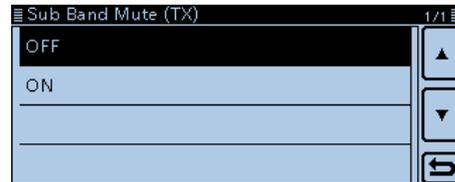

Added

New item

Sub Band Mute (TX)   (Default: OFF)

Sounds > Sub Band Mute (TX)

Select whether or not to mute the SUB band audio signal while transmitting in the Dualwatch mode.
• OFF: The SUB band audio can be heard.
• ON: While transmitting on the MAIN band, the SUB band audio signal is muted.
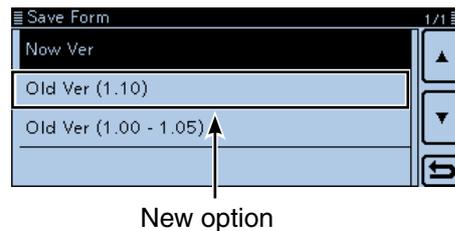

■ About the save format

A new option, "Old Ver (1.10)" is added.

Save Form   (Default: Now Ver)

SD Card > Save Form

Select the format to save the Memory channels, Menu screen item settings, and repeater lists onto an SD card.
• Now Ver:
     Saves in the current version format.
• **Old Ver (1.10)**:
     Saves in the older version format (1.10).
• Old Ver (1.00 - 1.05):
     Saves in the older version format (1.00 - 1.05).

New option

NOTE:
• If the settings are saved in an older version format, the items added in version 1.20 or later are not saved.
• You cannot load setting files that is saved in the current version format to an older firmware version transceiver.

■ Bluetooth® Headset Function

A new item, "Headset Function Select" item is added.

Headset Function Select (Default: Normal)

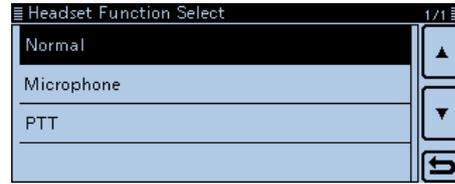Bluetooth Set > Headset Set > Headset Function Select

Select the desired PTT and microphone combination when a Bluetooth® headset and the radio microphone are used.
To use the Bluetooth® function, the optional UT-133 Bluetooth® UNIT is necessary.
• Normal: The audio from the device whose [PTT] is pushed is transmitted.
• Microphone: The transmission is made by pushing either the [PTT] on the Bluetooth® headset, or the connected microphone. The connected microphone is only used for the PTT control.
• PTT: The audio from the connected microphone is transmitted. The transmission is made by pushing either the [PTT] on the Bluetooth® headset, or the connected microphone.

NOTE:
• When you select "PTT," turn OFF the VOX function.
• DO NOT select "PTT" when you use only the Bluetooth® headset.

Using the Bluetooth® headset as a microphone
(Select "Microphone")

Voice from the Bluetooth® headset

Transmitting from the microphone

Using the Bluetooth® headset as a PTT
(Select "PTT")

Voice from the microphone

Transmitting from the Bluetooth® headset

The Bluetooth® headset operation for each selection is listed below.

Setting	TX Control	TX Audio
Normal	Enabled	Enabled
Microphone	Enabled	Enabled
PTT	Enabled	Disabled (Audio from the microphone is transmitted.)

■ Using the RS-MS1A

The transceiver does not exit the DR function, even if you set the frequency and the call sign from the RS-MS1A.
The transceiver displays the repeater name set with the RS-MS1A if it is in the transceiver's repeater list.

■ New CI-V Command

New CI-V commands listed below is added.

Cmd.	Sub cmd.	Data	Description
07			Select VFO mode
16	5D	00 to 09	Tone setting 00=OFF, 01=TONE, 02=TSQL, 03=DTCS, 04=TSQL-R, 05=DTCS-R, 06=DTCS (T), 07=TONE (T) /DTCS (R), 08=DTCS (T)/TSQL (R), 09=TONE (T) /TSQL (R)