

KENWOOD

TM-D750A TM-D750E

USER GUIDE

This User Guide covers only the basic operations of your transceiver. For the detailed instruction manual (User Manual), refer to the following URL.
<https://manuals.jvckenwood.com/en/>



GUIDE DE L'UTILISATEUR

Ce Manuel de l'utilisateur concerne uniquement les opérations de base de votre émetteur-récepteur. Pour avoir accès un manuel de l'utilisateur détaillé (Mode d'emploi), reportez-vous à l'URL suivante.

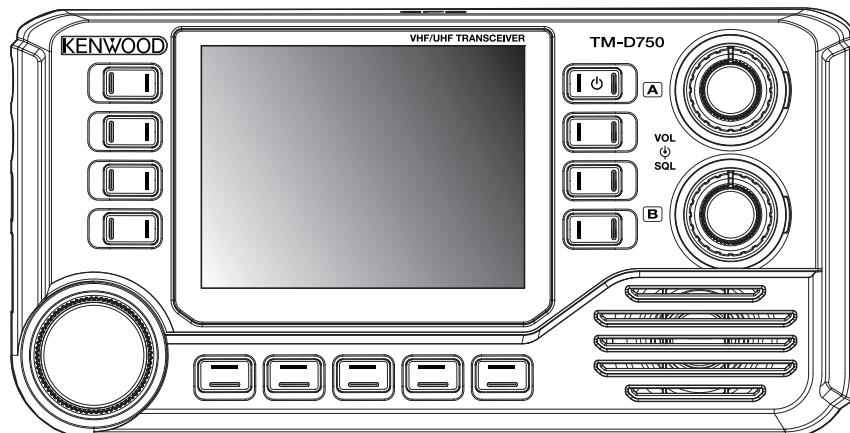
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GUÍA DEL USUARIO

Este Manual del usuario sólo cubre las operaciones básicas de su transceptor. Para más detalles sobre el uso del manual de usuario (Manual de instrucciones), consulte el siguiente URL.

<https://manuals.jvckenwood.com/en/>



JVCKENWOOD Corporation



144/220/430MHz DIGITAL TRIBANDER TM-D750A

144/430MHz DIGITAL DUAL BANDER TM-D750E

USER GUIDE



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The APRS® (Automatic Packet Reporting System) trademark is used with permission of Tucson Amateur Packet Radio Corp., its assignee.

EchoLink® is a registered trademark of Synergenics, LLC.

NOTIFICATION

This equipment complies with the essential requirements of Directive 2014/53/EU and Radio Equipment Regulations 2017.

Restrictions

This equipment requires a licence and is intended for use in the countries as below.



AT	BE	DK	FI	FR	DE	GR	IS	IE	IT	LI	LU	NL
NO	PT	ES	SE	CH	CY	CZ	EE	HU	LV	LT	MT	PL
SK	SI	BG	RO	HR	TR	TR	UK(NI)					

The AMBE+2™ voice coding Technology embodied in this product is protected by intellectual property rights including patent rights, copyrights and trade secrets of Digital Voice Systems, Inc. This voice coding Technology is licensed solely for use within this Communications Equipment. The user of this Technology is explicitly prohibited from attempting to extract, remove, decompile, reverse engineer, or disassemble the Object Code, or in any other way convert the Object Code into a human-readable form. U.S. Patent Nos. #7,970,606, #8,359,197, #8,315,860, and #8,595,002.

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2 BEFORE STARTING

Thank You

We are grateful you decided to purchase this **KENWOOD** Digital transceiver.

The models listed below are covered by this manual.

TM-D750A: 144/220/430MHz DIGITAL TRIBANDER (The Americas)
TM-D750E: 144/430MHz DIGITAL DUAL BANDER (E type: Europe/ T type: UK)

Features

This transceiver has the following main features:

- Compatible with APRS® data communication system
- Supports APRS® Digipeater function
- Supports D-STAR® Digital
- Supports simultaneous reception of two D-STAR® signals
- D-STAR® Direct Mode
- D-STAR® Repeater Monitor
- D-STAR® Reflector Terminal Mode
- D-STAR® Repeater Terminal Mode
- Built-in GPS unit (Supports the Quasi-Zenith Satellite System)
- Equipped with a color LCD
- Simultaneous reception of two signals (VxU, UxV, UxU (TM-D750A/ TM-D750E), Vx220M, 220MxV, Ux220M (TM-D750A), AIR BAND)
- Built-in speaker on the operation panel
- Visual Scan and Water Fall Display
- Voice processing by DSP
- Built-in Bluetooth (SPP, HSP)
- Built-in wireless LAN
- microSD memory card (2 GB to 32 GB)
- Supports battery charging and data transfer via USB Type-C™
- 1000 memory channels, 1500 repeater lists, and 30 hotspot lists
- Three-step selectable transmit power (50/ 10/ 5 W)

Notices to the User

SUPPLIER'S DECLARATION OF CONFORMITY

47 CFR § 2.1077 Compliance Information

Trade name: KENWOOD

Model(s): TM-D750A

Responsible party: JVCKENWOOD USA Corporation 1440 Corporate Drive, Irving, TX 75038 USA

Telephone number: 972-819-0700

One or more of the following statements may be applicable for this equipment.

FCC WARNING

This equipment generates or uses radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved by the party responsible/ JVCKENWOOD. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

INFORMATION TO THE DIGITAL DEVICE USER REQUIRED BY THE FCC

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 generate 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 the 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 to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer for technical assistance.

RF EXPOSURE INFORMATION FOR BLUETOOTH AND WLAN

This equipment complies with FCC/IC radiation exposure limits and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the IC radio frequency (RF) Exposure rules.

While transmitting, always keep the antenna and the radio at least 20 cm (7.9 inches) from your body or face, as well as from any bystanders. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

This device complies with Industry Canada license exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This product is designed for connection to an IT power distribution system.

This product contains a CR Coin Cell Lithium Battery which contains Perchlorate Material – special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate

This product includes "Ubiquitous QuickBoot™" technology developed by Ubiquitous AI Corporation. Ubiquitous QuickBoot™ is a trademark of Ubiquitous AI Corporation.

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Information on Disposal of Old Electrical and Electronic Equipment and Batteries (applicable for countries that have adopted separate waste collection systems)



Products and batteries with the symbol (crossed-out wheeled bin) cannot be disposed as household waste.

Old electrical and electronic equipment and batteries should be recycled at a facility capable of handling these items and their waste byproducts.



Contact your local authority for details in locating a recycle facility nearest to you.

Proper recycling and waste disposal will help conserve resources whilst preventing detrimental effects on our health and the environment.

3 PRECAUTION

- Do not use options not specified by **KENWOOD**.
- If the die-cast chassis or other transceiver part is damaged, do not touch the damaged parts.
- If a headset is connected to the transceiver, reduce the transceiver volume. Pay attention to the volume level when turning the squelch off.
- Do not place the microphone cable around your neck while near machinery that may catch the cable.
- Do not place the transceiver on unstable surfaces.
- When the transceiver is used for long transmissions, the chassis will become hot. Do not touch these hot locations.
- Do not immerse the transceiver in water.
- Do not hold the knob when carrying the transceiver. Doing so may cause the knob to come off and the transceiver to fall.
- If water enters the microphone opening or the speaker grill, the audio level may become unstable or distorted. Lightly shake the transceiver to remove the water from the speaker and/or microphone before operating the transceiver.
- Do not place the accessories of the transceiver or the items removed from the transceiver within reach of infants and children. There is a risk that these may be swallowed. If these are swallowed accidentally, consult a doctor immediately.
- If condensation forms, let it dry naturally or leave the transceiver in the same environment for a long time to eliminate the condensation before using the transceiver.
- Always switch the transceiver power OFF before installing or removing optional accessories. Make these changes out of the Hazardous Location.
- To dispose of batteries, be sure to comply with the laws and regulations in your country or region.



Turn the transceiver power off in the following locations:

- In explosive atmospheres (inflammable gas, dust particles, metallic powders, grain powders, etc.).
- While taking on fuel or while parked at gasoline service stations.
- Near explosives or blasting sites.
- Where restrictions or warnings are posted regarding the use of radio devices, including but not limited to medical facilities.
- Near persons using pacemakers.



- ◆ Do not disassemble or modify the transceiver for any reason.
- ◆ Do not place the transceiver on or near airbag equipment while the vehicle is running. When the airbag inflates, the transceiver may be projected and strike the driver or passengers.
- ◆ Do not transmit while touching the antenna terminal or if any metallic parts are exposed from the antenna covering. Transmitting at such a time may result in an (Radio Frequency energy) burn.
- ◆ If an abnormal odor or smoke is detected coming from the transceiver, switch the transceiver power off immediately, and contact your **KENWOOD** dealer.
- ◆ Use of the transceiver while you are driving may be against traffic laws. Please check and observe the vehicle regulations in your area.
- ◆ Do not expose the transceiver to extremely hot or cold conditions.

4 PREPARATION

Supplied Accessories

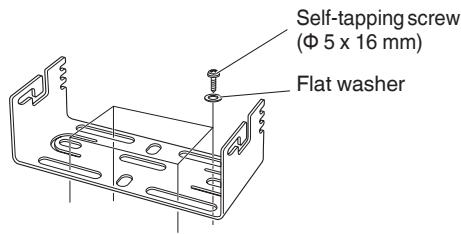
After carefully unpacking the transceiver, identify the items listed in the table below.

Item	Quantity	Item	Quantity
Microphone (Product equivalent to MC-62)	1	Panel holder	1
DC power cable (2 m) / with two 20 A fuses	1	Panel bracket	1
Spare fuse (15 A)	1	Base stand	1
Panel cable (4 m)	1	Screw set	1
Microphone hanger (with screws)	1	USER GUIDE	1
Mounting bracket	1	Warranty card	1

Mounting on the Vehicle

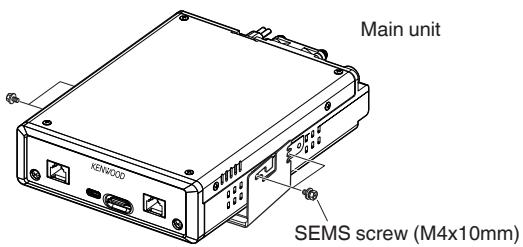
Installing the Main Unit

- 1 Install the mounting bracket in the vehicle using the supplied self-tapping screws and flat washers (four of each are supplied).

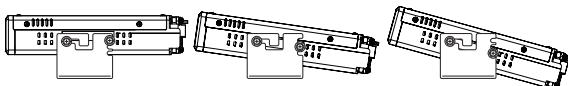


- 2 Position the main unit, then insert and tighten the supplied hexagon SEMS screws and flat washers (four of each are supplied, two for each side of the bracket).

- Tighten the hexagon SEMS screw firmly using a Phillips screwdriver or a 7 mm wrench.



- The mounting angle between the bracket and the main unit can be set in three ways, as shown in the diagram below.



- ◆ Select a mounting position with safety and operability in mind.
- ◆ Avoid installing in locations exposed to direct sunlight or with poor ventilation. For proper heat dissipation, install the device in a position where the bottom heat-dissipation fins, rear fan, and side vents are not obstructed.
- ◆ Mount securely to prevent it from coming loose due to vibration.
- ◆ Loose screws may cause the main unit to fall, resulting in injury. Make sure it is firmly fastened.
- ◆ Impact on the GPS receiver:
For Band A (around 438.8 MHz) and Band B (around 443.8 MHz), harmonics of the first local oscillator signal used for reception may affect GPS positioning. In such cases, either relocate the transceiver or change the operating frequency.

Installing the Operation Panel

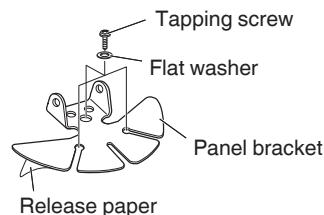


- ◆ Install the operation panel in a location where it can easily receive signals from GPS satellites.
- ◆ Install the operation panel vertically. If it is tilted, it may not receive GPS satellite signals correctly.

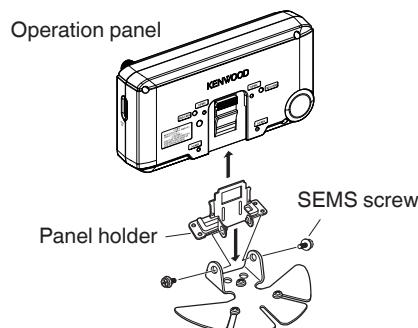


- Do not install around the airbag equipment. In an accident, the airbag may not operate normally, or the attached objects may scatter when the airbag inflates, resulting in possible serious injury.

- 1 After securing it to the vehicle, avoid touching the stand or applying vibrations for a while.
- 2 Peel off the release paper from the double-sided tape on the bottom of the panel bracket, and secure it to the vehicle using the three supplied tapping screws.
 - After securing it to the vehicle, avoid touching the stand or applying vibrations for a while.
 - Once the panel bracket is removed, the adhesive strength of the double-sided tape will weaken, making it unusable.



- 3 Attach the panel holder to the panel bracket using the two supplied SEMS screws.

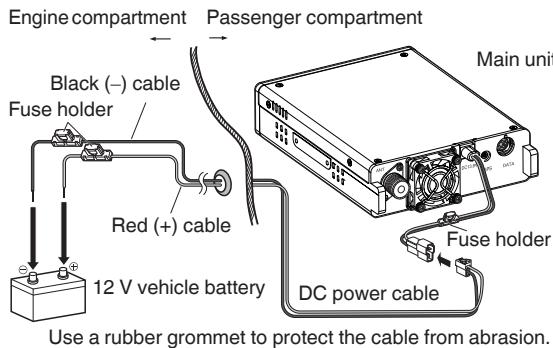


- 4 Attach the operation panel to the panel holder so that it locks in place.

Connecting the Power Cable



- ◆ Be sure to use a 12 V vehicle battery that has sufficient current capacity. If the current to the transceiver is insufficient, the display may darken during transmission or the transmit output power may drop excessively. Never connect the transceiver to a 24 V battery.
- ◆ To prevent the risk of short circuits, disconnect other wiring from the negative (-) battery terminal before connecting the transceiver.
- ◆ If you use the transceiver for a long period when the vehicle battery is not fully charged or when the engine is OFF, the battery may become discharged and will not have sufficient reserves to start the vehicle. Avoid using the transceiver under these conditions.
- ◆ When using a noise filter, it should be installed with an insulator to prevent it from touching metal on the vehicle.
- ◆ We do not recommend using a cigarette lighter socket as some cigarette lighter sockets introduce an unacceptable voltage drop.
- ◆ If the power cable must be routed through a hole in the vehicle chassis or body, for example in the firewall at the front of the passenger compartment, use a rubber grommet to protect the cable from abrasion. Dismantle the fuse holder to pass the cable through the firewall.
- ◆ The entire length of the cable must be dressed so it is isolated from heat, moisture, and the engine secondary (high voltage) ignition system/ cables.
- ◆ After the cable is in place, wind heat-resistant tape around the fuse holder to protect it from moisture. Tie down the full run of cable.
- ◆ Depending on the vehicle, connecting the DC power cord of the transceiver directly to the battery terminals may cause the vehicle's sensors to not operate properly. In such cases, please connect the negative terminal to the vehicle body ground instead of directly to the battery.

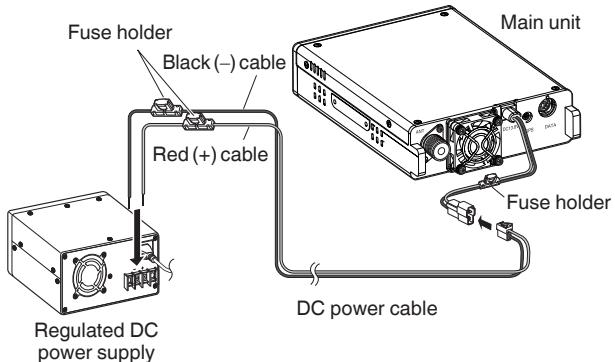


Connecting the Power Cable

When operating this transceiver as a base station, connect it to a 13.8 V regulated DC power supply.

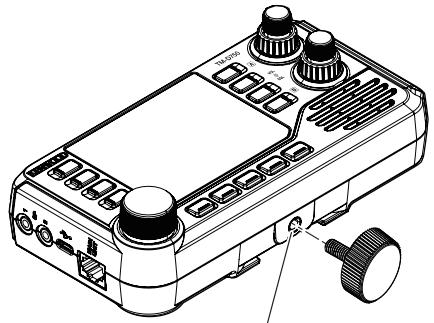
The recommended current capacity of the power supply is more than 13 A.

- 1 Connect the DC power cable to the regulated DC power supply and ensure that the polarities are correct.
Red: Positive (+) terminal, Black: Negative (-) terminal
- 2 Connect the DC power cable to the main unit.
Make sure the connector is fully and securely inserted.



Mounting on a Commercially Available Tripod

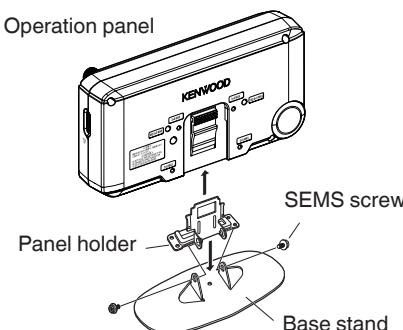
The operation panel can be used with a commercially available tripod or similar stand without using the panel holder.



Operating as Base Station

Installing the Operation Panel

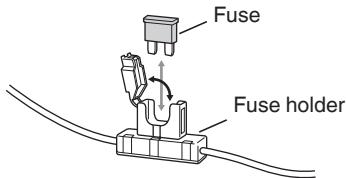
- 1 Attach the panel holder to the base stand using the two supplied SEMS screws.
- 2 Attach the operation panel to the panel holder so that it locks in place.



- ◆ Use of the supplied panel holder and panel bracket is recommended when installing to a vehicle.
- ◆ If you use a commercially available vehicle-mount kit, ensure that it can safely support the weight of the transceiver and that there is no wobbling or instability while driving. Using a mount kit that is not suitable for this transceiver may result in the transceiver falling, causing injury, fire, electric shock, or equipment damage, so do not use inappropriate kits.

Replacing the Fuse

When a fuse blows, first correct the cause, then replace it with a fuse of the specified rating. If the fuse blows again immediately, disconnect the DC power cable and contact your authorized KENWOOD dealer or an authorized KENWOOD service center.

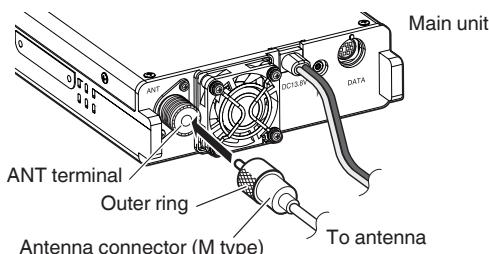


Always use only the specified fuse.

- ◆ The fuse of the DC power cable is 20 A.
- ◆ The fuse of the DC power cable of the transceiver is 15 A.

Installing the Antenna

- 1 Connect the antenna cable to the ANT terminal (M type) at the back.



- 2 Firmly tighten the outer ring of the antenna connector onto the ANT terminal of the main unit.

About the Antenna

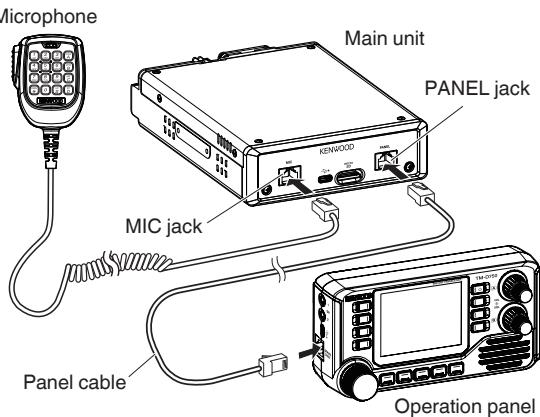
- Use an antenna that is appropriate for the respective frequency band. Using an antenna for a different frequency band can significantly degrade transmission and reception performance.
- The antenna impedance of this transceiver is $50\ \Omega$. Use a $50\ \Omega$ coaxial cable with as low loss as possible, and connect to a $50\ \Omega$ antenna with a low SWR (1.5 or less) using the shortest possible cable length.
- If the antenna system has a mismatched impedance or is not properly tuned, the transceiver may not perform optimally. In addition, the protection circuit may activate, reducing transmit power and potentially affecting the operation of other electronic devices.



- ◆ When operating as a base station, install a lightning arrester on the antenna to protect against fire, electric shock, injury, or equipment damage due to lightning.

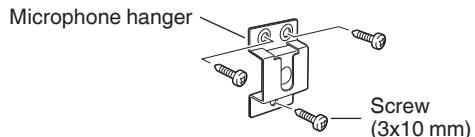
Connecting the Operation Panel and Microphone

Insert the microphone plug into the MIC jack, then connect the control panel to the main unit using the supplied cable.



Attaching the Microphone Hanger

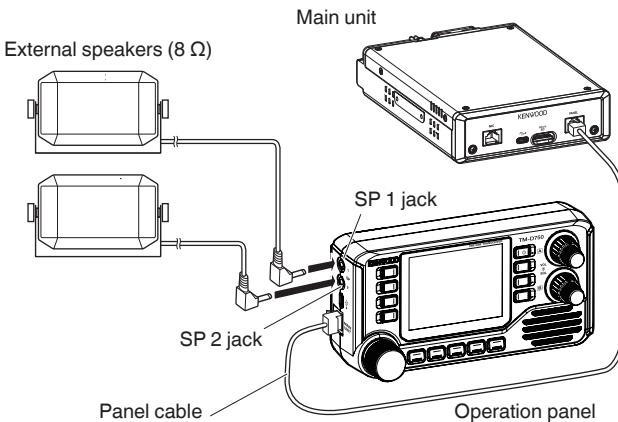
Securely attach the microphone holder using the three supplied screws, ensuring that the microphone can hang without obstructing driving.



Connecting an External Speaker

Connect commercially available external speakers (impedance of $8\ \Omega$) to SP 1 and SP 2 jacks (impedance of $8\ \Omega$) on the side of the operation panel.

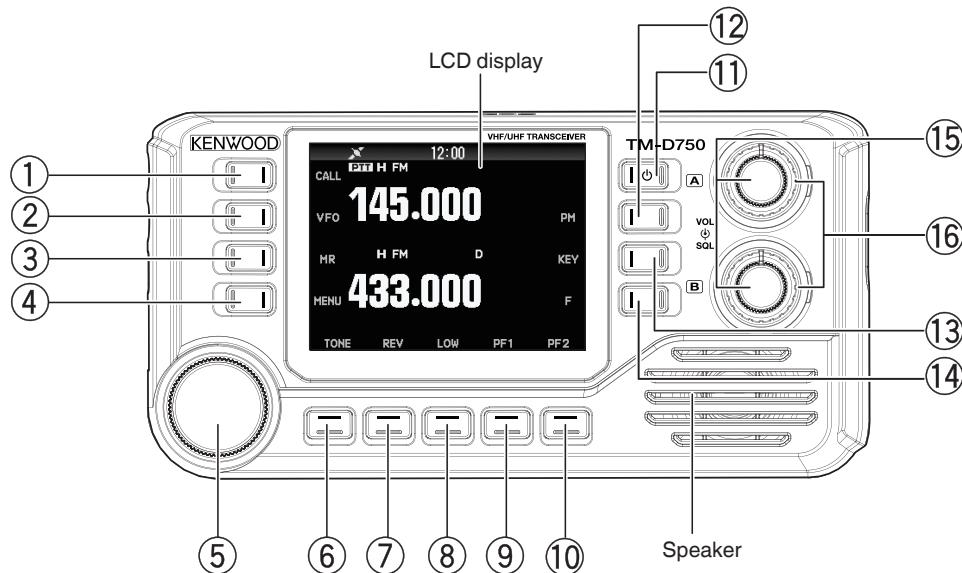
When an external speaker is connected to the SP1 jack, the internal speaker will be muted.



5 PART NAMES AND FUCTIONS

Operation Panel

Normal Mode



① [CALL]

Press [CALL] to select the CALL channel.
Press and hold [CALL] to start CALL scan.

② [VFO]

Press [VFO] to enter VFO mode.
Rotate the [ENC] control to select an operating frequency.
Press and hold [VFO] to start band scan.

③ [MR]

Press [MR] to enter Memory channel mode.
Rotate the [ENC] control to select a Memory channel.
Press and hold [MR] to start Memory scan.

④ [MENU]

Press [MENU] to enter Menu mode.

⑤ [ENC] Control

Rotate the [ENC] control to select an operating frequency, Memory channel, Menu item, setting value and change the scan direction, etc.
Press the [ENC] control to enter MHz mode while in VFO or Call mode. It displays the memory channel list while in memory channel mode.
Press and hold [ENC] control to start MHz scan or Group scan.

⑥ [TONE]

Press [TONE] to turn the Tone function ON.
Each time you press [TONE], the function cycles through the following:
Tone ON → CTCSS ON → DCS ON → Cross Tone ON → OFF

⑦ [REV]

Press [REV] to turn the Reverse function ON or OFF.

⑧ [LOW]

Each time you press [LOW], the transmit output cycles through the following:
Middle Power → Low Power → High Power

⑨ [PF1]

Press [PF1] to activate its programmed function.
※ The default setting is [BAND] (frequency band select).

⑩ [PF2]

Press [PF2] to activate its programmed function.
The default setting is [CTRL] (operating band select).

⑪ [VOICE]/[PWR] Power switch

Press [VOICE]/[PWR] to make Voice guidance.
Each time you press and hold [VOICE]/[PWR], the transceiver power is turned ON or OFF.
※ Appears when Voice Guidance is set to "Manual/ Auto1/ Auto2".

⑫ [PM]

Press [PM] to enter the PM (Programmable Memory) channel selection mode.

⑬ [KEY]

Each time you press [KEY], the software key cycles through the following:
APRS software key → Digital software key → GPS software key → VOX software key

⑭ [F]

Press [F] to enter Function mode.
Press and hold [F] to turn the transceiver key lock function ON or OFF.

⑮ [BAND SEL] Control (VOL)

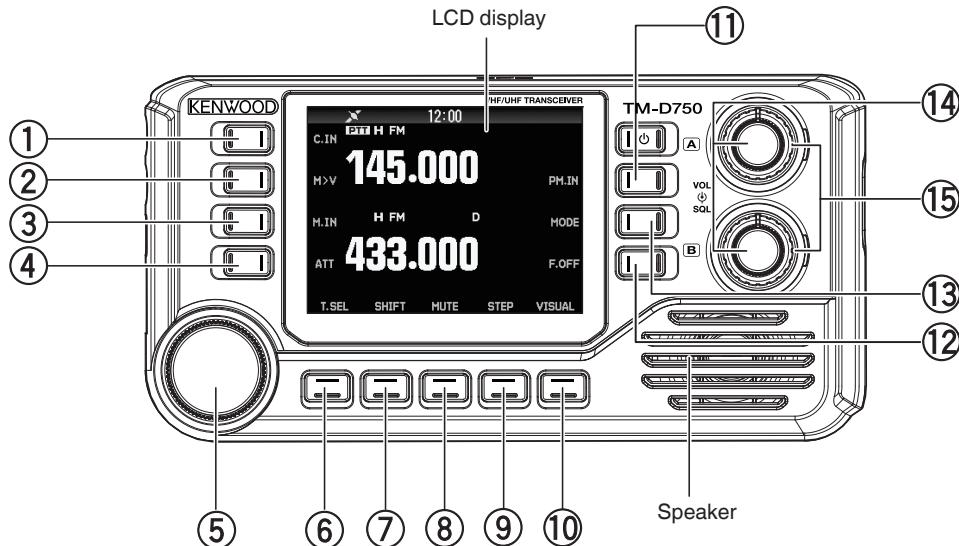
Rotate the [BAND SEL] control of the volume that you wish to adjust.
Press [BAND SEL] for the side you wish to select to simultaneously choose the operating band and transmitting band.
Press the upper control to select Band A and press the lower control to select Band B.
Press and hold [BAND SEL] to switch between Single band mode and Dual band mode.
※ The [BAND SEL] button is divided into [BAND SEL A] (upper) and [BAND SEL B] (lower). On the display, the upper side corresponds to Band A, and the lower side corresponds to Band B.

⑯ [SQL] Control

Rotate the [SQL] control to adjust the squelch level. Clockwise tightens the squelch and counterclockwise opens the squelch.

Function Mode

Press [F] in normal mode to enter function mode.



① [C.IN]

Press [C.IN] to store the current operating frequency to the Call channel.

② [M>V]

Press [M>V] to copy the current Memory channel or Call channel to the VFO (memory shift).

③ [M.IN]

Press [M.IN] to store the displayed frequency into the memory channel selected using the [ENC] control.

④ [ATT]

Each time you press [ATT], the attenuator for the operation band is toggled ON or OFF.

⑤ [ENC] Control

Rotate the [ENC] control to select an operating frequency, Memory channel, Menu item, setting value and change the scan direction, etc.

Press the [ENC] control to return to Normal mode. It displays the memory channel list while in memory channel mode.

Press and hold [ENC] control to start MHz scan or Group scan.

⑥ [T.SEL]

While Tone, CTCSS, DCS, or Cross Tone is ON, press [T.SEL] to enter Tone, TCSS, DCS, or Cross Tone setup mode.

Press and hold [T.SEL] to start the Tone Scan, CTCSS Scan, or DCS Scan.

Rotate the [ENC] control to select the Tone/CTCSS frequency, DCS code, or Cross tone combination.

⑦ [SHIFT]

Press [SHIFT] to enter Offset direction selection mode.

Each time you press [SHIFT], the offset direction toggles as follows: plus (+) direction → minus (-) direction → -7.6 MHz (TM-D750E only) → OFF

⑧ [MUTE]

Press [MUTE] to turn the Mute function ON or OFF.

⑨ [STEP]

Press [STEP] to return to the setup mode for the step frequency (list display).

⑩ [VISUAL]

Press [VISUAL] to turn ON the Visual scan function.

⑪ [PM.IN]

Press [PM.IN] to enter PM channel registration mode.

⑫ [MODE]

Each time you press [MODE], the mode is switched as follows:
A Band: (FM/NFM) → (DV/DR) → AM
B Band: (FM/NFM) → (DV/DR) → AM

⑬ [F.OFF]

Press [F.OFF] to return Normal mode.

⑭ [BAND SEL] Control (VOL)

Each time you press [BAND SEL] on the operation band, the frequency band changes.

⑮ [SQL] Control

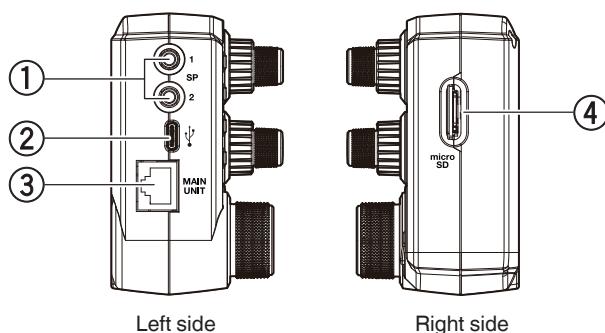
Rotate the [SQL] control to adjust the squelch level. Clockwise tightens the squelch and counterclockwise opens the squelch.



◆ The tone frequency changes according to the status of the transceiver, as described in the settings below.

Tone OFF	:Disabled
Tone ON	:Tone frequency
CTCSS ON	:CTCSS frequency
DCS ON	:DCS frequency
Cross Tone ON	:Cross tone combination
Voice Alert ON	:Voice Alert frequency

Left & Right



Left side

Right side

① SP Jacks (SP 1/SP 2)

Connect an external speaker. There are two speaker jacks: SP1 and SP2. The audio output when an external speaker is connected varies depending on the speaker output mode and the connection status of the speakers.

② USB Connector (USB Type-C™)

The transceiver can be connected to a PC using a commercially available USB cable (USB Type-C™).

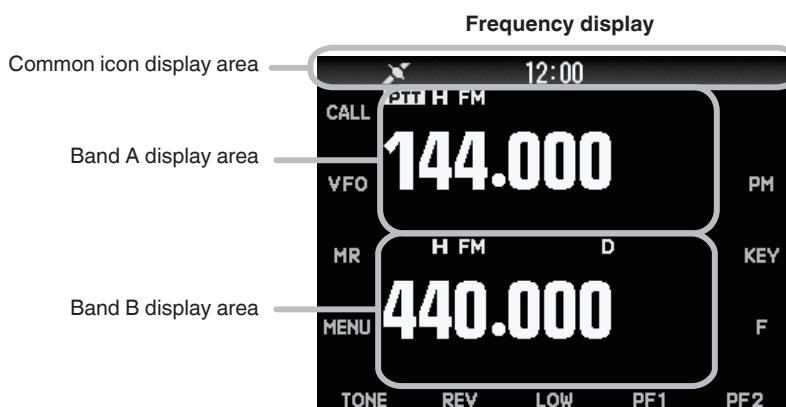
③ MAIN UNIT Jack

This is the connector for connecting the main unit. Connect it using the supplied panel cable.

④ microSD Memory Card Slot

Insert a microSD memory card to store configuration data, recorded data, QSO logs, and other information.

Display



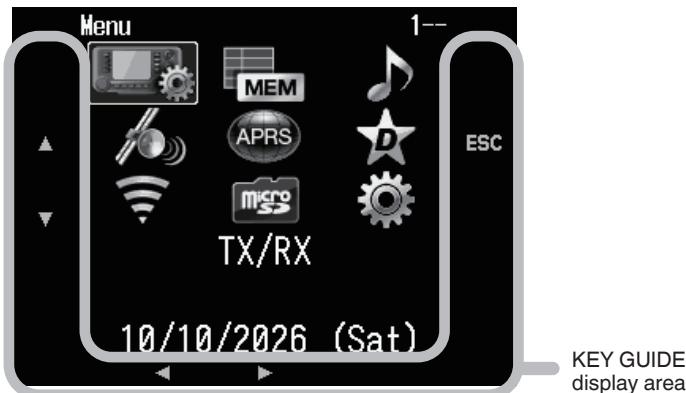
Indicator	Description
	S Meter: Displays the signal strength during reception.
	RF Meter: Displays the power level during transmission.
PTT	Indicates the transmitting band.
CTRL	Indicates the operating band (A/B).
L	Appears when the transmit power is set to Low.
M	Appears when the transmit power is set to Medium.
H	Appears when the transmit power is set to High.
FM	Appears while in FM mode.
NFM	Appears while in Narrow FM mode.
AM	Appears while in AM mode.
DR	Appears when in DR (Digital Repeater) mode.
DV	Appears when in DV (Digital Voice) mode.
VA	Appears when Voice Alert is set to "On".

PART NAMES AND FUNCTIONS

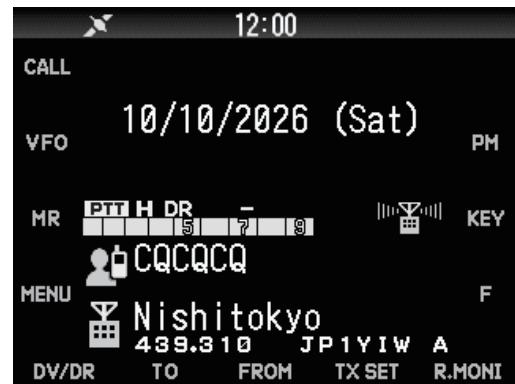
Indicator	Description
VAR	Appears when Voice Alert is set to "RX Only".
	Appears when the Tone function is ON.
CT	Appears when the CTCSS function is ON.
DCS	Appears when the DCS function is ON.
T/C	Appears when the Cross tone function is "TONE/CTCSS".
D/C	Appears when the Cross tone function is "DCS/CTCSS".
T/D	Appears when the Cross tone function is "TONE/DCS".
D/O	Appears when the Cross tone function is "DCS/OFF".
+	Appears when the Shift function is set to plus.
-	Appears when the Shift function is set to minus.
	Appears when the Shift direction is set to -7.6 MHz.
±	Appears when a split channel is selected.
R	Appears when the Reverse function is ON.
	Appears when the Automatic Simplex Checker function is ON.
ATT	Appears when the Attenuator function is ON.
APRS 12	Appears when the packet speed is set to 1200 bps in APRS mode.
APRS 96	Appears when the packet speed is set to 9600 bps in APRS mode.
KISS 12	Appears when the packet speed is set to 1200 bps in KISS mode.
KISS 96	Appears when the packet speed is set to 9600 bps in APRS mode.
STA	Appears when in standby in Packet mode.
BCON	Appears when the beacon transmission function is set to ON.
OBJ	Appears when the object transmission function is set to ON.
	Appears when the built-in GPS function is ON and positioning.
	Appears when the built-in GPS function is ON and not positioning.

PART NAMES AND FUCNTIONS

Menu mode display



D-STAR (DV/DR mode) display



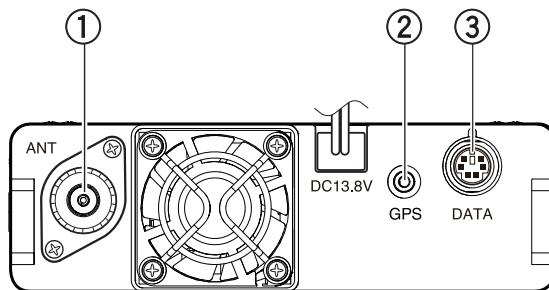
Indicator	Description
	Appears when the GPS Track Log function is ON and the built-in GPS function is positioning.
	Appears when the GPS Track Log function is ON but not acquiring a position, or during battery save (GPS save) mode.
	Appears when a message is received.
	Appears while recording a QSO.
	Appears when QSO recording is paused.
	Appears when the Priority Scan function is ON.
	Appears when Weather Alert is ON. Blinks when Weather Alert is detected. (TM-D750A only.)
	Appears when Bluetooth is ON but not connected to a compatible device.
	Appears when Bluetooth is ON and connected to a compatible device.
	Appears when the wireless LAN compatible device is not connected while the wireless LAN is ON.
	Appears while the wireless LAN compatible device is connected while the wireless LAN is ON.
	Appears when a network connection error occurs while the wireless LAN is ON and the wireless LAN compatible device is connected.
	Appears when the microSD memory card of the operation panel is available. Blinks while the card is being mounted.
	Appears when the microSD memory card of the main unit is available. Blinks while the card is being mounted.
	Appears when the key lock is ON.
	Indicates the memory group number.

PART NAMES AND FUNCTIONS

Indicator	Description
	Appears when the Memory Channel Lockout function is ON.
	Appears when the Repeater Lockout function is ON.
CCS	Appears when Callsign squelch is ON.
DCS	Appears when Code squelch is ON.
	TX: Appears in interrupt communication. RX: Blinks while receiving interrupt communication.
	Appears when the auto reply function is ON.
	Appears in GPS transmission.
DATA	Appears while in data communication mode. Blinks while receiving fast data.
	Appears when a packet loss happens.
	Indicates a cross-band type repeater for local area call.
	Indicates an assist-type repeater for call within zone.
	Indicates a repeater for gateway call.
DIRECT	Appears while in the direct mode.
TERM (Green)	Appears while in the reflector terminal mode.
TERM (Red)	Appears while in the repeater terminal mode.

Main Unit

Rear



① ANT terminal

Connect an SO-239/M-type (TM-D750A) or N-type (TM-D750E) external antenna to this terminal. For test transmissions, connect a dummy load instead of the antenna. The antenna system or dummy load must have an impedance of $50\ \Omega$.

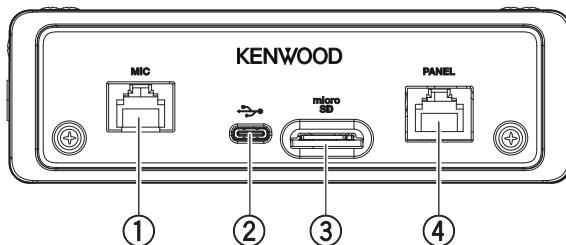
② GPS Connector

Connect the external GPS receiver or the Weather Station.

③ DATA Connector

This is the data input/output terminal. Used to operate the EchoLink node station by connecting to a PC, or to connect to the external TNC. For details on the "DATA connector", refer to the USER MANUAL.

Front



① MIC Jack

Connect the microphone to this jack.

② USB Connector (USB Type-C™)

The transceiver can be connected to a PC using a commercially available USB cable (USB Type-C™).

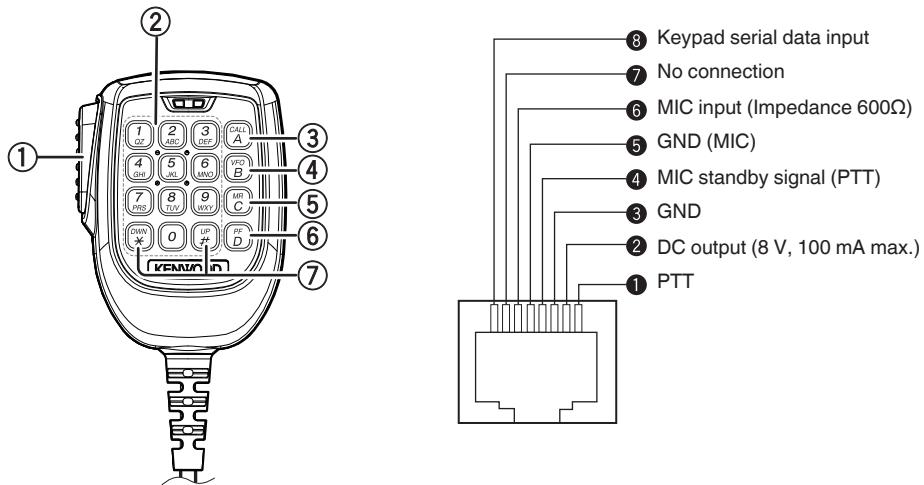
③ microSD Memory Card Slot

Insert a microSD memory card to store configuration data, recorded data, QSO logs, and other information.

④ PANEL Jack

Connect the Operation panel to this jack. Use the supplied Modular plug cable.

Microphone (MC-62)



① [PTT]

Press and hold [PTT], then speak into the microphone to transmit.

② DTMF keypad

Press the keys to send DTMF signals or to enter characters and frequencies.

③ [CALL/A]

Performs the same function as the [CALL] key on the operation panel. You can assign a function to it as the PF4 key.

④ [VFO/B]

Performs the same function as the [VFO] key on the operation panel. You can assign a function to it as the PF3 key.

⑤ [MR/C]

Performs the same function as the [MR] key on the operation panel. You can assign a function to it as the PF2 key.

⑥ [PF/D]

You can assign a function to it as the PF1 key. By default, it switches between Band A and Band B.

⑦ [UP/#]/[DWN/＊]

Performs the same function as the [ENC] control on the operation panel.

6 BASIC OPERATIONS

Switching the Power ON/ OFF

■ Switching the Power ON

1 Press and hold [PWR].

When the power is switched ON, the power-on message is displayed for approximately 1 second, after which the frequency display appears.



■ Switching the Power OFF

1 Press and hold [PWR].

Adjusting the Internal Clock

The built-in clock of this unit is automatically set by the GPS function at the factory default setting. When the power is turned ON, the built-in GPS receiver will begin positioning after a short while, and "GPS Locked" will appear at the top of the display.

After that, the GPS icon <> changes to <>, and the time and date information are set automatically.

If GPS signals are weak or the GPS function cannot be used, set the time and date manually as described below.

1 Access Menu No. 950.

Press [MENU], and press [9][5][0] in order on the keypad.

2 Use [UP/#]/[DWN/*] or the [ENC] control to select the item, and move the cursor with []/[].

Set the "date" and "time".



3 Press the [ENC] control.

The date, time, and time zone are set.

4 Press [ESC] to return to the frequency screen.



- ◆ "GPS Locked" appears on the display only when you turn on the power or turn on the GPS function and start positioning for the first time.
- ◆ The GPS icon on this transceiver does not blink.
- ◆ If there is no voltage supplied from the vehicle battery or a regulated DC power supply connector, date and time information is retained by the built-in lithium battery for approximately one week, and then cleared. If you turn on the power after the date and time information has been cleared and do not perform acquisition using the built-in GPS receiver or manual settings, the built-in clock will return to the default date and time as shown below. (Initial values may change due to firmware updates.)

Date: 01/01/2025

Time: 00:00

NTP Server

The transceiver automatically communicates with an NTP (Network Time Protocol) server to correct the internal clock (date and time).

1 Access Menu No. 953 to turn ON automatic time correction.

The transceiver will automatically communicate with the NTP server and correct the internal clock at the following times.

- When the transceiver power is ON
- Every 24 hours after the transceiver power is ON

Adjusting the Volume

Adjusts the receiving audio volume. The volume can be set separately for the bands A/B.

1 Rotate the [BAND SEL] control for the band you want to adjust.

Rotate clockwise to increase the volume, and counterclockwise to decrease the volume.

When no audio is heard (squelch closed), press the PF key assigned to [MONITOR] to turn on the monitor function, then rotate [BAND SEL A] or [BAND SEL B] to adjust the noise level (Monitor).

- To adjust the beep sound volume for key operations, refer to USER MANUAL.

■ Setting examples

When using APRS concurrently

When making a voice call on the Band A, reduce or mute the volume of the Band B.

When simultaneously scanning two waves:

Press the PF key assigned to [CTRL] to switch the band you want to operate. If both the operating band and the non-operating band become busy at the same time, only the operating band will output audio.

Selecting Dual Band/ Single Band Mode

You can switch the transceiver between dual band operation and single band operation.

In dual band mode, both bands can be received simultaneously. In single-band mode, the display for the inactive band is turned off, and no audio is output from that band.

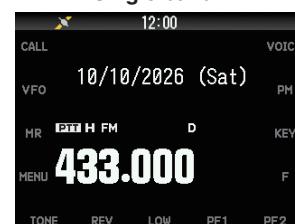
1 Press and hold [BAND SEL A] or [BAND SEL B] for the operating band.

Each time you press and hold [BAND SEL A] or [BAND SEL B], the transceiver switches between dual-band and single-band mode.

Dual band



Single band



Selecting an Operating Band

You can select or divide the Operating band and transmitting band simultaneously.

Operating Band

Select whether Band A (upper) or Band B (lower) will be used for frequency changes and various settings.

Transmitting Band

Select the band that will transmit when the [PTT] button on the microphone is pressed.

Switch the Operating Band and Transmitting Band Simultaneously

Switch the operating band and transmitting band simultaneously.

1 Press [BAND SEL A] or [BAND SEL B].

Each time [BAND SEL A] or [BAND SEL B] is pressed, the operating band and transmit band switch. The operating band is indicated by <**PTT**> on the display.



Selecting the Operating Band Only

Only the operating band is switched.

Select whether Band A (upper) or Band B (lower) will be used for frequency changes and various settings.

1 Press the PF key assigned to [CTRL].

Each time the PF key is pressed, the operating band switches. The operating band is indicated by <**CTRL**> on the display.



Selecting a Frequency Band

You can change the frequency bands for bands A and B.

1 Press [F], and press [BAND SEL A] or [BAND SEL B].

Each time you repeat the operation, the frequency band of the operating band switches.

Band A :

118 → 144 → 220 → 430 → 118 (MHz)

Band B :

118 → 144 → VHF → 200&300 → 430 → UHF → 118 (MHz)



◆ The default setting of the [PF1] key also allows you to switch the frequency band.

Frequency ranges:

- 118 MHz: Band B 108 ~ 136 MHz
- 144 MHz: 136 ~ 174 MHz
- VHF: 174 to 216 MHz (TM-D750A), 174 to 230 MHz (TM-D750E)
- 220 MHz: 216 to 260 MHz (TM-D750A only)
- 200/300 MHz: Band B 216 to 410 MHz (TM-D750A), 230 to 410 MHz (TM-D750E)
- 430 MHz: 410 ~ 470 MHz
- UHF: 470 ~ 524 MHz

Selecting the Demodulation Mode

You can select the demodulation mode.

1 Press [BAND SEL A] or [BAND SEL B] to select an operating band.

2 Press [F], and press [MODE].

Each press changes the demodulation mode.

Band A :

FM/NFM → DV (DR) → AM → FM/NFM

Band B :

FM/NFM → DV (DR) → AM → FM/NFM



- ◆ The FM/NFM mode and DV/DR mode cannot be switched using the [MODE] button.
- ◆ In DV/DR mode, only the frequency bands that can be transmitted can be selected.

Selecting a Frequency

The selectable operating modes are VFO mode, Memory Channel mode, and CALL Channel mode.

VFO Mode

This mode allows you to manually change the frequency.

1 Press [VFO] to select VFO mode.

2 Press [UP/#]/[DWN/*] or rotate the [ENC] control to select the frequency.

The frequency will change according to the configured step size.

Model	144 MHz	220 MHz	430 MHz
TM-D750A	5 kHz	20 kHz	25 kHz
TM-D750E	12.5 kHz	-	25 kHz

Selecting by the MHz step “MHz”

Select VFO mode or CALL mode first.

1 Press [ENC].

The transceiver enters MHz mode, and the MHz digit will blink.

2 Press [UP/#]/[DWN/*] or rotate the [ENC] control.

The frequency will change in MHz steps.

3 Press [ENC].

MHz mode ends.



- ◆ 220 MHz band in Band A is used by the TM-D750A only.

Memory Channel Mode

Memory channel mode lets you quickly select a frequently used frequency and its associated data that you have stored in a memory channel.

1 Press [MR] to enter Memory Channel mode.

The Memory channel number appears on the display.

 ◆ If no memories are registered, Memory Channel mode cannot be activated. Please refer to the USER MANUAL.

2 Press [UP/#]/[DWN/*] or rotate the [ENC] control to select the memory channel.

Press [UP/#] or rotate the [ENC] control clockwise to call up the memory channel with the higher number, and press [DWN/*] or rotate the [ENC] control counterclockwise to call up the memory channel with the lower number.

Display the memory channel number you want to recall. Press [VFO] to return to frequency display (VFO mode).

Call Channel Mode

Call Channel mode allows you to quickly select a preset channel for immediate calls on that frequency. The Call Channel can also be used conveniently as an emergency channel within your group.

1 Press [CALL] to enter Call Channel mode.

"C" appears on the display.

- Press [CALL] again to return to the previous frequency.
- The default settings are as follows.

TM-D750A

Band (Mode)	Call Channel	Memory Name
VHF (except DV/DR mode)	146.520 MHz (FM)	Call VHF (FM)
VHF (DV/DR mode)	144.000 MHz (DV)	Call VHF (DV)
220 MHz (except DV/DR mode)	223.500 MHz (FM)	Call 220M (FM)
220 MHz (DV/DR mode)	223.000 MHz (DV)	Call 220M (DV)
UHF (except DV/DR mode)	446.000 MHz (FM)	Call UHF (FM)
UHF (DV/DR mode)	440.000 MHz (DV)	Call UHF (DV)

TM-D750E

Band (Mode)	Call Channel	Memory Name
VHF (except DV/DR mode)	145.500 MHz (FM)	Call VHF (FM)
VHF (DV/DR mode)	144.8125MHz (DV)	Call VHF (DV)
UHF (except DV/DR mode)	433.500 MHz (FM)	Call UHF (FM)
UHF (DV/DR mode)	433.6125MHz (DV)	Call UHF (DV)



◆ If the [ENC] control is rotated while the CALL channel is being called, the contents of the CALL channel are copied to VFO, switching to VFO mode, and the frequency changes in the direction the [ENC] control is rotated.

Adjusting the Squelch

Squelch mutes the speaker when no signals are present. With the squelch level set correctly, sound is heard only while receiving a signal. The higher the squelch level, the stronger the signal must be to be heard. Squelch levels can be set separately for Bands A and B.

1 After selecting the operating band and frequency band, rotate the [SQL] control.

Rotating it fully counterclockwise opens the squelch. If you hear audio from an ongoing communication through the speaker, rotate the [ENC] control to select a channel with no communication.

Rotate clockwise to the point where background noise disappears. Turning it further clockwise increases the squelch depth.



- ◆ The point at which background noise disappears using the [SQL] control can vary depending on environmental factors such as the strength of noise signals and temperature.
- ◆ The squelch also supports S-meter squelch. (Menu No. 103)
- ◆ Turning [SQL] clockwise will prevent reception of weaker signals.
- ◆ When the squelch is closed, pressing the PF key assigned to [MONITOR] will open the squelch regardless of signal input level, allowing you to monitor the received signal. Pressing it again returns to the normal squelch state.

Transmitting

Monitor the frequency you intend to transmit on and make sure it will not cause interference or disruption to other stations. Also, when transmitting to a nearby station, reduce the output power. Transmission is possible only in FM mode or DV mode.

- 1 Select your desired band and frequency/channel.
- 2 Press and hold the microphone [PTT], and speak into the microphone to transmit. While holding it, the RF meter will appear on the transmitting band side, indicating the transmitting state.
- 3 Release the microphone [PTT]. Returns to receiving mode.



- ◆ Keep the microphone about 5 cm from your mouth. If held too far away, the person receiving may have difficulty hearing you.
- ◆ If transmission exceeds the preset time, the Time-out Timer function will automatically return the transceiver to receiving mode. To continue transmitting, release [PTT] once and press it again.
- ◆ In cases such as when the receiving frequency is three times the transmitting frequency, your own transmitted signal may be received.

Selecting an Output Power

- 1 Select the band and frequency/channel for which you want to change the output power.
- 2 Press [LOW] to select High (H), Medium (M), or Low (L) output.

Output Power	TM-D750A
H	Approx. 20 W
M	Approx. 10 W
L	Approx. 5 W



- ◆ Transmission output cannot be set individually for each frequency band.
- ◆ Separate settings can be made for band A and band B.

7 MENU MODE

Many functions on this transceiver are selected or configured via the Menu rather than physical controls.

Operating in Menu Mode

Example: Setting ON or OFF for Menu No. 962 (Mic Keys Lock).

1 Press [MENU].

The transceiver enters menu mode. The icon where the cursor is currently positioned will be highlighted, and the name of the main category will be shown at the bottom of the screen.

(Example: TX/RX)



2

3

4

Press [9], [6], [2] in order on the keypad of the microphone.

5 Select [On] or [Off] with [UP/#]/[DWN/*] or the [ENC] control, and press the [ENC] control.

The setting value is set.



- ◆ Pressing [PTT] during each operation ends menu mode without confirming the setting.
- ◆ Pressing [BACK] during an operation returns to the previous screen. When pressed during step 3, the selected setting value is discarded and the transceiver returns to the previous operation.
- ◆ Pressing [MENU] while scanning cancels the scan.

Character Entry

On screens that require text input, such as memory names or power-on messages, there are two input methods. Using the microphone keypad to enter characters, similar to a mobile phone. And using the [ENC] control to scroll through characters sequentially and select them for input.

Entering Text Using the Microphone Keypad

1 Use [0]–[9], [DWN/*], and [UP/#] to input characters.

Each key press cycles through the characters assigned to that key. If you want to enter consecutive characters assigned to the same key, move the cursor forward using [VFO/C] (or backward with [MR/B]) before entering the next character.

Press [CALL/A] to delete the character at the cursor. When the cursor is at the last character, subsequent presses act as a backspace.

The backspace operation is performed when there is a blank space.

Press [MR/B] or [VFO/C] to move the cursor. When the cursor is at the end of the input string, a space (half-width) is automatically inserted.

Example: Entering the power-on message (Menu No.902)



- Pressing [SPACE] enters a space.
- Pressing [CLEAR] clears the text.

2 Press [VFO/C]

The cursor moves to the right.

3 Press [PF/D]

The entered content is confirmed.

Cursor Shift

This function provides assistance for entering text using the number keys. It is convenient to use this function when consecutively entering characters with the same key because it automatically moves the cursor to the right after a set time has passed.

You can set the cursor move delay to your preference.

1

2

3

4

Input with the [ENC] Control

- 1 Rotate the [ENC] control to display the character you want to enter.
- 2 Press [▶].

The character or symbol is entered and the cursor moves to the right.
Press [CLEAR] to delete the character at the cursor. If the cursor is on a blank space, pressing [CLEAR] moves the cursor left, similar to the keypad.

MENU MODE

Menu Configuration			
No.	Display	Description	Setting Values
TX/RX - RX			
100	Programmable VFO	Sets the VFO frequency tuning range (Band A only)	Varies depending on frequency band
101	Beat Shift	Beat shift	Type 1 - Type 8
102	FM Narrow	Switches the FM mode bandwidth to narrow	Off/ On
103	S-Meter Squelch	S-meter squelch	Off/ On
104	SM SQL Hangup Time	S-meter squelch hangup time	Off/ 125/ 250/ 500 [ms]
105	Mute Hangup Time	Mute hangup time	Off/ 125/ 250/ 500/ 750/ 1000 [ms]
106	MONITOR Type	Monitor type	SQL Off/ CTCSS/ DCS Off
107	WX Alert	Weather alert	Off/ On *TM-D750A only
TX/RX - TX			
110	TX Inhibit	TX inhibit	Off/ On
111	Time-out Timer	Time-out timer	0.5/ 1.0/ 1.5/ 2.0/ 2.5/ 3.0/ 3.5/ 4.0/ 4.5/ 5.0/ 10.0 [min]
112	Mic. Sensitivity	Microphone sensitivity	High/ Medium/ Low
113	TX Notification	TX notification	Off/ On
TX/RX - RX Filter			
120	AM High Cut	AM high cut	3.0/ 4.5/ 6.0/ 7.5 [kHz]
TX/RX - Scan			
130	Resume	Resume method	Time/ Carrier/ Seek
131	Resume (Digital)	Resume method (Digital)	Time/ Carrier/ Seek
132	Time Restart	Time operate restart time	1 - 5 - 10 [sec]
133	Carrier Restart	Carrier operate restart time	1 - 2 - 10 [sec]
134	Priority Scan	Priority scan	Off/ On
135	Scan Auto Backlight	Scan auto backlight	Off/ On
136	Visual Scan	Visual scan	Mode1: 23 ch/ Mode2: 33 ch/ Mode3: 57 ch/ Mode4: 115 ch
137	Auto Weather Scan	Auto weather channel scan	Off/ On *TM-D750A only
TX/RX - Repeater			
140	Offset Frequency	Sets the offset width	Varies depending on frequency band
141	Auto Offset	Auto repeater offset	Off/ On
142	1750Hz TX Hold	1750Hz TX hold	Off/ On
143	Repeater Mode	Repeater mode	Cross Band/ Locked TX:A Band/ Locked TX:B Band *TM-D750A only
144	Repeater TX Hold	Repeater TX hold	Off/ On *TM-D750A only
145	Repeater ID	Repeater ID	- *TM-D750A only
146	Repeater ID TX	Repeater ID TX	Off/ On (Morse)/ On (Voice) *TM-D750A only
TX/RX - VOX			
150	VOX	VOX	Off/ On (AF)/ On (Data)
151	Gain	VOX gain level	0 - 4 - 9
152	Delay	VOX delay time	250/ 500/ 750/ 1000/ 1500/ 2000/ 3000 [ms]
153	TX on Busy	VOX transmission when busy	Off/ On
TX/RX - DTMF			
160	Encode Speed	Sets the DTMF memory transmission speed	50/ 100/ 150 [ms]
161	Pause Time	Sets the DTMF pause time	100/ 250/ 500/ 750/ 1000/ 1500/ 2000 [ms]
162	TX Hold	Holds DTMF transmission output for 2 seconds	Off/ On
163	DTMF Memory	DTMF memory	Up to 10 channels for DTMF memory channel Up to 16 characters for DTMF memory name Up to 16 digits for DTMF memory code
164	EchoLink Memory	EchoLink memory	Up to 10 channels for EchoLink memory channel Up to 8 characters for EchoLink memory name Up to 8 digits for one channel code
TX/RX - Others			
170	QSO Log	Saves QSO log (communication history)	Off/ On
Memory - Memory Channel			
200	View List	Memory channel list	-
201	Group Name	Group name	Up to 16 characters
202	Recall Method	Method to recall a memory channel	All Bands/ Current Band

MENU MODE

No.	Display	Description	Setting Values
203	Group Link	Memory group linking	Up to 30 group links
204	CALL Ch List	Call channel list	-
Memory - Repeater List			
210	View List	Repeater list	-
Memory - Callsign List			
220	View List	Callsign list	-
Memory - Hotspot List			
230	View List	Hotspot list	-
Memory - PM			
240	Auto PM Store	Auto PM store	Off/ On
Audio File - Recording File			
300	View List	Recording file list	-
301	Recording	Recording	Stop/ Start
302	Recording Band	Switches the recording target band	A Band/ B Band/ A/B Band
303	Recording File Storage	Recording file storage	Continuous/ Split
Audio File - Voice Message			
310	View List	Voice message list	-
311	TX Monitor	TX monitor	Off/ On
312	Digital Auto Reply	Digital auto reply	-
313	Repeater ID Voice	Repeater ID voice	1 - 4
GPS - Basic Settings			
400	Built-in GPS	Built-in GPS	Off/ On
401	My Position	My position	GPS/ My Position 1 - My Position 5
402	Position Ambiguity	Position ambiguity mode	Off/ 1-Digit - 4-Digit
403	PC Output	GPS data output to PC	Off/ On
404	SAT Info. Output	Satellite information output	GPS/ GPS/QZSS/Galileo
405	Sentence	NMEA Sentence	GGA/ GLL/ GSA/ GSV/ RMC/ VTG
406	SBAS	SBAS	Off/ On
GPS - Track Log			
410	Track Log	Track log	Off/ On
411	Clear Track Log	Clear track log	-
412	Record Method	Method to record a track log	Time/ Distance/ Beacon
413	Interval	Track log interval	2 - 10 - 1800 [sec]
414	Distance	Track log distance	0.01 - 9.99 [km]
GPS - GPS Port			
420	Baud Rate	GPS terminal baud rate	2400/ 4800 / 9600 [bps]
421	Input	GPS input	Off/ GPS/ Weather (Davis)/ Weather (PeetBros.)
422	Output	GPS output	Off/ Waypoint/ DGPS
APRS - Basic Settings			
500	My Callsign	Registers own-station callsign	Up to 9 characters
501	Icon	Own-station icon	Car/ Person/ Bicycle/ Motorcycle/ Bus etc. (total 68 icons)
502	Position Comment	Position comment	Off Duty/ Enroute/ In Service / Returning/ Committed/ Special/ PRIORITY/ CUSTOM0 - CUSTOM6/ EMERGENCY!
503	Status Text	Status text	Status Text: 1 - 5 TX Rate: Off, 1/1 - 1/4 - 1/8 text: Up to 42 characters
504	Packet Path	Packet relay route	type: New-N/ Relay/ Region/ Others1 - Others3 WIDE1-1: Off/ On , RELAY: Off/ On, ABBR: Up to 5 characters Total Hops: 0 - 2 - 7, PATH: Up to 79 characters
505	Data Speed	Data communications speed	1200 bps/ 9600 bps
506	Data Band	Internal data band type	A Band/ B Band
507	Auto Ch Setting	Automatic frequency setting	Off/ On
508	DCD Sense	DCD sense type	Busy/ Detect Data/ Off (Ignore)
509	TX Delay	APRS data transmission delay time	100/ 150/ 200 / 300/ 400/ 500/ 750/ 1000 [ms]
50A	APRS Lock	APRS lock	Frequency/ PTT/ APRS Key
APRS - Beacon TX Control			
510	Method	Transmission method	Manual/ PTT/ Auto / SmartBeaconing

MENU MODE

No.	Display	Description	Setting Values
511	Initial Interval	Automatic transmission interval	0.2/ 0.5/ 1 / 2/ 3/ 5/ 10/ 20/ 30/ 60 [min]
512	Decay Algorithm	Automatic transmission interval extension	Off/ On
513	Prop. Pathing	Automatic relay path switching	Off/ On
514	Speed	Speed output	Off/ On
515	Altitude	Altitude output	Off/ On
516	Object	Sets the object transmission	Object1 - Object3 Name: up to 9 characters, type: Live Object / Killed Object/ Live Item/ Killed Item, Method: Off/ Temp. / Auto (15min)/ Auto (30min)/ Auto (60min), N (S): Latitude, E (W): Longitude, Icon: EyeBall / Portable (Tent)/ HAMStore etc. (Total 68 kinds), Comments: up to 42 characters
517	WX TX	Weather data output	Off/ On
518	WX TX Interval	Weather data transmission interval	5/ 10/ 30/ 60 [min]
APRS - QSY Information			
520	QSY Info. in Status	QSY information in status	Off/ On
521	Tone/Narrow	Tone/Narrow	Off/ On
522	Shift/Offset	Shift/Offset	Off/ On
523	QSY Limit Distance	QSY information restriction distance	Off/ 10/ 20/ ...2490/2500 [km]
APRS - SmartBeaconing			
530	Low/High Speed	Low speed/ High speed	Slow Rate: 2 - 5 - 30 [km/h] Fast Rate: 2 - 70 - 90 [km/h]
531	Slow Rate	Low speed transmission interval time	1 - 30 - 100 [min]
532	Fast Rate	High speed transmission interval time	10 - 120 - 180 [sec]
533	Turn Angle	Turn angle	5 - 28 - 90 [deg]
534	Turn Slope	Turn slope	1 - 26 - 255 [10deg/speed]
535	Turn Time	Turn time	5 - 60 - 180 [sec]
APRS - Waypoint			
540	Format	Way point format	NMEA/ MAGELLAN/ KENWOOD
541	Length	Way point name length	6-Char/ 7-Char/ 8-Char/ 9-Char
542	Output	Way point output type	All/ Local/ Filtered
APRS - Packet Filter			
550	Position Limit	Data reception range limit	Off/ 10/ 20/ ...2490/ 2500 [km]
551	Filter Type	Filter type	Weather/ Digipeater / Mobile/ Object/Item/ NAVITRA/ 1-Way/ Others
APRS - Message			
560	User Phrases	Edits predefined messages	Up to 32 characters x 20 phrases
561	Auto Reply	Sets the automatic reply message	Off/ On
562	Reply To	Automatic reply message recipient	Up to 9 characters
563	Reply Delay Time	Automatic reply message wait time	0/ 10 / 20/ 30/ 60 [sec]
564	Reply Message Text	Registers the automatic reply message	Up to 50 characters
APRS - Notification			
570	RX Beep	Sets the RX beep sound	Off/ Message Only/ Mine/ All New/ All
571	TX Beep	Sets the TX beep sound	Off/ On
572	Special Call	Special call	Up to 9 characters
573	Display Area	Received notification display area	Entire Always / Entire Display/ One Line
574	Interrupt Time	RX notification display time	3/ 5/ 10 / 20/ 30/ 60 [sec]/ Infinite
575	APRS Voice	Announces the callsign of the received station	Off/ On
APRS - Digipeat			
580	Digipeat (My Call)	Sets the Digipeater	Off/ On
581	Ulcheck	Sets the RX UI frame relay	0 - 28 - 250 [sec]
582	Uldigipeat	Sets the UI Digipeater	Off/ On
583	Uldigi Aliases	Sets the Aliases string	Up to 9 characters x 4
584	Ulflood	Sets the Ulflood Digipeater	Off/ On
585	Ulflood Alias	Sets the Alias string for Ulflood	Up to 5 characters
586	UlfloodSubstitution	Sets the substitution for Ulflood	First/ ID/ NOID
587	Ultrace	Sets the ULtrace Digipeater	Off/ On
588	Ultrace Alias	Sets the Alias string for Ultrace	Up to 5 characters

MENU MODE

No.	Display	Description	Setting Values
APRS - Others			
590	PC Output	PC output	Off/ Raw Packets/ Waypoint
591	Network	Network type	APRS (APK103)/ Altnet
592	Voice Alert	Voice alert	Off/ On/ RX Only
593	VA Frequency	Voice alert frequency	67.0 - 100.0 - 254.1 [Hz]
594	Message Group Code	Message group code	Up to 9 characters x 6 codes (ALL, QST, CQ, KWD)
595	Bulletin Group Code	Bulletin group code	Up to 5 characters x 6 codes
Digital - RX History			
600	View History	Displays the RX history	-
Digital - TX/RX			
610	My Callsign	Registers own-station callsign (for DV/DR mode)	8 digits (callsign) + 4 digits (identification code) x 6 patterns
611	TX Message	Edits and selects the TX messages	Off/ 1/ 2/ 3/ 4/ 5
612	Direct Reply	Sets the direct reply	Off/ On
613	Auto Reply Timing	Auto reply timing	Immediate/ 5/ 10/ 20/ 30/ 60 [sec]
614	Data TX End Timing	Data TX end timing	Off/ 0.5/ 1/ 1.5/ 2 [sec]
615	EMR Volume Level	EMR volume level	Level 1 - Level 25 - Level 50
616	RX AFC	RX AFC	Off/ On
617	FM Auto Det. on DV	FM auto detect on DV	Off/ On
618	Data Frame Output	Data frame output	All/ Related to DSQ/ DATA Mode
619	Break Call	Break call	Off/ On
61A	Auto Reply	Auto reply	Off/ On/On (Voice)
Digital - Digital Squelch			
620	Select Type	Select type	Off/ Code Squelch/ Callsign Squelch
621	Digital Code	Digital code	00 - 99
Digital - GPS Data TX			
630	GPS Info. in Frame	GPS information in frame	Off/ On
631	Sentence	NMEA Sentence	GGA/ GLL/ GSA/ GSV/ RMC/ VTG/ APRS Sentence
632	Auto TX	Automatic transmission interval time	Off/ 0.2/ 0.5/ 1/ 2/ 3/ 5/ 10/ 20/ 30/ 60 [min]
Digital - RX Notification			
640	Display Method	Method to display RX interrupt	Off/ All / Related to DSQ/ Mine
641	Single Display Size	RX interrupt display size (single)	Half Display/ Entire Display
642	Dual Display Size	RX interrupt display size (dual)	Half Display/ Entire Display
643	Display Hold Time	RX interrupt display hold time	0/ 3/ 5/ 10 / 20/ 30/ 60 [sec]/ Infinite
644	Callsign Announce	Announces the callsign and kerchunk status	Off/ Kerchunk/ Except Kerchunk/ Mine/ All
645	Standby Beep	Standby beep	Off/ On
Digital - DV Gateway			
650	DV Gateway Mode	DV Gateway mode setting	Off/ Direct Mode/ Terminal Mode
651	My Callsign	Registers own-station callsign (for DV Gateway mode)	Up to 8 character callsign + 6 patterns of up to 4 character identification code
Digital - Direct Mode			
660	Gateway Callsign	Registers gateway callsign	Up to 8 characters
661	Gateway RPT Server	Gateway RPT server URL	-
662	Gateway Type	Gateway type	Global/ Japan
663	UDP Hole Punch	UDP hole punch	Off/ On
664	ReflectorHosts (REF)	Reflector hosts (REF)	Auto Update/ SD Card
665	ReflectorHosts (DCS)	Reflector hosts (DCS)	Auto Update/ SD Card
666	ReflectorHosts (XRF)	Reflector hosts (XRF)	Auto Update/ SD Card
667	ReflectorHosts (XLX)	Reflector hosts (XLX)	Auto Update/ SD Card
Digital - TERM Mode			
670	TERM Mode Select	Terminal mode select	Reflector TERM Mode/ Repeater Terminal Mode
671	RPT1	Sets the RPT1 (for DV Gateway mode)	Up to 8 characters
672	RPT2	Sets the RPT2 (for DV Gateway mode)	Up to 8 characters
673	Device Information	Sets the name	-

MENU MODE

No.	Display	Description	Setting Values
Digital - Repeater Monitor			
680	Repeater Moni Timer	Repeater monitor timer	10/ 20/ 30 [min]
681	Repeater Hosts	Repeater hosts	Auto Update/ SD Card
IP Network - Basic Settings			
700	DHCP	DHCP	Off/ On
701	IP Address	IP address	-
702	Subnet Mask	Subnet mask	-
703	Default Gateway	Default gateway	-
704	Primary DNS Server	Primary DNS server	-
705	Secondary DNS SVR	Secondary DNS server	-
IP Network - WLAN			
710	WLAN	WLAN	Off/ On
711	Access Point List	Access point list	-
SD Card - Export			
800	Config Data	Exports the configuration data	-
801	Config Data + V.Msg	Exports the configuration data and voice messages	-
802	Repeater List Only	Exports the repeater list	-
803	Callsign List Only	Exports the callsign list	-
804	Hotspot List Only	Exports the hotspot list	-
SD Card - Import			
810	Config Data	Imports the configuration data	-
811	Config Data + V.Msg	Imports the configuration data and voice messages	-
812	Repeater List Only	Imports the repeater list	-
813	Callsign List Only	Imports the callsign list	-
814	Hotspot List Only	Imports the hotspot list	-
SD Card - Unmount			
820	Main Unit	Unmount execute (main unit)	-
821	Operation Panel	Unmount execute (operation panel)	-
SD Card - Format			
830	Main Unit	Format execute (main unit)	-
831	Operation Panel	Format execute (operation panel)	-
SD Card - Memory Size			
840	Main Unit	Checks the available space on MicroSD memory card (main unit)	-
841	Operation Panel	Checks the available space on MicroSD memory card (operation panel)	-
SD Card - Configuration			
850	SD Card Slot	SD card slot	Main Unit/ Operation Panel
Configuration - Display			
900	LCD Brightness	LCD brightness	Level 1 - Level 8
901	Auto Brightness	Auto brightness	Off/ On
902	Power-on Message	Power-on message input	Up to 16 characters
903	Single Band Display	Single band display type	Off/ GPS/ Date / Demodulation Mode
904	Meter Type	Meter type	Type 1 - Type 3
905	Background Color	Background color select	Black/ White
906	Info. Backlight	Information Backlight	Off/ On
Configuration - Audio			
910	TX/RX EQ	Sets the TX/RX equalizer	RX EQ/ TX EQ (FM, NFM)/ TX EQ (DV)
911	TX EQ Level	Sets the TX equalizer level	0.4 kHz (-9 - +3 [dB]) / 0.8 kHz (-9 - +3 [dB])/ 1.6 kHz (-9 - +3 [dB])/ 3.2 kHz (-9 - +3 [dB])
912	RX EQ Level	Sets the RX equalizer level	0.4 kHz (-9 - +9 [dB]) / 0.8 kHz (-9 - +9 [dB])/ 1.6 kHz (-9 - +9 [dB])/ 3.2 kHz (-9 - +9 [dB])/ 6.4 kHz (-9 - +9 [dB])
913	USB Audio Out. Lvl.	USB Audio Output level	Level 1 - Level 7

MENU MODE

No.	Display	Description	Setting Values
914	External Speaker	External speaker	Mode1/ Mode2
Configuration - Accessibility			
920	Beep	Sets the beep sound	Off/ On
921	Beep Volume	Adjusts the beep volume	Level 1 - Level 5 - Level 7
922	Voice Guidance	Sets the voice guidance	Off/ Manual/ Auto1/ Auto2
923	Voice Guidance Vol.	Voice guidance volume	Level 1 - Level 5 - Level 7
924	VoiceGuidanceSpeed	Voice guidance speed	Speed 1 - Speed 4
925	Callsign Readout	Callsign readout method	Standard/ Phonetics (Full)/ Phonetics (Suffix)
Configuration - Bluetooth			
930	Bluetooth	Sets the Bluetooth function	Off/ On
931	Connect	Connects the device	-
932	Device Search	Searches for device	-
933	Disconnect	Disconnects the device	-
934	Pairing Mode	Pairing Mode	-
935	Device Information	Information on built-in radio device	Up to 19 characters
936	Auto Connect	Connects the device automatically	Off/ On
Configuration - Auxiliary			
940	PF 1 Key	Registers PF1 key	Recording → Voice Message 1-4 → Voice Guidance → VOICE → Group Name → GPS → Track LOG → SHIFT → STEP → LOW → Key Lock → Lockout → M>V → T.SEL → NEW → Voice Alert → LCD Brightness → LCD Off → DTMF CH0 → EchoLink CH0 → 1750Hz Tone → M.IN → Weather Channel → BAND (PF1) → CTRL (PF2) → MONITOR → GRP.UP → MENU → MUTE → DUAL
941	PF 2 Key	Registers PF2 key	Power Key/ Power Key + Voice
942	Power Key	Power key	Recording → Voice Message 1-4 → Voice Guidance → VOICE → Group Name → GPS → Track LOG → SHIFT → STEP → LOW → Key Lock → Lockout → M>V → T.SEL → NEW → Voice Alert → LCD Brightness → LCD Off → DTMF CH0 → EchoLink CH0 → 1750Hz Tone → M.IN → Weather Channel → BAND → CTRL → MONITOR → GRP.UP → MENU → MUTE → DUAL → Screen Capture → MODE → A/B (PF1 Mic) → VFO (PF2 Mic) → MR (PF3 Mic) → CALL (PF4 Mic) → MSG → LIST → BCON → REV → TONE → MHz → MARK → APRS → OBJ → ATT → POS → LOCK → ENTER → REPLY → P.MONI → WX1
943	PF1 (Mic)	Registers microphone PF1 key	Registers microphone PF2 key
944	PF2 (Mic)	Registers microphone PF2 key	Registers microphone PF3 key
945	PF3 (Mic)	Registers microphone PF3 key	Registers microphone PF4 key
946	PF4 (Mic)	Registers microphone PF4 key	Registers microphone PF1 key
947	Cursor Shift	Cursor shift	Off/1.0/ 1.5/ 2.0 [sec]
948	Secret Access Code	Secret access code	3-Digit
949	Remote Answer Back	Remote answer back	Off/ On
Configuration - Date & Time			
950	Setting	Sets the date, time and time zone	-
951	Auto Correction	Auto correction of date & time	Off/ On
952	NTP Server Address	NTP server address	-
953	NTP Time Correction	NTP Time Correction	-
Configuration - Lock			
960	Keys Lock Type	Keys lock type	Key Lock/ Frequency Lock
961	DTMF Keys Lock	DTMF keys lock	Off/ On
962	Mic Keys Lock	Microphone key lock	Off/ On
Configuration - Units			
970	Speed, Distance	Speed and distance units	mi/h, mile/ km/h, km/ knots, nm
971	Altitude, Rain	Altitude and rainfall units	feet, inch/ m, mm
972	Temperature	Temperature unit	°F/ °C
973	Latitude, Longitude	Latitude and longitude units	dd ° mm.mm'/ dd ° mm' ss.s"
974	Grid Square Format	Grid square format	Maidenhead Grid/ SAR Grid (CONV)/ SAR Grid (CELL)
Configuration - Interface			
980	USB Function	Selects the USB terminal function	COM+AF Output/ Mass Storage
981	USB Audio In/Out	Selects the USB audio input/output	Off/ AF/ Ext. Data
982	PC Output: GPS	PC output (NMEA sentences from built-in GPS)	USB (Main Unit) / USB (Panel) / Bluetooth
983	PC Output: APRS	PC output (packet data in APRS mode)	USB (Main Unit) / USB (Panel) / Bluetooth

MENU MODE

No.	Display	Description	Setting Values
984	KISS	PC input/output (packet data in KISS mode)	USB (Main Unit) / USB (Panel) / Bluetooth
985	DV/DR	PC input/output (TX and RX data in DV/DR mode)	USB (Main Unit) / USB (Panel) / Bluetooth
986	DV Gateway	PC input/output (TX and RX data in DV Gateway mode)	USB (Main Unit) / USB (Panel) / Bluetooth
987	Ext. Data Band	External data band	A Band/ B Band
988	Ext. Data Speed	External data speed	1200bps/ 9600bps
989	QC Output Source	QC Output source	Off/ Busy/ SQL/ TX/ Busy or TX / SQL or TX

Configuration - System

990	Language	Language setting	English/ Japanese
991	APO: Auto Power Off	Auto Power Off	Off/ 30/ 60/ 90/ 120/ 180 [min]
992	Version	Firmware version	-
993	EULA	End-User License Agreement	-
994	Important Notice	Important notice	-
995	Licenses	Licenses information	-
999	Reset	Reset	VFO Reset/ Partial Reset/ PM Reset/ Full Reset



- ◆ Menu descriptions and setting values are subject to change without prior notice.
- ◆ Bold character in setting values indicates a default setting.
- ◆ Use the 300 series (Audio File) and 800 series (SD Card) menus when a microSD memory card is inserted in the transceiver.

Reset

If the transceiver does not work properly, or if there is no response even when you press a key, refer to the contents of “TROUBLESHOOTING” in USER MANUAL.

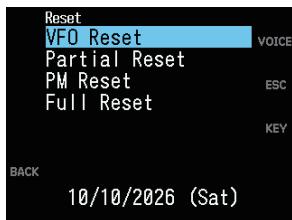
If the transceiver still does not work properly, perform a reset. When a reset is performed, the frequency and function settings are restored to the default setting states. There are four types of resets as follows, each of which can be performed using two methods.

VFO Reset	:Use to initialize the VFO and accompanying settings.
Partial Reset	:Use to initialize all settings other than the Memory channels, and the DTMF memory channels.
PM Reset	:Initializes only the contents of PM (programmable memory).
Full Reset	:Use to initialize all transceiver settings that you have customized. (Date and time are not reset.)

Reset Using Key Operation

With the power turned OFF

- 1 Press [F] + Power ON until reset screen appears.



- 2 Select “VFO Reset”, “Partial Reset”, “PM Reset”, or “Full Reset”.
- 3 Press [ENC] control
A confirmation message appears on the display.
- 4 Press [OK]
Reset is performed, and the transceiver restarts.

Reset via Menu Mode

- 1 Access Menu No. 999.
Select “VFO Reset”, “Partial Reset”, “PM Reset”, or “Full Reset”.



- ◆ To set the Voice Guidance to [Auto1] without entering Menu Mode after performing Full Reset, press and hold the [CALL] key to power ON from the power OFF state. Release the key when the KENWOOD logo and image appear and a “Beep” sounds.

Specifications

TM-D750A

GENERAL		RECEIVER		Band A	Band B	
Frequency Range		Circuitry				
Band A	TX: 144 - 148, 222 - 225, 430 - 450 MHz	F1D, F2D, F3E, F7W		Double Super Heterodyne		
	RX: 108 - 174, 216 - 260, 410 - 470 MHz	A3E		Triple Super Heterodyne		
Mode		IF Frequency				
TX	F1D, F2D, F3E, F7W	1st IF		57.15 MHz	58.05 MHz	
	F1D, F2D, F3E, F7W, A3E	2nd IF		450 kHz	450 kHz	
Operating Temp. Range		3rd IF	A3E	10.8 kHz	10.8 kHz	
Frequency Stability		Sensitivity (TYP.)				
Antenna Impedance		Amateur Band				
Operating Voltage		FM	12dB SINAD			
DC-IN	DC 11.7 - 15.9 V (STD: DC 13.8 V)		FM/ NFM 144 MHz	0.16/ 0.20 uV	0.16/ 0.20 uV	
	H 144M 13 A	DV	FM/ NFM 220/ 430 MHz	0.16/ 0.20 uV	0.16/ 0.20 uV	
	M 220M 8 A		144/ 430 MHz	0.22 uV	0.22 uV	
TX Current Consumption (TYP.)	L 430M 13 A	AM	220 MHz	0.22 uV	0.24 uV	
	6.5 A		AM 10 dB S/N	0.50 uV	0.50 uV	
	5.0 A	Except above Amateur Band				
RX Current Consumption (TYP.)		AM	10 dB S/N	118 - 174 MHz	0.40 uV	
Dimensions (W x H x D)				216 - 250 MHz	0.40 uV	
Main Unit	Projections not included	FM		410 - 470 MHz	0.40 uV	
	140.0(W) x 180(D) x 43(H) mm		12dB SINAD	118 - 144 MHz	0.32 uV	
Operation Panel				146 - 175 MHz	0.32 uV	
Weight (net)				200 - 222 MHz	0.40 uV	
Main Unit	300 g			225 - 250 MHz	0.40 uV	
	344 g			380 - 400 MHz	0.56 uV	
TRANSMITTER				400 - 430 MHz	0.28 uV	
RF Power Output				440 - 490 MHz	0.28 uV	
144M/430M	H 50 W			490 - 524 MHz	0.56 uV	
	M 10 W					
220M	L 5 W					
	20 W					
Modulation		Squelch (TYP.)		0.10 uV	0.10 uV	
FM	Reactance Modulation	Spurious Rejection		60 dB or more	60 dB or more	
	DV GMSK Reactance Modulation	430 MHz	60 dB or more	60 dB or more		
Max. Modulation Deviation		IF Rejection		60 dB or more	60 dB or more	
FM	$\pm 5.0 \text{ kHz}$	Channel Selectivity				
	NFM $\pm 2.5 \text{ kHz}$	-6 dB 12 kHz or more				
Spurious Emissions			-50 dB 30 kHz or less			
Modulation Distortion (300Hz - 3kHz)		Audio Output		3W or more / 8 Ω		
Microphone Impedance		GPS				
Spurious Emissions		Supported Satellite		GPS/QZSS/Galileo		
Modulation Distortion (300Hz - 3kHz)		Wireless Connection				
Microphone Impedance		Bluetooth Version, Class		Version 5.0, Class 1 HSP, SPP		
		WLAN Frequency Range		2.4 GHz, 5 GHz 802.11 a/b/g/n/ac		

TM-D750E

GENERAL	
Frequency Range	
Band A	TX: 144 - 146, 430 - 440 MHz RX: 108 - 174, 410 - 470 MHz
Band B	RX: 108 - 524 MHz
Mode	
TX	F1D, F2D, F3E, F7W
RX	F1D, F2D, F3E, F7W, A3E
Operating Temp. Range	-20 °C to +60 °C
Frequency Stability	±2.0 ppm
Antenna Impedance	50 Ω
Operating Voltage	
DC-IN	DC 11.7 - 15.9 V (STD: DC 13.8 V)
TX Current Consumption (TYP.)	H M L 144M 13 A 6.5 A 5.0 A 430M 13 A 6.5 A 5.0 A
RX Current Consumption (TYP.)	1.2 A (Rated Power)
Dimensions (W x H x D)	Projections not included
Main Unit	140.0(W) x 180(D) x 43(H) mm
Operation Panel	183.3(W) x 36.8(D) x 93(H) mm
Weight (net)	
Main Unit	300 g
Operation Panel	344 g
TRANSMITTER	
RF Power Output	H M L 50 W 10 W 5 W
Modulation	
FM	Reactance Modulation
DV	GMSK Reactance Modulation
Max. Modulation Deviation	
FM	±5.0 kHz
NFM	±2.5 kHz
Spurious Emissions	-60 dBc or less
Modulation Distortion (300Hz - 3kHz)	3% or less
Microphone Impedance	600 Ω

RECEIVER		Band A	Band B
Circuitry	F1D, F2D, F3E, F7W A3E		Double Super Heterodyne Triple Super Heterodyne
IF Frequency	1st IF 2nd IF 3rd IF		
	A3E	57.15 MHz 450 kHz 10.8 kHz	58.05 MHz 450 kHz 10.8 kHz
Sensitivity (TYP.)			
Amateur Band			
FM	12dB SINAD		
FM/ NFM	144 MHz	0.16/ 0.20 uV	0.16/ 0.20 uV
FM/ NFM	430 MHz	0.16/ 0.20 uV	0.16/ 0.20 uV
DV	PN9/GMSK 4.8 kbps, BER 1%		
144 MHz	0.22 uV	0.22 uV	
430 MHz	0.22 uV	0.24 uV	
AM	10 dB S/N	0.50 uV	0.50 uV
Except above Amateur Band			
AM	10 dB S/N		
118 - 174 MHz	0.40 uV	0.40 uV	
216 - 250 MHz	0.50 uV	0.50 uV	
410 - 470 MHz	0.40 uV	0.40 uV	
FM	12dB SINAD		
118 - 144 MHz	0.32 uV	0.32 uV	
146 - 175 MHz	0.32 uV	0.32 uV	
200 - 222 MHz	0.40 uV	0.40 uV	
225 - 250 MHz	0.40 uV	0.40 uV	
380 - 400 MHz	0.56 uV	0.56 uV	
400 - 430 MHz	0.28 uV	0.28 uV	
440 - 490 MHz	0.28 uV	0.28 uV	
490 - 524 MHz	0.56 uV	0.56 uV	
Squelch Sensitivity		0.10 uV	0.10 uV
Spurious Rejection	144 MHz 430 MHz	60 dB or more 60 dB or more	60 dB or more 60 dB or more
IF Rejection		60 dB or more	60 dB or more
Channel Selectivity	-6 dB -50 dB	12 kHz or more 30 kHz or less	
Audio Output		3W or more / 8 Ω	
GPS			
Supported Satellite	GPS/QZSS/Galileo		
Wireless Connection			
Bluetooth Version, Class	Version 5.0, Class 1 HSP, SPP		
WLAN Frequency Range	2.4 GHz, 5 GHz 802.11 a/b/g/n/ac		



- ◆ Except for sensitivity, these specifications are guaranteed for Amateur Bands only.
- ◆ JVCKENWOOD follows a policy of continuous advancement in development. For this reason, specifications may be changed without notice.
- ◆ Alterations may be made without notice to improve the ratings or the design of the transceiver.
- ◆ The photographic and printing processes may cause the coloration of the transceiver to appear different from that of the actual transceiver.

■ Frequencies That Cannot Be Received

Concerning the received frequency display, an unmodulated signal may be received. This is according to the set intrinsic frequency form. Formulas and examples are shown below:

<A Band>

<B Band>

V x U reception $(V_{RX} + 57.15 \text{ MHz}) \times n - (U_{RX} - 58.05 \text{ MHz}) \times m = \pm 57.15 \text{ MHz}, \pm 58.05 \text{ MHz}$

Example) Band A: 146.000 MHz, Band B: 147.6625 MHz, Band B receives an unmodulated signal.

U x V reception $(U_{RX} - 57.15 \text{ MHz}) \times n - (V_{RX} + 58.05 \text{ MHz}) \times m = \pm 57.15 \text{ MHz}, \pm 58.05 \text{ MHz}$

Example) Band A: 440.000 MHz, Band B: 147.6625 MHz, Band A receives an unmodulated signal.

U x U reception $(U_{RX} - 57.15 \text{ MHz}) \times n - (U_{RX} - 58.05 \text{ MHz}) \times m = \pm 57.15 \text{ MHz}, \pm 58.05 \text{ MHz}$

Example) Band A: 431.84375 MHz, Band B: 440.000 MHz, Band B receives an unmodulated signal.

V x 220M reception $(V_{RX} + 57.15 \text{ MHz}) \times n - (220M_{RX} + 58.05 \text{ MHz}) \times m = \pm 57.15 \text{ MHz}, \pm 58.05 \text{ MHz}$

Example) Band A: 145.740 MHz, Band B: 223.500 MHz, Band B receives an unmodulated signal.

220M x V reception $(220M_{RX} - 57.15 \text{ MHz}) \times n - (V_{RX} + 58.05 \text{ MHz}) \times m = \pm 57.15 \text{ MHz}, \pm 58.05 \text{ MHz}$

Example) Band A: 223.500 MHz, Band B: 147.535 MHz, Band B receives an unmodulated signal.

U x 220M reception $(U_{RX} + 57.15 \text{ MHz}) \times n - (220M_{RX} + 58.05 \text{ MHz}) \times m = \pm 57.15 \text{ MHz}, \pm 58.05 \text{ MHz}$

Example) Band A: 439.780 MHz, Band B: 223.550 MHz, Band B receives an unmodulated signal.

V_{RX} : VHF reception frequency, U_{RX} : UHF reception frequency, $220M_{RX}$: 220 MHz band reception frequency

n and m are arbitrary integers.

19.2 MHz x n (n = multiple)

55.95 MHz x n (n = multiple)

Around 11.0592 MHz x n (n = multiple) reception

144.385 MHz

147.465 MHz

Around 224.25 MHz reception

442.385 MHz

- Hereby, JVCKENWOOD Europe B.V. declares that the radio equipments described in this instruction manual are in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address. (Note: The detail type designations are described in the EU declaration of conformity.)
- Par les présentes, JVCKENWOOD Europe B.V. déclare que les équipements de radio décrits dans ce manuel d'instructions sont conformes à la directive 2014/53/EU. Le texte intégral de la déclaration UE de conformité est disponible à l'adresse internet suivante. (Remarque : Les désignations de types détaillés sont décrites dans la déclaration UE de conformité.)
- Por la presente, JVCKENWOOD Europe B.V. declara que los equipos de radio descritos en este manual de instrucciones se encuentran en conformidad con la Directiva 2014/53/EU. El texto completo de la declaración de conformidad de la UE se encuentra disponible en la siguiente dirección de Internet. (Nota: las designaciones del tipo de detalle se describen en la declaración de conformidad de la UE).
- Con la presente, JVCKENWOOD Europe B.V. dichiara che gli apparecchi radio descritti in questo manuale di istruzioni sono conformi alla Direttiva 2014/53/EU. Il testo integrale della Dichiarazione di conformità UE è disponibile al seguente indirizzo Internet. (Nota: le designazioni dettagliate del tipo sono descritte nella Dichiarazione di conformità UE.)
- Hiermit erklärt JVCKENWOOD Europe B.V., dass die in dieser Bedienungsanleitung beschriebenen Funkgeräte der Richtlinie 2014/53/EU entsprechen. Der vollständige Wortlaut der EU-Konformitätserklärung ist unter der folgenden Internetadresse verfügbar. (Hinweis: die detaillierten Typenbezeichnungen sind in der EU-Konformitätserklärung angegeben.)
- JVCKENWOOD Europe B.V. verklaart hierbij dat de in deze handleiding beschreven radioapparatuur voldoet aan Richtlijn 2014/53/EU. De volledige tekst van de EU-conformiteitsverklaring is beschikbaar op het volgende internetadres. (Opmerking: de typeaanduidingen in detail worden beschreven in de EU-conformiteitsverklaring.)
- Δια του παρόντος, η JVCKENWOOD Europe B.V. δηλώνει ότι οι ραδιοφωνικές συσκευές που περιγράφονται στο παρόν εγχειρίδιο οδηγιών είναι σε συμμόρφωση με την οδηγία 2014/53/EU. Το πλήρες κείμενο της δήλωσης συμμόρφωσης ΕΕ είναι διαθέσιμο στην παρακάτω διαδικτυακή διεύθυνση. (Σημείωση: Ο λεπτομερείς ονομασίες τύπου περιγράφονται στη δήλωση συμμόρφωσης ΕΕ.)
- Dearbháinn JVCKENWOOD Europe B.V., leis seo, go bhfuil an trealamh raidió, mar a gcuirtear síos air sa lámhleabhar treoracha seo, i gcomhréir leis an Treoir 2014/53/EU. Gheobhaidh tú teacs iomlán den dearbhú comhréireachta AE ag an seoladh idírlín mar seo a leanas. (Nóta: Tugtar cur síos ar na mion sonrúcháin sa dearbhú comhréireachta AE.)
- Käesolevaga JVCKENWOOD Europe B.V. kinnitat, et käesolevas kasutusjuhend kirjeldat radioseadmed vastavat direktiivile 2014/53/EU. EL-i vastavusdeklaratsiooni täistekst on kättesaadav järgmiselt veebiaadressilt. (Märkus: Detailide tüüpide nimetused on kirjeldatud EL-i vastavusdeklaratsioonis.)
- Ovime JVCKENWOOD Europe B.V. izjavljuje da su radio uredaji opisani u ovom priručniku u skladu s Direktivom 2014/53/EU. Cjelokupan tekst EU izjave o sukladnosti dostupan je na sljedećoj internet adresi. (Napomena: detaljne oznake tipa opisane su u EU izjavi o sukladnosti).
- JVCKENWOOD Europe B.V. intygar härmed att radioutrustningen som beskrivs i denna bruksanvisning överensstämmer med direktiv 2014/53/EU. Den fullständiga texten med EU-försäkran om överensstämmele finns tillgänglig på följande internetadress. (OBS: De fullständiga typteknringarna beskrivs i EU-försäkran om överensstämmele.)
- Spoločnosť JVCKENWOOD Europe B.V. týmto vyhlasuje, že rádiové zariadenia popísané v tomto Návode na obsluhu sú v súlade so Smernicou 2014/53/EU. Úplné znenie Vyhľásenia o zhode EÚ je k dispozícii na nasledovnej internetovej adrese. (Poznámka: Podrobnej typy označení sú popísané vo Vyhľásení o zhode EÚ).
- S tem JVCKENWOOD Europe B.V. izjavlja, da je radijska oprema, opisana v teh navodilih za uporabo, v skladu z Direktivo 2014/53/EU. Celotno besedilo izjave o skladnosti za EU je na voljo na naslednjem spletnem naslovu. (Opomba: podrobne označbe tipov so opisane v izjavi o skladnosti za EU.)

- JVCKENWOOD Europe B.V. tímto prohlašuje, že rádiová zařízení opsaná v tomto návodu k obsluze jsou v souladu se směrnicí 2014/53/EU. Úplné znění prohlášení o shodě výrobku s požadavky EU je k dispozici na následující internetové adrese. (Poznámka: Podrobná typová označení jsou popsána v EU prohlášení o shodě.)
- JVCKENWOOD Europe B.V. erklærer herved, at radioudstyrret beskrevet i denne betjeningsvejledning er i overensstemmelse med direktivet 2014/53/EU. Den fulde ordlyd af EU-overensstemmelseserklæringen er tilgængelig på følgende internetadresse. (Bemærk: Typebetegnelserne i detaljer er beskrevet i EU-overensstemmelseserklæringen).
- Ezennel a JVCKENWOOD Europe B.V. kijelenti, hogy a jelen használati utasításban leírt rádiós berendezések megfelelnek a 2014/53/EU irányelvnek. Az EU megfelelőségi nyilatkozat teljes szövege a következő webcímén érhető el. (Megjegyzés: A részletes típusmegjelölést az EU megfelelőségi nyilatkozata írja le.)
- JVCKENWOOD Europe B.V. vakuuttaa täten, että tässä käytööppäassa kuvatut radiolaitteet noudattavat 2014/53/EU-direktiiviä. Koko EU-vaatimus tenmukaisuusvakuutusteksti on saatavilla seuraavasta Internet-osoitteesta. (Huom.: yksityiskohtaiset tyypinimet on kerrottu EU-vaatimustenmukaisuusvakuutuksessa.)
- С настоящим JVCKENWOOD Europe B.V. декларира, че радио съоръженията, описаны в това ръководство са в съответствие с Директива 2014/53/EU. Пълният текст на ЕС декларацията за съответствие е на разположение на следния интернет адрес. (Забележка: Наименованията на типа детайл са описаны в ЕС декларацията за съответствие.)
- Deste modo, a JVCKENWOOD Europe B.V. declara que os equipamentos de rádio descritos neste manual de instruções estão em conformidade com a Diretiva 2014/53/EU. O texto integral da declaração de conformidade da UE está disponível no seguinte endereço de Internet. (Nota: As designações de tipo em detalhe são descritas na declaração de conformidade UE).
- JVCKENWOOD Europe B.V. niniejszym oświadcza, że urządzenia radiowe opisane w niniejszej instrukcji są zgodne z dyrektywą 2014/53/EU. Pełny tekst deklaracji zgodności UE jest dostępny pod następującym adresem internetowym. (Uwaga: oznaczenia typów są szczegółowo opisane w deklaracji zgodności UE).
- Hawnhekk, JVCKENWOOD Europe B.V. tiddikjara li t-tagħmir tar-radju deskrift f'dan il-manwel tal-istruzzjoni huwa konformi mad-Direttiva 2014/53/EU. It-test shiħi tad-dikjarazzjoni ta' konformità tal-UE huwa disponibbli fl-indirizz tal-Internet seguenti. (Nota: Id-dekkrizzjoni jiet tad-dettalji tat-tip huma deskrifti fid-dikjarazzjoni ta' konformità tal-UE.)
- JVCKENWOOD Europe B.V. ar šo deklar, ka šajā rokasgrāmatā aprakstītā radioaparātūra atbilst direktīvas 2014/53/EU prasībām. Pilns ES atbilstības deklarācijas teksts ir pieejams tālāk norādītajā tīmeklā vietnē. (Piezīme. Detalizēti tipu apzīmējumi ir aprakstīti ES atbilstības deklarācijā.)
- Šiuo dokumentu „JVCKENWOOD Europe B.V.“ pareišķia, kad šiame instrukciju vadove aprašoma radio ierīce attīstītā Direktīvā 2014/53/EU. Visas ES atīkties deklarācijos tekstas pateikiamas tolika nurodytu interneto adresu. (Pastaba: tikslīši tipo pavadinimai aprašyti ES atbilstības deklarācijā.)
- Prin prezenta, JVCKENWOOD Europe B.V. declară că echipamentele radio descrise în acest manual de instrucțiuni sunt în conformitate cu Directiva 2014/53/EU. Textul complet al declarației de conformitate UE este disponibil la următoarea adresă de internet. (Notă: Desemnările de tip detaliat sunt descrise în declarația de conformitate UE.)
- Böylelikle JVCKENWOOD Europe B.V. bu kullanım kilavuzunda tarif edilen radyo ekipmanlarının 2014/53/EU Direktifi ile uyumlu olduğunu beyan etmektedir. AB uygunluk beyanının tam metni aşağıdaki internet adresinde mevcuttur. (Not: Detay tip tanımları, AB uygunluk beyanında tarif edilmektedir).
- Hereby, JVCKENWOOD U.K. Limited declares that the radio equipments described in this instruction manual are in compliance with Radio Equipment Regulations 2017. The full text of the UK declaration of conformity is available at the following internet address. (Note: The detail type designations are described in the UK declaration of conformity.)

<https://www.kenwood.com/cs/com/ecdoc/>



Access the following URL for the precautions to use this product and for the simple guide.

Refer to the "SIMPLE GUIDE". Reportez-vous au «GUIDE SIMPLE». Consulte la "GUÍA SENCILLA". Fare riferimento alla "GUIDA RAPIDA". Siehe die "EINFACHE ANLEITUNG". Raadpleeg de "EENVOUDIGE GIDS". Avatrepté στον "ΑΠΟΣ ΟΔΗΓΟΣ". Féach an "TREOIR SHIMPLI". Vaadake "KIIRJUHEND". Pogledajte "KRATKI VODIČ". Se "SNABBGUIDE". Prečítajte si „STRUČNÁ PRÍRUČKA“. Glejte "KRATKA NAVODILA". Viz „JEDNODUCHÝ NÁVOD“. Se "ENKEL GUIDE". Lásd az "EGYSZERŰ KÉZIKÖNYV". Katso "YKSINKERTAINEN OPAS". Obърнете се към "OCHOBHO РЪКОВОДСТВО ЗА ЕКСПЛОАТАЦИЯ". Consulte o "GUIA SIMPLES". Zapoznaj się z „INSTRUKCJA UPROSZCZONA“. Irreferi ghall- "GWIDA SEMPLIČI". Skatiet "VIENKĀRSĀ PAMĀCĪBA". Žr. „PAPRASTAS VADOVAS“. Consultai „GHID SIMPLU“. „KOLAY KILAVUZ“ bakin.

<https://manuals.jvckenwood.com/download/files/B5K-0414-00.pdf>



Eski Elektrikli ve Elektronik Cihazların ve Pillerin İmhası Hakkında Bilgi (ayırtı atık toplama sistemlerine sahip olan ülkelerde geçerlidir)



Bu simbolü (üzeri çizili çöp bidonu) içeren ürün ve piller evsel atı k çöpleri ile birlikte atılamaz. Kullanılmış elektrikli ve elektronik cihaz ve piller, bu tür maddeleri ve bunların yan ürünlerini işlemeye elverişli bir geri kazanım tesisine gönderilmelidir. Size en yakın geri kazanım tesisinin konumunu öğrenmek üzere yerel yetkililerinize danışın. Doğru geri kazanım ve atık uzaklaştırma yöntemleri, sadece öz kaynakların korunmasına yardımcı olmakla kalmayıp ayrıca sağlığımıza ve çevreye olacak zararlı etkilerini engellemeye yardımcı olur.

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