KENWOOD

TH-D75A TH-D75E

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.



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.

https://manual.kenwood.com/files/B5K-1131-00.pdf

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://manual.kenwood.com/files/B5K-1131-00.pdf



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Glenn Randers-Pehrson

glennrp at users.sourceforge.net

December 19, 2013

*Md5

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144/220/430MHz TRIBANDER TH-D75A 144/430MHz DUAL BANDER TH-D75E

USER GUIDE



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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	СН	CY	CZ	EE	HU	LV	LT	MT	PL
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Note:

Display examples in this manual may not match the actual operations.

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BEFORE STARTING

Thank You

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

The models listed below are covered by this manual. **TH-D75A:** 144/220/430MHz TRIBANDER (The Americas) **TH-D75E:** 144/430MHz DUAL BANDER (E type: Europe/T type: UK)

Features

This transceiver has the following main features:

- Includes a program for dealing with data formats supported by Automatic Packet Reporting System (APRS[®]).
 - Compliant with a digipeater.
- Compliant with voice/digital mode D-STAR digital amateur radio networks.
 - Compliant with D-STAR dual monitor.
 - Compliant with D-STAR hotspot lists.
 - Compliant with the reflector terminal mode.
- Built-in GPS receiver unit.
- Transflective color TFT Display.
- Weatherproof toughness equivalent to IP 54/55 standard.
- Wide-band and multi-mode reception.
 Two-wave simultaneous reception. (Vx11 UxV Ux11 (TH-D75A/TH-D75E) Vx220
- (VxU, UxV, UxU (TH-D75A/ TH-D75E), Vx220M, 220MxV, Ux220M (TH-D75A)
- Equipped with IF filter for comfortable reception (SSB/CW).
- High-performance DSP-based voice processing.
- Built-in Bluetooth (SPP, HSP)
- microSD (2 GB to 32 GB)
- Compliant with the battery charge as well as data transmission and reception by USB Type-C[™].
- 1000 memory channels, 1500 repeater lists
- Transmit power 4-step switching (5/ 2/ 0.5/ 0.05 W)

Writing Conventions Followed in this Manual

The writing conventions described below have been followed to simplify instructions and avoid unnecessary repetition.

Instruction	Action		
Press [KEY].	Momentarily press KEY.		
Press [KEY] (1s).	Press and hold KEY for 1 second or longer.		
Press [KEY1], [KEY2].	Press KEY1 momentarily, release KEY1, then press KEY2.		
Press [F], [KEY].	Press the F key to enter Function mode, then press KEY to access its secondary function.		
Press [KEY] + Power ON.	With the transceiver power OFF, press and hold KEY while turning the transceiver power ON.		



ATTENTION: (USA and CANADA only) The RBRC Recycle seal found on KENWOOD Lithium-ion (Li-ion) battery packs indicates KENWOOD's voluntary participation in an industry program to collect and recycle Li-ion batteries after their operating life has expired.

The RBRC program is an alternative to disposing Li-ion batteries with your regular refuse or in municipal waste streams, which is illegal in some areas. For information on Li-ion battery recycling in your area, call (toll free) 1-800-8-BATTERY (1-800-822-8837).

KENWOOD's involvement in this program is part of our commitment to preserve our environment and conserve our natural resources.

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.

NOTICES TO THE USER

SUPPLIER'S DECLARATION OF CONFORMITY

47 CFR § 2.1077 Compliance Information Trade name: KENWOOD

Model(s): TH-D75A, AC adapter (W0H-0160) 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

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.

This equipment has very low levels of RF energy that are deemed to comply without testing of specific absorption rate (SAR). 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

PRECAUTION

- Do not charge the transceiver and battery pack when they are wet.
- Ensure that there are no metallic items located between the transceiver and the battery pack.
- 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 or earphone 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.
- Ensure that the end of the antenna does not touch your eyes.
- When the transceiver is used for long transmissions, the chassis will become hot. Do not touch these hot locations when replacing the battery pack.
- 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.
- For safety reasons, we recommend that the battery charger be connected to an easily accessible AC socket.
- To dispose of batteries, be sure to comply with the laws and regulations in your country or region.

WARNING

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.
- In aircrafts. (Any use of the transceiver must follow the instructions and regulations provided by the airline crew.)
- 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, remove the battery pack from the transceiver, 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.
- Do not carry the battery pack (or battery case) with metal objects, as they may short the battery terminals.
- Danger of explosion if the battery is incorrectly replaced; replace only with the same KENWOOD brand & model battery pack.
- Power OFF the transceiver before changing the battery pack.
- When operating the transceiver in areas where the air is dry, it is easy to build up an electric charge (static electricity). When using a earphone accessory in such conditions, it is possible for the transceiver to send an electric shock through the earphone and to your ear. We recommend you use only a speaker/microphone in these conditions, to avoid electric shocks.
- When attaching a commercial strap to the transceiver, ensure that the strap is durable. In addition, do not swing the transceiver around by the strap; you may inadvertently strike and injure another person with the transceiver.
- If a commercially available neck strap is used, take care not to let the strap get caught on nearby machine.
- Do not use the PG-2W to connect directly to a vehicle battery (12 V). Extensive voltage could result in damaging the transceiver. If the input voltage exceeds approximately 17.5 V, the transceiver automatically turns OFF.

Caution about dustproofing and waterproofing

- The transceiver is not completely dustproof and waterproof. When the supplied antenna and the battery pack are installed, and when rubber caps for the SP/ MIC jack, microSD memory card slot, USB connector, and DC IN jack are securely attached with no gaps, the dustproofing equivalents with IP5x (protection against dust), and the waterproofing equivalents with IPx4 (protection against water spray) and IPx5 (protection against water jet). If the optional battery case (KBP-9) is attached, the dustproofing and waterproofing equivalent with IP54.
- The waterproofing of the transceiver is only for fresh water and tap water at room temperature (approximately 20°C /70°F). For hot water, cold water, salt water, soup, juice, tea, coffee, detergent, and medication, etc., the transceiver is not waterproof because the leakage into the transceiver increases.
- If a rubber cap is damaged or degrades, the dustproofing and waterproofing of the transceiver cannot be maintained. For the replacement and ordering, etc. of the rubber cap (Part Number: B0K-0148-00), contact the service center or the dealer of the place of purchase. (When you replace a rubber cap, the replacement of the rubber cap is your responsibility.)

Information concerning the battery pack:

The battery pack includes flammable content such as organic solvents. Mishandling may cause the battery to rupture producing flames or extreme heat, deteriorate, or cause other forms of damage to the battery. Please observe the following safety precautions.

DANGER

- Do not disassemble or rebuild the battery! The battery pack has a safety and protection circuits to avoid danger. If they suffer serious damage, the battery may generate heat or smoke, rupture, or burst into flame.
- Do not short-circuit the battery!
 Do not join the + and terminals using any form of metal (such as a paper clip or wire). Do not carry or store the battery pack in containers holding metal objects (such as wires, chain-necklace or hairpins). If the battery pack is short-circuited, excessive current will flow and the battery may generate heat or smoke, rupture, or burst
- into flame. It will also cause metal objects to heat up.
 Do not incinerate or apply heat to the battery! If the insulator is melted, the gas release vent or safety circuit is damaged, or the electrolyte is ignited, the battery may generate heat or smoke, rupture, or burst into flame.
- Do not leave the battery near fire, stoves, or other heat generators (areas reaching over 80°C/176°F)! If a cell internal polymer separator is melted due to high temperature, an internal short-circuit may occur in the individual cells and the battery may generate heat or smoke, rupture, or burst into flame.
- Avoid immersing the battery in water or getting it wet!

If the battery becomes wet, wipe it off with a dry towel before use. If the battery's protection circuit is damaged, the battery may charge at excess current (or voltage) and an abnormal chemical reaction may occur. The battery may generate heat or smoke, rupture, or burst into flame.

• Do not charge the battery near heat sources, fires or in direct sunlight!

If the battery's protection circuit is damaged, the battery may charge at excess current (or voltage) and an abnormal chemical reaction may occur. The battery may generate heat or smoke, rupture, or burst into flame.

 Use only the specified charger(s) and observe charging requirements!

If the battery is charged in out of specifications conditions (at high temperature over the specified value, excessive high voltage or current over the specified value, or with a modified charger), it may overcharge or an abnormal chemical reaction may occur. The battery may generate heat or smoke, rupture, or burst into flame.

• Do not pierce the battery with any object, strike it with an object, or step on it!

This may break or deform the battery, causing a shortcircuit. The battery may generate heat or smoke, rupture, or burst into flame.

Do not jar or throw the battery!

An impact may cause the battery to leak, generate heat or smoke, rupture, and/or burst into flame. If the battery's protection circuit is damaged, the battery may charge at an abnormal current (or voltage), and an abnormal chemical reaction may occur. The battery may generate heat or smoke, rupture, or burst into flame. • Do not use the battery pack if it is damaged in any way!

The battery may generate heat or smoke, rupture, or burst into flame.

- Do not solder directly onto the battery! If the insulator is melted or the gas release vent or safety circuit is damaged, the battery may generate heat or smoke, rupture, or burst into flame.
- Do not reverse the battery polarity (or terminals)! When charging a reverse connected battery, an abnormal chemical reaction may occur. In some cases, an unexpected large amount of current may flow upon discharging. The battery may generate heat or smoke, rupture, or burst into flame.
- Do not reverse-charge or reverse-connect the battery!

The battery pack has positive and negative terminals. If the battery pack does not smoothly connect with a charger or operating equipment, do not force it; check the polarity of the battery. If the battery pack is reverseconnected to the charger, it will be reverse-charged and an abnormal chemical reaction may occur. The battery may generate heat or smoke, rupture, or burst into flame.

• Do not touch a ruptured and leaking battery! If the electrolyte liquid from the battery gets into your eyes, flush your eyes with fresh water as soon as possible, without rubbing your eyes. Go to the hospital immediately. If left untreated, it may cause eyeproblems.

WARNING

Do not charge the battery for longer than the specified time!

If the battery pack has not finished charging even after the specified time has passed, stop it. The battery may generate heat or smoke, rupture, or burst into flame.

- Do not place the battery pack in a microwave oven or a high pressure container! The battery may generate heat or smoke, rupture, or burst into flame.
- Keep ruptured and leaking battery packs away from fire!

If the battery pack is leaking (or the battery emits a bad odor), immediately remove it from hot, flammable or combustible areas. Electrolyte leaking from battery can easily catch on fire and may cause the battery to generate smoke or burst into flame.

• Do not use an abnormal battery! If the battery pack emits a bad odor, appears to have different coloring, is deformed, or seems abnormal for any other reason, remove it from the charger or operating equipment and do not use it. The battery may generate heat or smoke, rupture, or burst into flame.

PREPARATION

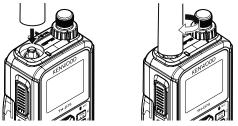
SUPPLIED ACCESSORIES

After carefully unpacking the transceiver, identify the items listed in the table below. We recommend you keep the box and packaging for shipping.

		Quantity			
Item	Comments	TH-	TH-D75E		
		D75A	E	Т	
Antenna		1	1	1	
Li-ion battery pack	KNB-75LA: 1820 mAh	1	1	1	
AC adapter (Battery	W0H-0160-XX	1	-	-	
charger) (AC Voltages:	W0H-0161-XX	-	1	-	
100 - 240 V, 50/60 Hz)	W0H-0162-XX	-	-	1	
Belt clip		1	1	1	
Warranty card		1	1	1	
	English/ French/ Spanish	1	1	1	
User guide	Italian/ German/ Dutch	-	1	-	

INSTALLING THE ANTENNA

Hold the supplied antenna by its base, then screw it into the connector on the top panel of the transceiver until secure.

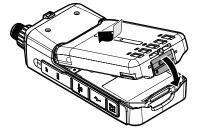


INSTALLING THE BATTERY PACK

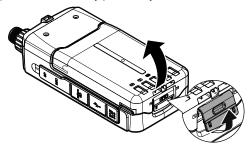
Note:

- Because the battery pack is provided uncharged, you must charge the battery pack before using it with the transceiver.
- When removing the battery pack, be careful not to drop the transceiver and the battery pack.

Match the guides of the battery pack with the corresponding grooves on the upper rear of the transceiver, then firmly press the battery case to lock it in place.



To remove the battery pack, lift the release lever to unlock the battery pack. Lift the battery pack away from the transceiver.

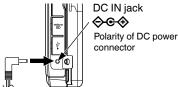


CHARGING THE BATTERY PACK

For charging the battery pack with the supplied battery charger

The battery pack can be charged after it has been installed onto the transceiver. (The battery pack is provided uncharged for safety purposes.)

- 1 Plug the charger into an AC wall outlet.
 - Plug in the charger while the transceiver power is OFF.
- 2 Insert the charger plug into the DC IN jack of the transceiver.



- Charging starts and "Charging" appears on the display when the transceiver power is OFF. "Charging" disappears when charging is completed.
- The backlight is ON when pressing any key while charging.
- "Charging" does not appear when charging with the optional rapid battery charger.
- **3** It takes approximately 3.5 hours to charge an empty KNB-75LA Li-ion battery pack (charging when the transceiver power is OFF). After 3.5 hours, remove the charger plug from the transceiver DC IN jack.
 - Charging when the transceiver power is ON takes a longer time than charging when the transceiver power is OFF.
- 4 Unplug the charger from the AC wall outlet.

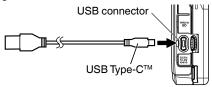
Note:

- Never leave the battery pack in direct sunlight.
- The transceiver becomes warm while charging the battery pack.
- ♦ While the battery pack is charged, the ambient temperature must be within 0°C ~ 40°C (32°F ~ 104°F). Otherwise, charging does not start. If the transceiver senses that the temperature is more than 60°C (140° F) during charging, the transceiver stops charging.
- Before recharging the battery pack, use the battery pack until the transceiver stops receiving.
- Do not plug the charger into the DC IN jack for more than 24 hours.
- Do not expose the charger to dripping or splashing conditions. No objects filled with liquids, such as vases, shall be placed on the AC adapter or charger.
- Do not place the charger into the liquids.
- Unplug the charger as soon as possible after the charging period is over.
- The charger plug for an AC wall outlet should be used to disconnect an AC adapter from an AC outlet, and the charger plug must remain readily operable.
- ♦ After the battery pack is charged, do not unplug and plug the charger into the AC outlet again. Unpluging the charger will reset the charging timer and the battery pack will be charged again. This could result in over-charging.
- If the battery pack is not used for a long time, the battery pack capacity temporarily decreases. In this case, charge the battery and use the battery pack until the transceiver stops receiving. Repeat this procedure several times. The battery pack should recover its capacity.
- Exceeding the specified charge period shortens the useful life of the KNB-75LA battery pack.
- The provided charger is designed to charge only the KNB-75LA battery pack. Charging other models of battery packs may damage the charger and battery pack.
- Do not transmit while charging.
- When not in use, store the battery pack in a cool and dry place.
- Before charging the battery pack, ensure that the release lever is firmly closed.
- Attention should be drawn to the environmental aspects of battery disposal.

- It takes approximately 3 hours to charge the KNB-75LA with the optional rapid battery charger.
- Charging through the DC IN jack and USB connector when the transceiver is turned ON can be prevented. Access Menu No. 923 (page 25).

For charging the battery pack with the USB cable (USB Type-C[™])

- 1 Plug the USB cable into an AC adapter, etc.
- 2 Attach the battery pack to the transceiver, and plug the USB plug into the USB connector.



Note:

- To avoid a failure or abnormal heat generation, be sure to use a USB converter AC adapter (sold separately) with a 5 V output voltage and a current of 2 A or higher.
- Do not use a USB cable exceeding 3 m (9.8 feet).
- Charging from the USB cable is not guaranteed to work with all USB cables or AC adapters.
- Charging time with the USB connector may be longer than with the supplied charger.
- If the DC IN cable and USB cable are both connected, you cannot charge from the USB cable. The DC IN route has priority.
- Charging through the DC IN jack and USB connector when the transceiver is turned ON can be prevented. Access Menu No. 923 (page 25).

For charging the battery pack with the optional rapid battery charger

Note:

- Insert the battery pack only in the rapid battery charger to charge a battery pack that has been in storage for a long time.
- If the battery pack is completely depleted while using the transceiver, remove the battery pack from the transceiver and insert the battery pack in the rapid battery charger.
- When the battery is installed on the transceiver and you are using an optional rapid battery charger, do not charge the battery from the DC IN jack/ USB connector. Charging the battery from the DC IN jack/ USB connector may result in overcharging the battery which can result in the shortening of the battery life cycle.

Charger Error

- While charging, if a problem is detected in the battery, "Charge Error !!" appears on the display.
- The following condition create charging error:
- Overvoltage in the battery is detected.
- When a charge error occurs, no key other than [ひ] will function.

BATTERY LIFE

Before you operate the transceiver outside using a battery pack, it is important to know how long the battery pack will last. The operating times listed in the table below are measured under the following cyclic conditions:

If the battery saver setting is 1.0 sec and the GPS setting is Off in the single band operation, the operating times listed in the table below are the referential values under the following cyclic conditions: TX: 6 seconds, RX: 6 seconds, Stand-by: 48 seconds (unit: hour)

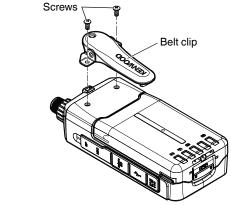
We recommend you carry extra battery packs with you, in case the battery pack becomes depleted.

Battery Type	Output Power	Operating Time/ Hours (Approx.)
	н	6
KNB-75LA	М	8
Li-ion battery pack	L	12
	EL	15

INSTALLING THE BELT CLIP

If desired, you can install the supplied belt clip to the transceiver.

Attach the belt clip firmly using the two supplied M3 x 6 mm binding screws.



Note:

• Be careful not to pinch your fingers into the belt clip.

• Do not use glue which is designed to prevent screw loosening when installing the belt clip, as it may cause damage to the transceiver. Acrylic ester, which is contained in these glues, may crack the transceiver's back panel.

INSTALLING THE HAND STRAP

If desired, you can install the commercially available strap with sufficient strength using the holes of the transceiver.

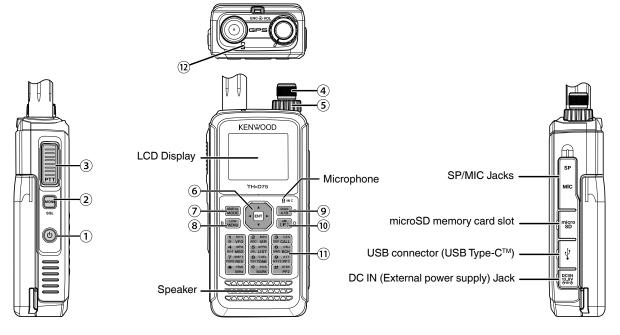


Note:

 If the strap is thick and does not pass through the holes, install the strap using the holes of the supplied belt clip.

GETTING ACQUAINTED

KEY AND CONTROL KNOB OPERATIONS



①[ˈ]

Press [\mathcal{O}] (1s) to turn the transceiver power ON and OFF. Press [\mathcal{O}] to turn the backlight ON and OFF when the transceiver power is ON.

The backlight turns OFF when the backlight timer elapses. When the voice guidance function is not set to OFF, the voice announces the operating states of the transceiver.

When pressing [\mathcal{O}] while announcing, the voice stops.

2[MONI]

Press and hold [MONI] to unmute the speaker in order to monitor signals.

Release [MONI] to return to normal operation.

Press [F], [MONI] to enter the Squelch level adjustment mode.

3[PTT]

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

④[ENC] Control

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

(5) [VOL] Control

Rotate the [VOL] control to adjust the speaker volume.

6 Multi-Scroll Key

[▲], [▼]

Press $[\blacktriangle]$ or $[\blacktriangledown]$ to select an operating frequency, Memory channel, Menu item, setting value or to change the scan direction, etc.

Press and hold $[\blacktriangle]$ or $[\nabla]$ to change an operating frequency, Memory channel, Menu item, setting value, etc. continuously.

[▶]

Press and hold [▶] to select a frequency band in VFO mode.

Press [▶] to move to the next step in various setting modes.

[◀]

Press and hold $[\blacktriangleleft]$ to select a frequency band in VFO mode.

Press [] to move back to the previous step in various setting modes.

[ENT]

Press **[ENT]** to enter frequency direct entry mode in VFO mode.

Press **[ENT]** to complete the setting value and move to the next step in Menu mode or various setting modes.

⑦[MODE]

Press [MODE] to select the mode.

Press [F], [MODE] in DV mode or DR mode to enter Digital Function Menu mode.

This key operates the function displayed in the lower left side. (Refer to page 15.)

⑧[MENU]

Press [MENU] to enter Menu mode.

Press [F], [MENU] to cycle the transmit output power.

9[A/B]

Press [A/B] to select operation band A or B.

Press **[F]**, **[A/B]** to switch the Single band mode and Dual band mode.

This key operates the function displayed in the lower right side. (Refer to page 15.)

()[F]

Press [F] to enter Function select mode.

Press **[F] (1s)** to turn the transceiver Key lock function ON and OFF.

12 Keypad

[VFO] (1)

Press **[VFO]** to enter VFO mode. In Memory channel or CALL channel, press **[F]**, **[VFO]** to copy the current Memory channel or Call channel to the VFO (memory shift).

[MR] (2)

Press [MR] to enter Memory Channel mode.

Press [F], [MR] to move to the Memory channel store screen.

[CALL] (3)

Press [CALL] to select the Call channel.

Press [F], [CALL] to store the current operating frequency to the Call channel.

[MSG] (4)

Press [MSG] to display the APRS Message list.

Press [F], [MSG] to enter the New Message input mode. [LIST] (5)

Press [LIST] to display the APRS Station list.

• Each time you press [F], [LIST], the mode cycles through the following: APRS mode ON → KISS mode ON → OFF.

[BCN] (6)

Press [BCN] to transmit the beacon when APRS mode is ON.

Press [F], [BCN] to transmit the Object.

[REV] (7)

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

Press [F], [REV] to select the Shift direction.

[TONE] (8)

Press [TONE] to turn the Tone function ON.

• Each time you press [TONE], the function cycles through the following: Tone $ON \rightarrow CTCSS ON \rightarrow DCS$ $ON \rightarrow Cross Tone ON \rightarrow OFF.$

Press [F], [TONE] to enter the Tone frequency, CTCSS frequency, DCS code, or Cross Tone setup mode.

Press [F], [TONE] (1s) to start the Tone frequency, CTCSS frequency, or DCS code scan.

[PF1] (9)

Press [PF1] to activate its programmed function.

Press [F], [PF1] to turn the Attenuator function ON or OFF.

[MARK] (0)

Press [MARK] to display the Position memory list.

Press [MARK] (1s) to enter the Mark Way point registration mode.

Press [F], [MARK] display your "My position".

[MHz] (X)

Press [MHz] to enter the MHz mode.

Press [MHz] (1s) to start the MHz scan.

Press [F], [MHz] to enter Fine tuning function mode.

[PF2] (#)

Press [PF2] to activate its programmed function.

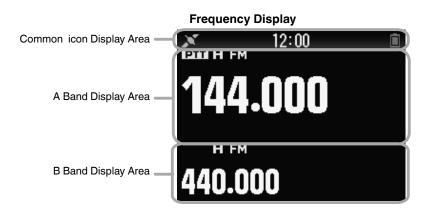
Press [F], [PF2] to enter Frequency step setup mode or Fine step frequency setup mode.

①ON AIR/ Busy Indicator

The indicator lights red in transmitting, and lights green in receiving

The indicator lights blue in transmitting in the reflector terminal mode.

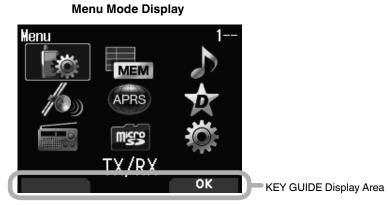
DISPLAY



Various function indicator

Indicator	Description
579	Performs as the S meter when receiving a signal.
	Displays the selected power level while transmitting.
PTT	Indicates the transmission band.
EL	Appears while using Economic low output power.
.	Appears while using Low output power.
M	Appears while using Medium output power.
H	Appears while using High output power.
FM	Appears while in FM mode.
NFM	Appears while in Narrow FM mode.
WFM	Appears while in Wide FM mode.
AM	Appears while in AM mode.
LSB	Appears while in LSB mode.
USB	Appears while in USB mode.
CW	Appears while in CW mode.
DR	Appears while in Digital Repeater mode.
DV	Appears while in Digital Voice mode.
VA	Appears when Voice Alert is set to [On].
VAR	Appears when Voice Alert is set to [RX Only].
Т	Appears when the Tone function is ON.
СТ	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".

Indicator	Description		
T/D	Appears when the Cross tone function is "TONE/DCS".		
D/0	Appears when the Cross tone function is "DCS/ OFF".		
9 1	Appears when the Shift function is set to plus.		
1.000	Appears when the Shift function is set to minus.		
Ξ	Appears when the Shift function is set to -7.6 MHz. (TH-D75E only)		
R	Appears when the Reverse function is ON.		
ATT	Appears when the Attenuator function is ON.		
APRS 12	Appears when the packet communication speed in APRS mode is set to 1200 bps.		
APRS 96	Appears when the packet communication speed in APRS mode is set to 9600 bps.		
KISS 12	Appears when the packet communication speed in KISS mode is set to 1200 bps.		
KISS 96	Appears when the packet communication speed in KISS mode is set to 9600 bps.		
STA	Appears while in Stand-by (Packet mode).		
BCON	Appears when the Beacon function is ON.		
OBJ	Appears when the Object function is ON.		
X	Appears when the built-in GPS function is ON and positioning.		
\mathcal{I}	Appears when the built-in GPS function is ON and not positioning.		
Я	Appears when the GPS Track Log function is ON and the built-in GPS function is positioning.		
۶	Appears when the GPS Track Log function is ON and the built-in GPS function is not positioning or in Save mode.		
ίШ	Appears when a message is received.		
•	Appears when recording communication.		
	Appears when playback of a voice message is paused.		



D-STAR (DV/DR mode) Display



Indicator	Description	
P	Appears when the Priority Scan function is ON.	
m •	Appears when FM radio mode is ON.	
*	The Bluetooth [®] function is ON.	
8	Connected to a Bluetooth® device.	
SD	Appears when a microSD memory card is recognized. Blinks when a microSD memory card is mounting or unmounting.	
Ø	Appears when Weather Alert is ON. Blinks when Weather Alert is detected. (TH-D75A only.)	
ъ	Appears when the key lock is ON.	
	Indicates the battery level.	
<u></u>	Appears during charging of the battery.	
Grp 29	Indicates the memory group number.	
WX	Indicates the Weather Channel. (TH-D75A only.)	
★	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.	
В	TX: Appears in interrupt communication. RX: Blinks while receiving interrupt communication.	
5	Appears when the auto reply function is ON.	

Indicator	Description			
X +	Appears in GPS transmission.			
DATA	Appears while in data communication mode. Blinks while receiving fast data.			
×s	Appears when a packet loss happens.			
	Indicates a repeater for local area call.			
いまで、「「」」	Indicates a repeater for call within zone.			
見る思	Indicates a repeater for gateway call.			
TERM	Appears while in the reflector terminal mode.			

BASIC OPERATIONS

SWITCHING THE POWER ON/ OFF

Switching the Power ON

Press [Ů] (1s).

The power on message momentarily appears, and frequency screen appears.



Switching the Power OFF

Press [**ථ] (1s)**.

ADJUSTING THE INTERNAL CLOCK

When the built-in GPS function is turned ON, the year, month, day, and time are automatically set from the GPS satellite information. The default setting of the built-in GPS function is [On]. If the GPS information cannot be received, you can manually enter the date and time.

1 Access Menu No. 950.

Date & Time screen appears by pressing [MENU], [PF1], [LIST], [MARK].



- 2 Set the date, time, and time zone with [▲]/[▼] or [ENC] control.
- 3 Press [A/B].

The date, time, and time zone are set.

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

ADJUSTING THE VOLUME

Rotate the **[VOL]** control to increase the volume and counterclockwise to decrease the volume.

When no sound is heard (the squelch is closed), you can adjust the noise level by rotating the **[VOL]** control while pressing the **[MONI]**.

• Refer to page 24 for setting the beep that sounds during key operation, etc.

VOLUME BALANCE (BAND A/B)

This function adjusts the volume balance when using the transceiver with dual bands.

- 1 Access Menu No. 910.
 - Volume balance screen appears by pressing [MENU], [PF1], [VF0], [MARK].



- 2 Change the balance with $[\blacktriangle]/[\bigtriangledown]$ or [ENC] control.
 - Band A and B are set to the same volume level (MAX) as a default setting. Pressing [MODE] returns to the previous screen without changing the setting.

When you select [Operation Band Only], the sound of the operation band is outputted with priority.



Setting examples

When used in combination with APRS:

When using band A for voice calls, use the transceiver with the sound of band B set to a low volume level or muted.

When simultaneously scanning two waves:

If [Operation Band Only] is set, a voice is output only for the operation band when the operation and non-operation band become busy at the same time.

- 3 Press [ENT] to set the volume balance.
- 4 Press [MENU] to return to the frequency screen.

SELECTING DUAL BAND MODE/ SINGLE BAND MODE

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

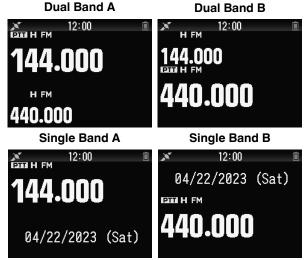
- 1 Press [F], [A/B].
 - Each time you press [F], [A/B], the transceiver switches between Single band and Dual band mode.



SELECTING AN OPERATION BAND

You can select a band A or B as an operation band for changing the frequency or setting various operations, etc.

1 Press [A/B] to select operating band A or B.



SELECTING A FREQUENCY BAND

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

1 Press [◀]/[▶] (1s).

Each time you press [◀]/[▶] (1s), you cycle to the next frequency band.

Band A : 144 ⇔ 220 ⇔ 430 ⇔ 144 (MHz).

Band B : 430 ⇔ UHF(470-524) ⇔ LF/MF(AMBC) ⇔ HF ⇔ 50 ⇔FMBC ⇔ 118 ⇔ 144 ⇔ VHF(174-216) ⇔ 200/300 ⇔ 430 (MHz).

Note:

• 220 MHz band in Band A is used by the TH-D75A only.

Frequency ranges:

- 118 MHz: Band B 108 ~ 136 MHz
- 144 MHz: 136 ~ 174 MHz
- VHF: 174 ~ 216 MHz (TH-D75A) 174 ~ 230 MHz (TH-D75E)
- 220 MHz: 216 ~ 260 MHz (TH-D75A only)
- 200/300 MHz: Band B 216 ~ 410 MHz (TH-D75A)
 230 ~ 410 MHz (TH-D75E)
- 430 MHz: 410 ~ 470 MHz
- UHF: 470 ~ 524 MHz
- LF/MF(AMBC): 0.1 ~ 1.71 MHz
- HF: 1.71 ~ 29.7 MHz
- 50: 29.7 ~ 76 MHz
- FMBC: 76 ~ 108 MHz

SELECTING THE DEMODULATION MODE

You can select the demodulation mode.

- 1 Press [A/B] to select an operation band.
- 2 Press [MODE] to select a demodulation mode.
 - Each press changes the demodulation mode as follows. Band A: FM/NFM → DR (DV) → (Returns to FM/NFM)

Band B: FM/NFM → DR (DV) → AM → LSB → USB → CW → (Returns to FM/NFM)

Note:

- Switching between the DV and DR modes is not possible with the [MODE] button. (Refer to "Digital Function Menu".)
- Switching between the FM and NFM modes is not possible with the [MODE] button. (Refer to page 16.)

SELECTING A FREQUENCY

There are 3 operating modes available to choose from: VFO mode, Memory Channel mode, and Call Channel mode.

VFO Mode

VFO mode allows you to manually change the operating frequency.

- 1 Press [VFO] to enter VFO mode.
- 2 Rotate the **[ENC]** control to select your desired operating frequency.
 - You can also select a frequency by using the [▲]/[▼] keys.
 - The default step frequency for the **[ENC]** control varies according to the model and operating frequency band:

Model	144 MHz	220 MHz	430 MHz
TH-D75A	5 kHz	20 kHz	25 kHz
TH-D75E	12.5 kHz	-	25 kHz

Note:

220 MHz band is used by the TH-D75A only.

MHz Step

To adjust the frequency by a larger amount, press [MHz] to enter MHz mode, then rotate the [ENC] control or use the $[\blacktriangle]/[\nabla]$ keys to adjust the frequency in steps of 1 MHz. Press [MHz] again to exit MHz mode and adjust the frequency using the normal step frequency.

Frequency Direct Entry

If the desired operating frequency is far from the current frequency, using the keypad is the quickest way to change the frequency.

- 1 Press [ENT].
 - The Direct Frequency Entry display appears.
- 2 Press the numeric keys ([0] ~ [9]) to enter your desired frequency.
- 3 To set the entered frequency, press 6 digit.
 - Pressing [ENT] before entering all of the digits will set the remaining digits to 0.

Memory Channel Mode

Memory Channel mode allows you to quickly select a frequently used frequency and related data which you have stored in the memory channel.

- 1 Press [MR] to enter Memory Channel mode. The Memory channel number appears on the display.
- 2 Rotate the [ENC] control to select your desired Memory channel.

Call Channel Mode

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

- 1 Press [CALL] to enter Call Channel mode. "C" appears on the display.
- 2 Press [CALL] again, and the transceiver will return to the previous frequency.
 - The default settings are as follows.

TH-D75A

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)

TH-D75E

Band	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)

ADJUSTING THE SQUELCH

Squelch is used to mute the speaker when no signals are present. With the squelch level set correctly, you will hear sound only while actually receiving a signal. The higher the squelch level selected, the stronger the signals must be in order to hear them. You can set the squelch level separately for Bands A and B.

1 Press [F], [MONI].

The squelch level appears on the display.

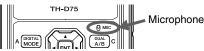


- 2 Press [▲]/[▼] or rotate the [ENC] control of your selected band, when no signals are present, and select the squelch level at which the background noise is just eliminated.
- 3 Press [ENT].

The squelch level is set.

TRANSMITTING

- 1 Select your desired band and frequency/channel.
- 2 Press and hold [PTT], and speak into the microphone to transmit.



3 When you finish speaking, release the [PTT].

Selecting an Output Power

Selecting a lower transmit power is the best way to reduce battery consumption, if communication is still reliable. Press **[F]**, **[MENU]** to select high (H), medium (M), low (L), or economic low (EL) power.

Battery Pack KNB-75LA	Н	Approx. 5 W
	М	Approx. 2 W
	L	Approx. 0.5 W
	EL	Approx. 0.05 W

Note:

- You can program different power settings for bands A and B.
- You can not change the output power in transmitting.
- You can not set the output power in each frequency band.
- Refer to the details instruction manual (User Manual) when using with an external power supply or Alkaline batteries.

MONITOR

When you are receiving while the squelch function is ON, weak signals may become intermittent.

- 1 Press and hold [MONI].
 - The speaker is unmuted and you can monitor the signals.
- 2 Release [MONI] to return to normal operation.

FUNCTION SELECT MODE

Press **[F]** to enter Function Select mode. Press **[F]** again to return to the previous screen.

OMy Position
1M>V
2Memory In
3CALL In

Pressing each key in the Function Select Mode performs the operation of the second function assigned to each key. The function of each key may differ depending on the mode when **[F]** is pressed (refer to the following table).

Кеу	Second function	Remarks
[MARK] (0)	My position	Built-in GPS is On.
[VFO] (1)	Memory shift	Only in Memory mode or Call mode
[MR] (2)	Memory channel registration	
[CALL] (3)	Call channel registration	
[MSG] (4)	APRS message creation	
[LIST] (5)	APRS/ KISS mode switching	
[BCN] (6)	Object packet	Only in APRS mode
[REV] (7)	Shift	
[TONE] (8)	Tone frequency	
[PF1] (9)	Attenuator	
[MHz] (*)	Fine mode	
[PF2] (#)	Frequency Step	
[MODE]	Digital function menu	Only in DV/DR mode
[MENU]	Transmission power	
[A/B]	Dual or Single band switching	
[F]	Function select mode end	
[MONI]	Squelch setting	

Note:

The tone frequency changes to the following setting items depending on the conditions of this transceiver.
 Tone OFF: Invalid
 Tone ON: Tone frequency
 CTCSS ON: CTCSS frequency
 DCS ON: DCS frequency
 Cross Tone ON: Cross tone combination

MENU MODE

Many functions on this transceiver are selected or configured through the Menu instead of physical controls.

MENU ACCESS

Example: Setting the time for [Battery Saver] of Menu No. 920.

1 Press [MENU].

The transceiver enters the Menu mode. The icon currently selected by the cursor is highlighted, and the item name is displayed at the bottom of the screen. (Example: TX/RX)



Directly Entering a Menu Number (Direct Access)

You can also directly enter a Menu number using the number keys from this screen.

Press **[PF1]**, **[MR]**, **[MARK]** for Menu No.920. In this case, you can move to step 4.

2 Select [Configuration] with [▲]/[▼] or [ENC] control and press [A/B].



3 Select [Battery] with [▲]/[▼] or [ENC] control and press [A/B].



4 Select [Battery Saver] with [▲]/[▼] or [ENC] control and press [A/B].

Batte	ry Saver	
0.8	sec	
1.0	sec	
2.0	sec	
3.0	sec	
4.0	sec	
5.0	sec	
Bar	ek 🛛	OK

- 5 Select a setting value with [▲]/[▼] or [ENC] control and press [A/B] to set the value.
- 6 Press [MENU].

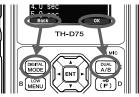
The Menu mode ends and the frequency screen appears. For subsequent Menu operations, steps 1 to 4 will be referred to as "Access Menu No. XXX".

Note:

- Pressing [PTT] during each operation ends Menu mode without confirming the setting.
- Pressing [MODE] during each operation returns to the previous screen. Also, pressing [MODE] during step 4 discards the new setting value and returns to the previous operation.
- Pressing [MENU] in scanning cancels scan.

Software Key Operation

Software keys (**[Back**], **[OK]**, etc.) are displayed in the key guide area of various setting screens and other screens. To select or operate the displayed functions, press the corresponding keys.



Example:

[Back] → Press [MODE]: Returns to the previous screen without confirming the displayed setting.

 $[OK] \rightarrow$ Press [A/B]: Changes to the next screen.

CHARACTER ENTRY

In the screens that require you to enter text such as the screen for entering a memory name or power-on message, there are two methods to enter text. One is to enter text using the number keys in the same ways as a mobile phone and the other is to enter text by selecting characters one by one with the Multi-Scroll Key or **[ENC]** control.

Keypad Character Entry

- 1 Enter text with [0] to [9] and [ENT].
 - The each press of a key changes the character that can be entered.
 - To enter another character assigned to the same key, move the cursor to the next position with [▶] ([◀] moves the cursor to the previous position) and enter the next character.
 - Pressing **[A/B]** deletes a character. The character at the cursor position is deleted. The backspace operation is performed when there is a blank space.
 - Pressing [◀]/[▶] moves the cursor.

Example: Entering the power-on message (Menu No.903)



- Pressing [MODE] changes the character input mode.
- Pressing [A/B] clears the text.

2 Press [>].

The cursor moves to the right. If 16 characters are entered, this operation confirms the characters and ends text input.

3 Press [ENT].

The text is confirmed and text input ends.

Entering Text with the Multi Scroll Key or [ENC]

- 1 Display the character with $[\blacktriangle]/[\nabla]$ or [ENC] control.
- 2 Press [▶].

The character or symbol is entered and the cursor moves to the right.

Pressing **[A/B]** deletes the character selected by the cursor. If it is pressed when there is no character selected by the cursor, the cursor moves to the left.

Auto 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 this time until the cursor is moved to the desired time.

1 Access Menu No. 945.

Select [Off], [1.0], [1.5], or [2.0] seconds.

2 Press [ENT].

MENU CONFIGURATION

No.	Display	Description	Setting Values
TX/RX - F	AX	· · ·	
100	Programmable VFO	Programmable VFO setting (Band A only)	Varies with the selected frequency band
101	Beat Shift	Beat shift	Type 1 - Type 8
102	USB Out Select	USB output select	AF/ IF/ Detect
103	FM Narrow	FM narrow	Off/ On
104	MW/ SW Antenna	MW/ SW antenna	ATT connector / Bar Antenna
105	WX Alert	Weather alert	Off/ On (TH-D75A only)
TX/RX - 1	ΓX		· · · · · · · · · · · · · · · · · · ·
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	Low/ Medium/ High
TX/RX - F	RX Filter		,
120	SSB High Cut	SSB high cut frequency	2.2/ 2.4 / 2.6/ 2.8/ 3.0 [kHz]
121	CW Width	CW bandwidth	0.3/ 0.5/ 1.0 / 1.5/ 2.0 [kHz]
122	AM High Cut	AM high cut frequency	3.0/ 4.5/ 6.0 / 7.5 [kHz]
TX/RX - S	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	Auto Weather Scan	Auto weather channel scan	Off/ On (TH-D75A only)
TX/RX - F	Repeater		
140	Offset Frequency	Offset frequency	Varies with the selected frequency band
141	Auto Offset	Auto repeater offset	Off/ On
142	CALL Key	CALL key function	CALL (TH-D75A)/ 1750Hz (TH-D75E)
143	1750Hz TX Hold	1750 Hz TX hold	Off/ On
TX/RX - \			
150	VOX	VOX on/ off	Off/ On
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 on busy	Off/ On
TX/RX - D			
160	Encode Speed	Encode speed	50/ 100 / 150 [ms]
161	Pause Time	Pause time	100/ 250/ 500 / 750/ 1000/ 1500/ 2000 [ms]
162	TX Hold	TX hold	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 - C	CW		
170	Pitch Frequency	Pitch frequency	400 - 800 - 1000 [Hz]
171	Reverse	Reverse	Normal/ Reverse

No.	Display	Description	Setting Values
TX/RX -		Beschption	
180	QSO Log	QSO log	Off/ On
100			BX: Check
181	LED Control	LED control	FM Radio: Uncheck
Memory	- Memory Channel	· · ·	
200	View List	Memory channel list	-
201	Group Name	Memory group name input	Up to 16 characters
202	Recall Method	Memory channel recall method	All Bands/ Current Band
203	Group Link	Memory group link registration	Register up to 30 memory group links
204	CALL Ch List	CALL channel list	-
Memory	- Repeater List		
210	View List	Repeater list	-
-	- Callsign List		
220	View List	Callsign list	-
-	- Hotspot List	Oansign list	
230	View List	Hotspot list	-
	ile - Recording File	Hotspot list	-
	View List	Popording file list	
300		Recording file list	
301	Recording	Recording	Stop/ Start
302	Recording Band	Recording band	A Band/ B Band
	ile - Voice Message		
310	View List	Voice message list	-
311	TX Monitor	TX monitor	Off / On
312	Digital Auto Reply	Digital auto reply	Off/ Voice Message 1 - Voice Message 4
GPS - Ba	asic Settings		
400	Built-in GPS	Built-in GPS	Off/ On
401	My Position	My position	My Position 1 - 5/ GPS
402	Position Ambiguity	Position ambiguity mode	Off/ 1-Digit - 4-Digit
403	Operating Mode	Built-in GPS operating mode	Normal/ GPS Receiver
404	Battery Saver	Battery saver time	Off/ 1min/ 2min/ 4min/ 8min/ Auto
405	PC Output	GPS data output to PC	Off/ On
406	Sentence	Sentence	\$GPGGA / \$GPGLL/ \$GPGSA / \$GPGSV/ \$GPRMC / \$GPVTG
GPS - Tr	ack Log	· · ·	
410	Track Log	Track log recording	Off/ On
411	Clear Track Log	Clear track log	-
412	Record Method	Record method	Time/ Distance/ Beacon
413	Interval	Interval time	2 - 10 - 1800 [sec]
414	Distance	Distance	0.01 - 9.99 [km]
	Basic Settings		
500	My Callsign	Callsign entry	Up to 9 characters
500	Icon		Person/ Bicycle/ Motorcycle, 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 Up to 42 characters
504	Packet Path	Packet path type	Type: New-N / Relay/ Region/ Others1-Others3, WIDE1-1: Off/On, RELAY: Off/On, ABBR: Up to 5 characters, Total Hops: 0 - 1 - 7, Path: Up to 79 characters
505	Data Speed	Data communications speed	1200bps/ 9600bps
506	Data Band	Internal data band type	A Band/ B Band
507	DCD Sense	DCD sense type	Busy/ Detect Data/ Off (Ignore)
508	TX Delay	TX delay time	100/ 150/ 200 / 300/ 400/ 500/ 750/ 1000 [ms]
	APRS Lock	APRS lock	Frequency/ PTT/ APRS Key: All unchecked

MENU MODE

No.	Display	Description	Setting Values
-	Beacon TX Control	Description	Setting values
510	Method	Method	Manual/ PTT/ Auto/ SmartBeaconing
510	Initial Interval	Initial Interval timer	0.2/ 0.5/ 1/ 2/ 3/ 5/ 10/ 20/ 30/ 60 [min]
512	Decay Algorithm	Decay algorithm	Off/ On
512	, ,	, , ,	Off/ On
	Prop. Pathing	Prop. pathing	
514	Speed	Speed	Off/On
515	Altitude	Altitude	Off/On
516	Object	Object/ Item settings	Name: up to 9 characters, Type: Live Object / Killed Object/ Live Item/ Killed Item, Method: Off/ Temp. / Auto(15 min)/ Auto(30 min)/ Auto(60 min), N(S): Latitude, E(W): Longitude, Icon (Total 68 kinds): Eyeball / Portable (Tent)/ HAM Store, etc., Comment: up to 42 characters
APRS - C	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 limit distance	Off/ 10/ 20 2490/ 2500
APRS - S	SmartBeaconing		
530	Low/High Speed	Low speed/ High speed setting	Low Speed: 2 - 5 - 30 [km/h] High Speed: 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	Driving direction change, minimum value setting	5 deg - 28 deg - 90 deg
534	Turn Slope	Driving direction change, additional value setting	1 (10deg/speed) - 26 (10deg/speed) - 255 (10deg/speed)
535	Turn Time	Minimum time delay between each beacon transmission	5 - 60 - 180 [sec]
APRS - V	Vaypoint		
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 - P	Packet Filter		
550	Position Limit	Position limit	Off/ 10/ 20 2490/ 2500
551	Filter Type	Filter type	Weather/ Digipeater/ Mobile/ Object/ NAVITRA/ 1-WAY/ Others
APRS - N	lessage		
560	User Phrases	User phrases	Up to 32 characters x 8 phrases
561	Auto Reply	Auto message reply	Off/ On
562	Reply To	Reply to	Up to 9 characters
563	Reply Delay Time	Reply delay time	0/ 10/ 20/ 30/ 60 [sec]
564	Reply Message Text	Reply message text input	Up to 50 characters
APRS - N	Notification		
570	RX Beep	RX beep	Off/ Message Only/ Mine/ All New/ All
571	ТХ Веер	TX beep	Off/ On
572	Special Call	Special call	Up to 9 characters
573	Display Area	Display area	Entire Always/ Entire Display/ One Line
574	Interrupt Time	Interrupt time	3/ 5/ 10/ 20/ 30/ 60/ infinite [sec]
575	APRS Voice	APRS voice	Off/ On
APRS - D			1
580	Digipeat(MyCall)	Digipeat function	Off/ On
581	Ulcheck	UI check time	1 - 28 - 250 [sec]
582	Uldigipeat	Uidigipeat	Off/ On
582	Uldigi Aliases	Uldigi aliases text string	Up to 9 characters x 4
583	Ulflood	Ulflood	Off/On
585	Ulflood Alias	Ulflood alias text string	Up to 5 characters
586	UlfloodSubstitution	Ulflood substitution	First/ Id/ Noid
587	Ultrace	Ultrace	Off/On
588	Ultrace Alias	Ultrace alias text string	Up to 5 characters

No.	Display	Description	Setting Values				
APRS - O							
590	PC Output	PC output type	Off/ Raw Packets/ Waypoints				
591	Network	Network type	APRS[APK005]/ Altnet				
592	Voice Alert	Voice alert type	Off/ On/ RX Only				
593	VA Frequency	VA frequency type	67.0 - 100.0 - 254.1 Hz				
595 594	Message Group Code	Message group code	Up to 9 characters x 6 codes (ALL,QST,CQ,KWD)				
594 595	Bulletin Group Code		Up to 5 characters x 6 codes				
	RX History	Bulletin group code	Op to 5 characters x 6 codes				
		View biston					
600	View History	View history	-				
Digital - T							
610	My Callsign	Callsign entry	Up to 8 characters + up to 4 characters				
611	TX Message	TX message	Off/ 1/ 2/ 3/ 4/ 5				
612	Direct Reply	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	1 - 25 - 50				
616	RX AFC	RX AFC	Off/ On				
617	FM Auto Det. on DV	FM auto detector on DV	Off/ On				
618	Data Frame Output	Data frame output	All/ Related to DSQL/ DATA Mode				
619	Break Call	Break Call	Off/ On				
Digital - D	Digital Squelch						
620	Select Type	Select type	Off/Code Squelch/ Callsign Squelch				
621	Digital Code	Digital code	00 - 99				
-	GPS Data TX	, -					
630	GPS Info. in Frame	GPS Information in frame	Off/ On				
			\$GPGGA/ \$GPGLL/ \$GPGSA/ \$GPGSV/ \$GPRMC/				
631	Sentence	Sentence	\$GPVTG/ APRS Sentence				
632	Auto TX	Auto TX	Off/ 0.2/ 0.5/ 1/ 2/ 3/ 5/ 10/ 20/ 30/ 60 [min]				
Digital - F	RX Notification						
640	Display Method	Display method	Off/ AII/ Related to DQSL/ My Station Only				
641	Single Display Size	Single display size	Half Display/ Entire Display				
642	Dual Display Size	Dual display size	Half Display/ Entire Display				
643	Display Hold Time	Display hold time	0 / 3/ 5/ 10 / 20/ 30 / 60/ Infinite [sec]				
644	Callsign Announce		Off/ Kerchunk/ Except Kerchunk/ My Station Only/ All				
	•	Callsign announce					
645	Standby Beep	Standby beep	Off/ On				
	DV Gateway						
650	DV Gateway Mode	Terminal mode (reflector) operation	Off/ Reflector TERM Mode				
651	My Callsign	My callsign	Up to 8 character callsign + 6 patterns of up to 4 character identification code				
652	RPT1	RPT1 (access repeater callsign)	Up to 8 characters				
652	RPT2	RPT2 (connection repeater callsign)	Up to 8 characters				
		· · · · · · · · · · · · · · · · · · ·					
654	Device Information	Device name	Up to 16 characters				
	dcasting - Basic Settings	EM radio mode	0 #/ 0m				
700	FM Radio Mode	FM radio mode	Off/On				
701	Auto Mute RET. Time	Auto mute return time	1 - 3 - 10 [sec]				
	dcasting - Memory						
710	FM Radio List	FM radio list	-				
SD Card	-						
800	Config Data	Config data	-				
801	Config Data + V.Msg	Config data and voice message	-				
802	Repeater List Only	Repeater list only	-				
803	Callsign List Only	Callsign list only	-				
SD Card	- Import						
810	Config Data	Config data	-				
811	Config Data + V.Msg	Config data and voice message	-				
812	Repeater List Only	Repeater list only	-				
813		Callsian list only	SD Card - Unmount				
813 SD Card	Callsign List Only	Callsign list only	-				
SD Card	Callsign List Only - Unmount						
SD Card 820	Callsign List Only - Unmount Execute	Callsign list only	-				
SD Card	Callsign List Only - Unmount Execute		- -				

No.	Display	Description	Setting Values
	- Memory Size		
840	View	Free capacity	-
Configur	ation - Display		
900	Backlight Control	Backlight control	Auto/ Auto (DC-IN)/ Manual/ On
901	Backlight Timer	Backlight timer	3 - 10 - 60 [sec]
902	LCD Brightness	LCD brightness	High/ Medium/ Low
903	Power-on Message	Power-on message input	Up to 16 characters
904	Single Band Display	Single band display type	Off/ GPS(Altitude) / GPS(GS)/ Date/ Demodulation Mode
905	Meter Type	Meter type	Type 1/Type 2/Type 3
906	Background Color	Background color select	Black/White
907	Info. Backlight	Information backlight	Off/ LCD/ LCD+Key
	ration - Audio	Information backlight	OII/ LOD/ LOD+Rey
Connigur			A.100/ D.0 A.100/ D.25 A.100/ D.50 A.100/ D.75 A.100/
910	Balance	Audio balance	A:100/ B:0, A:100/ B:25, A:100/ B:50, A:100/ B:75, A:100/ B:100 , A:75/ B:100, A:50/ B:100, A:25/ B:100, A:0/B:100, Operation Band Only
911	TX/RX EQ	TX/RX EQ	RX EQ/TX EQ(FM, NFM)/TX EQ(DV)
912	TX EQ Level	TX EQ level	-9 - 0 - +3 [dB]
913	RX EQ Level	RX EQ level	-9 - 0 - +9 [dB]
914	Веер	Веер	Off/ On
915	Beep Volume	Beep volume	Volume Link/ Level 1 - Level 7
916	Voice Guidance	Voice guidance	Off/ Manual/ Auto1/ Auto2
917	Voice Guidance Vol.	Voice guidance volume	Volume Link/ Level 1 - Level 7
918	VoiceGuidanceSpeed	Voice guidance speed	Speed 1 - Speed 4
919	Callsign Readout	Callsign readout	Standard/ Phonetics
91A	USB Audio Out. Lvl.	USB audio output level	Level 1 - Level 5 - Level 7
• • • •	ration - Battery		
920	Battery Saver	Battery saver	Off/ 0.2/ 0.4/ 0.6/ 0.8/ 1.0/ 2.0/ 3.0/ 4.0/ 5.0 [sec]
921	APO: Auto Power Off	APO: Auto power off	Off/ 15/ 30 / 60 [min]
922	Battery Level	Battery level	
923	Charging	Charges even when the power is on.	Off / On
	ration - Bluetooth	Charges even when the power is on.	
930	Bluetooth	Bluetooth	Off / On
	Connect	Connect	
931	Device Search		-
932		Device search	-
933	Disconnect	Disconnect	-
934	Pairing Mode	Pairing mode	-
935	Device Information	Device information	Up to 19 characters
936	Auto Connect	Auto connect	Off / On
Configur	ation - Auxiliary		
940	PF1 Key	PF1 Key	Recording - Voice Message 1-4 - Voice Guidance - Battery Level - VOX - Group Name - Balance (PF1) - GPS (PF2) - Track LOG - SQL - SHIFT - STEP - LOW - Key Lock - Lockout - M>V - T. SEL - NEW - Voice Alert - LCD
941	PF2 Key	PF2 Key	Brightness - DTMF CH0 - EchoLink CH0 - 1750Hz Tone - M. IN
942	PF1 (Mic)	PF1 (Mic)	Recording - Voice Message 1-4 - Voice Guidance - Battery Level - VOX - Group Name - Balance - GPS - Track LOG - SQL - SHIFT - STEP - LOW - Key Lock - Lockout - M>V - T.
943	PF2 (Mic)	PF2 (Mic)	SEL - NEW - Voice Alert - LCD Brightness - DTMF CH0 - EchoLink CH0 - 1750Hz Tone - Screen Capture - MODE - MENU - A/B (PF1 Mic) - VFO (PF2 Mic) - MR (PF3 Mic) - CALL- MSG - LIST - BCON - REV - TONE - MHz - MARK
			- DUAL - APRS - OBJ - ATT - FINE - POS - BAND - MONI
944	PF3 (Mic)	PF3 (Mic)	- UP - DOWN
944 945	PF3 (Mic) Cursor Shift	PF3 (Mic) Cursor shift	
			- UP - DOWN
945 946	Cursor Shift	Cursor shift	- UP - DOWN Off/ 1.0/ 1.5/ 2.0 [sec]
945 946	Cursor Shift Secret Access Code	Cursor shift	- UP - DOWN Off/ 1.0/ 1.5/ 2.0 [sec]
945 946 Configur 950	Cursor Shift Secret Access Code ation - Date & Time	Cursor shift Secret access code input	- UP - DOWN Off/ 1.0/ 1.5/ 2.0 [sec]
945 946 Configur 950	Cursor Shift Secret Access Code ration - Date & Time Setting	Cursor shift Secret access code input	- UP - DOWN Off/ 1.0/ 1.5/ 2.0 [sec]
945 946 Configur 950 Configur	Cursor Shift Secret Access Code ration - Date & Time Setting ration - Lock	Cursor shift Secret access code input Date and time setting	- UP - DOWN Off/ 1.0/ 1.5/ 2.0 [sec] 000 - 999 (TH-D75A only) -
945 946 Configur 950 Configur 960	Cursor Shift Secret Access Code ation - Date & Time Setting ation - Lock Keys Lock Type	Cursor shift Secret access code input Date and time setting Keys lock type	- UP - DOWN Off/ 1.0/ 1.5/ 2.0 [sec] 000 - 999 (TH-D75A only) - Key Lock/ Frequency Lock

No.	Display	Description	Setting Values
Configu	ration - Units		
970	Speed, Distance	Speed/ Distance	mi/h, mile (TH-D75A)/ km/h, km (TH-D75E)/ knots, nm
971	Altitude, Rain	Altitude/ Rain	feet, inch (TH-D75A)/ m, mm (TH-D75E)
972	Temperature	Temperature	° F (TH-D75A)/ ° C (TH-D75E)
973	Latitude, Longitude	Latitude/ Longitude	dd°mm.mm'/ dd°mm'ss.s"
974	Grid Square Format	Grid square format	Maidenhead Grid/ SAR Grid (CONV)/ SAR Grid (CELL)
Configu	ration - Interface		
980	USB Function	USB function	COM+AF/IF Output/ Mass Storage
981	PC Output(GPS)	PC output (GPS)	USB/ Bluetooth
982	PC Output(APRS)	PC output (APRS)	USB/ Bluetooth
983	KISS	PC input/ output (KISS)	USB/ Bluetooth
984	DV/DR	PC input/ output (DV/DR)	USB/ Bluetooth
985	DV Gateway	PC input/ output (DV Gateway)	USB/ Bluetooth
Configu	ration - System		
990	Language	Language	English/ Japanese
991	Version	Firmware version	-
999	Reset	Reset	VFO Reset/ Partial Reset/ Full Reset

Note:

Menu descriptions and setting values are subject to change without prior notice.
Bold character in setting values indicates a default setting.

MEMORY CHANNELS

MEMORY CHANNEL LIST

The memory channel configurations can be displayed on the Memory Channel List screen. In the Memory Channel List screen, you can select a channel to store or to recall. You can assign a name to a Memory Channel.

1 Press [MR] to switch to the memory mode.

2 Press [ENT].

Memory channel list appears. You can also access to the memory channel list by Menu No. 200.



Display	Туре
[0] to [999]	Memory channels
[L 0], [U 0] to [L49], [U49]	Program scan memory
[Pri]	Priority scan memory
[A 1] to [A10]	Weather channels (TH-D75A only)
[C]	CALL channels

3 Select the channel.

You can select the channel by inputting the channel number from 0 to 999 by 12 keypad. When you select 1 or 2 digits channel, you can also select by inputting the channel number and pressing [ENT].

4 Press [ENT].

The selected channel is set and return to the frequency display.

Storing Simplex and Standard Repeater Frequencies

- 1 Select the frequency, mode, etc.
- 2 Press [F], [MR].
 - The screen for selecting the channel to store appears.
- 3 Select the memory channel number.
- 4 Press [ENT].

The simplex channel is registered.

Store In The Memory 5:	rCh <u>6</u>	Memory Channel List 5:	6
6:		6:447.320	FM
7:		7:	
8:		8:	
9:		9:	
10:		10:	
Back	Split	Edit	Display

Storing Odd-Split Repeater Frequencies

When you change the RX and TX frequencies, register the RX frequency first and then register the TX frequency. Only the TX frequency cannot be registered.

1 Register the RX frequency.

A split channel can be registered only to an already registered memory channel.

- 2 Display the TX frequency.
- 3 Press [F], [MR].

The screen for selecting the channel to store appears.

Select the memory channel number using $[\blacktriangle]/[\nabla]$ or 4 [ENC] control.

Store In The Memory	Ch 0
Store In The Memory 0:144.390	FM
1:	
2:145.170	FM
3:440.575	FM
4:446.100	DV
5:	
Back	Split

5 Press [A/B].

The split channel is registered.

Note:

- You cannot set the TX and RX frequencies on different frequency bands.
- You cannot set the different frequency step size for the TX and RX frequencies.

Clearing a Memory Channel

You can clear the specified channel of the registered memory channels.

- 1 Press [MR] to enter the memory mode.
- 2 Press [ENT].

The memory channel list appears. You can also access to the memory channel list by Menu No. 200.

- 3 Select the specified channel and press [MENU]. The memory channel list menu appears.
- 4 Select [Clear Memory] and press [A/B].
- Clear memory channel screen appears. Press [MODE] to return to the memory channel list menu.



5 Press [A/B].

The specified memory channel is cleared.

To clear another memory channel, repeat the procedure from step 3.

Memory Recall Method

This menu provides you with the option to recall memory channels with stored frequencies in your current frequency band, or all memory channels:

1 Access Menu No. 202.

[All Bands]:

This allows you to recall all programmed memory channels. [Current Band]:

This allows you to recall only those memory channels that have stored frequencies within the current frequency band.



Scan is a useful feature for hands-off monitoring of your favorite frequencies. Becoming comfortable with all types of Scan will increase your operating efficiency.

SELECTING A SCAN RESUME METHOD

The transceiver stops scanning at a frequency or Memory channel on which a signal is detected. It then continues scanning according to which resume mode you have selected. You can choose one of the following modes.

Time-Operated mode

The transceiver remains on a busy frequency or Memory channel for approximately 5 seconds, and then continues to scan even if the signal is still present.

Carrier-Operated mode

The transceiver remains on a busy frequency or Memory channel until the signal drops out. There is a 2 second delay between signal drop-out and scan resumption.

Seek mode

The transceiver remains on a busy frequency or Memory channel even after the signal drops out and does not automatically resume scanning.

1 Access Menu No. 130.

Note:

• In digital (DV/DR mode), access Menu No. 131.



2 Set the Scan Resume mode to [Time] (Time-Operated), [Carrier] (Carrier-Operated) or [Seek] (Seek).

Time-Operate Resume Time

Set the hold time for the Time-Operate scan method.

When a signal is received, scan will pause at that frequency for the duration of the hold time you set. When the set time elapses, scan will resume (even if the signal is still being received).

1 Access Menu No. 132.



2 Set the resume time to $[1] \sim [10]$ sec.

Carrier-Operated Resume Time

Set the hold time for the Carrier-Operate scan method. When a signal is received, scan will pause at that frequency. When the signal stops, scan will resume after the duration of the hold time you set.

1 Access Menu No. 133.



2 Set the resume time to $[1] \sim [10]$ sec.

BAND SCAN

Band scan monitors all frequency range that is stored in Menu No. 100 (Programmable VFO), using the current frequency step size.

- 1 Select your desired operation band and frequency.
- 2 Press [VFO] (1s).

Band scan appears and scan starts at the current frequency.



- The 1 MHz decimal point blinks while scanning is in progress.
- 3 To quit band scan, press [VFO].

MEMORY SCAN

Use memory scan to monitor all Memory channels programmed with frequency data.

1 Press [MR] (1s).

Scan starts at the current memory channel.



2 To quit memory scan, press [MR].

Note:

 At least 2 Memory channels must contain data and must not be locked out of scan.

OTHER OPERATIONS

TX INHIBIT

You can inhibit the transmission to prevent unauthorized individuals from transmitting, or to eliminate accidental transmissions while carrying the transceiver.

1 Access Menu 110.



2 Set the TX inhibit to [On] or [Off].

LED CONTROL

This function turns off the BUSY LED to reduce the consumption of battery power. With the default setting, the BUSY LED is always on when receiving FM radio broadcasts.

1 Access Menu No. 181.



2 Press [ENT].

Each press adds or removes a check mark.

RX

Great (Check): The LED is on when receiving in bands A and B (including when receiving an FM radio broadcast).

(Uncheck): The LED is not on when receiving in normal operation mode (including when receiving an FM radio broadcast).

FM Radio

 $\ensuremath{\boxtimes}$ (Check): The LED is on when receiving an FM radio broadcast in FM radio mode.

(Uncheck): The LED is not on when receiving an FM radio broadcast in FM radio mode.

3 Press [A/B].

The change of a check mark is confirmed.

METER TYPE

This function changes the design of the S/RF meter.

1 Access Menu No. 905.

Meter Typ	e			
Type 1		5	7	8
Type 2				
Type 3				
D I:				
Back			— OK	

2 Set [Type 1], [Type 2], or [Type 3].

KEY BEEP

You can turn the transceiver beep function [On] or [Off].

1 Access Menu No.914.



2 Set the beep function to [On] or [Off].

Note:

- Even with the beep function turned off, the transceiver will beep 1 minute before the power turns off when Auto Power off is activated.
- ◆ After transmitting for the maximum time duration according to the Time-out Timer, the transceiver will beep.

BEEP VOLUME

You can set the beep volume.

The volume level can be changed by VOL Link (Linked with **[VOL]** control.), and set by a value among "Level 1" to "Level 7". A larger value results in a greater volume.

1 Access Menu No. 915.

Beep Volume	
VOL Link	-
Level 1	
Level 2	
Level 3	
Level 4	
Level 5	
Back	ок

2 Select [VOL Link] or [Level 1] - [Level 7].

BATTERY SAVER

The Battery Saver extends the operating time of the transceiver. It automatically activates when the squelch is closed and no key is pressed for more than 5 seconds. To reduce battery consumption, this function shuts the receiver circuit OFF for the programmed time, then momentarily turn it back ON to detect a signal.

To program the receiver shut-off period for the battery saver:

1 Access Menu No. 920.

Battery Saver	
Off	
0.2 sec	
0.4 sec	
0.6 sec	
0.8 sec	
1.0 sec	
Back	ок

2 Set the receiver shut-off period time to [0.2], [0.4], [0.6], [0.8], [1.0], [2.0], [3.0], [4.0], [5.0] seconds, or [Off].

CHARGING

You can set whether to charge the battery pack when a DC IN cable or USB cable is connected while the power is ON.

1 Access Menu No. 923.



2 Select [On] or [Off].

[Off]:

Does not charge when the power is ON. [On]:

Charges even when the power is ON.

Note:

 When the power is off, the battery will be charged regardless of the settings.

TRANSCEIVER RESET

There are 3 types of transceiver reset available:

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.

Full Reset

Use to initialize all transceiver settings that you have customized. (Date and time are not reset.)

There are 2 ways to perform a reset on the transceiver: by key operation and by accessing Menu mode.

Key Operation

- 1 Turn the transceiver power OFF.
- 2 Press [F] + Power ON until reset screen appears.



- 3 Select your desired reset type: [VFO Reset], [Partial Reset], or [Full Reset].
- 4 Press [A/B] to set the reset type.
- A confirmation message appears on the display.
- 5 Press [A/B] again to perform the reset.

Menu Mode

- 1 Access Menu No. 999.
- 2 Select your desired reset type: [VFO Reset], [Partial Reset], or [Full Reset].

Note:

Press [PF2] + Power ON to set the voice guidance to Auto1 after Full Reset.