

Safety Precautions (Be Sure to Read)



Do not perform transmission in a crowded place for the safety of persons using a medical device such as a cardiac pacemaker.

The radio wave emitted from this product can cause the medical device to malfunction and result in an accident.



Do not touch any material leaking from the battery pack with bare hands.

The chemical that has stuck to your skin or entered your eye can cause chemical burns. In such a case, consult the doctor immediately.



Do not solder or short-circuit the terminal of the battery pack.

A fire, leak, overheating, explosion, or ignition can result.

Do not carry the battery pack together with a necklace, hair pin, or small metal objects. A short circuit can result.



If it starts thundering when the external antenna is used, immediately turn off this product and disconnect the external antenna from it.

A fire, electrical shock, or damage may result.



WARNING



Do not power this transceiver with a voltage other than the specified power supply voltage.

A fire, electric shock, or damage may result.



Do not use the battery pack for any model other than the specified transceiver.

A fire, leak, overheating, explosion, or ignition can result.



This product has a waterproof structure and conforms to "IPX5" when the included antenna and battery pack are installed and rubber caps are securely attached to the MIC/SP jack, EXTDC IN jack, DATA terminal, and micro SD slot. If this transceiver gets wet, wipe it with a dry cloth, etc. do not leave it exposed to the moisture.

Leaving this product in a wet condition can degrade its performance, shorten its life, or cause a failure or electrical shock.



Do not make very long transmissions.

The main body of the transceiver may overheat, resulting in a failure or burns.



Do not disassemble or make any alteration to this product.

An injury, electric shock, or failure can result.



Do not handle the battery pack or charger with wet hands. Do not insert or remove the power plug with wet hands.

An injury, leak, fire, or failure can result.



If smoke or strange odor is emitted from the main body, battery pack, or battery charger, immediately turn the transceiver off; remove the battery pack, and remove the power plug from the outlet.

A fire, leak, overheating, damage, ignition, or failure can result. Contact the dealer from which you purchased this product or Yaesu Amateur Customer Support.



Do not use the battery pack which is externally damaged or deformed.

A fire, leak, heating, explosion, or ignition can result.



Do not use any battery charger which is not specified by Yaesu.

A fire or failure can result.

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Keep the terminals of the battery pack clean.

If terminal contacts are dirty or corroded, a fire, leak, overheating, explosion, or ignition can result.



If charging of the battery pack cannot be completed within the specified charging time, immediately remove the power plug of the battery charger from the outlet.

A fire, leak, overheating, explosion, or ignition can result.



CAUTION



Do not dangle or throw this product by holding its antenna.

This product can hit and injure someone. In addition, doing so can result in a transceiver failure or damage.



Do not use transceiver in a crowded place.

The antenna can hit someone, resulting in an injury.



Do not place this transceiver in a place subject to direct sunlight or near a heater.

The transceiver can deform or discolor.



Do not place this transceiver in a humid or dusty place.

A fire or failure can result.



During transmission, keep the antenna as far from you as possible.

Long-time exposure to electromagnetic waves can have a negative impact on your health.



Do not clean the case with thinner or benzene.

Use a soft, dry cloth to clean the case.



If you do not use this transceiver for a long period, turn it off and remove the battery pack for safety.



Do not drop, strike, or throw the transceiver.

A failure or damage may result.



Keep magnetic cards and video tape away from the transceiver.

The data recorded on cash cards or video tape can be erased.



Do not use the earpiece microphone, earphones, or headphones at an extremely high volume level.

Hearing impairment can result.



Keep this product out of reach of children.

An injury, etc. can result.



Install the hand strap and belt clip securely.

If they are installed improperly, the FT1XDR/DE may fall or drop, resulting in an injury or damage.



Do not place a heavy object on the power cord of the battery charger.

The battery cord can be damaged, resulting in a fire or electric shock.



Do not use the included battery charger to charge any battery pack which is not specified for use with the charger.

A fire can result.



Do not operate the transmitter near the TV or radio.

Radio disturbance can occur in the transceiver, the TV, or the radio.



Do not use any products other than the specified options and accessories.

A failure can result.



When the battery charger is not in use, remove its power plug from the outlet

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Charge the battery pack within the temperature range from +5 °C to +35 °C (+41 °F to +95 °F).



Charging the battery pack outside this temperature range can cause leak, overheating, decrease in performance, or reduction in service life can result.

When unplugging the power cord of the battery charger, be sure to hold the power plug.



Pulling the power cord can damage it and cause a fire or electronic shock.



Before discarding the worn battery pack, affix tape or the like to its terminals.



Before using this transceiver in a hybrid or fuel-saving car, be sure to check with the automobile manufacturer regarding use of the transceiver in that car.

Noise generated by an onboard electrical device (inverter, etc.) can disrupt the normal operation of the transceiver.

Safety Precautions (Be Sure to Read)

About Waterproofing Feature Conforming to IPX5

When the included antenna and battery pack are installed and the MIC/SP jack, EXT DC IN jack, DATA terminal, and micro SD slot are securely covered with rubber caps, this product is moisture and splash resistant. To ensure continued waterproofing protection, be sure to check the following points before use.

○ **Check for damages, deterioration, and dirt.**

Antenna rubber, key switch rubber, MIC/SP jack, EXT DC IN jack, DATA terminal, micro SD slot rubber cap, and battery pack joint.

○ **Cleaning**

When this product is contaminated with seawater, sand, or dirt, rinse with fresh water, and then wipe with a dry cloth immediately.

○ **Recommended maintenance interval**

It is recommended that you ask for maintenance of this product when one year has passed since purchase or previous maintenance or when any damage or deterioration is found. Note that the maintenance service is subject to fees.

○ **Do not immerse this product in the following liquids:**

Sea, pool, hot spring, water containing soap, detergent, or bath additive, alcohol, or chemicals

○ **Do not leave this product for a long time in the following places:**

Bathroom, kitchen, or humid place

○ **Other precautions**

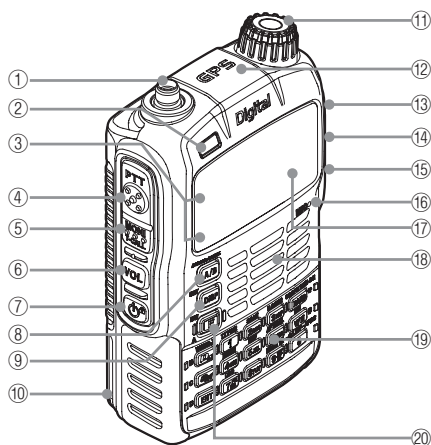
Since this product is not totally waterproof, it cannot be used in water.

Read this information first

Before Transmitting Radio Waves

If you are informed that the radio waves emitted from your amateur station are interfering with the TV, radio reception, etc., of a neighbor, you should stop emitting the radio waves, and determine whether any problem of interference exists, and if necessary resolve the interference problem.

Names and Functions of Controls



①	Antenna terminal (SMA)*
②	Flashlight (White LED) • This LED can be used as a small flashlight in a dark place.
③	A-band BUSY/TX lamp B-band BUSY/TX lamp These lamps light green during reception and red during transmission.
④	PTT switch • While switch is being pressed: Transmission. • The Set mode ends when switch is pressed during the Set mode.
⑤	switch USA/EXP version While is being pressed: Squelch OFF European version While is being pressed: T.CALL (1750 Hz)
⑥	VOL switch • While pressing , turn : Volume level adjustment • Pressing during the sound is being muted cancels the Mute function.
⑦	Power switch • Press and hold over 1 second: Power on. • Press and hold over 1 second again: Power off. • Press : Key lock
⑧	key (switching between operating bands) • Pressing each time switches between A-band and B-band. • Press and hold over 1 second: Changes the Dual Band Reception mode to the Mono Band Reception mode. • While operating the transceiver in the Mono Band Reception mode, press and then : Zooms in the display view.

⑨	SET DISP key • Pressing each time switches between the Frequency and BACKTRACK screen. • Press and hold over 1 second: Enters the Set mode.
⑩	Battery pack*
⑪	DIAL Turn this dial to change the reception frequency or select a memory channel.
⑫	GPS antenna
⑬	MIC/SP jack* Connect a speaker microphone or earpiece microphone to this jack. It is not waterproofed when an external microphone is connected. Do not connect any microphone which is not specified by Yaesu. A failure can result.
⑭	EXT DC IN jack* • When charging the battery pack, connect the battery charger (PA-48 or SAD-11B) to this jack. • In the USA/EXP market , connect an external power supply adapter with a cigarette lighter plug (SDD-13) or an external power cable (E-DC-6) to this jack. Do not connect any battery charger which is not specified by Yaesu. A failure can result.
⑮	DATA terminal* • Use this terminal when using a clone function or updating the firmware. • Connect the optional camera-equipped microphone (MH-85A11U). • For how to update the firmware, access our home page.
⑯	Microphone
⑰	Display This LCD displays reception frequencies and various settings.
⑱	Speaker
⑲	15 keys These keys are used to specify reception/transmission frequency or select a function.
⑳	MW switch • Press Function switch • Press and hold over 1 second: Registers a frequency to a memory channel.

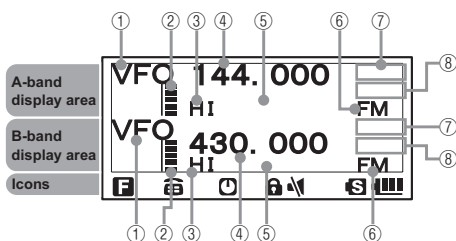
* When the included antenna and battery pack are installed and the MIC/SP jack, EXT DC IN jack, DATA terminal, and micro SD slot are securely covered with rubber caps, the FT1XDR/DE meets the waterproofing performance conforming to IPX5 (See page 11).

Names and Functions of Controls

KEY	When pressed		When pressed and held over 1 second	The key is pressed after  pressed
	When entering a frequency or recalling a memory CH	When inputting a tag		
	Switches between radio wave types.	—	Starts WIRE-X	—
	Turns on/off the GM function.	—	—	—
	Determines the function selection	Moves the cursor to the right.	—	—
	Number “1”	Number “1”	—	Enables transmission power level switching.
	Number “2”	Number “2”, or Upper or Lower case characters “A”, “B”, “C”, “a”, “b”, or “c”	—	Enables scan operation.
	Number “3”	Number “3”, or Upper or Lower case characters “D”, “E”, or “F”, “d”, “e”, or “f”	—	Recalls a preset receiver memory channel
	Number “4”	Number “4”, or Upper or Lower case characters “G”, “H”, or “I”, “g”, “h”, or “i”	—	Enables home channel selection.
	Number “5”	Number “5”, or Upper or Lower case characters “J”, “K”, or “L”, “j”, “k”, or “l”	—	Enables reversal function.
	Number “6”	Number “6”, or Upper or Lower case characters “M”, “N”, or “O”, “m”, “n”, or “o”	—	Enables AF DUAL function.
	Number “7”	Number “7”, or Upper or Lower case characters “P”, “Q”, “R”, or “S”, “p”, “q”, or “r”, or “s”	—	Displays QSO LOG data.
	Number “8”	Number “8”, or Upper or Lower case characters “T”, “U”, or “V”, “t”, “u”, or “v”	—	—
	Number “9”	Number “9”, or Upper or Lower case characters “W”, “X”, or “Y”, “Z”, “w”, “x”, “y”, or “z”	—	Transmits APRS beacon.
	Number “0”	Number “0”	—	Displays APRS stations/APRS Message LIST.
	Increases the frequency band.	—	Enables band scope function.	Decreases the frequency band.
	Switches between the VFO mode and Memory Channel mode.	—	—	Enables dual watch function.
	—	Erases a character and the cursor moves to the left.	Enters the Memory Channel Registration mode.	—

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Names and Functions of Controls



- ① Displays choice of the VFO mode or MR (memory channel) mode.
- ② Displays a sound volume bar graph.
- ③ Displays a transmission power level icon.
- ④ Displays an operating frequency.
- ⑤ S meter: Displays the radio wave strength in 9 steps.

PO meter: Displays the transmission power level in 4 steps.

HI: High power (5 W)

L 3: LOW 3 power (2.5 W)

L 2: LOW 2 power (1 W)

L 1: LOW 1 power (0.1 W)

- ⑥ Displays the operating mode (radio wave type).

FM FM (Analog) mode

■FM Auto mode (automatic switching among Analog AM, Analog FM, and Digital)

DN Wide digital mode (digital communication using C4FM modulation)

VW Wide digital mode (High quality digital communication)

- ⑦ Displays a squelch type (See page 84).

TN: Lights up when the tone encoder function is enabled.

TSQ: Lights up when the tone squelch function is enabled.

DCS: Lights up when the DCS function is enabled

RTN: Lights up when the reverse tone function is enabled.

PR: Lights up when the idle signal squelch function is enabled.

PAG: Lights up when the pager is enabled.

Displays the APRS baud rate (APRS function instruction manual).

- ⑧ Displays a shift direction during repeater operation (See page 40).

⊖: Minus shift

⊕: Plus shift

⊞: Split operation

⚡ appears when the bell alarm function is active (See page 89).

Description of Icons

Icon	Description of operation
	Lights when a function key is pressed.
	Lights when the DTMF function is enabled (See page 79).
	Lights when the APO function is active (See page 127).
	Lights when the LOCK function is active (See page 39).
	Lights when the MUTE function is active (See page 35).
	Lights when a micro SD memory card is inserted.
HI	Displays the transmission power level (See page 36). HI: High power (5 W) L 3: LOW 3 power (2.5 W) L 2: LOW 2 power (1 W) L 1: LOW 1 power (0.1 W)

Icon	Description of operation
	Displays battery condition. : Full battery power : Enough battery power : Low battery power : Poor battery power. Charge battery. : Charge battery immediately (blink).