

# YAESU

*The radio*

# FT1XDRIDE

## Operating Manual

144/430MHz  
DIGITAL/ANALOG  
TRANSCEIVER

**C4FM FDMA**



Read this information first

Basic Operation

Repeater Operation

Using the Memory

Scanning Function

Using the Digital GM Function

Using the APRS Function

Using the GPS Function

Convenient Functions

Communicating with a  
Specific Remote Station

Functions Used As Needed

Appendix

# Read this information first




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# Introduction

## Features of the FT1XDR/DE

- Digital communication (C4FM (Quaternary FSK), FDMA system)..... 31
- Equipped with AMS (Automatic Mode Select) Function..... 32  
 Automatically selects between 4 modes of transmission to fit the signal being received.
- External power supply connection ..... 20
- Simultaneous reception on two different bands, or within the same band (V+V/U+U) ..... 28
- Independent switching keys for A-band and B-band and TX/BUSY display ..... 28
- Wide-band reception over the range of 500 kHz to 999.900MHz ..... 28
- Waterproof design conforming to IPX5 equivalent, which protects the transceiver from rain and splashes..... 11
- Individual side keys, full keyboard for easy character entry, tilted main dials ..... 12
- Easy-to-see dot matrix display ..... 14
- WIRES-X connection support ..... See WIRES-X instruction manual\*
- Equipped with GM function ..... See GM function instruction manual\*
- Large-capacity 1266ch memory, with twenty-four 100ch memory banks ..... 42
- Display memory tags comprised of up to 16 one-byte characters ..... 46
- Convenient reception of preset receiver memory channels..... 51  
 By selecting preset frequencies, you can receive shortwave broadcast, and international VHF radio stations with ease.
- A wide variety of scan functions ..... 56
- Built-in GPS unit allowing display of your current location and heading information ..... 68
- Ready for APRS® communication using the world standard 1200/ 9600bps AX25 modem (B band only)..... See APRS instruction manual.\*
- High-resolution band scope function to display ± 50 channels ..... 82
- A variety of individual selective calling functions; such as tone squelch (CTCSS) and DCS functions ..... 84
- Vibrator to alert you of signal reception, in addition to the audible bell..... 88
- New pager function for calling only specific stations..... 90
- Illumination by white LED for easy viewing of the LCD outdoors..... 131
- Built-in temperature sensor..... 108
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- Data terminal for communication with external equipment or firmware update ..... 144
- Built-in bar antenna for AM reception..... 33
- Micro SD memory card slot..... 22
- Snapshot function (an optional camera microphone MH-85A11U is required) ..... 82

\* WIRES-X, GM function and APRS instruction manuals are not included in the product package.  
 They are available and may be downloaded from the Yaesu.com website.


Read this information first





## Introduction





### How to Read This Manual

Typical explanatory expressions used in this manual are as follows:

For pressing the  key short ..... Press .

For pressing the  key long ..... Press and hold  for over 1 second.

For pressing  →  ..... Press  and then .

For pressing or turning  while pressing the  key..... Turn  while pressing .

#### Caution



...Explains caution to observe during operation.

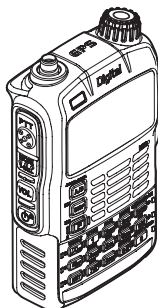
#### Tip



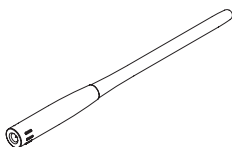
...Explains operating suggestions or useful tips.

### Checking Bundled Items

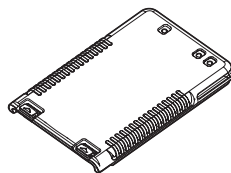
FT1XDR/DE



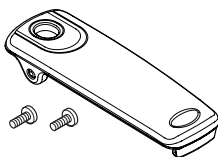
Antenna



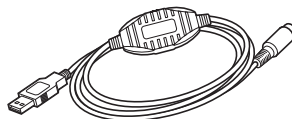
Lithium-ion battery pack  
(SBR-14LI: 7.2 V,  
2,200 mAh)



Belt clip



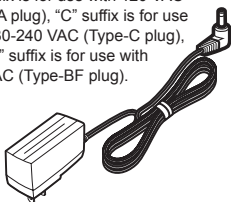
PC connection cable  
(SCU-19)



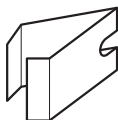
Battery charger

PA-48B/C/U\* or SAD-11B

\* "B" suffix is for use with 120 VAC (Type-A plug), "C" suffix is for use with 230-240 VAC (Type-C plug), and "U" suffix is for use with 230 VAC (Type-BF plug).



Card clip



Protective plate for battery pack



- Quick Manual
- Warranty Card
- Instruction Manual (this manual)

#### Cautions


- Check that the name of the shop dealer from which you purchased the product and the date of purchase are indicated on the warranty card.
- If any item is missing, contact the shop dealer from which you purchased the product.


# Safety Precautions (Be Sure to Read)


**Be sure to read the safety precautions to use this product safely.**

We are not liable for failures and other problems caused due to misuse or use of this product by you or a third party as well as the damages caused through use of this product by you or a third party except in the case where we are ordered to pay for damages under the laws.



## Types and Meanings of Symbols



 **DANGER** Indicates an imminently hazardous situation which, if not avoided, could result in death or serious injury.

 **WARNING** Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.


 **CAUTION** Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or only property damage.


## Types and Meanings of Legends


 Indicates a prohibited action, not to be done in order to use this product safely. For example,  indicates that the product should not be disassembled.


 Indicates a required action, to be done in order to use this product safely. For example,  indicates that the power plug should be removed.

## ||||| **DANGER** |||||

 **Do not use this product in “an area where use of it is prohibited”, e.g., inside the hospital, airplane, or train.”**  
This product can affect electronic or medical devices.

 **Do not use this product while riding a bicycle or driving a car. Accidents can result.**  
Be sure to stop the bicycle or car at a safe place before using this product.

 **Those who are carrying a medical device such as a cardiac pacemaker should not perform transmission near the device. When transmitting, use an external antenna and keep as far as possible away from the external antenna.**  
The radio wave emitted by the transmitter can cause the medical device to malfunction and result in an accident.

 **Do not use this product or the battery charger in a place where inflammable gas is generated.**  
A fire or explosion can occur.

Read this information first