

NEW DEFINITION OF DIGITAL HANDHELD

Advanced C4FM Digital + 1W High-Grade Audio Output Tough Durable Body, Touch & Go Operation





《 FT5DR: US, Asia and Australia FT5DE: Europe 》









Achieves Comfortable Operation with Excellent Basic Performance and Functions

Loud 1W Audio with C4FM Exceptional Quality

Although engineered into a compact body, the FT5D achieves loud 1-Watt audio output. The circuit has also been tuned for quality audio to provide excellent communications in outdoor or noisy environments.



Real Dual Band Operation (V+V/U+U/V+U/U+V) Dual LED Indicator

Two independent receiver circuits provide true dual-band operation, regardless of whether in the same band or in different bands. Equipped with large independent LED indicators for A band and B band, it is possible to view the current receiver status and communication mode for each band at a glance.

C4FM/C4FM Simultaneous Monitoring

The FT5D supports simultaneous C4FM monitoring of both A and B-bands, to fully enjoy C4FM digital communications.

- C4FM/C4FM simultaneously receiving audio output is not supported. If C4FM digital signals are received on both A and B-bands at the same time, priority is given to the C4FM signal received on the operating band.
- Digital data such as call sign and location information can be received simultaneously on both bands.



VFO Band Skip Function

VFO band selection is enabled by pressing the "BAND" key. Also, unused bands may be skipped. The frequency registered in the memory channel can be recalled even if the frequency is in the skipped band.

Memory Auto Grouping (MAG)

The memory auto grouping (MAG) function allows Memory channels to be automatically categorized in each band, and then the memory channels can be quickly recalled by Band groups. By pressing the "BAND" key while operating on a memory channel, the bands will switch in the order of: ALL \rightarrow AIR \rightarrow VHF \rightarrow UHF \rightarrow AM \rightarrow FM \rightarrow SW \rightarrow OTHER. In ALL, the MAG function is turned Off.



Includes Quick Release Holster

Included is a quick release holster that allows attaching or detaching the transceiver with a single touch while wearing it on a belt. The FT5D has a smooth flat back with no protrusions and provides an excellent grasp, even when wearing gloves outdoors and for sports. The FT5D can also be used by attaching only the belt olip directly to the back of the radio.



Rugged Construction, IPX7*2 Waterproof

FT5D has Full-fledged robust construction that protects the front and the LCD with silicone rubber, and rubber protection

on the bottom and sides of the main body.The waterproof rating is IPX7, the FT5D can be used with confidence even in bad weather.



Advanced Functions that Ensure Ease of Operation

Wide-band Reception

The FT5D provides continuous wide-range receive coverage from 0.5MHz - 999.99MHz (A Band), and 108MHz - 580MHz (B Band).

79 channel Band scope

Band Scope function displays up to 79 channels, in high-speed real time, centered on the current VFO frequency. The number of channels displayed can be

selected from: 79/39/19 channels. The center frequency can be tuned by turning the dial knob, or moving the frequency by touching a displayed channel bar



High Precision GPS Receiver

The FT5D comes standard with a high-sensitivity 66 channel GPS receiver (located at the top of the unit). In C4FM digital mode, the position and direction of the partner stations can be displayed in real time. It also supports various navigation, location and GPS log functions.



Includes 2,200mAh High-capacity Lithium-ion Battery

The high-capacity lithium-ion battery pack SBR-14LI (2200mAh) comes standard with the Transceiver.

BATTERY OPERATING TIME (Approximately)*3 3 Duty Cycle based on Band TX 6 seconds (5 W): RX 6 seconds: Standby 48 seconds. (RX SAVE 1:5)

Operating Time (SBR-14LI) 144 MHz 9.3 hours 430 MHz 8 hours

AF DUAL Simultaneous AM/FM **Broadcast Reception and 2-channel Monitoring**

AM or FM radio stations can be received while also

monitoring two frequency channels.Independent receivers allow listening to an AM or FM broadcast station while also monitoring two different bands ("A band" and "B band") at the same time.

stations on the compass

display. Also, your APRS®

*APRS® feature supports only B band.

websites.

1200/9600bps APRS[®] Data communication*4

Communicate the location information between your own station and other stations, and view the positional

relationship of the other % SD \$ 1A17DI -C FTM-movement trajectory can be confirmed on the internet REPLY



Hands-free Operation with Bluetooth®*5

The FT5D enables wireless operation using the optional Yaesu Bluetooth® headset SSM-BT10. In addition to operation of the PTT button function from the SSM-BT10 headset, voice activated transmit (VOX) function is also supported, so it is possible to operate completely hands-free

Recording Function

The received audio of other stations, or the transmit audio of the FT5D can be recorded, and the voice data saved as an audio file on the microSD card. The audio may be replayed at any time.



Snapshot Feature (Transmit & Receive Image data)

Snapshots may be taken with a connected camera microphone MH-85A11U (optional). The captured images are displayed with full color,

and can be sent to other C4FM digital transceivers. Images are stored on the microSD card, so they can be viewed and edited later on a PC. The date, time, and location are stored in the image data. making it possible, using the backtrack function, to navigating to the location where the photo was taken.



microSD Card Slot

The FT5D accepts microSD cards (up to 32 GB) for storage of GPS logger data (recorded track information that can be displayed later by using map software on a PC), Voice data, Memory back-up and other useful information. Using the microSD card, it is also possible to clone the radio data to other compatible radios.

Outstanding Audio Quality / Automatically Select Analog FM and C4FM Digital Communications

High-Grade Communication by C4FM Digital Audio

Compared to other digital modulation methods, the C4FM digital is a standard method for professional use, and has excellent audio quality (BER: Bit Error Rate characteristics). Adding YAESU's original error correction technology has achieved comprehensive high-grade communications, with uninterrupted, clear-crisp audio, and a wide communication range.

DG-ID (Digital Group ID) / Group Monitor (GM)

The Digital Group ID (DG-ID) "00 to 99", can be easily configured by each group member to facilitate communications only between the specific group participants.

When the DG-ID number is set to "00", the audio of all stations can be received. The Digital Group Monitor (GM) function automatically confirms whether stations with the GM function, on the same frequency and with the same DG-ID, are operating within communication range, and displays their call signs GM function checks the status of up to 24 stations within the communications area.



FM Friendly Digital Communications AMS 拜 using AMS (Automatic Mode Select)

AMS automatically determines whether the received signal is C4FM Digital or conventional FM, and sets the receiver to the appropriate mode. The AMS function enables FM friendly digital operation by removing the need for users to manually switch between modes.

Smart Navigation Functions are shown in Full color

Real Time Navigation Function

The Digital V/D Mode transmits additional information such as position data, distance and direction at the same time as the audio signal. This allows the location of the received station to be displayed on the compass screen in real time, while communicating.

Backtrack Function



The Backtrack function allows viewing the direction and distance to a pre-registered point from your current position in real time. Navigation back to the departure point, or to a previously registered point is made possible. Up to three locations can be pre-registered.



Enjoy Worldwide WIRES-X Internet Communications anytime, anywhere

Portable Digital Node Function

Worldwide communications are enabled with a Digital node station connected to the internet. With the Wires-X Portable Digital Node function, the FT5D can connect to the Wires-X network through an internet connected PC, from any location.

Operate digital node stations even when you are away from home using the Internet online

Easily enjoy Internet communications connecting to a Wires-X node station



Simpler and Highly-mobile, Portable Digital Node Function

^{*}PDN: Portable Digital Node station

Specifications

General Frequency Ra

A Ban

B Ban

Ranges		Current Consumption:	180mA (Mono band Receive)
nd RX:	0.5 - 1.8MHz (AM Radio)		220mA (Dual band Receive)
	1.8 - 30MHz (SW Radio)		110mA (Mono band Receive, Standby)
	30 - 76 *6 (88 *7) MHz		145mA (Dual band Receive, Standby)
	76 *6 (88 *7) - 108MHz (FM Radio)		74mA (Mono band Receive, Standby, Saver On "Save Ratio 1:10")
	108 - 137MHz (Air Band)		74mA (Dual band Receive, Standby, Saver On "Save Ratio 1:10")
	137 - 174MHz (144 MHz HAM)		+15mA (GPS On)
	174 - 222MHz		+3mA (Digital)
	222 - 420MHz		125mA (AM/FM Radio)
	420 - 470MHz (430 MHz HAM)		600µA (Auto Power Off)
	470 - 800MHz		1.6A (5W TX, 144MHz 7.4V DC)
	800 - 999.99MHz *8		1.9A (5W TX, 430MHz 7.4V DC)
nd RX:	108 - 137MHz (Air Band)	Operating Temperature:	-4° F to +140° F (-20°C to +60°C)
	137 - 174MHz (144 MHz HAM)	Case Size:	2.44"(W) × 3.94"(H) × 1.34"(D) (62 × 100 × 34 mm)
	174 - 222MHz		(w/SBR-14Ll, w/o knob, antenna, & belt clip)
	222 - 420MHz	Weight (Approx.):	9.95 oz (282g) w/SBR-14LI, antenna
	420 - 470MHz (430 MHz HAM)		
	470 - 580MHz	Turnersitter	
TX:	144 - 148MHz or 144 - 146MHz	Transmitter	
	(Depends on the transceiver version)	RF Power Output:	5W / 2.5W / 1W / 0.3W (@ Li-ion Battery or EXT DC)
	430 - 450MHz or 430 - 440MHz		0.9W / 0.3W (@ FBA-39)
	(Depends on the transceiver version)	Modulation Type:	F1D, F2D, F3E: Variable Reactance modulation

Channel Steps: 5, 6.25, 8.33, 9, 10, 12.5, 15, 20, 25, 50, 100kHz $\begin{array}{l} (8.33 \text{ kHz}: \text{ only for Air band, 9 \text{ kHz}: only for AM Radio)} \\ \pm 2.5 \text{ppm} - 4^\circ\text{F} \text{ to } +140^\circ\text{F} (-20^\circ\text{C to } +60^\circ\text{C}) \end{array}$ Frequency Stability: Emission Type: F1D, F2D, F3E, F7W Nominal:7.2V DC, Negative Ground SBR-14LI 7.4V DC, Negative Ground FNB-101LI Supply Voltage: 10.5 - 16V DC, Negative Ground (EXT DC JACK) Operating: 5.5 - 8.4V DC, Negative Ground (Li-ion Battery) 4 - 16V DC, Negative Ground (EXT DC JACK)

10.5 - 16V DC, Negative Ground (EXT DC: for Charging) 3.6 - 4.5V DC, Negative Ground (with FBA-39)

on Type: F7W: 4FSK (C4FM)

Spurious Emission: At least 60dB below (@TX Power Hi, L3) At least 50dB below (@TX Power L2, L1)

Receiver

Circuit Type: AM. NFM: Double-Conversion Super heterodyne AM/FM Radio: Direct-Conversion Intermediate

1st: 58.05MHz (AM, NFM A Band) 1st: 57.15MHz (AM, NFM B Band) Frequencies:

2nd: 450kHz (AM, NFM) 3µV for 10dB SN (0.5 - 30MHz, @AM) 0.35µV TYP for 12dB SINAD (30 - 54MHz, @NFM) Sensitivity: 1μV TYP for 12dB SINAD (54 - 76 *6 (88 *7) MHz, @NFM) 1.5μV TYP for 12dB SINAD (76 *6 (88 *7) - 108MHz, @WFM) 1.5µ/ TYP for 10dB SINAD (10 - 100) 1.5µ/ TYP for 10dB SINAD (10 - 137MHz, @AM) 0.2µ/ for 12dB SINAD (137 - 140MHz, @NFM) 0.16µ/ for 12dB SINAD (140 - 150MHz, @NFM) 0.2µV for 12 B SINAD (150 - 174MHz, @NFM) 1µV for 12dB SINAD (174 - 222MHz, @NFM) 0.5uV for 12dB SINAD (300 - 350MHz, @NFM) 0.2µV for 12dB SINAD (350 - 400MHz, @NFM) 0.18LV for 12dB SINAD (400 - 470MHz, @NFM) 1.5µV for 12dB SINAD (470 - 580MHz, @NFM) 3µV TYP for 12dB SINAD (580 - 800MHz, @NFM) 1.5µV TYP for 12dB SINAD (800 - 999MHz, @NFM)*8 0.19µV TYP for BER 1% (Digital Mode) NFM, AM 12kHz / 35 kHz (-6dB / -60dB) Selectivity: AF Output: 1000mW (8 Ω for 10 % THD) Internal Speaker 500mW (8 Ω for 10 % THD) External Speaker Jack



*1 If frequencies other than 108MHz to 580MHz (Shortwave broadcasting, AM/FM radio, 50MHz band, etc.) are registered in PMG or CAM, a gray bar graph will be displayed. Touch the bar to move to that frequency and receive the signal.

*2 IPX7 Specification for Waterproof: 3ft. (1m) for 30 minutes (with antenna and side terminal cover properly attached) *3 Duty Cycle based on Tx 6 seconds (5W): Rx 6 seconds (VOL Level 16): Standby 48 seconds (RX SAVE 1:5). Operating time may vary depending on operating conditions.

*4 APRS® is a registered trademark of Bob Bruninga, WB4APR. SmartBeaconing™ registered trademark of HamHUD Nichetronix

5 Bluetooth name and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such trademarks by Yaesu Co., Ltd. is under license. Other trademarks and trade names are those of their respective owners.

Although other commercially available Bluetooth® headsets can be used, the operation of all Bluetooth® products is not guaranteed.

We recommend using the Bluetooth® headset SSM-BT10.

*6 US and Australia Versions. *7 Europe and Asia versions. *8 USA Cellular Blocked. *9 The same as the supplied accessory.



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