

The Totally New - Advanced Dual Band Mobile Radio GPS / APRS® / Bluetooth® Features

144/(220)* /430 MHz 50 W FM Dual Band Transceiver

FTM-350R

*220 MHz 1W (USA Version only)



- 5.2"x1.6" (130x40 mm) Large dot matrix (264x64 dots) LCD display for comfortable viewing - night or day. Choose your favorite LCD display from 8 vibrant color options.
- The Ultimate Mobile Communications Tool is packed with the latest advanced communications technology, including a multi-purpose Global Positioning System display, APRS®, Bluetooth®, Event Timer functions, simultaneous Dual Band Receive, and Full-Duplex operation.
- Incredibly flexible Dual Band Display. You can easily set your own individual preference for Dual Receive and Full-Duplex operation.
- 50 Watts of Reliable Power on both 2 m and 70 cm 220 MHz 1W (USA Version)
- Numerous useful displays are available with the optional FGPS-1 GPS Receiver and Antenna. (Optional FGPS-2 External GPS Receiver and Antenna + CT-133 (cable) + CT-136 (adapter) are also available.)



(Optional)

- Compatible with various APRS® information and functions - Receive WX info from other APRS® weather stations, exchange messages (max 67 characters) using the APRS® function, etc.



- SmartBeaconing™ from HamHUD Nichetronix.
- High-speed Band Scope for rapidly checking band activity.



- Built-in Dual Speakers on the rear of the Control Head with Independent Volume Controls for maximum flexibility.
- Optional Voice Guide Unit FVS-2 speaks your operating frequency and records received signals.
- 1200 / 9600 bps packet port (8-pin mini DIN)
- The Display Control Head is designed for easy separation from the main RF Power Unit - 10 ft control cable included. (Optional 20 ft control cable available.)
- Yaesu's renowned high quality Die Cast Aluminum Chassis design allows stable continuous high power operation when you need it most.
- Wideband RX:
L-band: 0.5 MHz - 1.7 MHz (AM Broadcast band)
76 MHz - 108 MHz (FM Broadcast band)
108 MHz-250 MHz / 300-1000MHz
R-band: 108-250 MHz, 300 MHz-1000 MHz
(USA : Cellular Blocked)

- Built-in stereo decoder for FM Broadcast: Listen to FM Broadcast in Stereo with dual speakers on the rear of the control head!
- "Line In" input permits playing your favorite stereo music from other devices.



Dual speakers (Control Head - backside)

- Optional FPR-1 Monitor Unit receives your transmission out to about 1,000 ft (300 m) depending on transmit power and other conditions. Give to others to hear your transmissions during emergencies, special events, and so many other operations so that they can follow the situation.



FPR-1
Monitor Unit

- Available to display your friend APRS® stations (FTM-350R and VX-8R) with their directions, distances and other info.
- Huge memory channel management capability! 500 Independent memory channels with memory name tag function (up to 8 characters) for each L and R band (1000 channels total), + 9 PMS (Programmable Band Limit Memory Scan) channels for each L and R band (18 channels in total), + a rewritable preferred channel for each L and R band, + 31 channels specifically allocated for the Smart Search function.
- DTMF Autodial (Memory) Feature: 16 digits/9 memories.
- Built-in Barometric Pressure Sensor - The radio can monitor and display your altitude and pressure.
- Easier Menu setup - Menu items are associated with the various operations for easier and faster setup modifications.



- Bluetooth® Capabilities - The optional Bluetooth Unit (BU-1) provides hands-free radio operation with the optional Bluetooth headset BH-1A (stereo) or BH-2A (monaural).
- The front panel Built-in Microphone activates PTT transmission. (MH-48A6JA / conventional hand microphone with DTMF included)

* APRS® is a registered trademark of Bob Bruninga WB4APR. The FTM-350R has not been approved by the FCC. This device may not be sold or leased, or offered for sale or lease, until FCC approval has been obtained.

FTM-350R

*220MHz 1W (USA Version only)



Rear Panel



← New Suction Cup Mounting Bracket

General		Operating Temperature	-4°F to +140°F (-20°C to +60°C)	Circuit Type	Radio Single-Conversion Super heterodyne
Frequency Ranges	Radio	Case Size (WxHxD)	6.3" x 2.6" x 1.3" (157 x 66 x 33.5 mm) (Panel W/O knob & connectors)	Intermediate Frequencies	1st: 130 kHz FM Radio 1st: 50 kHz AM Radio
A / B Band RX	0.5-1.8 MHz (AM Radio) 76-108 MHz (FM Radio) 108-137 MHz (Air Band) 137-174 MHz (144 MHz HAM) 174-250 MHz (GR1 VHF TV) 300-420 MHz (GR2) 420-470 MHz (430 MHz HAM) 470-800 MHz (GR1 UHF TV) 800-1000 MHz (GR2 USA Cellular Blocked)	Weight	5.6" x 1.8" x 6.0" (140 x 46 x 150 mm) (Rear chassis W/O connectors)	Sensitivity	Radio Band 5 μV TYP for 10 dB SN (0.5-1.7 MHz, AM) 2 μV TYP for 12 dB SINAD (76-108 MHz, WFM) L & R Band 0.8 μV TYP for 10 dB SN (108-137 MHz, AM) 0.2 μV for 12 dB SINAD (137-140 MHz, FM) 0.2 μV for 12 dB SINAD (140-150 MHz, FM) EXP 0.25 μV for 12 dB SINAD (150-174 MHz, FM) 1 μV TYP for 12 dB SINAD (174-222 MHz, WFM) 0.8 μV TYP for 10 dB SN (300-336 MHz, AM) 0.25 μV TYP for 12 dB SINAD (336-420 MHz, FM) 0.2 μV for 12 dB SINAD (420-470 MHz, FM) EXP 5 μV TYP for 12 dB SINAD (470-540 MHz, WFM) 5 μV TYP for 12 dB SINAD (540-800 MHz, WFM) 0.4 μV TYP for 12 dB SINAD (800 -899.99 MHz, FM) 0.8 μV TYP for 12 dB SINAD (800 -899.99 MHz, FM) USA Version Cellular Blocked
TX	144-146 (148) MHz (Ham Band) 222-225 MHz (Type USA) 430-440 (450) MHz (Ham Band)	Transmitter	4.6 lbs (2.1 kg)	L & R Band	0.8 μV TYP for 10 dB SN (108-137 MHz, AM) 0.2 μV for 12 dB SINAD (137-140 MHz, FM) 0.2 μV for 12 dB SINAD (140-150 MHz, FM) EXP 0.25 μV for 12 dB SINAD (150-174 MHz, FM) 1 μV TYP for 12 dB SINAD (174-222 MHz, WFM) 0.8 μV TYP for 10 dB SN (300-336 MHz, AM) 0.25 μV TYP for 12 dB SINAD (336-420 MHz, FM) 0.2 μV for 12 dB SINAD (420-470 MHz, FM) EXP 5 μV TYP for 12 dB SINAD (470-540 MHz, WFM) 5 μV TYP for 12 dB SINAD (540-800 MHz, WFM) 0.4 μV TYP for 12 dB SINAD (800 -899.99 MHz, FM) 0.8 μV TYP for 12 dB SINAD (800 -899.99 MHz, FM) USA Version Cellular Blocked
Channel Steps	5, 6.25, 8.33, 10, 12.5, 15, 20, 25, 50, 100, 200 kHz	RF Power Output	50 / 20 / 5 W		
Frequency Stability	±5 ppm (14°F to +140°F [-10°C to +60°C])	Modulation Type	Variable Reactance F1D, F2D, F3E		
Repeater Shift	±600 kHz (144 MHz) ±1.6 / 5.0 / 7.6 MHz (430 MHz)	Maximum Deviation	±5 kHz		
Emission Type	F1D, F2D, F3E,	Spurious Emission	At least 60 dB below		
Antenna Impedance	50 Ω	Microphone Impedance	2 kΩ		
Supply Voltage	Nominal 13.8 V DC, Negative Ground Operating 11.7~15.8 V, Negative Ground	Receiver			
Current Consumption	0.5 A (Receive) 10 A (TX, 144 MHz 50W) 10 A (TX, 430 MHz 50W)	Circuit Type	FM / AM Double-Conversion Super heterodyne		
		Intermediate Frequencies	1st: 47.25 MHz (A Band) 2nd: 450 kHz (A Band) 1st: 44.85 MHz (B Band) 2nd: 450 kHz (B Band)	Squelch Sensitivity	0.16 μV (144 / 430 MHz Band)
		Circuit Type	WFM Triple-Conversion Super heterodyne	Selectivity	NFM, AM 12 kHz / 30 kHz(-6 dB) ~ -60 dB)
			1st: 45.8 MHz (A Band) 1st: 44.0 MHz (B Band) 2nd: 10.7MHz 3rd: 1 MHz (A Band) 3rd: 400 kHz (B Band)	AF Output	8 W @ 4 Ω for 10 % THD (@ 13.8 V) BTL EXP SP 4 W @ 4 Ω for 10 % THD (@ 13.8 V) Normal EXP SP / CH
				AF Output Impedance	4-16 Ω
					Technical specifications are subject to change without notice.

Supplied Accessories	Optional Accessories					
• DTMF Microphone MH-48A6JA	• DTMF Microphone MH-48A6JA	• Ear Phone for BH-1A	FEP-4	• External GPS Adapter (for FGPS-2)	CT-136	
• Mounting Bracket for Front Panel (Suction Cup Type)	• Normal Microphone MH-42C6J	• High-Power External Speaker	MLS-200-M10	• GPS Extension Cable (for FGPS-2)	CT-133	
• Mounting Bracket	• Separation Cable (20 ft / 6 m) CT-132	• AC Power Supply (25 A)	FP-1025A	• Clone Cable	CT-135	
• DC Power Cable w/Fuse	• Bluetooth Head Set BH-1A (Stereo Type)	• AC Power Supply (30 A)	FP-1030A	• Packet Cable(DIN8 to Din6+Dsub9)	CT-140	
• 10 ft (3 m) Control Cable	• Bluetooth Head Set BH-2A (Monaural Type)	• Voice Guide Unit	FVS-2	• Packet Cable(DIN8 to Din6)	CT-141	
• Speaker Cable	• Bluetooth Adapter Unit BU-1	• Monitor Unit	FPR-1	• Packet Cable(DIN8 to Dsub9)	CT-142	
• Spare Fuse x2	• Charger Sleeve for BH-1A, BH-2A or FPR-1	• Internal GPS Receiver Unit	FGPS-1			
• Operating Manual		• External GPS Receiver Unit	FGPS-2			
• Warranty Card						