YAESU New Product News

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

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

*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.)



 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.



* 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.

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.





 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)

FTM-350R *220MHz 1W (USA Version only)





BH-2A or FPR-1

Bluetooth Adapter Unit

Charger Sleeve for BH-1A,

New Sucktion Cup Mounting Bracket

		Specificat	ions				
		Operating Temperature -4°F to +140°F (-20°C to +60°C)		Circuit Type Radio Single-Conversion Super heterodyne			
Frequency Ranges Radio 0.5-1.8 MHz (AM Radio		Case Size (WxHxD) 6.3" x 2.6" x 1.3" (157 x 66 x 33.5 mm)		Intermediate Frequencies 1st: 130 kHz FM Radio			
76-108 MHz (FM Radio		(Panel W/O knob &			1st: 50 kHz AM Radio		
A / B Band RX 108-137 MHz (Air Band				Sensitivity Radio Bar	nd 5 μV TYP for 10 dB SN (0.5-1.7 MHz		
137-174 MHz (144 MHz		(Rear chassis W/O	connectors)		2 μV TYP for 12 dB SINAD (76-108 MHz,		
174-250 MHz (GR1 VH 300-420 MHz (GR2)		Weight 4.6 lbs (2.1 kg) Transmitter		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)			
420-470 MHz (GHZ)		RF Power Output 50 / 20 / 5 W			0.2 μV for 12 dB SINAD (137-140 MHz, FM)		
470-800 MHz (430 MHz)		Modulation Type Variable Reactance F1D, F2D, F3E		0.25μ V for 12 dB SINAD (140-130 MHz, FM) EXF			
800-1000 MHz (GR2 US		Maximum Deviation ±5 kHz			$1 \mu\text{V}$ TYP for 12 dB SINAD (174-222 MHz, WFM)		
TX 144-146 (148) MHz (Ham Band)		Spurious Emission At least 60 dB below			0.8 μV TYP for 10 dB SN (300-336 MHz, AM)		
222-225 MHz (Type USA)		Microphone Impedance 2 k Ω			0.25 µV TYP for 12 dB SINAD (336-420 MHz, FM)		
430-440 (450) MHz (Ham Band)		Receiver			0.2 µV for 12 dB SINAD (420-470 MHz, FM) EXP		
Channel Steps 5, 6.25, 8.33, 10, 12.5, 15, 20, 25, 50, 100, 200 kHz		Circuit Type FM / AM Double-Conversion Super heterodyne			5 µV TYP for 12 dB SINAD (470-540 MHz, WFM)		
Frequency Stability ±5 ppm (14°F to +140°F [-10°	C to +60°C]) Intermediate	Intermediate Frequencies 1st: 47.25 MHz (A Band)		5 µV TYP for 12 dB SINAD (540-800 MHz, WFM)			
Repeater Shift ±600 kHz (144 MHz)		2nd: 450 kHz (A Band)		0.4 µV TYP for 12 dB SINAD (800 –899.99 MHz, FM)			
±1.6 / 5.0 / 7.6 MHz (430 MHz))	1st: 44.85 MHz (B Band)			0.8 µV TYP for 12 dB SINAD (800 –999.99 MHz, FM)		
Emission Type F1D, F2D, F3E,		2nd: 450 kHz (B Band)			USA Version Cellular Blocked		
Antenna Impedance 50 Ω		Circuit Type WFM Triple-Conversion Super heterodyne			Squelch Sensitivity 0.16 µV (144 / 430 MHz Band)		
Supply Voltage Nominal 13.8 V DC, Negative Ground		1st: 45.8 MHz (A Band)		Selectivity	NFM, AM 12 kHz / 30 kHz(-6 dB / -6		
Operating 11.7~15.8 V, Negative Ground		1st: 44.0 MHz (B Band) 2nd: 10.7MHz		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		
Current Consumption 0.5 A (Receive) 10 A (TX, 144 MHz 50W)		3rd: 1 MHz (A Band)		AF Output Impedance 4-16 Ω			
10 A (TX, 430 MHz 50W)							
10 A (1X, 400 MHZ 50W)		Accessories		Technical specification	is are subject to change without notice.		
Supplied Accessories Opt	ional Accessories	Accessories					
		MIL 40				07 400	
		MH-48A6JA	• Ear Phone for BH-1A	FEP-4	• External GPS Adapter (for FGPS-2)		
(Out the Out True)		MH-42C6J	High-Power External Speaker		• GPS Extension Cable (for FGPS-2)		
Mounting Procket		CT-132	 AC Power Supply (25 A) 	FP-1025A	Clone Cable	CT-135	
DC Power Cable w/Fuse		BH-1A (Stereo Type)	 AC Power Supply (30 A) 	FP-1030A	 Packet Cable(DIN8 to Din6+Dsub9) 		
• 10 ft (3 m) Control Cable	uetooth Head Set	BH-2A (Monaural Type)	Voice Guide Unit	FVS-2	 Packet Cable(DIN8 to Din6) 	CT-141	

BU-1

CAB-1

Internal GPS Receiver Unit

• External GPS Receiver Unit

Monitor Unit

FPR-1

FGPS-1

FGPS-2

- 10 ft (3 m) Control Cable
- Speaker Cable
 Spare Fuse x2
- Operating Manual
- Warranty Card

Nov. 2009

CT-142

• Packet Cable(DIN8 to Dsub9)