

HF/50MHz, 100 W Base Station
FT-950



The radio... YAESU
Choice of the World's top DX'ers

Specifications

General	
Rx Frequency Range	30 kHz - 56 MHz (operating) 160 - 6 m (specified performance, Amateur bands only)
Tx Frequency Ranges	160 - 6 m (Amateur bands only)
Frequency Stability	±0.5 ppm (after 1 minute @77° F [+25° C]) ±1.0 ppm (after 1 minute @14° F ~ +122° F [-10° C ~ +50° C])
Operating Temperature Range	14° F ~ +122° F (-10° C ~ +50° C)
Emission Modes	A1A (CW), A3E (AM), J3E (LSB, USB), F3E (FM), F1B (RTTY), F1D (PACKET), F2D (PACKET)
Frequency Steps	1/10 Hz (SSB, CW, & AM), 100 Hz (FM)
Antenna Impedance	50 Ohms, unbalanced 16.7 - 150 Ohms, unbalanced (Tuner ON, 160 - 6 m Amateur bands, TX only)
Power Consumption (Approx.)	Rx (no signal) 1.8 A Rx (signal present) 2.1 A Tx (100 W) 22 A
Supply Voltage	DC 13.8 V ±10% (Negative Ground)
Dimensions (WxHxD)	14.4" x 4.5" x 12.4" (365 x 115 x 315 mm)
Weight (Approx.)	21.6 lbs (9.8 kg)
Transmitter	
Power Output	5 - 100 watts (2 - 25 watts AM carrier)
Modulation Types	J3E (SSB): Balanced, A3E (AM): Low-Level (Early Stage), F3E (FM): Variable Reactance
Maximum FM Deviation	±5.0 kHz / ±2.5 kHz
Harmonic Radiation	Better than -60 dB (160 - 10m Amateur bands: Harmonics) Better than -50 dB (160 - 10m Amateur bands: Others) Better than -65 dB (6m Amateur band)
SSB Carrier Suppression	At least 60 dB below peak output
Undesired Sideband Suppression	At least 60 dB below peak output
3rd-order IMD	-31 dB @14 MHz 100 watts PEP
Bandwidth	3 kHz (LSB/USB), 500 Hz (CW), 6 kHz (AM), 16 kHz (FM)
Audio Response (SSB)	Not more than -6 dB from 300 to 2700 Hz
Microphone Impedance	600 Ohms (200 to 10 kOhms)

Receiver	
Circuit Type	Triple-conversion Superheterodyne
Intermediate Frequencies	69.450 MHz/450 kHz/30 kHz (24 kHz for AM/FM)
Sensitivity	SSB (BW: 2.4 kHz, 10 dB S+N/N) 4 µV (0.5 - 1.8 MHz) (IPO "ON") 0.2 µV (1.8 - 30 MHz) (AMP 2) 0.125 µV (50 - 54 MHz) (AMP 2) AM (BW: 6 kHz, 10 dB S+N/N, 30 % modulation @400 Hz) 28 µV (0.5 - 1.8 MHz) (IPO "ON") 2 µV (1.8 - 30 MHz) (AMP 2) 1 µV (50 - 54 MHz) (AMP 2) FM (BW: 15 kHz, 12 dB SINAD) 0.5 µV (28 - 30 MHz) (AMP 2) 0.35 µV (50 - 54 MHz) (AMP 2) There is no specification for frequency ranges not listed.
Squelch Sensitivity (RF AMP 2 "ON")	SSB/CW/AM 2 µV (0.1 - 1.8 MHz) 2 µV (50 - 54 MHz) FM 1 µV (28 - 30 MHz) 1 µV (50 - 54 MHz) There is no specification for frequency ranges not listed.
Selectivity (WIDTH: Center)	Mode -6 dB -60 dB CW/RTTY/PKT 0.5 kHz or better 750 Hz or less SSB 2.4 kHz or better 3.6 kHz or less AM 6 kHz or better 15 kHz or less FM 15 kHz or better 25 kHz or less
Image Rejection	70 dB or better (160 - 10m Amateur bands) 60 dB or better (6m Amateur band)
Maximum Audio Output	2.5 W into 4 Ohms with 10% THD
Audio Output Impedance	4 to 8 Ohms (4 Ohms: nominal)
Conducted Radiation	Less than 4000 µµW

DMU-2000 Data Management Unit Specifications

Power Requirements	AC 90 V ~ 264 V 50/60 Hz
Current Consumption (@117V AC)	Typ. 50 VA
Weight (approx.)	5.9 lbs (2.7 kg)
Dimensions (WxHxD)	3.9" x 5.3" x 13.8" (100 x 135 x 350 mm) (without knobs/switches)

Specifications are subject to change, in the interest of technical improvement, without notice or obligation, and are guaranteed only within the amateur bands.

• Supplied Accessories: MH-31⁸⁸ Hand Microphone (1), DC Cable (1)

Options

 <p>• Includes Scope Unit CF Card Unit DMU-2000 Data Management Unit After-market PS/2 Keyboard and PC monitor are required for use of DMU-2000 and are not supplied.</p>	 <p>DVS-6 Voice Memory Unit</p>	 <p>FH-2 Remote Control Keypad</p>	 <p>MD-200A8x Desktop Deluxe Dynamic Microphone</p>	 <p>MD-100A8x Desktop Microphone</p>	 <p>YH-77STA Stereo Headphones</p>	 <p>FC-40 Automatic Antenna Tuner (for Long wire antenna) The FC-40 is a microprocessor-controlled antenna impedance matching network designed to provide all-amateur-band transmitting capability with the FT-950 of transceivers, when used with an end-fed random wire or long whip antenna.</p>							
<p>RF µ-Tune Kits Wt. Abt. 5.7 Lbs (2.6 kg) / 5 W x 4.7 H x 13 D in (127 x 120 x 328 mm)</p> <table border="1"> <thead> <tr> <th>160m Band RF µ-Tune Kits A</th> <th>80/40m Band RF µ-Tune Kits B</th> <th>30/20m Band RF µ-Tune Kits C</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>			160m Band RF µ-Tune Kits A	80/40m Band RF µ-Tune Kits B	30/20m Band RF µ-Tune Kits C				 <p>QUADRA SYSTEM HF-50 MHz 1 kW Linear Amplifier (50 MHz: 500 W/USA Version) VL-1000 Automatic Antenna Tuner Built In VL-1000 Power Supply VP-1000</p>				<p>Specifications • Operating Frequency Range: 1.8 - 54 MHz with 66 ft (20+ m) end-fed wire, 7 - 54 MHz with 8 ft (2.5 m) Mobile Whip Antenna • Input Impedance: 50-Ohms • Maximum Power: 100 Watts (3 minutes Maximum Continuous TX) • Matched SWR: 2.0:1 or less (if antenna is not a multiple of λ/2) • Tune-up Power: 4 W ~ 60 W • Tune-up Time: 8 seconds maximum • Impedance Matching Memories: 200 channels • Power supply: 13.8 V DC ±15% (supplied from transceiver) • Case Size (WHD): 9" x 7" x 2.1" (228 x 175 x 55 mm) • Weight: 2.6 lbs. (1.2 kg)</p>
160m Band RF µ-Tune Kits A	80/40m Band RF µ-Tune Kits B	30/20m Band RF µ-Tune Kits C											
													

• Up to three/3 µ-Tune Kits may be installed. All and any µ-Tune Kits shall be installed by the users.

About this brochure: we have made this brochure as comprehensive and factual as possible. We reserve the right, however, to make changes at any time to equipment, optional accessories, specifications, model numbers, and availability. Precise frequency range may be different in some countries. Some accessories shown herein may not be available in some countries. Some information may have been updated since the time of printing; please check with your Authorized Yaesu Dealer for complete details.

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