New Exciting Yaesu Field Gear

HF/50 MHz 100 W All Mode Transceiver



- Rugged construction in an Ultra Compact body 6.1" x 2.0" x 8.6" (155 x 52 x 218 mm)
- Stable 100 W Power Output with efficient Dual Internal fans
- Legendary Yaesu Receiver Design
- Triple conversion with a 1st IF frequency of 69.450 MHz
- 3 kHz roofing filter equipped as standard
- Detachable Front Panel for convenient mounting Specifically designed External Antenna Tuner and operation

ENAN BILC

- Large dot matrix LCD display with **Quick Spectrum Scope**
- Ease of Operation

FAST

- Large diameter Main Tuning Dial (1.6"/ 41 mm) with Torque adjustment
- Pop-up Menu for quick and easy operation
- Multi Function Knob
- Large Transmit/Receive indicator
- Three Programmable Front Panel Function Keys
- FC-50 (option)



Measuring 6.1" x 2.0" x 8.6" (155 x 52 x 218 mm), The FT-891 is an innovative Multi-band, Multi-mode Mobile/Portable transceiver with Ultra Compact and rugged case design.

Front Panel (Actual size) >>>>>

100 Watts Reliable High Power Output

The FT-891 provides stable 100W (25W AM) high power output. High reliability is assured by the transmitter careful circuit design with efficient thermostatically-controlled Dual internal fans and the diecast chassis.



VARET

Thermostatically-controlled Dual Internal fans

IF DSP provides effective and optimized QRM rejection

The 32 bit high speed floating Point DSP (max 3000 MIPS) provides effective cancellation/ reduction (DNR) of the random noise that is frequently frustrating in the HF frequencies. Also: the AUTO NOTCH (DNF) automatically eliminates the dominant beat tone. The CONTOUR, and the APF, are very effective receiver noise reduction tools in the HF bands operations. The YAESU original DSP QRM and noise reduction functions are provided.

Automatic-Matching 100 Memory Antenna Tuner (Option)

The FC-50 is a microprocessor-controlled antenna tuner that is designed specifically for the FT-891. The FC-50 can be easily coupled with the FT-891.

Specifications

 General 	
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Frequency Range	Tx: 1	Tx: 1.8 - 54 MHz (Amateur bands only)			upply voltage 13.8		VDC ±15%, negative ground	
	Rx: \$	x: 30 kHz - 56 MHz			Current Consumption Rx: 2		0 A (signal present)	
Channel Step	2/5/	10 Hz (SSB, CW), 10/100 Hz	(typic	(typical) Tx: 2		BA		
Frequency Stability	uency Stability SSB/CW/AM: ±0.5 ppm [14 °F to +122 °F (-10 °C to +50 °C)]			Operating Temperature Range		14 °F	to +122 °F (-10 °C to +50 °C)	
	FM:	FM: ±1 kHz[14 °F to +122 °F (-10 °C to +50 °C)]			Case Size (WxHxD) 6.1		2.0" x 8.6"	
Modes of Emission	A1A	A1A (CW), A3E (AM), J3E (LSB, USB), F3E (FM)				(155)	< 52 x 218 mm) w/o knobs	
Antenna Impedance 50 Ohms, unbalanced				Weig	ight (Approx.) 4.18 lb (1.9 kg)			
 Transmitter 								
Output Power	SSB.	SSB/CW/FM: 100 W (AM: 25 W) Spurious Radia			Better than -50 dB (1.8 MHz - 30 MHz Amateur bands),			
Modulation Type	J3E(SSB)/A3E(AM)/F3E(FM)				Better than -63 dB (50 MHz Amateur bands)			
Maximum Deviation ±5 kHz (Wide)/±2.5 kHz (Narrow) Microphone Impedance 600 Ohms (2							0 kOhms)	
 Receiver 								
Circuit Type		SSB/CW/AM: Triple-conversion	n Superheterod	yne	Selectivity	Mode	-6 dB / -60 dB	
		FM: Double Conversion Superheterodyne			SSB/CW		2.4 kHz or better /3.6 kHz or less	
Intermediate		SSB/CW/AM: 1st: 69.450 MHz/2nd: 450 kHz/3rd: 24 kH		kHz	CW-N		500 Hz or better /750 Hz or less	
Frequencies		FM: 1st: 69.450 MHz/2nd: 450 kHz			AM		6 kHz or better / 15 kHz or less	
Sensitivity						FM	12 kHz or better / 30 kHz or less	
SSB/CW (S/N 10 dB)		0.158 µV (1.8 - 30 MHz), 0.125 µV (50 - 54 MH		MHz)	Maximum AF Output		2.5 W 4 ohms with 10% THD	
AM (S/N 10 dB)) 5 μV (0.5 - 1.8 MHz), 1.6 μV (1.8 - 30 MHz), 1.25 μV (50 - 54 MHz)			Audio Output Impedance		4 to 16 Ohms (8 Ohms: nominal)	
FM (12 dB SINAD)		0.35 µV (29 MHz, 50 - 54 MHz)			Conducted Radiation		Less than 4 nW	

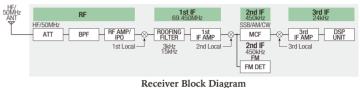
Yaesu Uncompromising Receiver Circuit Design Ensures Excellent Performance

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- Triple conversion with a 1st IF TCXO provides ± 0.5 ppm High frequency of 69.450 MHz (SSB/CW/AM) frequency stability (-10°C to +50°C)
- 3 kHz roofing filter equipped as standard

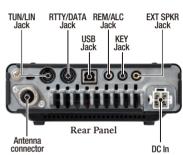


Features

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- Large dot matrix LCD display with Quick Spectrum Scope
- Three Programmable Front Panel Function Keys are selectable to the user's personal preferences
- USB port allows connection to a PC with a single cable (CAT control, PTT/RTTY control)
- TUN/LIN connector allows connection of optional FC-50 or VL-1000
- Advanced electronic keying (4 to 60 WPM) with FULL BK-IN support
- Support Active-Tuning Antenna system (ATAS-120A, ATAS-25 :Option)



Supplied Accessories: Microphone MH-31A8J, Mobile Mounting Bracket and DC power cable
 Option



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 in 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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32-bit High Speed Floating Point DSP