ULTRA COMPACT DESIGN

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

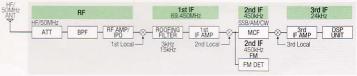
The FT-891 provides stable 100W (25W AM) high power output. High reliability is assured by the transmitter careful circuit design with efficient thermostatically-controlled Dual internal fans and the diecast chassis.



Thermostatically-controlled Dual Internal fans

Yaesu Uncompromising Receiver Circuit Design Ensures Excellent Performance

- 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



Receiver Block Diagram

▶ 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.

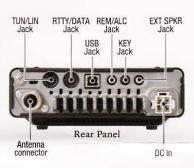


32-bit High Speed Floating Point DSP



Features

- · 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 PWM) 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 »

Specifications



SSB/CW/AM: Triple-conversion Superheterodyne FM: Double Conversion Superheterodyne SSB/CW/AM: 1st: 69.450 MHz/2nd: 450 kHz/3rd: 24 kHz FM: 1st: 69.450 MHz/2nd: 450 kHz SSB/CW (S/N 10 dB) 0.158 µV (1.8 - 30 MHz), 0.125 µV (50 - 54 MHz) 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) FM (12 dB SINAD) 0.35 µV (29 MHz, 50 - 54 MHz)

Better than -63 dB (50 MHz Amateur bands) SSB/CW 2.4 kHz or better /3.6 kHz or less CW-N 500 Hz or better /750 Hz or less AM 6 kHz or better / 15 kHz or less FM 12 kHz or better / 30 kHz or less 2.5 W 4 ohms with 10% THD Maximum AF Output Audio Output 4 to 16 Ohms (8 Ohms: nominal) Impedance Conducted Radiation Less than 4 nW



Option

MH-31A8J** Hand Microphone

ATAS-25

Antenna

Active Tuning



DTMF Microphone



Ultra-High-Fidelity Desktop Microphone



MD-100A8X



Desktop Microphone

Lightweight Stereo Headphone

VL-1000 : Linear Amplifier (1 kW) VP-1000: Power Supply

CT-58: Connection cable for VL-1000

1 The same as the supplied accessory



ATBK-100

Antenna Base Kit



Front Panel Separation Kit (Front Panel Bracket, Control cable, Mic Extension cable and Speaker Extension cable included)

FC-50 Automatic Antenna Tune

Keypad

ATAS-120A Active Tuning Antenna





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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