New Exciting Yaesu Field Gear

HF/50 MHz 100 W All Mode Transceiver

FT-891

- 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
- and operation

- Large dot matrix LCD display with Quick Spectrum Scope
- Ease of Operation
 - 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
- Detachable Front Panel for convenient mounting Specifically designed External Antenna Tuner FC-50 (option)



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

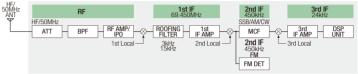
The FT-891 provides stable 100W (25W AM) high power output. High reliability is assured by the transmitter careful circuit design with efficient thermostatically-controlled Dual internal fans and the diecast chassis.



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)

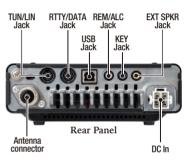
The FC-50 is a microprocessor-controlled antenna tuner that is designed specifically for the FT-891. The FC-50 can be easily coupled with the FT-891.

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 WPM) with FULL BK-IN support
- Support Active-Tuning Antenna system (ATAS-120A, ATAS-25 :Option)



Specifications

General

| Frequency Range | Tx: | : 1.8 - 54 MHz (Amateur bands only) | | | Supply voltage 1 | | 13.8 VDC ±15%, negative ground | |
|---|---|---|------------------|-------------------|--|-------------------------------|-------------------------------------|--|
| | Rx: | : 30 kHz - 56 MHz | | | Current Consumption Rx | | 0 A (signal present) | |
| Channel Step | 2/5 | 2/5/10 Hz (SSB, CW), 10/100 Hz (AM, FM) | | | (typical) Tx: 23 | | BA | |
| Frequency Stability | SSE | B/CW/AM: ±0.5 ppm | | Operating | | 4400 | to . 100 %F / 10 %C to . FO %C | |
| [1 | | 4 °F to +122 °F (-10 °C to +50 °C)] | | | Temperature Range | | 14 °F to +122 °F (-10 °C to +50 °C) | |
| F | | M: ±1 kHz[14 °F to +122 °F (-10 °C to +50 °C)] | | Case Size (WxHxD) | | 6.1" x | 2.0" x 8.6" | |
| Modes of Emission | A1A | A (CW), A3E (AM), J3E (LSB, USB), F3E (FM) | | | | (155 x 52 x 218 mm) w/o knobs | | |
| Antenna Impedance | 50 (| Ohms, unbalanced | lanced Weight (A | | ht (Approx.) | 4.18 l | b (1.9 kg) | |
| Transmitter | | | | | | | | |
| Output Power | SSB | SSB/CW/FM: 100 W (AM: 25 W) Spurious Radiation | | | Better than -50 dB (1.8 MHz - 30 MHz Amateur bands), | | | |
| Modulation Type | J3E(SSB)/A3E(AM)/F3E(FM) Better than -63 dB (50 | | | | | 50 MHz Amateur bands) | | |
| Maximum Deviation ±5 kHz (Wide)/±2.5 kHz (Narrow) Microphone Impedance 600 0hms (200 to 10 k0hms) | | | | | | | 0 kOhms) | |
| • Receiver | | | | | | | | |
| Circuit Type | | SSB/CW/AM: Triple-conversion Sup | perheterody | /ne | Selectivity | Mode | -6 dB / -60 dB | |
| | | FM: Double Conversion Superheter | rodyne | | S | SB/CW | 2.4 kHz or better /3.6 kHz or less | |
| Intermediate | | SSB/CW/AM: 1st: 69.450 MHz/2nd: 450 kHz/3rd: 24 kHz | | 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 | |
| | | 0.158 μV (1.8 - 30 MHz), 0.125 μV (50 - 54 M | | 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), | | | Audio Output | | 4 to 16 Ohms (8 Ohms: nominal) | |
| 511 (10 ID 00) | | 1.25 μV (50 - 54 MHz) | | | Impedance | | , , | |
| FM (12 dB SINAD) | | 0.35 μV (29 MHz, 50 - 54 MHz) | | | Conducted Radiation | | Less than 4 nW | |

Option



MH-36E8J DTM Microphone Microphone



MD-200A8X Ultra-High-Fidelity Desktop Microphone

MD-100A8X Desktop



Lightweight Stereo Headphone Microphone

VL-1000 : Linear Amplifier (1 kW) VP-1000 : Power Supply CT-58: Connection cable for VL-1000

FC-40

FC-50

ATAS-120A Active Tuning

ATAS-25

ATBK-100 Active Tuning Antenna Base Kit

Antenna *1 The same as the supplied accessory

Automatic Antenna Tuner

(Front Panel Bracket,

Control cable, Mic Extension

cable and Speaker

Extension cable included)

Automatic Antenna Tune YSK-891 Front Panel Separation Kit

FH-2 Remote Control

Keypad

CT-39A

Packet Interface

Cable

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.

─ YAESU MUSEN CO., LTD. http://www.yaesu.com/jp ·

Tennozu Parkside Building

2-5-8 Higashi-Shinagawa, Shinagawa-ku, Tokyo 140-0002, Japan

YAESU USA http://www.yaesu.com

US Headquarters 6125 Phyllis Drive, Cypress, CA 90630, U.S.A.

YAESU UK http://www.yaesu.co.uk

Unit 12, Sun Valley Business Park, Winnall Close Winchester, Hampshire, SO23 0LB, U.K.