144/430 MHz FM DUAL BAND TRANSCEIVER

FT-8800R/E

E for European Version

Easy Operation with The Ultimate Dual-Band Mobile
If you’re ready for the best in a Dual-Band FM Mobile Transceiver... the Yaesu FT-8800 series is ready for you!

144/430 MHz
DUAL BAND

*Simulated LCD display
**HIGH PERFORMANCE**

- **WIDE FREQUENCY COVERAGE**
  The FT-8800 series provides extended receiver coverage beyond the Amateur bands, so you can keep informed of communications activity in the public safety, commercial, aircraft, and broadcast bands.

- **INDEPENDENT TWO-CHANNEL OPERATION**
  The FT-8800 series operates as two radios in one, with either 144 MHz or 430 MHz as the “Main” TX/RX band, with simultaneous monitoring of the other band. Each band has its own Volume and Squelch controls, and you can configure your FT-8800 series for VHF/VHF or UHF/UHF operation, too.

- **HIGH POWER OUTPUT**
  To get your message through when it counts, the FT-8800 series puts out a full 50 Watts of power on the 144 MHz band, and 35 Watts on 430 MHz. A thermal sensor monitors heat sink temperature, engaging the rear panel’s cooling fan only when needed.

- **OVER 1000 MEMORY CHANNELS**
  The FT-8800 series provides a wide variety of memory resources, including 1212 “regular” memories each band, five “Home” channels for favorite frequencies, ten sets of band-edge memories each band, and six “Hyper Memories” which store complete sets of transceiver operating status.

- **LARGE, EASY-TO-READ LIQUID CRYSTAL DISPLAY (LCD)**
  Affording easy viewing from a wide variety of viewing angles, the LCD of the FT-8800 series features Yaesu’s renowned Omni-Glow™ display illumination, with four illumination levels available for different operating environments.

- **CROSS-BAND REPEAT CAPABILITY**
  For emergency work, or to extend the range of a handheld unit, the FT-8800 series includes Cross-Band Repeat capability, similar to that pioneered on our popular FT-8100 series Dual Band FM Mobile!

- **ONE-TOUCH BAND-PATTERN “HYPER MEMORY” FEATURE**
  To save valuable time when operating a transceiver with the capability of the FT-8800 series, the “Hyper Memory” feature allows you to store a complete set of configuration data for the two bands on which you’re operating. Hyper Memory will store not only frequency and tone data, but also Automatic Repeat Shift status, Packet parameters, Scanning mode, and VFO tracking configuration.

- **VERSATILE SCANNING CAPABILITY**
  The FT-8800 series lets you scan the memories, the entire operating band, or a portion of the band. The transceiver will stop on signals encountered during the scan, resuming the scan after a time delay or after the carrier drops out. During band scanning, you may configure the FT-8800 series to remain within the current band, or hop to the other band, once the band edge is reached. Dual-frequency “Priority Channel” operation is also provided. And the Programmable Memory Scan feature allows you to set up sub-band limits, so you won’t waste time scanning or tuning in the SSB/CW portions of the bands.

- **50-TONE CTCCS/SCD (DIGITAL CODE SQUELCH) TONE SYSTEMS**
  Providing excellent performance even under difficult link conditions, Yaesu’s 50-tone sub-audible CTSS and 104-tone DCS signaling systems ensure that you have full access to repeater and remote-base inputs, and the built-in CTCCS/DCS decoders allow silent listening on busy channels. Plus you get Tone Search Scanning, which will scan for the tone being received on an incoming signal, allowing you to match tones quickly when operating on a new repeater system.

- **ARTS™ (AUTO-RANGE TRANSPONDER SYSTEM)**
  Included in the FT-8800 series is Yaesu’s exclusive ARTS™ feature which provides a “handshake” with other ARTS™-equipped stations during emergency work. An “out-of-range” condition exists for, example, a low-power hand-held unit, ARTS™ will alert the FT-8800 series user so the hand-held’s operator can be advised to move to a better location.

- **USER-PROGRAMMABLE MICROPHONE KEYS**
  Four programmable keys on the microphone allow you one-touch access to your favorite configuration and functions. The commands available from the microphone replicate the corresponding front panel key functions, and include Band Change, VFO/Memory switching, Memory Channel access, 1 MHz frequency steps, Power Output selection, Repeater Reverse, and CTCSS/DCS setup.

- **CONVENIENT REMOTE-HEAD MOUNTING CAPABILITY**
  With the FT-8800 series and its optional YSK-8900 Separation Kit, mounting your radio is a breeze even in the tightest locations. The YSK-8900 includes a 20-foot (6 m) remote cable and mounting bracket for the front panel.

- **SMART SEARCH™ AUTOMATIC MEMORY LOADING**
  The Smart Search™ feature may be used to load – automatically with no operator intervention – a special memory bank of up to 25 memory channels per band on which activity is detected. Smart Search™ will sweep the band, looking for channels on which activity may be found, and will load busy channels into special “soft” memories.

- **EASY SETUP FOR FM SATELLITE OPERATION**
  For operating on FM satellites like UO-14, the versatile memory system of the FT-8800 series allows you to store a set of uplink and downlink frequencies that account for Doppler shift over the entire horizon-to-horizon pass, allowing you to select the optimum uplink/downlink combination effortlessly.

**AND MUCH, MUCH MORE!**

- **Convenient Access to WIRELESS™ and Other Internet-Linking Systems**
  FT-8800 series BPG Packet Capability: Connect your TNC using the optional CT-39A Packet Cable. Automatic Repeater Shift: Automatically sets the repeater shift within the designated repeater sub-bands. RF Squelch: Opens the squelch at a user-defined S-Meter level. Automatic Power-OFF (APO): Turns radio off after long periods of inactivity. Time-Out Timer (TOT): Prevents “Stuck Microphone” from causing lengthy QRM to others. Battery Voltage Meter: Lets you know if your battery is getting low. DTMF Auto-Dial Memory: 16 memories of up to 16 tones each. Lock Feature for Front Panel Keys & TPT Switch: Prevents accidental transmission or frequency change. Built-in Duplexer

**SPECIFICATIONS**

- **General**
  - Frequency Range: RX:108.000 - 520 MHz, (USA Version) 700 - 999.995 MHz (Cellular Blocked) 430.500 - 450.000 MHz
  - Operating Modes: P3, F2, F1
  - Antenna Impedance: 50 Ω, unbalanced (Antenna Duplexer built-in)
  - Frequency Stability: ±5 ppm @ 14 F ~ +140 F ~ +40 F ~ -10 C ~ -60 C
  - Operating Temperature Range: -4 F ~ +140 F ~ +40 F ~ -10 C ~ -60 C
  - Supply Voltage: 13.8 V DC (±15%, negative ground)
  - Current Consumption (Approx): RX: 6.5 A (Squelched), RX: 9.0 A (430 MHz), RX: 8.5 A (144 MHz)
  - Case Size (W x H x D): 5.5” x 1.6” x 6.6” (140 x 41.5 x 168 mm)
  - Weight (Approx.): 2.2 lb (1.0 kg)

- **Transmitter**
  - Power Output: 50/20/10/5 W (144 MHz), 35/20/10/5 W (430 MHz)
  - Modulation Type: AM, FM
  - Maximum Output Power: 275 W (430 MHz), 100 W (144 MHz)
  - Spurious Radiation: 20 dB below carrier
  - Modulation Distortion: Less than 3%
  - Microphone Impedance: 2 kΩ
  - Data Jack Impedance: 10 kΩ
  - Receiver
    - Circuit Type: Superhet
    - Intermodulation (continuous wave sine wave into channel 1) 50 MHz
    - AM Speed (20 MHz deviation, 100 mV input at carrier): 50 KHz
    - AM Speed (100 kHz deviation, 100 mV input at carrier): 70 KHz
    - AM Speed (1 MHz deviation, 100 mV input at carrier): 100 KHz
    - AM Speed (3 MHz deviation, 100 mV input at carrier): 200 KHz
    - AM Speed (5 MHz deviation, 100 mV input at carrier): 400 KHz
    - AM Speed (10 MHz deviation, 100 mV input at carrier): 800 KHz
  - Receiver Sensitivity
    - RF Sensitivity: Better than 0.2 μV
    - Q-Noise: Better than 0.16 s
  - Receiver Detector: Intermodulation (continuous wave sine wave into channel 1) 50 MHz: 40 dB

- **Radio Features**
  - Frequency Accuracy: ±0.2% within ±1 ppm
  - Frequency Stability: ±5 ppm @ 14 F ~ +140 F ~ +40 F ~ -10 C ~ -60 C
  - Spurious Radiation: Better than 60 dB
  - AM Rejection: 86 dB
  - Frequency Synthesizer: 50-100 MHz
  - Frequency Change Period: 360s
  - Transmitter Duty Cycle: 30%

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