

FT-480R

TOTAL PERFORMANCE VHF COMPUTERIZED TRANSCEIVER



FT-480R TOTAL PERFORMANCE VHF COMPUTER

The FT-480R is the transceiver you've been waiting for. Sophisticated microprocessor control circuitry brings a new dimension of flexibility to you — today's active 2 meter operator.

FEATURES

■ All Mode Full Coverage

The FT-480R provides operation on all modes — SSB, CW, and FM — over the entire 2 meter amateur band. The heart of the FT-480R is a 4-bit microprocessor, which performs complex control operations, while you just flick a switch.

■ Advanced PLL Circuitry

PLL synthesized channels are provided in three steps, as shown below:

MODE \ STEP	S	M	F
SSB, CW	10 Hz	100 Hz	1 KHz
FM (USA MODEL)	1 KHz	20 KHz	100 KHz

■ Two VFO's

The FT-480R features a digitally synthesized dual VFO system, which may be used for unusual repeater splits. Channel selection is provided in 100 Hz steps.

■ Four Memory Channels

As many as four Memory Channels may be programmed for instant recall of any frequency. One of the Memory Channels may be used as a priority channel, as well, and the microprocessor will then search between the priority channel and your main dial

frequency every five seconds. A scan position allows scanning of all four Memory Channels.

■ Scanning Microphone Feature

QSY with fingertip ease by just pressing a switch on the microphone. No more reaching for a channel selector while driving in heavy traffic!

■ Digital Frequency Readout

The digital display uses 7 in-line long life display tubes for maximum readability, with resolution to 100 Hz.

■ SAT Switch

Operation on the amateur satellites is possible, using an external receiver in addition to the FT-480R. The "SAT" switch allows precise zeroing of the transmit frequency to compensate for the Doppler effect.

■ Clarifier

The Clarifier switch allows offset of the receive frequency via the main dial in 10 Hz or 100 Hz steps. The Clarifier function will not affect the transmit frequency.

Available option: FTS-64/E Tone Encoder
Supplied accessories: Scanning microphone and mobile mounting bracket

CONTROLS AND SWITCHES

■ Bright display indicates your operating frequency and memory channels.

■ CLAR LED lights up when clarifier is on.

■ BUSY/MOD LED lights up when a signal is being received and during FM transmissions.

■ ON AIR LED lights up during transmission.

■ Bright LED level meter indicates signal strength.

■ VOL and SQL controls on concentric shafts.

■ Easy selection of memory channels.

■ Main dial channel steps are selected by



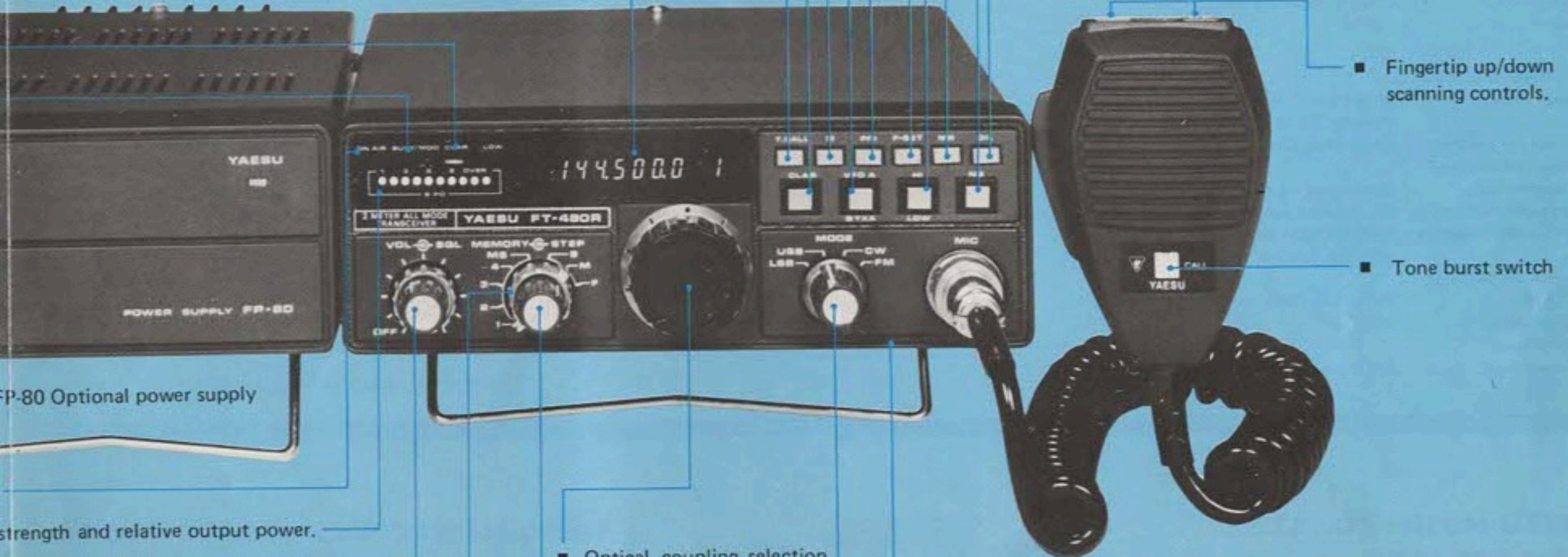
IZED TRANSCEIVER



YAESU

- Priority channel allows you to watch a favorite channel.
- This button allows split operation.
- Store your desired frequencies into memory channels.
- Receiver offset tuning for precise zeroing on the main dial.
- Built-in tone burst for repeater operation.
- Press this button to clear steps when changing modes.
- HI/LOW power selection for CW and FM transmissions.
- Push this button to recall frequencies from memory.
- Effective noise blanker eliminates pulse noise from ignition system.
- Push this switch to return frequency control to main dial.

quency



PP-80 Optional power supply

strength and relative output power.

rafts for total operator convenience.

rotating this knob.

- Optical coupling selection of channels eliminates noisy, unreliable rotary switches.

- Built-in semi-break-in and sidetone for CW operation.
- All mode operation: SSB, CW, and FM

- Fingertip up/down scanning controls.

- Tone burst switch

SPECIFICATIONS: FT-480R

GENERAL

Frequency coverage:	144.00 MHz – 148.00 MHz 144.00 MHz – 146.00 MHz (per your local regulations)
Mode of operation:	USB, LSB, CW, and FM
Synthesizer steps:	SSB, CW: 10 Hz, 100 Hz, 1 KHz *FM: 1 KHz, 20 KHz, 100 KHz *(Steps vary per local use)
Power requirements:	13.8 volts DC, negative ground
Current consumption:	0.5 Amps receive 3.0 Amps transmit
Antenna impedance:	50 ohms
Case size:	60(H) x 180(W) x 240(D) mm
Weight:	2.6 Kg

TRANSMITTER

Power input:	30 watts PEP for SSB 30 watts DC for CW, FM
Carrier suppression:	Better than 40 dB
Unwanted sideband suppression:	Better than 40 dB
Spurious emissions:	60 dB below carrier (Minimum)
Tone burst frequency:	1800 Hz (USA Model) 1750 Hz (Europe, etc.)
Frequency response (SSB):	300 – 2700 MHz (–6 dB)
FM deviation:	±5 KHz
Microphone impedance:	600 ohms

RECEIVER

Sensitivity:	SSB/CW 0.5 μ V for 20 dB S/N FM 0.35 μ V for 20 dB quieting
Selectivity:	SSB/CW: 2.4 KHz at 6 dB 4.1 KHz at 60 dB FM: 14 KHz at 6 dB 25 KHz at 60 dB
Image rejection:	Better than –60 dB
Audio output impedance:	8 ohms nominal
Audio output:	2.0 watts @ 10 % THD

FP-80 POWER SUPPLY

The FP-80 provides the 13.8 volt DC power required by your FT-480R transceiver. For excellent regulation, choose the FP-80 for your station. See your Yaesu dealer today!

SPECIFICATIONS: FP-80

Output voltage:	13.8 VDC ±10%
Output current:	4 amps @ 50% duty cycle
Input voltage:	100/110/117/200/220/234 VAC 50/60 Hz
Size:	57 (H) x 118 (W) x 237 (D) mm
Weight:	2.2 Kg

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Specifications subject to change without notice.

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