

PORTABLE MICROPROCESSOR-CONTROLLED MULTIMODE TRANSCEIVERS

FT-290R FT-690R FT-790R



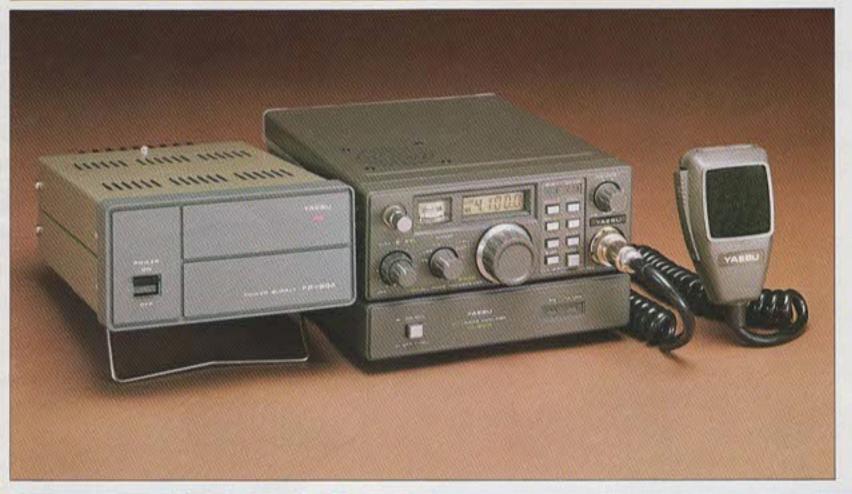
PORTABLE MICROPROCESSORCONTROLLED MULTIMODE TRANSCEIVERS

Yaesu is proud to present a new concept in VHF and UHF operating. These are fully self-contained portable transceivers, providing full-feature multimode performance from an internally powered package smaller than many FM-only units. Powered by Ni-Cd or alkaline C-cells, these transceivers offer power output of 2.5 watts (VHF) or 1 watt (UHF), giving excellent range for field station applications.



FT-290R

FT-290R/FL-2010/FP-80A



FEATURES

Multimode Operation

Never before possible from such a compact package, multimode operation is yours to enjoy with the FT-290R, -690R and -790R. The FT-290R and -790R include USB, LSB, CW, and FM operation, while the FT-690R is designed for USB, CW, AM, and FM. With CW and SSB activity at an all-time high, you won't be left out of the satellite or DX action!

Advanced Microprocessor Control

Recent technological advances in microprocessor circuitry bring you a wide variety of convenience features never before possible even in much bulkier transceivers.

Selectable synthesizer steps, up/ down scanning from the microphone, priority channel operation, and ten memories with memory scan can all be called up with fingertip ease.

LCD Readout

A large, easy-to-read Liquid Crystal Display provides display of the operating frequency, as well as indication of a number of control functions. The LCD readout, clearly visible under conditions of bright sunlight, is backed up by an illuminating lamp for nighttime operation while portable or mobile.

Programmable Synthesizer Steps

The optimum synthesizer steps for SSB/CW operation are very different from those used for channelized FM. That's why Yaesu gives you the flexibility of two synthesizer steps per mode: 100 Hz or 1 kHz on SSB and CW, and 5/10 kHz* on VHF and 25/100 kHz on UHF FM. (In some countries, 12.5/25 kHz steps are provided, per local requirements.) When changing modes from SSB/ CW to FM, the transceiver is automatically set to the nearest FM channel when you start scanning, so as not to miss standard channels because of the mode change.

* 10/20 kHz in FT-690R

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Dual VF

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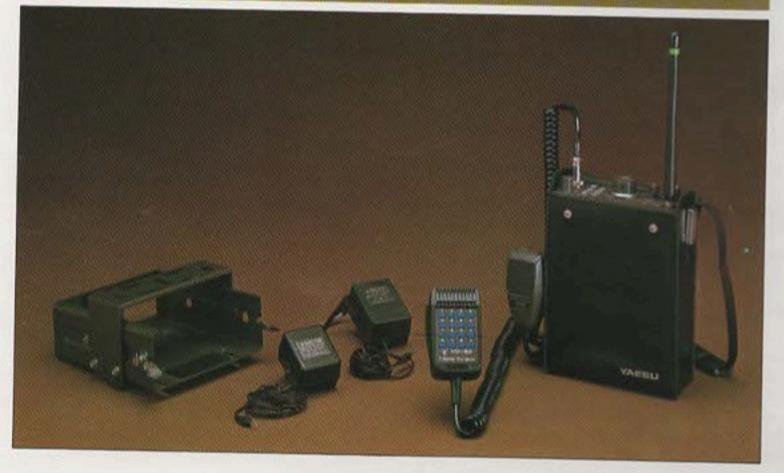
The radio.

FT-690R

FT-690R/FL-6010/MMB-11



ACCESSORIES





SPECIFICATIONS

Common to all Models

Power Requirements:

8 C-size alkaline or Ni-Cd battery cells External: 8.5-15.2 VDC

Memory backup: built-in lithium battery

Antenna impedance:

50 ohms

Case size:

58(H) x 150(W) x 195(D) mm

Weight:

1.3 kg without batteries

TX carrier suppression:

better than 40dB

TX unwanted sideband: better than 40dB down

TX audio response:

300-2700 Hz (-6dB)

TX FM deviation:

±5 kHz

Microphone impedance: 600 ohms

RX image rejection: better than -60dB

Audio output impedance: 8 ohms

Audio output power:

1 watt

Repeater Reverse Function available upon special request.

FT-290R

GENERAL

Frequency coverage (MHz): 144-146 or 144-148 (per local regulations)

Modes:

SSB (USB. LSB) CW and FM

Synthesizer steps: SSB/CW: 100 Hz/1 kHz FM: 5/10 kHz or 12.5/25 kHz

Antenna connector:

SO-239 type (on rear)

Current consumption: 70 mA receive

800 mA transmit (2.5W RF, FM)

TRANSMITTER

Power output: 2.5W at 12V

Spurious radiation:

better than -60dB

Tone burst frequency:

1800 Hz (U.S.A.) 1750 Hz (others)

RECEIVER

Circuit type: SSB/CW: single

conversion superhet FM: double

conversion superhet

Intermediate frequencies: 1st IF: 10.81 MHz 2nd IF: 455 kHz (FM)

Sensitivity: SSB/CW: 0.5 µV for 20dB S/N FM: 0.25 µV for 12dB SINAD

Selectivity:

SSB/CW: 2.4 kHz (-6dB) 4,1 kHz (-60dB) FM: 14 kHz (-6dB)

25 kHz (-60dB)

GENERAL

Frequency coverage (MHz): 50-54

SSB (USB) CW, AM and FM

Synthesizer steps: SSB/CW/AM:

100 Hz/1 kHz FM: 10/20 kHz

Antenna connector:

SO-239 type (on rear) Current consumption:

800 mA transmit (2.5W RF, FM)

TRANSMITTER

Power output:

2.5W at 12V

Spurious radiation: better than -60dB

Tone burst frequency: 1800 Hz

RECEIVER

Circuit type:

SSB/CW: single

conversion superhet

AM/FM: double

conversion superhet

Intermediate frequencies:

1st IF: 10.81 MHz 2nd IF: 455 kHz (FM)

SSB/CW/AM: 0.5 µV

for 20dB S/N FM: 0.25 µV for 12dB SINAD

SSB/CW: 2.4 kHz (-6dB)

4.1 kHz (-60dB)

AM: 4 kHz (-6dB)

15 kHz (-60dB) FM: 14 kHz (-6dB)

25 kHz (-60dB)

GENERAL

Frequency coverage (MHz): 430-440

Modes:

SSB (USB, LSB) CW and FM

Synthesizer steps: SSB/CW: 100 Hz/1 kHz

FM: 25/100 kHz

Antenna connector:

BNC

Current consumption:

100 mA receive

750 mA transmit (1W RF, FM)

TRANSMITTER

Power output: 1W at 12V

Spurious radiation: better than -50dB

Tone burst frequency:

1800 Hz (U.S.A.)

1750 Hz (others)

RECEIVER

Circuit type:

SSB/CW: double

conversion superhet

FM: triple

conversion superhet Intermediate frequencies:

1st IF: 67.3 MHz 2nd IF: 10.7 MHz

3rd IF: 455 kHz (FM)

SSB/CW: 0.16 µV

for 10dB S/N

FM: 0.25 µV for 12dB SINAD

Selectivity:

Specifications subject to change without notice or obligation.

SSB/CW: 2.4 kHz (-6dB)

4.1 kHz (-60dB) FM: 14 kHz (-6dB) 25 kHz (-60dB)



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