



DUAL BAND FM HANDIE TRANSCEIVER FT-727R

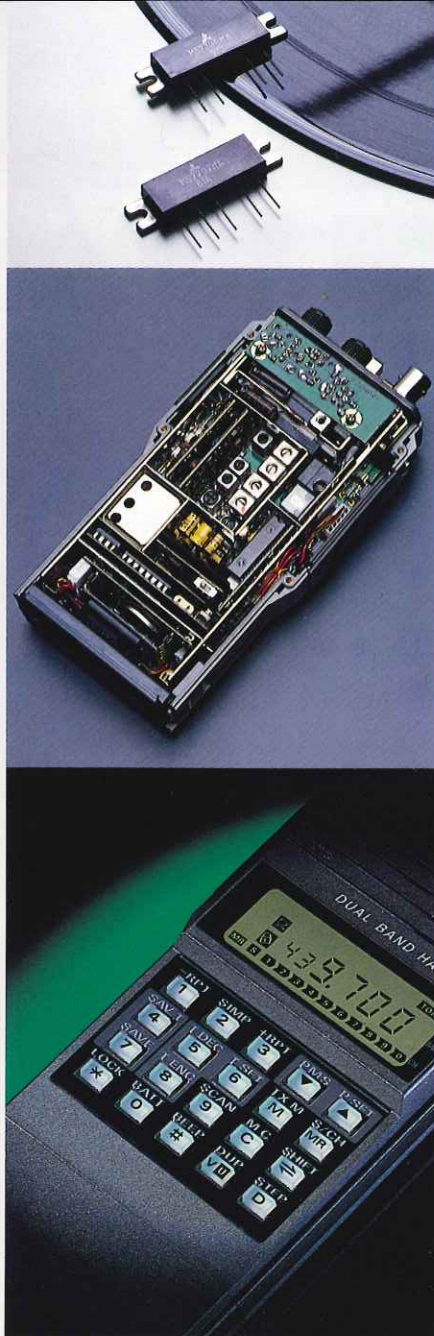


DESCRIPTION

The FT-727R is a completely self-contained VHF and UHF FM hand portable transceiver providing up to 5W or 0.5W RF output on user-selectable channel steps across both the 2m and 70cm (FM) amateur bands. Twenty dual-function keys on the front panel give the operator 40 different commands for programming the CMOS microprocessor at the heart of the FT-727R, markedly simplified and improved over previous models. Ten standard memories are provided, four of which allow storage of independent transmit and receive frequencies, for odd repeater splits or cross band operation, with touch-key reverse. In addition to the ten memories, an independent 'dial' memory and call channel memory are provided for each band. User settable repeater shifts can be activated on the dial or recalled memories.

The manual or auto-stop/resume scanning capabilities include step-programmable full or partial band or memory bank scanning; calling channel, select memory or dial priority scanning/monitoring, and other unique yet useful functions too numerous to list, but all programmable from the front panel keypad or remotely via the CAT* external computer jack. Even with all of these functions, operation remains simple: the CPU does the work for you, keeping the number of keystrokes to a minimum.

Operational battery charge life can be greatly extended over standard squelched reception when monitoring, with Yaesu's



programmable Power Saver System (now with digital display timer), which only activates the receiver to check the selected channel momentarily at programmable intervals.

The liquid crystal display includes a 10-step bar graph meter to indicate received signal strength and relative transmitter output power. Revolutionary features include a built-in digital voltmeter to display actual battery voltage, a latching lamp switch to illuminate both the display and each keypad button (continuously, when necessary), and of course the mini-CAT System, allowing entry of all keypad functions from an external computer.



**THE NEWEST BREAK-THROUGH
IN AMATEUR RADIO TECHNOLOGY:
CPU-CONTROLLED VHF AND UHF
IN THE PALM OF YOUR HAND.**

**DUAL BAND
FM HANDIE TRANSCEIVER**

FT-727R



When the optional FTS-6 Tone Squelch Unit is installed (model A only), any of 37 CTCSS tones may be selected from the keypad and stored in the memories. During programming, actual tone frequency (in Hz) is shown on the display. The state of the Tone Squelch (encode only, encode/decode or off) may also be programmed and stored in each channel. A DTMF encoder is included as standard in all versions, while a 1750 Hz burst tone generator is included as standard in European versions B and B1.

The top panel includes a high/low power, lamp and VOX on/off switches (for completely hands-free VOX operation with the optional YH-2 Headset). Other options include the FNB-3A (425mAh) and FNB-4A (500mAh) slide-on Ni-Cd battery packs, FBA-5A battery holder (for 6 AA-size dry cells), NC-15 Quick Charger/Adapter, NC-9B/C (for FNB-3) and NC-18B/C (for FNB-4) Compact Chargers, PA-3 Mobile Adapter/Trickle Charger, MH-12A2B Speaker/Mic, and MMB-21 Mobile Hanger. Except for antennas, accessories for the FT-203, FT-703, FT-209 and FT-709 models may be used with the FT-727R.

*CAT = Computer-Aided Transceiver. Allows remote programming and control of transceiver functions by external personal computer or controller.

SUPPLIED ACCESSORIES



YHA-27

Rubber Flex Antenna

DTMF Encoder (Built-in)

1750 Hz Burst Generator
(Models B, C & E only)

CSC-18

Soft Case (for FT-727R w/FNB-4)

OPTIONS

FNB-3A*	425 mAh Ni-Cd Pack
FNB-4A*	500 mAh Ni-Cd Pack
FBA-5A*	Dry Cell Battery case (for 6 AA cells)
CSC-17	Soft Case (for FT-727R w/FNB-3 or FBA-5)
CSC-18	Soft Case (for FT-727R w/FNB-4)
FTS-6	Tone Squelch Unit (Model A only)
YH-2	Headset (for VOX operation)
MH-12A2B	Speaker/Microphone
NC-9B/C	117/220 VAC Compact Charger (for FNB-3A)
NC-18B/C	117/220 VAC Compact Charger (for FNB-4A)
NC-15	Quick Charger/DC Supply
PA-3	DC Car Adapter/Trickle Charger
MMB-21	Mobile Hanger Bracket

*The "A" suffix on these battery packs denotes case color only. Battery packs with the same numbers without the "A" suffix may also be used.

Note: Certain options may be included as standard accessories according to local needs or popularity.



FTS-6



YH-2



MH-12A2B



NC-9B/C



NC-18B/C



NC-15



PA-3



MMB-21



FNB-3A*



FNB-4A*



FBA-5A*



CSC-18

SPECIFICATIONS

GENERAL

Frequency range: per local requirements
(see Model Chart)

Channel steps: per local requirements
(see Model Chart)

Mode: F3 (F3E)

Antenna: BNC female (special dual-band
YHA-27 rubber duck supplied)

Supply voltage: 6-15 VDC

Current: see Chart 1

Case size: 71 (W) x 200.5 (H) x 38 (D) mm
w/FNB-4A

Weight: Approx. 616 g w/FNB-4A

MODEL CHART

Model:	A	B	B1
Freq. range (VHF) (MHz) (UHF)	144 ~ 148 440 ~ 450	144 ~ 146 430 ~ 440	144 ~ 146 430 ~ 440
Ch. steps (VHF) (kHz) (UHF)	5/10 12.5/25	12.5/25 12.5/25	12.5/25 12.5/25
Std. Rptr (VHF) Shift (MHz) (UHF)	0.6 5	0.6 1.6	0.6 7.6

DTMF Encoder included as standard in version A
1750 Hz Burst Generator standard in versions B & B1
FTS-6 Tone Squelch Encoder/Decoder optional for Model A

RECEIVER (@10.8V)

Circuit type: Double conversion superheterodyne

First IF: 16.9 MHz

Second IF: 455 kHz

Sensitivity: 0.25 μ V for 12 dB SINAD;
1 μ V for 30 dB S+N/N

Selectivity: ± 7.5 kHz (-6 dB), ± 15 kHz (-60 dB)

Audio output: 450 mW into 8 ohms
for 10% THD, or better

CHART 1. Supply Current (mA)

with 10.8V supply				12.5V supply
Receive	Squelched	Power Save (1:2 ~ 1:18)	Transmit (High)(Low)	Transmit (High)(Low)
(VHF) 150	50	24 ~ 14	1300 550	1300 550
(UHF) 150	50	24 ~ 14	1350 600	1350 600

TRANSMITTER (@10.8V)

RF input/output: see Chart 2

Modulation: Variable reactance

Deviation: ± 5 kHz

Max. bandwidth: 16 kHz

Spurious response: -60 dB or better

Microphone: Condenser, 2 kilohms

CHART 2. RF Power (W) (w/50-ohm resistive load)

	(VHF)		(UHF)	
	Input	Output	Input	Output
FBA-5A*	3.5	2.0	3.5	2.0
FNB-3A	9.5	5.0	8.6	4.5
FNB-4A	13	5	11	5

*FBA-5A holds AA-size dry cells (6)

Specifications subject to change without notice.



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