

55
ICOM

VHF AND UHF TRANSCEIVERS

IC-F70DT

(P25 digital VHF transceiver with 10-keypad)

IC-F70T

(VHF transceiver with 10-keypad)

IC-F70DS

(P25 digital VHF transceiver without 10-keypad)

IC-F70S

(VHF transceiver without 10-keypad)

IC-F80DT

(P25 digital UHF transceiver with 10-keypad)

IC-F80T

(UHF transceiver with 10-keypad)

IC-F80DS

(P25 digital UHF transceiver without 10-keypad)

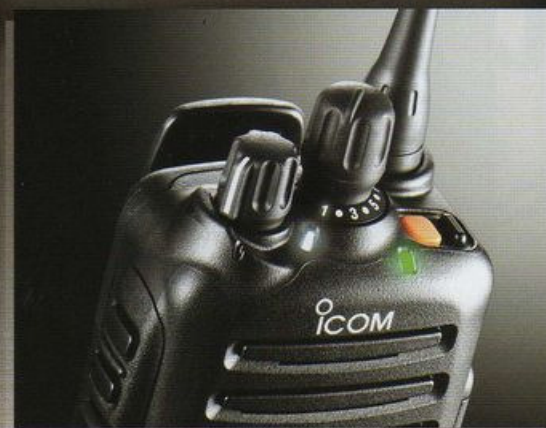
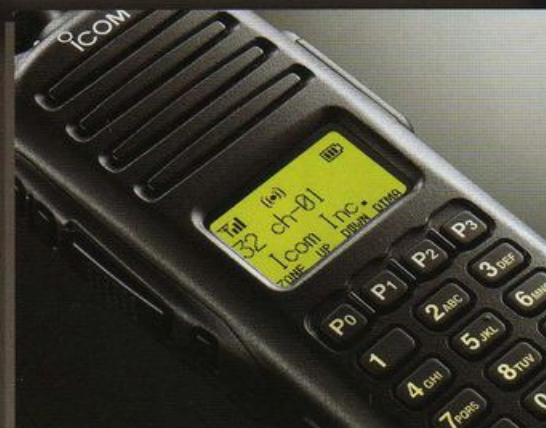
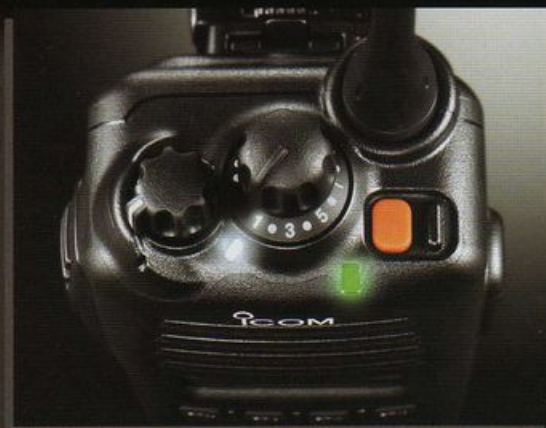
IC-F80S

(UHF transceiver without 10-keypad)

DIGITAL



IC-F70DT/DS, IC-F80DT/DS only.



BIIS 1200
Compatible

Submersible
1m depth for 30 minutes

Icom Inc.

SPECIFICATIONS

GENERAL

- Frequency range :
IC-F70T/S, F70DT/DS 136–174MHz
IC-F80T/S, F80DT/DS 400–470MHz
450–520MHz
- Number of channels : 256 channels/32 zones
- Channel spacing : 12.5kHz/25kHz, 15kHz/30kHz
- PLL channel step : 2.5kHz, 3.125kHz (VHF)
5kHz, 6.25kHz (UHF)
- Antenna impedance : 50Ω
- Usable temperature range : -30°C to +60°C; -22°F to +140°F
- Power supply requirement : 7.2V DC
- Output power and current drain (at 7.2V DC; approx.):

		IC-F70, F70D	IC-F80, F80D
Output power		5W	4W
	High	2.2A	2.4A
Transmit	Low (1W)	1.5A	1.5A
	AF max.	450mA	600mA
Receive	stand-by	150mA	150mA

- Dimensions (with battery pack): 58.6 (W) × 152 (H) × 38 (D) mm;
(projections are not included) 2⁵/₁₆ (W) × 5³/₃₂ (H) × 1¹/₂ (D) in
- Weight (approx.) : 400g; 14.1oz (with BP-235)
430g; 15.6oz (with BP-236)

TRANSMITTER

- Max. frequency deviation : ±5kHz (Wide)
±2.5kHz (Narrow)
- Frequency error : ±2.0ppm
- Spurious emissions : 70dB typ.
- Adjacent channel power : 70dB (Wide), 60dB (Narrow)
- FM Hum and Noise :
VHF 45/40dB typ. (Wide/narrow)
UHF 40/35dB typ. (Wide/narrow)
- Audio harmonic distortion : 3% typ. (AF 1kHz, 40% deviation)
- Modulation limiting : 60–100% of max. deviation
- Ext. microphone connector : 9-pin multi connector/600Ω

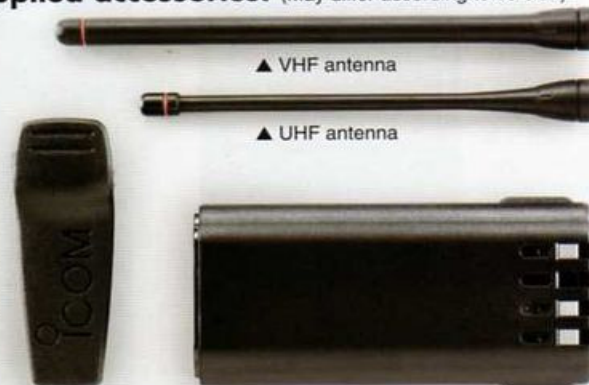
Measurements made in accordance with EIA-152C/204D, TIA-603.
All stated specifications are subject to change without notice or obligation.

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RECEIVER

- Intermediate frequency : 1st 46.35MHz 2nd 450kHz
- Sensitivity :
VHF 0.25μV typ. (at 12dB SINAD)
0.25μV typ. (5% BER APCO)
UHF 0.32μV typ. (at 12dB SINAD)
0.32μV typ. (5% BER APCO)
- Squelch sensitivity (at threshold) :
VHF 0.25μV typ.
UHF 0.32μV typ.
- Adjacent channel selectivity :
VHF 75/70dB typ. (Wide/narrow)
60dB typ. (APCO)
UHF 73/68dB (Wide/narrow)
60dB typ. (APCO)
- Spurious response :
VHF 80dB typ.
UHF 75dB
- Intermodulation : 75dB typ.
- Hum and noise ratio : 45/40dB typ. (Wide/narrow)
- Audio output power : 500mW typ.
(at 5% distortion with an 8Ω load)
- External speaker connector: 9-pin multi connector/8Ω

Supplied accessories: (May differ according to version)



• Alligator-type belt clip, MB-98

• Battery pack, BP-235

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