


ICOM

VHF FM TRANSCEIVER

IC-V85

General (LM) version

Compact, and 7W of power!

Rugged
MIL-STD 810

- Compact body - only 110mm tall
- Powerful 7W of output power for extending your communication range
- Durable body and water resistance, equivalent to IPX4 rating
- Large capacity Lithium-Ion battery pack provides 7 hours* of operating time
* Typical operation with Tx:Rx:Stand-by=1:1:8
- DC power jack for external DC operation
- 100 memory channels, 1 call channel and 6 scan edges
- 10 memory banks and bank link scan
- 5 character alphanumeric display
- Priority, program, memory, skip and tone scanning
- Built-in CTCSS and DTCSS encoder/decoder
- 16 DTMF autodial memories
- Optional DTMF decoder unit, UT-108, offers ANI and pager functions
- Optional voice scrambler, UT-109 or UT-110



Water resistance, equivalent to IPX4

DC power jack

Backlit LCD and keypad

SPECIFICATIONS

GENERAL

- Frequency coverage : 136-174MHz*
*Guaranteed range 144-148MHz
- Mode : FM
- No. of memory Ch. : 107 (incl. 6 scan edges and 1 call)
- Operating Temp. range : -10°C to +60°C; +14°F to +140°F
- Frequency stability : ±2.5ppm (-10°C to +60°C)
- Power supply : BP-226/BP-227 or requirement 11.0V ± 15% (External DC in)
- Current drain (at 7.2V DC):
Tx High (7W) 2.6A
Rx Max. audio 250mA
Stand-by 80mA
Power save 30mA
- Antenna impedance : 50Ω (BNC)
- Dimensions (W×H×D) : 56 × 110 × 34.4 mm;
(Projections not included) 2⁷/₃₂ × 4¹/₃₂ × 1¹/₃₂ in (with BP-227)
- Weight (approx.) : 310g; 12.5oz (with BP-227 and Ant.)

TRANSMITTER

- Output power (at 7.2V) : 7.0/4.0/0.5W (High/mid/low)
- Max. freq. deviation : ±5.0kHz
- Spurious emissions : Less than -60dBc
- External microphone connector : 3-conductor 2.5(d)mm (1/16") /2.2kΩ

RECEIVER

- Intermediate freq. : 46.35MHz/450kHz (1st/2nd)
- Sensitivity : Less than 0.2μV (at 12dB SINAD)
- Squelch sensitivity : Less than 0.16μV (threshold)
- Selectivity : More than 55dB
- Spurious and image rejection : More than 60dB
- Intermodulation : More than 55dB
- Audio output power : More than 300mW at 10% distortion with an 8Ω load
- Ext. speaker connector : 3-conductor 3.5(d) mm (1/8")/8Ω

- Supplied accessories** (*Not supplied with some versions)
- Battery case or battery pack*
 - Wall charger*
 - Antenna
 - Belt clip
 - Hand strap

Icom 2m handheld line-up



Applicable U.S. Military Specifications

Standard	MIL 810 F	
	Method	Procedure
Temperature Shock	503.4	I
Vibration	514.5	I
Shock	516.5	I, IV

Also meets equivalent MIL-STD-810-C, -D and -E.

All stated specifications are subject to change without notice or obligation.

OPTIONS

BATTERY PACK AND CASE



BP-226 BATTERY CASE
AA (LR6)×5 alkaline cells.
BP-227 Li-Ion BATTERY PACK
7.2V/1700mAh. Provides 7 hours operating time* (approx.).
* Tx: Rx: standby=1:1:8.

RAPID CHARGER



BC-119N DESKTOP CHARGER + AD-100 CHARGER ADAPTER + BC-145A/E/V AC ADAPTER
Rapidly charges the BP-227 in 2-2.5 hours. (approx.)

MULTI-CHARGER



BC-121N MULTI-CHARGER + AD-100 CHARGER ADAPTER + BC-157 AC ADAPTER
Rapidly charges up to 6 battery packs (Six AD-100s are required) in 2-2.5 hours.

CIGARETTE LIGHTER CABLE



CP-19R : Cigarette lighter cable with DC-DC converter. 11.7- 15.9V DC required.

CARRYING CASE



LC-167 : Helps protect the transceiver from scratches, etc.

SPEAKER-MICROPHONES



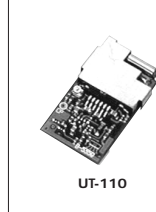
HM-75A : Allows you to remotely select operating channels, etc.
HM-158L : Compact and durable body with screw-type connector.
HM-159L : Full size durable speaker microphone.
HM-153L : Durable earphone-microphone.
HM-128L : Light weight and compact earphone-microphone.

HEADSETS AND PTT/VOX UNIT



HS-94 : Earhook headset with flexible boom microphone.
HS-95 : Behind-the-head headset with flexible boom microphone.
VS-1L : PTT/VOX unit. Required when using the HS-94 or HS-97 with the transceiver.
HS-85 : For hands-free operation. Includes VOX, PTT and "one-touch" PTT with a time-out timer.

INTERNAL UNITS



UT-108 DTMF DECODER
Provides DTMF decode and ANI capabilities.
UT-109/UT-110 VOICE SCRAMBLER UNITS
Provides operating security.
UT-109: Non rolling type. (#01)
UT-110: Rolling type. (#01)

BC-167A/D WALL CHARGER
Charges the BP-227 in 12-13 hours (approx.). Same as supplied with some versions.

CS-V85 CLONING SOFTWARE + OPC-478/UC CLONING CABLE
Provides quick and easy programming of memory channel, names, etc. OPC-478UC is a USB cable type.

OPC-474 CLONING CABLE
Use for transceiver-to-transceiver data cloning.

FA-B2E VHF ANTENNA
Same as supplied.

MB-98 BELT CLIP
Alligator type clip. Same as supplied.

SP-13 EARPHONE
Provides clear audio even in noisy environments.

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