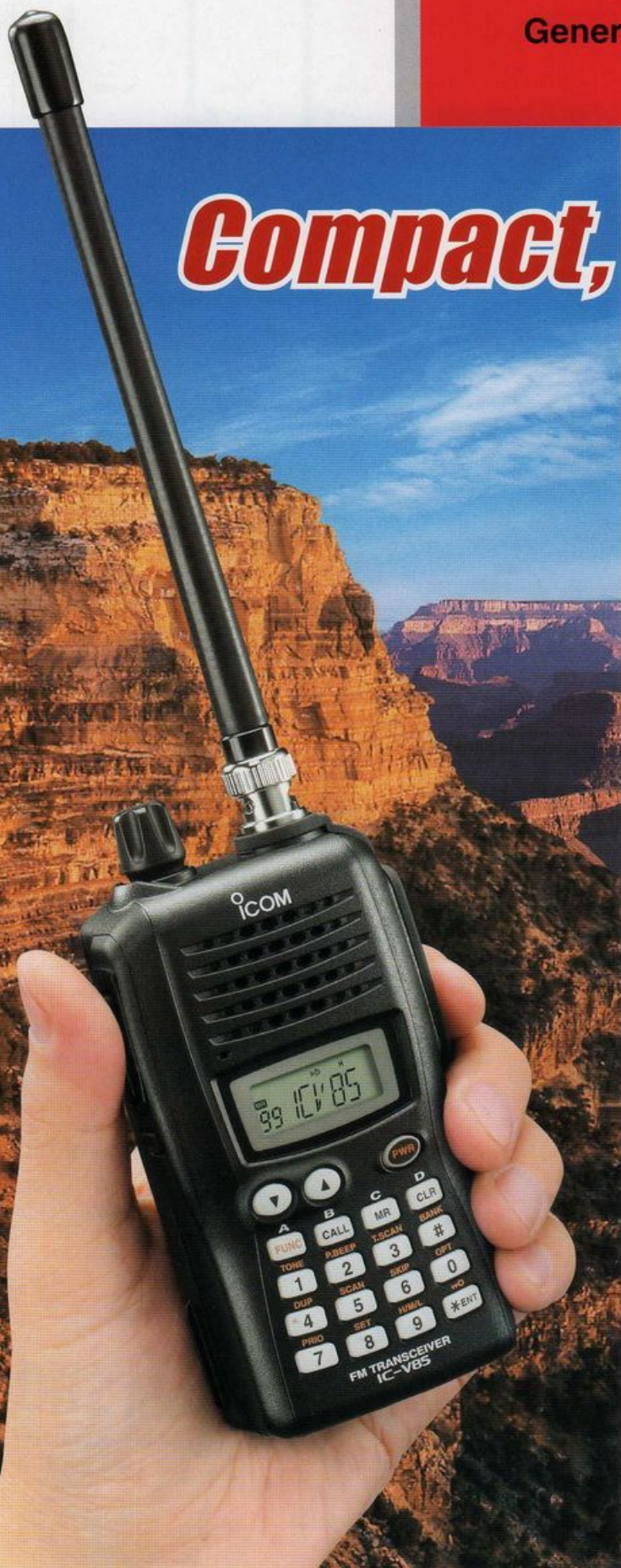


# IC-V85

General (LM) version

## *Compact, and 7W of power!*

- 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 DTCS 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) 2<sup>1</sup>/<sub>2</sub> × 4<sup>1</sup>/<sub>2</sub> × 1<sup>1</sup>/<sub>2</sub> 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

**Icom 2m handheld line-up**



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

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**  
Rapid charges up to 6 battery packs (Six AD-100s are required) in 2-2.5 hours.

**CIGARETTE LIGHTER CABLE CP-19R**



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

**CARRYING CASE LC-167**



**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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