



VHF/UHF DUAL BAND FM TRANSCEIVER

# IC-E7

## Compact body & Stylish design

- Ultra compact, lightweight body  
—47×81×28 mm\*, 160g\*\*

\* Projections are not included. \*\* Including BP-243 and antenna

- 20 hours of operating time\*  
with slim Lithium-Ion battery pack

\* Tx:Rx:Stand-by=5:5:90 with power save on

- Wideband receiver\* allows you to listen to FM, TV (audio) and others

\* 0.495–999.990MHz, receiver range differs depending on version

- Minimum number of buttons  
for simple operation



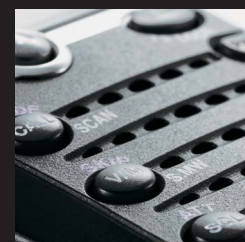
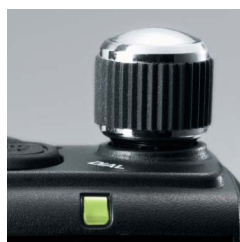
- VHF/UHF dual bander with 1.5W/1.0W output power

(One band at a time)

- CTCSS and DTCS tone for repeater access and quiet stand-by

- 1000 alphanumeric memory channels with flexible memory bank system

- Supplied rapid charger, BC-164, charges the battery pack in 3 hours (approx.)



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## Other features

- Auto memory write scan stores detected busy channels in the auto memory write bank. You can transfer them to the regular memory channels.
- Bank link scan allows you to detect busy channels from the selected banks.
- Pocket beep alerts the operator with a beep sound when the transceiver receives a signal containing a preset tone.
- Large backlit LCD with backlit buttons for night time operation
- Priority watch function checks for selected memory channel(s) every 5 seconds, while operating on VFO mode.

## SPECIFICATIONS

### GENERAL

- Frequency coverage (Unit: MHz) :

Version	Tx range	Rx range
EURO	144-146,430-440	0.495-999.990**
UK	144-146,430-440	0.495-999.990**
Italy	144-146,430-434,435-438	144-146,430-434,435-438
France	144-146,430-440	0.495-29.995, 50.2-51.2, 76-135.995, 144-146, 430-440**

\*\* Guaranteed range, 144-146, 430-440MHz

- Mode : FM, AM\*, WFM\* \*RX only
- No. of memory channels : 1252 (1000 regular, 2 call, 50 scan edges and 200 auto memory write )
- Antenna impedance : 50Ω (SMA)
- Power supply requirement : 3.7V DC (With specified battery pack)
- Usable temperature range : -10°C to +60°C
- Frequency stability : ±6ppm (-10°C to +60°C)
- Tuning step increments : 5, 6.25, 8.33, 9, 10, 12.5, 15, 20, 25, 30, 50, 100, 200kHz
- Current drain (at 3.7V DC) :
 

Transmit High	Less than 1.5A
Low (VHF/UHF)	0.4A/0.5A (approx.)
Receive Max. audio	Less than 150mA
Stand-by	80mA (approx.)
- Dimensions (W×H×D) : 47×81×28mm (Projections are not included)

- Weight (approx.) : 160g (with BP-243 and ANT)
- Ext. MIC/SP connector : 4-conductor 3.5 (d) mm /2kΩ/8Ω

### TRANSMITTER

- Output power VHF : High 1.5W, Low 0.1W (approx.)
- UHF : High 1.0W, Low 0.1W (approx.)
- Max. frequency deviation : ±5.0kHz
- Spurious emissions : Less than -60dB

### RECEIVER

- Intermediate frequencies : 46.35MHz, 450kHz (AM/FM)
- 14.85MHz, 450kHz (WFM)
- Sensitivity (at 12dB SINAD) : Less than 0.18μV (144/430MHz ham band only)
- Squelch sensitivity : Less than 0.18μV (at threshold; 144/430MHz ham band only)
- Selectivity AM/FM : More than 12kHz at 6dB
- Less than 30kHz at 60dB
- More than 150kHz at 10dB
- Less than 700kHz at 20dB
- WFM : More than 40dB
- Spurious rejection ratio : More than 50mW at 10% distortion with an 8Ω load
- Audio output (at 3.7V DC)

- Sensitivity (Wideband receiver general):

FM (at 12dB SINAD)	30-89.995MHz	Less than 0.45μV
	90-143.995MHz	Less than 0.2μV
	144-147.995MHz	Less than 0.18μV
	148-179.995MHz	Less than 0.2μV
	350-470MHz	0.18μV typ.
	600-939.990MHz	Less than 1.4μV
	940-999.990MHz	Less than 2.5μV
WFM (at 12dB SINAD)	76-107.995MHz	Less than 1.8μV
	600-799.990MHz	Less than 2.5μV
AM (at 10dB S/N)	0.495-4.995MHz	Less than 2.2μV
	5.00-29.995MHz	Less than 1.4μV
	118-136.995MHz	Less than 1.4μV

Supplied accessories: (\* Depending on version)

- Battery pack, BP-243
- AC adapter, BC-145LE/LUK\*
- Battery charger, BC-164
- Antenna
- Hand strap

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

## OPTIONS

Some options may not be available in some countries. Please ask your dealer for details.

### BP-243 BATTERY PACK



3.7V/1800mA Li-Ion battery pack. Same as supplied.

### BC-164 RAPID BATTERY CHARGER +BC-145LE/LUK AC ADAPTER



Charges the BP-243 in 3 hours (approx). L-shaped plug AC adapter is supplied with the charger, depending on version.

### CP-21LR CIGARETTE LIGHTER CABLE WITH NOISE FILTER



For use of the BC-164 in a vehicle. (12-16V DC required.)

### LC-161 CARRYING CASE



Allows you to put the transceiver on your belt.

### AD-92SMA ANTENNA CONNECTOR ADAPTOR



Allows connection of BNC type antenna.

### OPC-474 CLONING CABLE



For transceiver to transceiver cloning.

### HM-153P EARPHONE MICROPHONE



1 plug type lapel clip microphone with earphone.

### HM-131 SPEAKER MICROPHONE



Compact and durable body. Equipped with an earphone jack. OPC-782 is required.

### HM-128 EARPHONE MICROPHONE



Light type lapel clip microphone with earphone. OPC-782 is required.

### SP-13 EARPHONE



Provides clear audio in noisy environments. OPC-782 is required.

### OPC-782 PLUG ADAPTOR CABLE



MIC/SP plug adaptor. For use with HM-131, HM-128 and SP-13.

### CS-P7 CLONING SOFTWARE + OPC-478, OPC-478U CLONING CABLES

For quick and easy programming of memory channels from a PC. (Microsoft® Windows® 98/SE/Me/2000/XP).

OPC-478: RS-232C cable, OPC-478U: USB cable

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