

ICOM

VHF/UHF DUAL BAND
FM TRANSCEIVER

IC-P7A

The Go-Anywhere, Mini Dual Bander!

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

* 1²⁷/₃₂×3³/₁₆×1³/₃₂ in, projections are not included.

** 5.6oz, including BP-243 and antenna

- 20 hours of operating time* or
15 hours of continuous TV/FM receive capability
with slim Lithium-Ion battery pack

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

- Wideband receiver (0.495–999.990MHz*)
allows you to listen to FM, TV (audio)
broadcasts and other service
communications

* Receiver range differs depending on version



- 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
- Minimum number of buttons for
simple operation
- 1000 alphanumeric memory channels
with flexible memory bank system
- Supplied rapid charger, BC-164, charges
the battery pack in 3 hours (approx.)



compact body & stylish design



Icom Inc.

Other features

- Auto memory write scan stores detected busy channels in the auto memory write bank, and you can transfer them to the regular memory channels.
- Bank link scan allows you to detect busy channels from the selected banks.
- The 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 with priority beep • Auto squelch
- 10dB attenuator • Auto power off
- Auto power save • Tone scan
- Auto repeater function* (* Depending on version)
- Weather channel receive with weather alert* (* USA version only)

Applicable U.S. Military Specifications

The IC-P7A has been tested to and passed the following MIL-STD requirements and strict environmental standards.

Standard	MIL 810 C	MIL 810 D	MIL 810 E	MIL 810 F
Low Pressure	500.1 I	500.2 I, II	500.3 I, II	500.4 I, II
High Temp.	501.1 I	501.2 I, II	501.3 I, II	501.4 I, II
Low Temp.	502.1 I	502.2 I, II	502.3 I, II	502.4 I, II
Temp. Shock	503.1 I	503.2 I	503.3 I	503.4 I
Solar Radiation	505.1 I	505.2 I	505.3 I	505.4 I
Humidity	507.1 I, II	507.2 II, III	507.3 II, III	507.4 I
Dust Blowing	510.1 I	510.2 I	510.3 I	510.4 I
Vibration	514.2 VIII, X	514.3 I	514.4 I	514.5 I
Shock	516.2 I, II, V	516.3 I, IV	516.4 I, IV	516.5 I, IV

- Spurious rejection ratio : More than 40dB
- Audio output (at 3.7V DC) : More than 50mW at 10% distortion with an 8Ω load
- 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
- Battery charger, BC-164
- AC adapter, BC-145LA/LE/LV*
- Antenna
- Hand strap

SPECIFICATIONS

GENERAL

- Frequency coverage : (Unit: MHz)

Version	Tx working range	Rx working range
U.S.A.	144-148,430-450*1	0.495-999.990**1*2
Canada	144-148,430-450*1	0.495-999.990*1
Australia	144-148,420-450*3	0.495-999.990*3
General	136-173.995, 400-478.995*1	0.495-999.990*3

*1 Guaranteed range, 144-148, 440-450MHz **2 Cellular blocked

*3 Guaranteed range, 144-148, 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; +14°F to +140°F
- 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, approx.):
 - Transmit High (VHF/UHF) : 1.5A/1.5A
 - Low (VHF/UHF) : 0.4A/0.5A
 - Receive Stand-by : 80mA
 - Max. audio : 150mA

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

- Dimensions (W×H×D) : 47×81×28mm; 1⁷/₃₂×3¹/₁₆×1¹/₂ in (Projections not included)
- Weight (approx.) : 160g; 5.6oz (with BP-243 and ANT)
- Ext. MIC/SP connector : 4-conductor 3.5 (d) mm (1/8") /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 12kHz at -6dB Less than 30kHz at -60dB More than 150kHz at -10dB Less than 700kHz at -20dB

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-145LA/LE/LV AC ADAPTER



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

CP-211R 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 a BNC type antenna.

CS-P7 CLONING SOFTWARE + OPC-478, OPC-478UC 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-478UC: USB cable

OPC-474 CLONING CABLE

For transceiver to transceiver cloning.

Microsoft and Windows are registered trademarks of Microsoft Corporation in the U.S.A. and other countries.

HM-153P EARPHONE MICROPHONE



1 plug type microphone that attaches to your lapel, neck-tie, etc.

HM-131 SPEAKER MICROPHONE



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

HM-128 EARPHONE MICROPHONE



Light weight 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 of the HM-131, HM-128 and SP-13.

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