

 ICOM

VHF/UHF DUAL BAND  
FM TRANSCEIVER

# IC-P7A

## The Go-Anywhere, Mini Dual Bander!

- Ultra compact, lightweight body  
—47×81×28 mm\*, 160g\*\*  
\* 1<sup>27</sup>/<sub>32</sub>×3<sup>3</sup>/<sub>16</sub>×1<sup>3</sup>/<sub>32</sub> 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



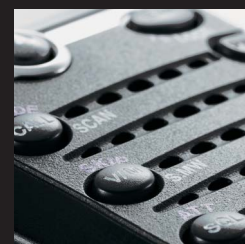
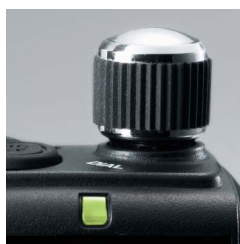
- Wideband receiver (0.495–999.990MHz\*)  
allows you to listen to FM, TV (audio)  
broadcasts and other service  
communications

\* 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



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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)

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; 1<sup>7</sup>/<sub>32</sub>×3<sup>1</sup>/<sub>16</sub>×1<sup>1</sup>/<sub>2</sub> 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

- 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

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-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 a BNC type antenna.

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.

• 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

• OPC-474 CLONING CABLE

For transceiver to transceiver cloning.

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