

ICOM

VHF/UHF DUAL BAND
FM TRANSCEIVER

IC-P7A

The Go-Anywhere, Mini Dual Bander!

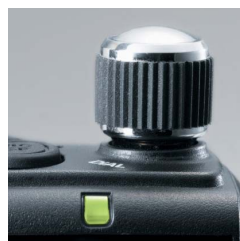
- Ultra compact, lightweight body
—47×81×28 mm*, 160g**
* 1²⁷/₃₂×3³/₁₆×1³/₃₂ in, projections are not included.
** 5.6oz, including BP-243 and antenna
- 20 hours of operating time* or
15 hours of continuous TV/FM receive capability
with slim Lithium-Ion battery pack
* Tx:Rx:Stand-by=5:5:90 with power 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)

SPECIFICATIONS

GENERAL

• Frequency coverage : (Unit: MHz)

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

*1 Guaranteed range, 144-148, 440-450MHz ** 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; 1⁷/₈×3¹/₈×1¹/₂ 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

- 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

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-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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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.

Icom Inc.

1-1-32, Kamiminami, Hirano-ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013 URL: <http://www.icom.co.jp/world/index.html>

Count on us!

Icom America Inc.

2380 116th Avenue NE, Bellevue, WA 98004, U.S.A.
 Phone: +1 (425) 454-8155
 Fax: +1 (425) 454-1509
 E-mail: sales@icomamerica.com
 URL: <http://www.icomamerica.com>

Icom New Zealand

146A Harris Road, East Tamaki, Auckland, New Zealand
 Phone: +64 (09) 274 4062
 Fax: +64 (09) 274 4708
 E-mail: inquiries@icom.co.nz
 URL: <http://www.icom.co.nz>

Icom (UK) Ltd.

Unit 9, Sea St., Herne Bay, Kent, CT6 8LD, U.K.
 Phone: +44 (0)1227 741741
 Fax: +44 (0)1227 741742
 E-mail: info@icomuk.co.uk
 URL: <http://www.icomuk.co.uk>

Asia Icom Inc.

6F No. 68, Sec. 1 Cheng-Teh Road, Taipei, Taiwan, R.O.C.
 Phone: +886 (02) 2559 1899
 Fax: +886 (02) 2559 1874
 E-mail: sales@asia-icom.com
 URL: <http://www.asia-icom.com>

Icom Canada

Glenwood Centre #150-6165 Highway 17, Delta, B.C., V4K 5B8, Canada
 Phone: +1 (604) 952-4266
 Fax: +1 (604) 952-0090
 E-mail: info@icomcanada.com
 URL: <http://www.icomcanada.com>

Icom (Europe) GmbH

Communication Equipment Himmelgeister Str. 100, D-40225 Düsseldorf, Germany
 Phone: +49 (0211) 346047
 Fax: +49 (0211) 333639
 E-mail: info@icomeurope.com
 URL: <http://www.icomeurope.com>

Icom France Sa

Zac de la Plaine, 1, Rue Brindejonc des Moulinais BP 5804, 31505 Toulouse Cedex, France
 Phone: +33 (5) 61 36 03 03
 Fax: +33 (5) 61 36 03 00
 E-mail: icom@icom-france.com
 URL: <http://www.icom-france.com>

Beijing Icom Ltd.

10C07, Long Silver Mansion, No.88, Yong Ding Road, Haidian District, Beijing, 100039, China
 Phone: +86 (010) 5889 5391/5392/5393
 Fax: +86 (010) 5889 5395
 E-mail: bjicom@bjicom.com
 URL: <http://www.bjicom.com>

Icom (Australia) Pty. Ltd.

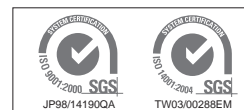
A.B.N. 88 006 092 575
 Unit 1 / 103 Garden Road, Clayton VIC 3168 Australia
 Phone: +61 (03) 9549 7500
 Fax: +61 (03) 9549 7505
 E-mail: sales@icom.net.au
 URL: <http://www.icom.net.au>

Icom Spain S.L.

Ctra. de Gracia a Manresa Km. 14,750 08190 Sant Cugat del Valles Barcelona, Spain
 Phone: +34 (93) 589 26 70
 Fax: +34 (93) 589 04 46
 E-mail: icom@icomspain.com
 URL: <http://www.icomspain.com>

Icom Polska

Sopot, 3 maja 54, Poland
 Phone: +48 (58) 550 7135
 Fax: +48 (58) 551 0484
 E-mail: icompolska@icompolska.com.pl
 URL: <http://www.icompolska.com.pl>



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Your local distributor/dealer: