

VHF AIR BAND TRANSCEIVER

8.33/25 kHz Ground to Air Radio with Class Leading 1500 mW Powerful Audio



8.33 kHz and 25 kHz channel spacing

1500 mW loud audio provides clear communications

6 W (PEP) /1.8 W (carrier) RF output power

Built-in Bluetooth® for Hands-Free Operation*

* Bluetooth® operation depends on the transceiver version.



Large capacity battery pack provides 17 hours* of long battery life

* With BP-280. Typical operation with TX : RX : Standby = 5:5:90. (Bluetooth® OFF, backlight OFF)

Compact, waterproof and durable body (IP67/IP54 and MIL-STD-810-G)

LCD and key backlight for night time operation

Compatible* with third-party aviation headsets

* Optional headset adapter OPC-2401 required.

And More

- Auto Noise Limiter (ANL) for noise reduction
- Side Tone function
- Internal VOX capability
- 200 memory channels with names up to 8 characters
- BNC type antenna connector



LCD and keypad backlight



IP67 waterproofing



1500 mW powerful audio

SPECIFICATIONS

IC-A16	
GENERAL	
Frequency range	TX: 118.000–136.99166 MHz RX: 108.000–136.99166 MHz RX (Weather): 161.650–163.275 MHz
Number of memory channels	200 channels
Channel spacing	8.33 kHz/25 kHz
Type of emission	6K00A3E, 5K60A3E, 16K0G3E (Weather)
Power supply requirement	7.2 V DC
Current drain (approximate)	
TX High	1.8 A
RX Max. audio/Stand-by	650 mA/65 mA typical
Antenna impedance	50 Ω (BNC type antenna connector)
Operating temperature range	-10°C to +60°C, 14°F to +140°F
Dimensions (W×H×D) (Projections not included)	52.2 × 111.8 × 34.1 mm, 2.1 × 4.4 × 1.3 in (with BP-280)
Weight (approximate)	257 g, 9.1 oz (with BP-280)
TRANSMITTER	
Output power (at 7.2 V DC)	6.0 W (PEP), 1.8 W (carrier)
Audio harmonic distortion	Less than 10% (at 60% modulation)
Spurious emissions	More than 46 dB*
Frequency stability	±0.4 kHz
RECEIVER	
Intermediate frequencies	46.35 MHz (1st), 450 kHz (2nd)
Sensitivity	COM: Less than 0 dBμ (at 6 dB S/N) NAV: Less than 3 dBμ (at 6 dB S/N) Weather: Less than -8 dBμ (at 12 dB SINAD)
Squelch sensitivity (Threshold)	Less than 0 dBμ, Weather: Less than -5 dBμ
Spurious response	More than 60 dB, Weather: More than 30 dB
Hum and noise	More than 35 dB (at 30% modulation)
Audio output power	INT SP 1500 mW typical EXT SP More than 350 mW (AM 8 Ω 60% modulation at 10% distortion)
External speaker connector	3 conductor 3.5 (d) mm

* Except operating frequency ±62.5 kHz in 25 kHz channel spacing. Except operating frequency ±20.825 kHz in 8.33 kHz channel spacing.
Measurements made in accordance with FCC Part 87.
All stated specifications are subject to change without notice or obligation.

Applicable U.S. Military Specifications

Standard	MIL 810G	
	Method	Procedure
Low Pressure	500.5	I, II
High Temperature	501.5	I, II
Low Temperature	502.5	I, II
Temperature Shock	503.5	I-C
Solar Radiation	505.5	I
Rain Blowing/Drip	506.5	I, III
Humidity	507.5	II
Salt Fog	509.5	-
Dust Blowing	510.5	I
Immersion	512.5	I
Vibration	514.6	I
Shock	516.6	I, IV

Also meets equivalent MIL-STD-810-C, -D, -E and -F.

Ingress Protection Standard

Dust and Water	IP67/IP54
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Supplied accessories :

- BP-280 battery pack ●BC-213 rapid charger ●BC-242 AC adapter
- FA-B02AR antenna ●MB-133 belt clip ●Hand strap

OPTIONS

BATTERY PACKS

- BP-278** Rechargeable Li-ion 7.2 V
1190 mAh (typ.), 1130 mAh (min.).
- BP-279** Rechargeable Li-ion 7.2 V
1570 mAh (typ.), 1485 mAh (min.).
- BP-280** Rechargeable Li-ion 7.2 V 2400 mAh (typ.),
2280 mAh (min.). Same as supplied.



DESKTOP CHARGER

- BC-213** Charges the BP-278, BP-279 or BP-280.
Same as supplied.
- BC-242** AC adapter. Same as supplied.
- BC-123SA** AC adapter.



MULTI-CHARGER

- BC-214*** Charges up to six batteries
(with/without transceivers)
at the same time.
- BC-157S** AC adapter.

* The AD-130 charger adapters are supplied with the BC-214, depending on the charger version.



VEHICLE CHARGER CABLE

- CP-23L** For use with the BC-213.



DC POWER CABLES

- OPC-515L** For use with the BC-213.
- OPC-656** For use with the BC-214.



CHARGER BRACKET

- MB-130** For use
with the BC-213.



SPEAKER-MICROPHONE

- HM-240** Waterproof.



Bluetooth® HEADSET

- VS-3** With side tone function
when connected
to the transceiver.



HEADSET ADAPTER

- OPC-2401**



BELT CLIP

- MB-133**
Same as supplied.



BELT HANGERS

- MB-96N** Swivel type.
- MB-96F** Fixed type.
- MB-96FL** Longer type.



ANTENNA

- FA-B02AR**
Same as supplied.

SOFTWARE AND CABLE

- CS-A16** Programming software for Windows® PC.
- OPC-478UC** USB type transceiver programming cable.

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Icom Inc.

1-1-32, Kamiminami, Hirano-Ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013

www.icom.co.jp/world

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