

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	
<b>GENERAL</b>	
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)
<b>TRANSMITTER</b>	
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
<b>RECEIVER</b>	
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
Ham 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-123SA 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-123SA** AC adapter. Same as supplied.



### 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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