



***AVIATION  
COMMUNICATIONS  
+  
NAVIGATION***

Icom Inc.

## VHF AIR BAND TRANSCEIVERS

# IC-A23

with VOR navigation

# IC-A5

without VOR navigation

# Fly the airwaves with this simple air band transceiver

### Compact and water resistant construction

Measuring only 58(W)×107(H)×28.5(D) mm\*, its palm size is very convenient for carrying on your belt or slipping into a flight bag. The IC-A23/IC-A5 features water resistant construction, equivalent to JIS 4 grade, which allows safe operation in rainy conditions.

\* 2<sup>2</sup>/<sub>32</sub>(W)×4<sup>7</sup>/<sub>32</sub>(H)×1<sup>1</sup>/<sub>16</sub>(D) in.

### VOR navigation (\*IC-A23 only)

The IC-A23 has a VOR navigation function, which indicates the bearing to or from the VOR station. A Course Deviation Indicator shows the deviation between your flying course and the desired course. In CDI mode, the ABSS (Auto Bearing Set System) function allows you to center your flying course in one touch.



### Simple operation

Well labeled and well spaced keys are easy to operate, even while wearing gloves. The wide and large LCD lets you see every readout at a glance.

### Reversible analog rotary selector and digital Up/Down switches

Volume and channel selection can be controlled by the rotary selector on the top panel, or Up/Down switches on the front. You can change the assignment at your convenience. The volume level and channel number is displayed during adjustment.

### Voice recording and playback function

Received conversation can be recorded and played back with the built-in voice recorder. Recorded contents can be transmitted and kept even with power off or when the battery is discharged.

### Other features

- 200 memory channels (20Ch × 10 banks) with 6 character names
- One touch access to the 121.5MHz emergency channel
- Large capacity, 760mAh of Ni-MH battery pack
- NOAA weather channel and Duplex operation
- Tag scanning and memory bank scanning for checking channels
- ANL (Auto Noise Limiter) for noise reduction
- Low battery alert and backlit keypad
- Built-in sidetone function with headset



IC-A23

IC-A5



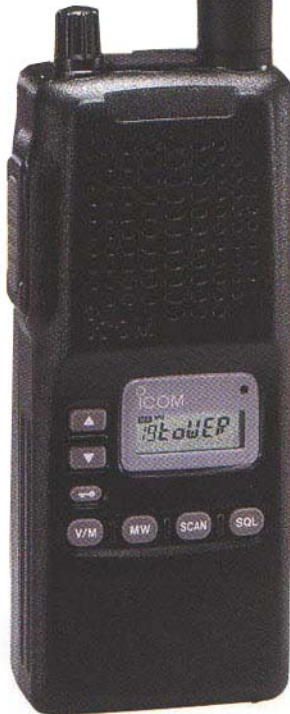


## VHF AIR BAND TRANSCEIVER

IC-A4

# Icom's favourite airbander for everyone in aviation

Meets  
MIL-STD 810



### Rugged construction

The one piece, die-cast aluminum chassis and polycarbonate front panel provide the durability needed for reliable operation under the most demanding conditions.

### Simple operation

Reliable communication is essential in the hectic airport work environment. The IC-A4's large display is easy to read and shows the operating status at a glance. Up/down keys allow you to change channels quickly and easily. Up to 19 memory channels can be programmed for easy recall.

### PC programmable

PC programming and cloning allows you to customize each radio to your needs. Transmit can be inhibited by channel. (These features must be activated by your dealer.)

### Alphanumeric memory

The channel name function allows you to assign up to 5-character alphanumeric names to each channel. This provides a convenient way to remember channel contents and to recognize selected channels at a glance.

### Compact body

Measuring only 58(W)×140.5(H)×32.3(D) mm\*, the IC-A4 is truly portable. Small enough to fit into a pocket.

\* 2<sup>9</sup>/<sub>32</sub>(W)×5<sup>17</sup>/<sub>32</sub>(H)×1<sup>9</sup>/<sub>32</sub>(D) in

### Other features

- LCD backlighting allows you to read the display easily during night-time operation
- Maintenance-free EEPROM stores memory channel information
- Side-tone permits hearing your own transmitted audio while using a standard aviation headset (optional headset adapter required—OPC-752)
- Optional 1050mAh battery for longer lifespan available, same physical size
- Optional (AA) alkaline battery case available – holds 8 batteries





Meets  
**MIL-STD 810**

VHF AIR BAND TRANSCEIVER

**IC-A110**  
**IC-A110EURO**

# Rugged and reliable for serious ground crew communications

## Capable for use in any vehicle

The IC-A110/EURO are adaptable to vehicles working on a 12V, as well as a 24V power source.

## Front mounted loud speaker

A loud speaker mounted in front of the transceiver is free of any obstacles blocking audio reproduction. And, 10W of powerful output power is available for the external speaker.

## Dial selection

With a simple rotation of the dial, frequently used memory channels, or desired frequency selection can be made.

## Memory channel name display

Up to 7-character memory names can be assigned for each channel. Allows simple and quick channel recognition and selection.

## Side tone function

The operator's transmitted messages and calls are audio modulated and can be heard by standard airband headsets\*, even in the most demanding operating airport conditions.

\*Option OPC-871 is required.

## Convenient on hook scan functions

Hanging the microphone on the mic. hanger activates the auto scan function. When released, the transceiver will return to the last used, or priority channel, depending on the selection.

## Usable in extreme cold

The adopted LCD guaranteed usable in temperatures from -30°C to +70°C (-22°F to +158°F). Normal performance, as well as display indications, are guaranteed even in extremely cold areas.

## Other features

- An extra version complying to new regulations is available for 8.33kHz channel spacing
  - Equipped EEPROM system provides maintenance free memory backup capability, without the use of a separate backup battery
  - Various scan functions, such as VFO and priority scans
  - A total of 20 memory channels are available
  - 36W (pep) of powerful output
  - Ideal compact size of 150(W)×50(H)×180(D) mm\* to mount in various types of vehicles
- \*5<sup>29</sup>/<sub>32</sub>(W)×1<sup>31</sup>/<sub>32</sub>(H)×7<sup>3</sup>/<sub>32</sub>(D) in



VHF AIR BAND TRANSCEIVER

IC-A200

# Easy to see, simple to operate in the cockpit

## Easy-to-see function display

All important information is provided in extra large characters for easy viewing, day or night. The effective viewing angle increases side visibility making the IC-A200 easier to read. At all times, the USE and STBY (standby) window frequencies simultaneously appear on a large function display.

## Simple operation

The automatic squelch function eliminates the need to make inconvenient squelch adjustments. All required functions are activated with a minimum number of switches and controls.

## Remote control capability

Memory channel selection and exchanging of the USE and STBY window frequencies can also be accomplished with remote switches. Hence, you can set these switches into the most convenient positions.

## Full frequency coverage

The advanced IC-A200 covers 118.000–136.975MHz continuously in 25kHz tuning steps. A total of 760 communication channels are available.

## Compact body for easy installation

Measuring just 160(W)×34(H)×271(D) mm\*, the IC-A200 neatly fits the mounting brackets used on most aircraft. Required connectors are also included.

\* 6<sup>5</sup>/<sub>16</sub>(W)×1<sup>11</sup>/<sub>32</sub>(H)×10<sup>21</sup>/<sub>32</sub>(D) in

## Other features

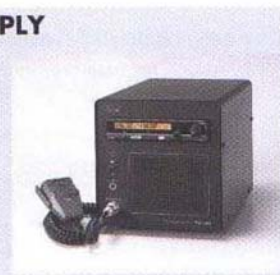
- 9 memory channels
- Stable 7W of RF output
- Illuminated switches and function display
- 2 way to select the desired frequency
- 3 kinds of tuning steps for quick and easy channel selection
- Intercom functions

## PS-80 DC POWER SUPPLY

The PS-80 power supply lets you use the IC-A200 as a ground base station. The PS-80 has a built-in speaker and a microphone\*.






\* Some versions do not come with a microphone.




Dimensions (W×H×D):  
200×200×300 mm  
7<sup>7</sup>/<sub>16</sub>×7<sup>7</sup>/<sub>16</sub>×11<sup>13</sup>/<sub>16</sub> in  
Output: 13.8V DC/6A















# OPTIONS

	BATTERY PACKS				BATTERY CASES		WALL CHARGERS	CHARGERS	
MODEL NAME	BP-195 9.6V / 700mAh 	BP-196 9.6V / 1050mAh 	BP-200L 9.6V / 760mAh (Ni-MH) 	CM-166 12V / 600mAh 	BP-194 AA (R6)×8 cells 	CM-167 AA (R6)×10 cells 	BC-110 	BM-112 	BC-121 
IC-A23/IC-A5			✓				✓		✓
IC-A22/IC-A3				✓		✓		✓	✓
IC-A4	✓	✓			✓				✓

	CHARGERS			AC ADAPTERS			CHARGER ADAPTERS		
MODEL NAME	BC-133 	BC-143 	BC-119 	BC-123 12V / 1A 	BC-124 12V / 7A 	BC-145 16V / 1A 	AD-50+AD-75 	AD-81 	AD-87+AD-88 
IC-A23/IC-A5			✓	(Use with BC-119)	✓	(Use with BC-121)			(Use with BC-119/BC-121)
IC-A22/IC-A3		✓	✓	(Use with BC-119)	(Use with BC-121)		(Use with BC-119/BC-121)		
IC-A4	✓	✓	✓	(Use with BC-119)	(Use with BC-121)	(Use with BC-143)		(Use with BC-119/BC-121)	

	MOUNTING BRACKET AND BELT CLIPS				CARRYING CASES		SPEAKER MICROPHONES	
MODEL NAME	MB-25 	MB-68 	MB-74 	MB-76 	LC-122 	LC-147 	HM-112 	HM-119 
IC-A23/IC-A5				✓		✓		
IC-A22/IC-A3	✓				✓		✓	
IC-A4		✓	✓					✓

	CIGARETTE LIGHTER CABLES	DC POWER CABLES		HEADSET ADAPTER CABLES			ANTENNAS		
MODEL NAME	CP-12/L with noise filter 	CP-17L 	OPC-254/L 	OPC-515L 	OPC-499 	OPC-752 	OPC-967 	FA-B01AR 	FA-B02AR 
IC-A23/IC-A5	✓		✓				✓		✓
IC-A22/IC-A3		✓		✓	✓			✓	
IC-A4			✓			✓			✓

	HEADSET ADAPTER	DC POWER SUPPLY							
MODEL NAME	OPC-871 	PS-80 							
IC-A110/EURO	✓								
IC-A200		✓							

# SPECIFICATIONS

		IC-A23	IC-A5	IC-A22/E	IC-A3/E	IC-A4	IC-A110/EURO	IC-A200	
Frequency range (Unit: MHz)	Tx	118.000-136.975	118.000-136.975	118.000-136.975	118.000-136.975	118.000-136.975	118.000-136.975	118.000-136.975	
	Rx	108.000-136.975 161.650-163.275 <sup>*1</sup>	118.000-136.975 161.650-163.275 <sup>*1</sup>	108.000-136.975 161.650-163.275 <sup>*1</sup>	118.000-136.975 161.650-163.275 <sup>*1</sup>	108.000-136.975	118.000-136.975	118.000-136.975	
Number of memory channels		200 Ch		50 Ch		19 Ch		20 Ch	
Channel spacing (Unit: kHz) (varies according to version)		25		25		25		8.33 and/or 25	
Power supply requirement		9.6 -12.0V DC		12-15V DC		9.6V DC $\pm$ 15%		13.75V DC or 27.5V DC	
Current drain	Tx at high	1.1A typ.		1.0A typ.		0.7A typ.		5.0A max.	
	Stand-by	70mA typ.		55mA typ.		55mA typ.		500mA	
	Max. audio	500mA typ.		400mA max.		250mA max.		4.0A	
Dimensions (WxHxD) (proj. not included; in)		58x107x28.5 mm 2 <sup>9</sup> / <sub>32</sub> x4 <sup>7</sup> / <sub>32</sub> x1 <sup>1</sup> / <sub>8</sub> in		57x153x35 mm 2 <sup>1</sup> / <sub>4</sub> x6 <sup>1</sup> / <sub>32</sub> x1 <sup>1</sup> / <sub>8</sub> in		58x140.5x32.3 mm 2 <sup>9</sup> / <sub>32</sub> x5 <sup>11</sup> / <sub>32</sub> x1 <sup>1</sup> / <sub>32</sub> in		150x50x180 mm 5 <sup>9</sup> / <sub>32</sub> x1 <sup>11</sup> / <sub>32</sub> x7 <sup>1</sup> / <sub>32</sub> in	
Weight		340g ; 12oz (w/BP-200L and antenna)		465g ; 16oz (w/CM-166 and antenna)		425g ; 15oz (w/BP-195 and antenna)		1.5kg ; 3lb 5oz	
Frequency stability		$\pm$ 17ppm (-10°C to +60°C)		$\pm$ 20ppm (-10°C to +50°C)		$\pm$ 10ppm (0°C to +50°C)		IC-A110 $\pm$ 5ppm (-30°C to +60°C) IC-A110 EURO $\pm$ 1ppm (0°C to +40°C)	
RF output power		5W (pep) 1.5W (Carrier power)		5W (pep) 1.5W (Carrier power)		3.7W (pep) 1.0W (Carrier power)		36W typ. (pep) 9W typ. (Carrier power)	
Microphone impedance		150 $\Omega$		150 $\Omega$		150 $\Omega$		600 $\Omega$	
Sensitivity (at 6dB S/N)		1 $\mu$ V		1 $\mu$ V		1 $\mu$ V		IC-A110 1 $\mu$ V IC-A110 EURO 5dB $\mu$ V (at 12dB SINAD)	
Selectivity		7.5kHz/-6dB 25kHz/-60dB		8kHz/-6dB 25kHz/-60dB		8kHz/-6dB 25kHz/-60dB		25kHz CH. spacing 8kHz/-6dB 25 kHz/-60dB 8.33kHz CH. spacing 2.778kHz/-6dB 7.37kHz/-60dB	
Spurious response rejection ratio		60dB		60dB		60dB		IC-A110 74dB $\mu$ IC-A110 EURO 70dB	
Audio output power (at 10% distortion)		500mW with an 8 $\Omega$ load at 9.6V		600mW with an 8 $\Omega$ load at 12V		500mW with an 8 $\Omega$ load at 9.6V		10W with an 8 $\Omega$ load at 13.75V 100mW with a 500 $\Omega$ load at 13.75V	

\*1 U.S.A. version only



## Applicable U.S. Military specifications

Icom makes rugged products that meet MIL-STD requirements and strict environmental standards as follows.

Standard	Low Pressure		High Temp.		Low Temp.		Temp. Shock	Solar Radiation	Rain	Salt Fog	Dust	Humidity	Vibration	Shock
	500.3/1	500.3/11	501.3/1	501.3/11	502.3/1	502.3/11	503.3/1	505.3/1	506.3/1	506.3/11	509.3/1	510.3/1	507.3/11	507.3/111
Method/Procedure	E	F	E	F	E	F	E	E	E	E	E	E	E	E
Applicable MIL-810 series	E	F	E	F	E	F	E	E	E	E	E	E	E	E
IC-A3/E														
IC-A22/E														
IC-A4														
IC-A110/EURO	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
IC-A200														

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Count on us!

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Certificate Number Q14190

Icom Inc. (Japan), is an ISO9001 certification acquired company.