







The pilot's favorite handheld is here!

Easy to use while flying

Simple one-handed operation is the most essential feature of the IC-A24/A6 series. The well labeled, large keypad provides user friendly operation. The large display shows both letters and numbers and is easy to see, making for fast frequency recognition. The display is backlit, and so is the keypad. The light stays on until you turn it off - a very handy feature for flying at night.

"Flip-flop" channel recall

The IC-A24/A6 series stores the last 10 channels used. You can easily recall those channels by pushing the "flip-flop" recall ■ buttons on the front panel. It is convenient for switching between several channels, such as NAV and COM channels.

VOR navigation*

The IC-A24/E has VOR navigation functions. The DVOR mode shows the radial to or from a VOR station and the CDI mode shows the course deviation to/from a VOR station. You can also input your intended radial to/from the VOR station



and show the course deviation on the display. In the USA version, the duplex operation allows you to call a COM channel, while you are using VOR navigation. (* IC-A24/E only)

External DC power jack

An external DC power jack allows for operation with the wall charger, BC-110 or the cigarette lighter cable, CP-20. When the battery pack is installed, simultaneous charging during operation is also possible. In addition, an optional battery case, BP-208N, is available.

And more...

- Water resistant construction
- * Equivalent to IPX4 of the corresponding international standard IEC 60529 (2001).
- 200 memory channels (20 Ch × 10 banks) with 6 character names
- Dedicated 121.5MHz emergency key
- Side tone function allows you to hear your own voice via an external aviation headset.
- Optional Ni-Cd, Ni-MH and Li-Ion battery packs
- NOAA marine weather channels* (* IC-A24/A6 only)
- Tag scanning and memory bank scanning
- · ANL (Auto Noise Limiter) for noise reduction





VHF AIR BAND TRANSCEIVER



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.

TSO version available

Version 100 has been TSO C37d and C38d approved. This version of the IC-A110 may be used as a primary avionic VHF transceiver.

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 airport operating 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 is guaranteed usable in temperatures from -30° C to $+70^{\circ}$ C (-22° F to $+158^{\circ}$ F). Normal performance, as well as display indications, are guaranteed even in extremely cold areas.

Other features

- Extra 8.33kHz channel spacing version available
- 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
 *5²⁹/₃₂(W)×1³¹/₃₂(H)×7³/₃₂(D) in





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.

TSO version available

Version 100 has been TSO C37d and C38d approved. This version of the IC-A200 may be used as a primary avionic VHF transceiver.

Other features

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

PS-80 DC POWER SUPPLY

Provides convenient operation of the IC-A200 on the ground. Built-in speaker and microphone, EM-91 included*. (* Not all versions)

Dimensions:

 $200(W) \times 200(H) \times 300(D) \text{ mm}$ $7^{7}/8(W) \times 7^{7}/8(H) \times 11^{13}/16(D)$ in Output: 13.8V DC/6A



OPTIONS FOR HANDHELD TRANSCEIVERS

	Е	BATTERY PACK	(S	BATTERY CASE	WALL CHARGERS					
MODEL NAME	Ni-Cd: Ni-MH:		BP-211N Li-Ion: 7.4V / 1800mAh	BP-208N AA (LR6)×6 cells	BC-110AR/DR	BC-119N	BC-144N	BC-121N		
IC-A24/A24E	~	~	~	~	~	~	~	~		
IC-A6/A6E	~	~	~	~	~	~	~	~		

	AC AD	APTERS	CHARGER ADAPTER	BELT	CLIPS	LEATHER BE	CARRYING CASE	
MODEL NAME	BC-157	BC-145		MB-86	MB-103	MB-96F	MB-96N	LC-159
IC-A24/A24E	(Use with BC-121N)	(Use with BC-119N/BC-144N)	(Use with BC-119N/BC-121N)	~	~	(Use with MB-103)	~	~
IC-A6/A6E	(Use with BC-121N)	(Use with BC-119N/BC-144N)	(Use with BC-119N/BC-121N)	~	~	(Use with MB-103)	~	~

	DC POWE	R CABLES	CIGARETTE LIGHTER CABLE	HEADSET ADAPTER CABLE	ANTENNA		
MODEL NAME	OPC-515L OPC-656		CP-20	P-20 OPC-499		FA-B02AR	
IC-A24/A24E	(Use with BC-119N)	(Use with BC-121N)	~	~	V		
IC-A6/A6E	(Use with BC-119N)	(Use with BC-121N)	~	~	>		

OPTIONS FOR MOBILE TRANSCEIVERS

	HAND MICROPHONE	HEADSET ADAPTER	DC POWER SUPPLY	MOUNTING BRACKET		
MODEL NAME	HM-161	OPC-871	PS-80	MB-53		
IC-A110/EURO	~	~				
IC-A200			~	V		

SPECIFICATIONS

		IC-A24/A24E	IC-A6/A6E	IC-A110/A110EURO	IC-A200		
	Tx	118.000–136.975MHz	118.000-136.975MHz	118.000-136.975MHz	118.000–136.975MHz		
Frequency range	Rx	108.000-136.975MHz 161.650-163.275MHz*	118.000-136.975MHz 161.650-163.275MHz*	118.000-136.975MHz	118.000–136.975MHz		
Number of memory cl	hannels	200 Ch (20	Ch×10 banks)	20 Ch	9 Ch		
Channel spacing (varies according to v	rersion)	2	25kHz	8.33kHz and/or 25kHz	25kHz		
Power supply require	ment	7.4/7.2V DC (Battery pack)	, 11.0V DC (External DC jack)	13.75V DC or 27.5V DC	13.8V DC ± 15%		
	Tx High		5A typ.	5.0A max.	2.6A		
Current drain	Rx Stand-by	70mA typ.		500mA	320mA		
	Max. audio		mA typ.	4.0A	600mA		
Dimensions (W×H×D) (Projections are not in		2¹/ ₈ ×5	1.3×35.5 mm ³ / ₃₂ ×1 ¹³ / ₃₂ in	150×50×180 mm 5 ²⁹ / ₃₂ ×1 ³¹ / ₃₂ ×7 ³ / ₃₂ in	160×34×271 mm 6 ⁵ / ₁₆ ×1 ¹¹ / ₃₂ ×10 ²¹ / ₃₂ in		
Weight			g ; 15.2oz 0N and antenna)	1.5kg ; 3.3lb	1.1kg ; 2.4lb		
Frequency stability		±5ppm (-	-10°C to +60°C)	IC-A110 ± 5ppm (-30°C to +60°C) IC-A110 EURO ± 1ppm (0°C to +40°C)	± 15ppm (–20°C to + 55°C		
RF output power			0/1.5W typ. (PEP/Carrier power) 6/1.0W typ. (PEP/Carrier power)	36W typ. (PEP) 9W typ. (Carrier power)	7W (Carrier power)		
Microphone impedan	ce	1	00kΩ	600Ω	600Ω		
Sensitivity		C0 W IC-A24E/A6E V0	OR 0.71µV typ. (6dB S/N) OM 0.5µV typ. (6dB S/N) X 0.22µV typ. (12dB SINAD) OR –3dBµV typ. (6dB S/N) OM –3dBµV typ. (12dB SINAD)	IC-A110 1µV (6dB S/N) IC-A110 EURO 5dBµV (12dB SINAD)	2μV (6dB S/N)		
Selectivity			:Hz/–6dB Hz/–60dB	25kHz CH. spacing : 8kHz/-6dB 25kHz/-60dB 8.33kHz CH. spacing : 2.778kHz/-6dB 7.37kHz/-60dB	8kHz/–6dB 22kHz/–60dB		
Spurious response rejection ratio		FN	M 60dB M 30dB M 70dB	IC-A110 : 74dBµ IC-A110 EURO : 70dB	80dB		
Audio output power (a	at 10% distortion)	500mW typ.	. with an 8Ω load	10W with an 8Ω load at 13.75V 100mW with a 500Ω load at 13.75V	5W with a 4Ω loard at 13.8V 60mW with a 500Ω load at 13.8V		





Applicable U.S. Military specifications

lcom makes rugged products that have been tested to and passed the following MIL-STD requirements and strict environmental standards.

Standard	Storage	Low Pressure Operation (Altitude)		High Temperature Operation	Low Temperature Storage	Low Temperature Operation	Temperature Shock	Solar Radiation	Rain Blowing	Rain Drip		Humidity Aggravate		Dust Blowing	Vibration	Shock Functional Shock	Shock Transit Drop
MIL-810 C Method. Procedure	500).1 I	501	.1 I	502	2.1 I	503.1 I	505.1 I	506.1 I	506.1 II	507.1 I	507.1 II	509.1 I	510.1 I	514.2 VIII, X	516.2 I	516.2 II, IV
MIL-810 D Method. Procedure	500.2 I	500.2 II	501.2 I	501.2 II	502.2 I	502.2 II	503.2 I	505.2 I	506.2 I	506.2 III	507.2 II	507.2 III	509.2 I	510.2 I	514.3 I	516.3 I	516.3 IV
MIL-810 E Method. Procedure	500.3 I	500.3 II	501.3 I	501.3 II	502.3 I	502.3 II	503.3 I	505.3 I	506.3 I	506.3 III	507.3 II	507.3 III	509.3 I	510.3 I	514.4 I	516.4 I	516.4 IV
MIL-810 F Method. Procedure	500.4 I	500.4 II	501.4 I	501.4 II	502.4-3 I	502.4-3 II	503.4 I	505.4 I	506.4 I	506.4 III	50	7.4	509.4	510.4 I	514.5 I	516.5 I	516.5 IV
IC-A24/A24E	~	~	~	~	~	~	~	~		~	~	~	~	~	~	~	~
IC-A6/A6E	~	~	~	~	~	~	~	~		~	~	~	~	~	~	~	~
IC-A110/A110EURO	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
IC-A200															~	~	

The IC-A110/A110EURO and IC-A200 were tested to MIL-810 C, D and E requirements only.

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

Icom New Zealand

Icom (UK) Ltd.

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 : +1 (425) 454-1509 E-mail : sales@icomamerica.com
URL : http://www.icomamerica.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

Icom (Australia) Pty. Ltd.

A.B.N. 88 006 092 575 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 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 (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 Spain S.L.

Crta. de Gracia a Manresa Km. 14,750 08190 Sant Cugat del Valles Barcelona, Spain Phone : +34 (93) 590 26 70 Fax : +34 (93) 589 04 46 E-mail : icom@icomspain.com
URL : http://www.icomspain.com

Unit 9, Sea St., Herne Bay, Kent, CT6 8LD, U.K. Phone: +44 (01227) 741741 Fax : +44 (01227) 741742 E-mail : info@icomuk.co.uk URL : http://www.icomuk.co.uk

Icom France S.a

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

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

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

Beijing Icom Ltd.

Dejjing RCOTT 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



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