

IC-A110 IC-A110EURO

Meets
MIL-STD 810



Rugged and reliable for serious ground crew communications

Setting a new standard for ground based communications, the IC-A110 /EURO provide durability and reliability in demanding operational environments.

- **Capable of being installed in any vehicle**
IC-A110/EURO are adaptable to vehicles working on a 12 V, as well as a 24 V power source.
- **Front mounted loud speaker**
A loud speaker mounted in the front of the transceiver is free of any obstacles blocking audio reproduction. And 10 W, 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 capability**
Up to 7-character memory names can be assigned for each channel. Allows simple and quick channel recognition and selection.
- **Side tone function**
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 necessary when using standard type headset.
- **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.

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ADDITIONAL FEATURES

- Additional to the predominantly used 25 kHz channel spacing, an extra version complying to new regulations is available for 8.33 kHz 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 are available
- Limited number of keys for simple manipulation, but providing advanced multi-functions
- A total of 20 memory channels are available
- Ideal compact size of 150(W)×50(H)×180(D) mm* to mount in various types of vehicles
*5²⁹/₃₂(W)×1³¹/₃₂(H)×7⁹/₃₂(D) in
- 36 W (pep) of powerful output
- Excellent durability to cope with even the toughest workplace
- Memory channel only operation possible via PC programming
- Hand microphone supplied

SPECIFICATIONS

GENERAL

- Frequency range : 118.000–136.975 MHz
- Channel spacing : 8.33/25 kHz auto selection (according to version) or 25 kHz only
- Mode : 6K00A3E (AM)
- No. of memory Ch. : 20
- Antenna connector : SO-239 (50 Ω)
- Power supply requirement: (negative ground) 13.75 V DC or 27.5 V DC automatic selection
- Current drain (at 13.75 V DC):
Transmitting 5.0 A max.
Receiving 4.0 A (at AF max.)
0.5 A (at stand-by)
- Operating temperature range:
IC-A110 -30°C to +60°C
; -22°F to +140°F
IC-A110EURO -20°C to +55°C
- Frequency stability :
IC-A110 ±5 ppm (-30°C to +60°C)
IC-A110EURO ±1 ppm (0°C to +40°C)
- Dimensions : 150(W)×50(H)×180(D) mm (projections not incl.)
5²⁹/₃₂(W)×1³¹/₃₂(H)×7⁹/₃₂(D) in
- Weight (approx.) : 1.5 kg; 3 lb 5 oz

Measurements made in accordance with RTCA D0-186a (Class C/E, Class 4/E) or EN 300 676. All stated specifications are and subject to change without notice or obligation.

*These specification items are not available for the IC-A110 due to approval test specifications.

Type approval for the IC-A110/EURO varies between countries. Ask your dealer for availability.

TRANSMITTER

- Output power : 36 W typ. pep (9 W typ. for CW)
- Modulation limiting : 70–100% (IC-A110)
- Modulation compression*: Linear 85%
Max. 95%
- AF harmonic distortion : Less than 10% (at max. mod.)
- Hum and Noise ratio : More than 40 dB
- Spurious emissions :
IC-A110 Less than -16 dBm
IC-A110EURO
9 kHz to 1 GHz
Less than -46 dBm
(Less than -36 dBm for harmonics in 30 MHz to 1 GHz range)
1–4 GHz
Less than -40 dBm
(Less than -30 dBm for harmonics)
- Adjacent Ch. power* : Less than 60 dB (25 kHz)
Less than 50 dB (8.33 kHz)
- Microphone connector : 8-pin modular (600 Ω)

RECEIVER

- Receiving system : Double conversion super-heterodyne
- Intermediate freq. : 1st 38.85 MHz
2nd 450 kHz
- Sensitivity (pd) :
IC-A110 Less than 1 μV (at 6 dB S/N)
IC-A110EURO Less than +5 dBμV (at 12 dB SINAD)
- Squelch sensitivity (pd; at threshold):
IC-A110 Less than 0.3 μV
IC-A110EURO Less than -6 dBμV
- Selectivity :
25 kHz Ch. spacing Less than 6 dB±8 kHz
More than 40 dB±17 kHz
8.33 kHz Ch. spacing Less than 6 dB±2.778 kHz
More than 60 dB±7.37 kHz
- Spurious response : More than 74 dBμ (IC-A110)
More than 70 dB (IC-A110EURO)
- Intermodulation rejection ratio* : More than 64 dB
- Blocking/desensitisation* : More than 70 dB
- Cross modulation rejection* : More than 70 dB
- Audio output power (at 13.75 V; 10% dist.; 60% mod.):
Internal speaker 1.5 W typical w/8 Ω load
External speaker More than 10.0 W w/8 Ω load
Headset (side tone) More than 0.1 W w/500 Ω load
- AF output impedance : EXT SP 8 Ω
Headset (side tone) 500 Ω

Supplied Accessories

- Hand mic. ○ DC power cable ○ Fuses
- Mounting bracket kit ○ Mic. hanger kit

OPTION



OPC-871
HEADSET ADAPTER
For connection with standard airband headset.

Applicable U.S. Military Specifications

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

Standard	MIL 810C		MIL 810D		MIL 810E	
	Method	Proc.	Method	Proc.	Method	Proc.
High Temp.					501.3	II
Low Temp.					502.3	II
Humidity					507.3	II
Vibration	514.2	X	514.3	I	514.4	I
Shock					516.4	IV

Icom Inc.

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

Count on us!

Icom America Inc.

<Corporate Headquarters>
2380 116th Avenue N.E., Bellevue, WA 98004, U.S.A.
Phone: (425) 454-8155 Fax: (425) 454-1509
URL : <http://www.icomamerica.com>
<Customer Service> Phone : (425) 454-7619

Icom Canada

Glenwood Centre #150-6165 Highway 17,
Delta, B.C. V4K 5S8, Canada
Phone: (604) 952-4266 Fax: (604) 952-0090
URL : <http://www.icomcanada.com>

Icom (Australia) Pty. Ltd.

A.B.N. 88 006 092 575
290-294 Albert Street, Brunswick, Victoria, 3056, Australia
Phone: 03 9387 0660 Fax: 03 9387 0022
URL : <http://www.icom.net.au>

Icom New Zealand

146A Harris Road, East Tamaki, Auckland, New Zealand
Phone: 09 274 4062 Fax: 09 274 4708
URL : <http://www.icom.co.nz>

Icom (Europe) GmbH

Communication Equipment
Himmelsleiter Str.100, D-40225 Düsseldorf, Germany
Phone: 0211 346647 Fax: 0211 333639
URL : <http://www.icomeurope.com>

Icom Spain S.L.

Ctra. de Gracia a Manresa Km. 14,750
06190 Sant Cugat del Valles Barcelona, SPAIN
Phone: (93) 590 26 70 Fax: (93) 589 04 46
URL : <http://www.icomspain.com>

Icom (UK) Ltd.

Unit 9, Sea St., Herne Bay, Kent, CT6 8LD, U.K.
Phone: 01227 741741 Fax: 01227 741742
URL : <http://www.icomuk.co.uk>

Icom France S.a

Zac de la Plaine, Rue Brindejonc des Moulins
BP 5804, 31505 Toulouse Cedex, France
Phone: 561 36 03 03 Fax: 561 36 03 00
URL : <http://www.icom-france.com>

Asia Icom Inc.

6F No. 68, Sec. 1 Cheng-Teh Road,
Taipei, Taiwan, R.O.C.
Phone: (02) 2559 1899 Fax: (02) 2559 1874



Certificate Number Q14190

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

Your local distributor/dealer: