ICOM

VHF AIR BAND TRANSCEIVERS

IC-A120
IC-A120E



High Visibility, Simple Operation

The full dot-matrix LCD allows for high visibility and clearly shows alphanumeric characters and icons. Programming memory channels and other radio settings can be simply made from the front panel by radio users. These customizing functions can also be restricted, depending on the radio settings.

Optional Bluetooth® Headset Connectivity

With the optional UT-133 Bluetooth® unit, the IC-A120/E can be used with a third-party wireless Bluetooth® headset. Also, using the optional VS-3 Bluetooth® headset, the side tone function is available.

Active Noise Cancelling (ANC)

The newly added built-in ANC reduces background noise in the received and transmitting signals. This function is effective in extremely noisy airport environments full of aircraft noise. The automatic noise limiter (ANL)* reduces pulse-type noise such as engine ignition.

* The ANL and ANC functions cannot be used at the same time.

IP54 Dust-Protection and Water Resistance

The IC-A120/E has IP54 dust-protection and water resistance. This construction allows for use in open-air vehicles.

ON-Hook Scan and ON-Hook Dualwatch Functions

The ON-Hook scan function automatically starts scanning when the hand microphone is hooked on the microphone hanger. The ON-Hook dualwatch function checks the priority and operating channels alternatively while ON-Hook. When you take the microphone OFF hook, the scanning stops at the priority channel or displayed channel (according to the preprogramming).

Side Tone Function

When using a third-party headset with the optional OPC-871A headset adapter, the side tone function allows you to monitor your own transmitted voice via the connected headset. Even when using a hand microphone, your voice can be monitored from the headset.

Optional Speaker-Microphone, HM-217

The built-in speaker of the HM-217 allows to listen to received voice by pulling the HM-217 close to your ear. The programmable buttons (P1/P2) on the front panel can be used as a shortcut to activate frequently used functions.

Other Features

- A total of 200 memory channels with 12-character channel names
- Both 12- and 24- volt systems compatible
- 8.33 kHz* and 25 kHz channel spacing
  * Use of 8.33 kHz channel spacing is prohibited in Canada
- 36W (P.E.P) RF output power
- Dualwatch and priority scan functions
- Power on password protection
- PC programming capability
- CI-V Commands for external control
- VE-PG3 RoIP gateway for interconnect with other radio devices
- Compliant with European E-marking for installation in vehicles

OPTIONS

Bluetooth® UNIT & Bluetooth® HEADSET



UT-133



VS-3
Use with UT-133 in a pair.

HAND MICROPHONES



HM-216
Same as supplied.



HM-217
Speaker-microphone.

HEADSET ADAPTER



OPC-871A
To interconnect with a third-party aviation headset.

RoIP GATEWAY & CABLE



OPC-2275

VE-PG3
To interconnect with other radio devices.

SPECIFICATIONS

GENERAL	USA version	EUR version
Frequency coverage (Tx/Rx)	118.000–136.992MHz	
Channel spacing	25kHz/8.33kHz	
Type of emission	A3E (AM)	
Operating temperature	–30˚C to +60˚C	–20˚C to +55˚C
Frequency stability	±5ppm (–30˚C to +60˚C)	±1ppm (0˚C to +40˚C)
Antenna connector	M type (50Ω)	
Number of memory channels	200 channels	
Power supply requirement	13.75V/27.5V DC	
Current drain (at 13.75V)		
Transmitting	5.0A (maximum)	
Receiving	4.0A (at AF max.), 0.5A (at stand-by)	
Dimensions (W×H×D, Projections not included)	161×45×193 (mm); 6.34×1.77×7.6 (in) (approximately)	
Weight (approximately)	1.5kg; 3.3lb	
TRANSMITTER	**USA version**	**EUR version**
Output power (at 13.75V) (Carrier Power)	9.0W typ.	9.0W +1.5dB/–3dB (–20˚C to +55˚C)
Spurious emissions (* Harmonics/Non-harmonics, 30MHz–1GHz)	Less than 60dB	Less than –36dBm/ Less than –46dBm*
Modulation	70% to 100%	Linear 85% Max. 95%
Microphone impedance	600Ω	
RECEIVER	**USA version**	**EUR version**
Intermediate frequencies	38.85MHz/450kHz (1st/2nd)	
Sensitivity	1 µV (6dB S/N)	1.8 µV (12dB SINAD)
Selectivity 8.33kHz	2.778/7.37kHz (6dB/60dB)	
25kHz	8/25kHz (6dB/60dB)	
Spurious response	More than 74dBµ	More than 70dB
Audio output power	(10% distortion, 60% modulation)	
Internal SP (8Ω load)	1.5W typical	
External SP (8Ω load)	More than 10W	
Headphone (500Ω load)	More than 100mW	

Measurements made in accordance with FCC Part 87 for USA version or EN 300 676-1 for Europe version. All stated specifications are subject to change without notice or obligation.

Applicable U.S. Military Specifications

Standard	MIL 810 G	
	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
Humidity	507.5	II
Vibration	514.6	I
Shock	516.6	I

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

Applicable IP Rating

Ingress Protection Standard	
Dust & Water	IP54 (Dust-protection and water resistance)

Supplied Accessories

- ❍ Hand microphone, HM-216
- ❍ DC power cable
- ❍ Microphone hanger kit
- ❍ Mounting bracket kit
- ❍ Fuses

Icom, Icom Inc. and the Icom logo are registered trademarks of Icom Incorporated (Japan) in Japan, the United States, the United Kingdom, Germany, France, Spain, Russia, Australia, New Zealand, and/or other countries. The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Icom Inc. is under license. All other trademarks are the properties of their respective holders.

Icom Inc. 1-1-32, Kami-minami, Hirano-Ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013 **www.icom.co.jp/world**

Count on us!

Icom America Inc.
12421 Willows Road NE,
Kirkland, WA 98034, U.S.A.
Phone: +1 (425) 454-8155
Fax: +1 (425) 454-1509
E-mail: sales@icomamerica.com
URL: http://www.icomamerica.com

Icom (Europe) GmbH
Communication Equipment
Auf der Krautweide 24
65812 Bad Soden am Taunus, Germany
Phone: +49 (6196) 76685-0
Fax: +49 (6196) 76685-50
E-mail: info@icomeurope.com
URL: http://www.icomeurope.com

Icom France s.a.s.
Zac de la Plaine,
1 Rue Brindejonc des Moulinais, BP 45804,
31505 Toulouse Cedex 5, 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

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

Icom Canada
Glenwood Centre #150-6165
Highway 17A, Delta, B.C.,
V4K 5B8, Canada
Phone: +1 (604) 952-4266
Fax: +1 (604) 952-0090
E-mail: info@icomcanada.com
URL: http://www.icomcanada.com

Icom Spain S.L.
Ctra. Rubi, No. 88 "Edificio Can Castanyer"
Bajos A 08174, 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

Icom (Australia) Pty. Ltd.
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

Shanghai Icom Ltd.
No.101, Building 9, Caifuxingyuan Park,
No.188 Maoting Road, Chedun Town,
Songjiang District, Shanghai, 201611, China
Phone: +86 (021) 6153 2768
Fax: +86 (021) 5765 9987
E-mail: bjicom@bjicom.com
URL: http://www.bjicom.com

Icom Brazil
Rua Itororó, 444 Padre Eustáquio
Belo Horizonte MG,
CEP: 30720-450, Brazil
Phone: +55 (31) 3582 8847
Fax: +55 (31) 3582 8987
E-mail: sales@icombrazil.com

Icom (UK) Ltd.
Blacksole House, Altira Park,
Herne Bay, Kent, CT6 6GZ, U.K.
Phone: +44 (0) 1227 741741
Fax: +44 (0) 1227 741742
E-mail: info@icomuk.co.uk
URL: http://www.icomuk.co.uk

Icom New Zealand
39C Rennie Drive, Airport Oaks,
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

Your local distributor/dealer:

maritime aviation

+44 (0)239 2000 760

supply@maritimeaviation.com

maritimeaviation.com

Riverside House, Upper Wharf, Fareham, Hampshire, PO16 0LY, United Kingdom

A4 15BS0260 © 2015 Icom Inc. Printed in Japan