

# **High-Quality Panel Mount Radio** with Clear Visibility OLED Screen

# **High Visibility OLED Screen**

The OLED (Organic Light Emitting Diode) emits light from itself, so a display back-



light is not required. It provides higher contrast, wider viewing angle of almost 180 degrees and faster response time than a conventional LCD. The IC-A220's display has a wide active area, operating frequencies' characters can be maximized in the display, while operating status can be shown on both top and bottom of the display.

# **Large Switch Buttons**

The IC-A220 has large switch buttons on the front panel. The most frequently used FLIP-FLOP (Frequency exchange) switch button is designed large enough to be pushed with ease. All switch buttons and knobs are illuminated with pure-white backlighting which are the same color as the OLED display.

## **TSO/ETSO Certification**

The IC-A220 TSO version can be used as a primary VHF radio in general aviation (part 23) aircraft\*. The IC-A220 TSO version is also accepted as an ETSO radio under the TSO/ETSO reciprocal acceptance policy.

# **Auto Squelch Function**

The squelch sensitivity is automatically adjusted in accordance with the noise level to eliminate annoying background noise and unwanted signals.

# **Quick Squelch Adjustment**

The auto and manual squelch including squelch level can be quickly accessed with the Volume knob. The squelch test function temporarily opens the squelch and allows you to monitor signals.

#### **Auto Dimmer**

The auto dimmer function sets display and key backlighting brightness. The IC-A220's high sensitivity light sensor covers a wide illumination range.

# **External Dimmer Control**

By connecting to an external dimmer control system on the aircraft, the IC-A220's dimmer function can be linked with the aircraft dimmer level. The external dimmer control can be used on either 13.8 V or 27.5 V electrical systems.

#### **Intercom Function**

The IC-A220 has a built-in voice activated intercom function allowing the pilot to talk with the copilot via the headset. The IC-A220 has adjustable audio level and squelch control functions.

# **Memory Channels**

The IC-A220 has 20 memory channels and 20 history memory channels respectively. Often used memory channels can be instantly recalled. Group memory channels are organized into 10 memory channels by 5 groups (total 50 channels). Weather channel scanning function searches for weather channel signals.

## 8.33 kHz Channel Spacing

The IC-A220 allows switching between 8.33 kHz and 25 kHz frequency steps in the menu mode.

\* Use of 8.33 kHz channel spacing may be prohibited depending on country.

# **Remote Control Capability**

You can remotely control the FLIP-FLOP (frequency exchange), intercom and recall switches via the rear panel connector.

# **9 V Power Supply Operation**

As the TSO specifications require, the radio continues to work with the reduced power supply voltage.

# **Configuration Menu**

To improve operability, menu items are divided into two modes, a settings menu and a configuration menu. Seldom-changed settings can be set in the configuration menu, while normal settings can be made in the settings menu.

## **Other Features**

- Dualwatch and priority watch functions
- One touch access to 121.5 MHz emergency frequency
- Both 13.8 V and 27.5 V electrical systems compatible
- Side tone function for monitoring your voice with a headset
- ANL (Automatic noise limiter) function reduces pulse type noise
- D-SUB 25-pin connector and MIL-Spec M39029/63-368 compliant socket pins
- Slim 33 mm (1.3 inch) height can be installed in a limited panel space

#### **SPECIFICATIONS**

GENERA	.L		
Frequenc	y coverage		
Tx/Rx	8.33 kHz spacing	118.000-136.992 MHz	
	25 kHz spacing	118.000-136.975 MHz	
Rx	Weather channel	161.650-163.275 MHz	
Frequency spacing		8.33 kHz/25 kHz	
Mode		AM (6K00A3E, 5K60A3E)	
Frequency stability		±5 ppm	
Operating temperature		-20°C to +55°C; -4°F to +131°F	
Antenna impedance		50 Ω	
Number of memory channels		20 regular, 50 group memory,	
		20 history, 10 weather channels	
Power supply requirement		13.8 V/27.5 V DC (Negative ground)	
Dimensions (W×H×D,		160×34×271 mm;	
Projections not included)		6.3×1.34×10.67 in	
Weight		1.2 kg; 2.65 lb ±10%	
Certification		TSO-C128a, TSO-C169a	
TRANSM	IITTER		
Output power		8 W (Carrier power)	
Spurious emission		-60 dBc	
Modulation limiting		70% (Maximum 98%)	
Microphone impedance		600 Ω	
RECEIVE	R		
Intermediate frequencies		38.85 MHz/450 kHz (1st/2nd)	
Sensitivity	y AM (6 dB S/N)	Less than 2 μV	
FM (12 dB SINAD)		Less than 1.4 μV	
Selectivit	y 25 kHz spacing	±3 kHz/±22 kHz (6 dB/60 dB)	
	8.33 kHz spacing	±2.778 kHz/±7.37 kHz (6 dB/60 dB)	
Spurious response		More than 74 dBµ	
Audio output power			
	External SP	5 W with a 4 $\Omega$ load	
	Headphone	60 mW with a 500 Ω load	
M	anta mada in aaa	ordance with RTCA DO-186R	

Measurements made in accordance with RTCA DO-186B for USA version.

#### **Applicable U.S. Military Specifications**

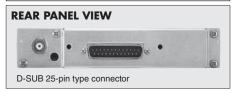
Standard	MIL 810 G			
Statituatu	Method	Procedure		
Low Pressure	500.5	I, II		
High Temperature	501.5	I, II		
Low Temperature	502.5	I, II		
Temperature Shock	503.5	I-C		
Solar Radiation	505.5	I		
Humidity	507.5	II		
Vibration	514.6	I		
Shock	516.6	I		
Also master a minimiser MIL OTD 040 O. D. E and E				

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

# Supplied Accessories

O Mounting bracket kit

www.icom.co.jp/world



\* For more details, please see the Environmental Qualification Form on www.icomamerica.com.
The IC-A220 TSO version is manufactured and serviced by Icom America Inc. All repairs or adjustment information will be provided

The IC-A220 TSO version is manufactured and serviced by Icom America Inc. All repairs or adjustment information will be provided from Icom America. (http://www.icomamerica.com)

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

lcom, 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.

# 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 Canada

Glenwood Centre #150-6165 Highway 17A, Delta, B.C., V4K SB8, Canada Phone: +1 (604) 952-4266 Fax: +1 (604) 952-0090 E-mall: info®icomcanada.com URL: http://www.icomcanada.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 (Europe) GmbH

Communication Equipment Auf der Krauttweide 24 65812 Bad Soden am Taunus, Germany Phone: +49 (6196) 76685-5 Fax: +49 (6196) 76685-50 E-mail: info@icomeurope.com URL: http://www.icomeurope.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 (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 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

## 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.a

#### 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

#### 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

# 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 Your local distributor/dealer:

Count on us!