



## *Innovative airband that's easier to install and see in more places*

### White OLED Display and White Key Backlight

The IC-A220 has a bright organic light emitting diode (OLED) display with a very wide 170 degree viewing angle. White characters on a black background show clear easy to read operating information. With white key backlighting, the white OLED display matches modern plane's instrument panel. In addition, the auto dimmer function adjusts the display for optimum brightness at day or night.



Operating information is clearly shown on the OLED display.

### Easy Channel Selection

It's fast and easy to select any of memory channels in the IC-A220. The "flip-flop" arrow button switches between main and stand-by channels. The dualwatch function allows you to monitor two channels simultaneously. In addition, the auto stack memory stores the last 20 channels used and allows you to recall those channels easily.

### Automatic Squelch Function

The new automatic squelch function detects the signal level and automatically adjusts the squelch level to maintain a received call. The manual squelch function allows you to instantly adjust the squelch level. The squelch test function manually opens the squelch for testing.



Installation example

## 12V/24V DC Power Source

The built-in DC-DC converter accepts a 12/24V DC power source. The IC-A220 is easily installed in most air planes or vehicles.

## Intercom Functions

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.

## GPS Memory Function

When connected to an external GPS receiver\* equipped with an airport frequency database, the frequency data such as nearby airports can be transferred and made available in the IC-A220.

\* Ask your dealer for available GPS receiver details.

## Other Features

- 20 regular memory channels with a 6-character channel name
- 50 group memory channels (10 Ch x 5 groups) with a channel tag
- Automatic weather channel scanning and receive (USA version only)
- Dualwatch and priority watch functions
- One touch access to 121.5 MHz emergency frequency
- Side tone function for monitoring your voice with headset
- ANL (Automatic noise limiter) function reduces pulse type noise
- Remote control capability
- PC programming capability
- Dial lock and panel lock • Time-out-timer
- Slim 34mm (1.34 inch) height can be installed in a limited panel space
- D-Sub 25-pin industry standard connector for easy installation
- Two types of menu mode; settings menu and configuration menu

## OPTIONS

### MB-53 MOUNTING BRACKET



External speaker, SP-35 and microphone, HM-176 are included.

### PS-80 POWER SUPPLY



HM-176 and MBA-3 rear panel are supplied, depending on version.  
 • 200(W) x 200(H) x 300(D) mm  
 • 13.8V DC/6A output

### HM-176 HAND MICROPHONE



Same as supplied with MB-53 and PS-80.

### SP-35 EXTERNAL SPEAKER



Same as supplied with MB-53.

### MBA-3 REAR PANEL ADAPTER



For installation into a card edge connector equipment including PS-80.

## SPECIFICATIONS

GENERAL	
Frequency coverage	118.000-136.992MHz
Tx/Rx 8.33kHz spacing	118.000-136.975MHz
25kHz spacing	161.650-163.275MHz* (* USA version)
Rx Weather channel	
Frequency spacing	8.33kHz/25kHz
Mode	AM (6K00A3E, 5K60A3E)
Frequency stability	±5ppm
Operating temperature	-20°C to +55°C
Antenna impedance	50Ω
Number of memory channels	20 regular, 50 group, 10 GPS, 10 weather*, 20 auto stack memory (* USA version only.)
Power supply requirement	13.8V/27.5V DC (Negative ground)
Dimensions (WxHxD, Projections not included)	160x34x271 mm; 6.3x1.34x10.67 in
Weight (approximately)	1.0kg; 2.2lb
TRANSMITTER	
Output power	8W (Carrier power)
Spurious emission	-60dBc
Modulation limiting	70% (Maximum 98%)
Microphone impedance	600Ω
RECEIVER	
Intermediate frequencies	38.85MHz/450kHz (1st/2nd)
Sensitivity AM (6dB S/N)	Less than 2μV
FM (12dB SINAD)	Less than 1.4μV
Selectivity 25kHz spacing	±3kHz/±22kHz (6dB/60dB)
8.33kHz spacing	±2.778kHz/±7.37kHz (6dB/60dB)
Spurious response	More than 74dBμ
Audio output power	
External SP	5W with a 4Ω load
Headphone	60mW with a 500Ω load

Measurements made in accordance with RTCA DO-186B for USA version. All stated specifications are and 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.

### Supplied Accessories

- Mounting bracket kit

### REAR PANEL VIEW



D-Sub 25-pin type connector

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