



# 6 W (PEP) Powerful Air Band Radio with Built-in GPS and Bluetooth® Capability

## VHF AIR BAND TRANSCEIVERS

**IC-A25N**

NAV & COM channels for USA/EXP

**IC-A25C**

COM channels for USA/EXP

**IC-A25NE**

NAV & COM channels for EUR/AUS

**IC-A25CE**

COM channels for EUR/AUS

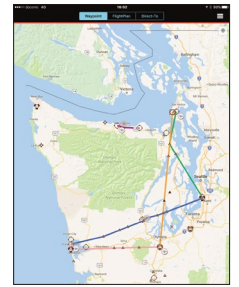


### General Features

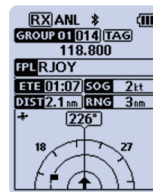
- Class-leading 6 W typical (PEP) and 1.8 W typical (carrier) high power RF output
- Easy-to-use interface
- 2.3 inch large high-visibility LCD with night mode
- “Flip-Flop” channel recall
- Bluetooth® capability for hands-free operation (IC-A25N/NE)
- Intelligent battery with detailed battery status
- 25 kHz/8.33 kHz dual channel spacing

### Navigation Functions (IC-A25N/NE)

- Built-in GPS with simplified waypoint NAV (Direct-To NAV and Flight Plan NAV)
- Flight plans with Android™ /iOS™ app RS-AERO1A/RS-AERO1I
- VOR navigation functions
- Near station search function



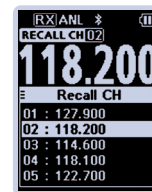
RS-AERO1I map screen example



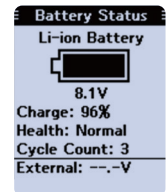
Waypoint NAV screen



VOR screen



Night mode screen



Detailed battery information screen

### And more

- IP57 dust-protection and waterproof construction
- 2350 mAh typ. battery pack, BP-288 supplied • BP-289 battery case supplied (depending on version)
- BNC antenna • 121.5 MHz emergency key • NOAA weather channels (IC-A25N/C)
- Priority watch • VFO scan, memory channel scan and priority scan • ANL (Auto Noise Limiter) for pulse-type noise reduction • Side tone function enables you to hear your own voice through a third party aviation headset • Built-in VOX capability • 300 memory channels (in 15 memory groups) with 12 character names • 8.33 kHz/25 kHz channel spacing (depending on version) • External DC power jack • Optional waterproof speaker microphone, HM-231

#### Supplied accessories: (\* Not supplied or may differ, depending on the radio version.)

- BP-288 battery pack
- BP-289 battery case\*
- BC-224 rapid charger\*
- BC-123SA/SE/SV AC adapter for BC-224\*
- OPC-2379 headset adapter\*
- FA-B02AR antenna
- MB-133 belt clip
- Hand strap

# Class Leading 1500 mW Powerful Audio with a Compact Body

## VHF AIR BAND TRANSCEIVERS

### IC-A16

For USA

### IC-A16E

For EUR



### General Features

■ 8.33 kHz and 25 kHz channel spacing

■ 1500 mW loud audio provides clear communications

■ 6 W (PEP) /1.8 W (carrier) RF output power

■ Bluetooth® capability for Hands-Free operation\*

\* Bluetooth® operation depends on the transceiver version.

■ Large capacity battery pack provides 17 hours\* of long battery life

\* With BP-280. Typical operation with TX : RX : Standby = 5:5:90. (Bluetooth® OFF, backlight OFF)

■ Compact, waterproof and durable body (IP67/IP54 and MIL-STD-810-G)

■ LCD and key backlight for night time operation

■ Compatible\* with third-party aviation headsets

\* Optional headset adapter OPC-2401 required.

### And more

- Auto Noise Limiter (ANL) for noise reduction
- Side Tone function
- Internal VOX capability
- 200 memory channels with names up to 8 characters
- BNC type antenna connector
- VFO scan for all frequencies over the COM band and memory channel scan for tagged channels
- NOAA Weather channels (USA version only)
- Optional waterproof speaker microphone, HM-240
- Low battery indication
- 121.5 MHz emergency key
- Duplex function to call a flight service station while receiving on a VOR frequency (USA version only)



LCD and keypad backlight



IP67 waterproofing



1500 mW powerful audio

#### Supplied accessories: (\* Not supplied or may differ, depending on the radio version.)

- BP-280 battery pack
- BC-242 AC adapter for BC-213\*
- MB-133 belt clip
- BC-213 rapid charger\*
- FA-B02AR antenna
- Hand strap

# High-Quality Panel Mount Radio with TSO Certification



IC-A220 TSO version

- TSO certified to be used as a primary VHF radio in general aviation (Part 23) aircraft (Certified TSO C128a and C169a)
- The IC-A220 TSO version is also accepted as an ETSO radio under the TSO/ETSO reciprocal acceptance policy
- High visibility OLED (Organic Light Emitting Diode) screen
- Easy channel selection with large “Flip-Flop” arrow button
- Auto squelch function and quick squelch adjustment
- Quick squelch adjustment with the Volume knob
- Auto dimmer function and external dimmer control
- Intercom function

## VHF AIR BAND TRANSCEIVER

# IC-A220

 TSO version

### And more

- 8.33 kHz/25 kHz channel spacing with the mixed selection function
- Remote control capability via the rear panel connector
- 9 V power supply operation
- 20 memory channels and 20 history memory channels
- Dualwatch and priority watch functions
- One touch access to 121.5 MHz emergency frequency
- Side tone function
- ANL (Automatic Noise Limiter) function reduces pulse type noise
- Time-out-timer
- D-SUB 25-pin connector and MIL-Spec M39029/63-368 compliant socket pins
- Two types of menu mode; settings menu and configuration menu
- Both 13.8 V and 27.5 V electrical systems compatible
- NOAA weather channel receive
- 8 W carrier power

\* For more details, see the Environmental Qualification Form at [www.icomamerica.com](http://www.icomamerica.com). 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>)

**Supplied accessory:** Mounting bracket kit

# Ideal Communication Tool for Your Experimental/Light Sport Aircraft or Ground Use



IC-A220

- High visibility OLED (Organic Light Emitting Diode) screen
- GPS memory function\* for transmitting frequency data of nearby airports \* External GPS receiver required.
- Easy channel selection with large “Flip-Flop” arrow button
- Auto squelch function and quick squelch adjustment
- Auto dimmer function and external dimmer control
- Intercom function
- Optional PS-80 power supply for desktop use

## VHF AIR BAND TRANSCEIVER

# IC-A220

For USA

### And more

- 8.33 kHz/25 kHz channel spacing with the mixed selection function
- Remote control capability through a rear panel connector
- 20 memory channels and 20 history memory channels
- Dualwatch and priority watch functions
- One touch access to 121.5 MHz emergency frequency
- Side tone function for monitoring your voice with a headset
- ANL (Automatic Noise Limiter) function reduces pulse type noise
- PC programming capability
- Dial lock and panel lock
- Time-out-timer
- D-SUB 25-pin connector and MIL-spec M39029/63-368 compliant socket pins
- Two types of menu mode; settings menu and configuration menu
- Both 13.8 V and 27.5 V electrical systems compatible
- NOAA weather channel receive
- 8 W carrier power

**Supplied accessory:** Mounting bracket kit

# Stay Connected with Various Airport Systems



IC-A210E

- High visibility OLED (Organic Light Emitting Diode) screen
- GPS memory function\* for transmitting frequency data of nearby airports \* External GPS receiver required.
- Easy channel selection with large “Flip-Flop” arrow button
- Auto dimmer function
- Intercom function
- Easy installation with two types of rear-panel adapters

## VHF AIR BAND TRANSCEIVER

### IC-A210E

For EUR

#### And more

- 8.33 kHz/25 kHz channel spacing with the mixed selection function
- Remote control capability via the rear panel connector
- 10 regular memory channels with a 6-character channel name
- 200 group memory channels (20 Chx10 banks) with a channel tag
- 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
- Time-out-timer
- PC programming capability
- Squelch test function
- Dualwatch and priority watch functions
- Both 13.8 V and 27.5 V electrical systems compatible
- 6 W typ. carrier power
- Dial lock and panel lock

**Supplied accessories:** (\* Not supplied, depending on the radio version.)

- Mounting bracket kit
- MB-113 rear panel adapter\*

# Enhanced Ground Crew Communications



IC-A120

- Full dot-matrix display, simple operation
- Optional Bluetooth® headset connectivity
- Active Noise Cancelling (ANC) for background noise reduction
- IP54 dust-protection and water resistance
- ON-hook scan function
- Optional speaker-microphone, HM-217 with two programmable buttons

## VHF AIR BAND TRANSCEIVERS

### IC-A120

For USA/EXP

### IC-A120E

For EUR










#### And more

- Dualwatch and priority scan functions
- Side tone function enables you to hear your own voice via a third party aviation headset
- A total of 200 memory channels with 12-character channel names
- Both 13.8 V and 27.5 V electrical system compatible
- 8.33 kHz and 25 kHz channel spacing (depending on version)
- 36 W (PEP) RF output power
- Power on password protection
- PC programming capability
- CI-V Commands for external control
- VE-PG4 RoIP gateway for interconnect with other radio devices
- Compliant with European E-marking for installation in vehicles (IC-A120E)

**Supplied accessories:**

- HM-216 hand microphone
- DC power cable
- Mounting bracket kit
- Microphone hanger kit
- Fuses










# OPTIONS FOR HANDHELD TRANSCEIVERS

	BATTERY PACKS				BATTERY CASE	CHARGERS		MULTI-CHARGER	AC ADAPTER
<b>MODEL NAME</b>	<b>BP-288</b> Li-ion: 7.2 V/2200 mAh (min.) 2350 mAh (typ.) 	<b>BP-278</b> Li-ion: 7.2 V/1130 mAh (min.) 1190 mAh (typ.) 	<b>BP-279</b> Li-ion: 7.2 V/1485 mAh (min.) 1570 mAh (typ.) 	<b>BP-280</b> Li-ion: 7.2 V/2280 mAh (min.) 2400 mAh (typ.) 	<b>BP-289</b> LR6 (AA) x 6 cells 	<b>BC-224</b> Rapid charger 	<b>BC-213</b> Rapid charger 	<b>BC-214N</b> Rapid multi-charger 	<b>BC-123S</b> *2 12 V/1 A <b>BC-242</b> 12 V/1 A  (Photo shows BC-242)
<b>IC-A25N/A25NE</b> <b>IC-A25C/A25CE</b>	✓				✓	✓			✓ (Use BC-123S with BC-224)
<b>IC-A16/A16E</b>		✓	✓	✓			✓	✓*1	✓ (Use with BC-213)

\*1 AD-130 charger adapter is supplied with the BC-214N, depending on the charger version.  
\*2 BC-123SA for USA plug, SE for Europe plug, SV for Australia plug, UK for UK plug.

	AC ADAPTER	DC POWER CABLES		CIGARETTE LIGHTER CABLES		SPEAKER MICROPHONES		HEADSET ADAPTERS	Bluetooth® HEADSET
<b>MODEL NAME</b>	<b>BC-157S</b> 12 V/7.5 A 	<b>OPC-515L</b> 	<b>OPC-656</b> 	<b>CP-20</b> 	<b>CP-23L</b> 	<b>HM-231</b> Waterproof 	<b>HM-240</b> Waterproof 	<b>OPC-2379</b> <b>OPC-2401</b>  (Photo shows OPC-2379)	<b>VS-3</b> The side tone function is available. 
<b>IC-A25N/A25NE</b> <b>IC-A25C/A25CE</b>				✓		✓	✓	✓ (OPC-2379)	✓
<b>IC-A16/A16E</b>	✓ (Use with BC-214N)	✓ (Use with BC-213)	✓ (Use with BC-214N)		✓ (Use with BC-213)		✓	✓ (OPC-2401)	✓*3

\*3 For the versions with built-in Bluetooth®.

	BELT CLIP	LEATHER BELT HANGERS			CHARGER BRACKET	ANTENNA	APPLICATION	PROGRAMMING CABLES	PROGRAMMING SOFTWARE
<b>MODEL NAME</b>	<b>MB-133</b> 	<b>MB-96F</b> Fixed type 	<b>MB-96FL</b> Long type 	<b>MB-96N</b> Swivel type 	<b>MB-130</b> 	<b>FA-B02AR</b> 	<b>RS-AERO1A</b> Android™ app <b>RS-AERO1I</b> iOS™ app 	<b>OPC-478UC-1</b> USB type <b>OPC-2144</b> Plug adapter cable 	<b>CS-A25</b> <b>CS-A16</b> For Windows® PC 
<b>IC-A25N/A25NE</b> <b>IC-A25C/A25CE</b>	✓	✓ (Use with MB-133)	✓ (Use with MB-133)	✓		✓	✓ (IC-A25N/A25NE)	✓ (OPC-478UC-1+OPC-2144)	✓ (CS-A25)
<b>IC-A16/A16E</b>	✓	✓ (Use with MB-133)	✓ (Use with MB-133)	✓	✓ (Use with BC-213)	✓		✓ (OPC-478UC-1)	✓ (CS-A16)

## RS-AERO1A/RS-AERO1I Flight Planning Software

(Free Download Android™/iOS™ Application from Google Play™/App Store)

Using the RS-AERO1A (Android™) or RS-AERO1I (iOS™) application, you can make flight plans on an Android/iOS device and import the plan into the IC-A25N/A25NE via Bluetooth®.

The following four functions are available:

### 1. Create a flight plan

You can make flight plans on an Android/iOS device by using preprogrammed waypoints.

### 2. Set Direct-To NAV

You can select a point on the map and export it to the IC-A25N/NE for Direct-To NAV.

### 3. Display flight plan information

A flight plan in the IC-A25N/NE can be displayed on an Android/iOS device.

### 4. Display waypoint information

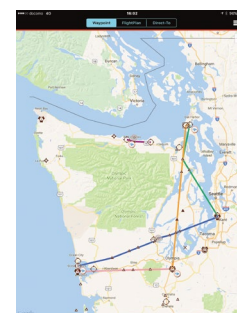
Preprogrammed waypoints can be exported to an Android/iOS device and plotted on a map application.



Google Play  
RS-AERO1A
















App Store  
RS-AERO1I





RS-AERO1I map screen example  
©2017 Google-Map data /©2017 Google

# OPTIONS FOR PANEL MOUNT AND MOBILE TRANSCEIVERS

	HAND MICROPHONES			Bluetooth® HEADSET	Bluetooth® UNIT	HEADSET ADAPTER	REAR PANEL ADAPTERS	
<b>MODEL NAME</b>	<b>HM-176</b> Same as supplied with PS-80 and MB-53. 	<b>HM-216</b> 	<b>HM-217</b> Speaker-microphone 	<b>VS-3</b> 	<b>UT-133A</b> 	<b>OPC-871A</b> 	<b>MBA-3</b> Card edge connector for use with PS-80. 	<b>MB-113</b> For D-sub 15-pin connection system 
<b>IC-A220 TSO version</b>								
<b>IC-A220</b>	<input checked="" type="checkbox"/> (Use with PS-80/MB-53)						<input checked="" type="checkbox"/>	
<b>IC-A210E</b>	<input checked="" type="checkbox"/> (Use with MB-53)							<input checked="" type="checkbox"/>
<b>IC-A120/A120E</b>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> (Use with UT-133A)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

	EXTERNAL SPEAKER	MOUNTING BRACKET	DC POWER SUPPLY	RoIP GATEWAY	CONNECTION CABLE
<b>MODEL NAME</b>	<b>SP-35</b> 	<b>MB-53</b> 	<b>PS-80</b> 	<b>VE-PG4</b> 	<b>OPC-2275</b> For connection with VE-PG4. 5m; 16.4ft 
<b>IC-A220 TSO version</b>					
<b>IC-A220</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<b>IC-A210E</b>		<input checked="" type="checkbox"/>			
<b>IC-A120/A120E</b>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

	PROGRAMMING CABLES		PROGRAMMING SOFTWARE
<b>MODEL NAME</b>	<b>OPC-1529R</b> RS-232 cable 	<b>OPC-478UC-1</b> USB type <b>OPC-592</b> Adapter cable  (Photo shows OPC-478UC-1)	<b>CS-A220</b> <b>CS-A210</b> <b>CS-A120</b> For Windows® PC
<b>IC-A220 TSO version</b>			
<b>IC-A220</b>	<input checked="" type="checkbox"/> (OPC-1529R)		<input checked="" type="checkbox"/> (CS-A220)
<b>IC-A210E</b>	<input checked="" type="checkbox"/> (OPC-1529R)		<input checked="" type="checkbox"/> (CS-A210)
<b>IC-A120/A120E</b>		<input checked="" type="checkbox"/> (OPC-478UC-1+OPC-592)	<input checked="" type="checkbox"/> (CS-A120)

:Applicable     :Not applicable

Some options may not be available in some countries, or unavailable due to no T/A. Please ask your dealer for details.

# SPECIFICATIONS

## HANDHELD TRANSCEIVERS

	IC-A25N IC-A25C	IC-A25NE IC-A25CE	IC-A16	IC-A16E
NAV/COM channels	VOR NAV & COM (IC-A25N) COM (IC-A25C)	VOR NAV & COM (IC-A25NE) COM (IC-A25CE)	COM	COM
Built-in GPS	✓(IC-A25N)	✓(IC-A25NE)	–	–
Bluetooth®	✓(IC-A25N)	✓(IC-A25NE)	✓(Depending on the version)	
IP rating	IP57	IP57	IP67/IP54	
Flip-flop channel recall	✓	✓	–	–
MIL-STD 810	✓(G)	✓(G)	✓(G)	✓(G)
Android™/iOS™ app for flight planning	✓(IC-A25N)	✓(IC-A25NE)	–	–
Frequency range (unit: MHz)	TX 118.000–136.992 RX IC-A25N 108.000–136.992 161.650–163.275 (Weather) IC-A25C 118.000–136.992 161.650–163.275 (Weather)	118.000–136.992 IC-A25NE 108.000–136.992 IC-A25CE 118.000–136.992	118.000–136.992 108.000–136.992 161.650–163.275 (Weather)	118.000–136.992 118.000–136.992
Number of memory channels	300 channels (15 groups)		200 channels (10 groups)	
Channel spacing <sup>1</sup>	25 kHz/8.33 kHz		25 kHz/8.33kHz	
Power supply requirements	7.2 V DC (BP-288) 11.0 V DC (External DC jack)		7.2 V DC (BP-280)	
Current drain	1.8 A 90 mA typical (GPS, Bluetooth, Light:OFF) 500 mA		1.8 A 65 mA typical 650 mA	
Dimensions <sup>2</sup> (W×H×D)	58.9 × 148.4 × 31.8 mm; 2.3 × 5.8 × 1.3 in		52.2 × 111.8 × 34.1 mm; 2.1 × 4.4 × 1.3 in	
Weight (approx.)	384 g; 13.6 oz (with BP-288 and ANT)		257 g; 9.1 oz (with BP-280)	
Operating temperature range	–10°C to +60°C; 14°F to +140°F	–20°C to +55°C	–10°C to +60°C; 14°F to +140°F	–20°C to +55°C
Frequency stability	±0.4 kHz	±1 ppm	±0.4 kHz	±1 ppm
Output power (PEP/carrier power)	6 W typical/1.8 W		6 W typical/1.8 W	
Microphone impedance	150 Ω		150 Ω	
Sensitivity (COM)	Less than 0 dBμ (at 6 dB S/N)	Less than 0 dBμ (at 12 dB SINAD with CCITT)	Less than 0 dBμ (at 6 dB S/N)	Less than 0 dBμ (at 12 dB SINAD with CCITT)
Adjacent channel rejection	–	More than 60 dB	–	More than 60 dB
Spurious response (COM)	More than 60 dB	More than 70 dB	More than 60 dB	More than 70 dB
Audio output power (at 10% distortion)	1200 mW typical (Internal SP) 530 mW typical into an 8 Ω load (External SP)		1500 mW typical (Internal SP) More than 350 mW into an 8 Ω load (External SP)	

## PANEL MOUNT TRANSCEIVERS and MOBILE TRANSCEIVERS

	IC-A220 (TSO version)	IC-A220	IC-A210E	IC-A120	IC-A120E
TSO certification	✓	–	–	–	–
NAV/COM channels	COM	COM	COM	COM	COM
Intercom	✓	✓	✓	–	–
Automatic SQL	✓	✓	–	–	–
Active Noise Canceling	–	–	–	✓	✓
Bluetooth®	–	–	–	✓(Use with UT-133A)	✓(Use with UT-133A)
IP rating	–	–	–	IP54	IP54
MIL-STD 810	✓(G)	✓(G)	✓(F)	✓(G)	✓(G)
Frequency range (unit: MHz)	TX 118.000–136.992 RX 108.000–136.992 161.650–163.275 (Weather)	118.000–136.992	118.000–136.992	118.000–136.992	118.000–136.992
Number of memory channels	20 channels (Regular)		10 channels (Regular)	200 channels	
Channel spacing <sup>1</sup>	25 kHz/8.33 kHz		–	25 kHz/8.33 kHz	
Power supply requirements	13.8 V or 27.5 V DC (automatic selection)		–	13.75 V or 27.5 V DC (automatic selection)	
Current drain	5.0 A maximum 500 mA 4.0 A		–	5.0 A maximum 500 mA maximum 4.0 A maximum	
Dimensions <sup>2</sup> (W×H×D)	160 × 34 × 271 mm; 6.3 × 1.3 × 10.7 in		–	161 × 45 × 175 mm; 6.3 × 1.8 × 6.9 in	
Weight (approx.)	1.2 kg; 2.6 lb		1.0 kg; 2.2 lb	1.5 kg; 3.3 lb (main unit)	
Operating temperature range	–20°C to +55°C		–	–30°C to +60°C	–20°C to +55°C
Frequency stability	±5 ppm		±1 ppm (0°C to +40°C)	±5 ppm (-30°C to +60°C)	±1 ppm (0°C to +40°C)
Carrier power	8.0 W		6.0 W (4.5–8 W)	9 W typical	9 W (+1.5 dB/–3 dB)
Microphone impedance	600 Ω		–	600 Ω	
Sensitivity (COM)	–101 dBμ (at 6 dB S/N)		–101 dBμ (at 12 dB SINAD)	Less than 0 dBμ (at 6 dB S/N)	Less than +5 dBμ (at 12 dB SINAD with CCITT)
Selectivity	8.33 kHz 25 kHz	±2.778/±7.37 kHz (6 dB/60 dB) ±3/±22 kHz (6 dB/60 dB)	±2.8 kHz (6 dB) ±8.5 kHz (6 dB)	–	–
Adjacent channel rejection	–		–	–	More than 60 dB
Spurious response (COM)	74 dBμ		70 dB	74 dBμ	70 dB
Audio output power (at 10% distortion)	5 W into a 4 Ω load (External SP) 60 mW into a 500 Ω load (Headphone)		–	1.5W typical (Internal SP) More than 10 W into an 8 Ω load (External SP) More than 100 mW into a 500 Ω load (Headphone)	

All stated specifications are subject to change without notice or obligation. \*1 Use of 8.33 kHz channel spacing may be prohibited in some countries. \*2 Projections are not included.

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Icom Inc.

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

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