

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)
iOS™ app for flight planning	✓ (IC-A25N)	✓ (IC-A25NE)	–	–
Frequency range (unit: MHz)	TX 118.000–136.992		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)		IC-A25NE 108.000–136.992 IC-A25CE 118.000–136.992	
Number of memory channels	300 channels (15 groups)		200 channels (10 groups)	
Channel spacing*1	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	TX High 1.8 A		1.8 A	
	RX Stand-by 90 mA typical (GPS, Bluetooth, Light:OFF)		65 mA typical	
	RX Max. audio 500 mA		650 mA	
Dimensions*2 (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		–10°C to +60°C; 14°F to +140°F	
Frequency stability	±0.4 kHz		±0.4 kHz	
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 6 dB S/N)	
Adjacent channel rejection	–		More than 60 dB	
Spurious response (COM)	More than 60 dB		More than 60 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			118.000–136.992	
	RX	108.000–136.992 161.650–163.275 (Weather)			118.000–136.992	
Number of memory channels		20 channels (Regular)			200 channels	
Channel spacing ^{*1}		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	TX High	5.0 A maximum			5.0 A maximum	
	RX Stand-by	500 mA			500 mA maximum	
	RX Max. audio	4.0 A			4.0 A maximum	
Dimensions ^{*2} (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		600Ω			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	±2.778/±7.37 kHz (6 dB/60 dB)		±2.8 kHz (6 dB)	–	–
	25 kHz	±3/±22 kHz (6 dB/60 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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Aviation Radios



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)

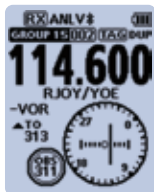
- Built-in GPS with simplified waypoint NAV (Direct-To NAV and Flight Plan NAV)
- Flight plans with iOS™ app RS-AERO1
- VOR navigation functions
- Near station search function



RS-AERO1 map screen example



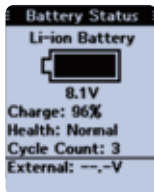
Waypoint NAV screen



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-213 rapid charger*
• BC-242 AC adapter for BC-213*	• FA-B02AR antenna
• MB-133 belt clip	• 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

Planned Release: Late 2024



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. 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
MODEL NAME	BP-288 Li-Ion: 7.2 V/2200 mAh (min.) 2350 mAh (typ.) 	BP-278 Li-Ion: 7.2 V/1130 mAh (min.) 1190 mAh (typ.) 	BP-279 Li-Ion: 7.2 V/1485 mAh (min.) 1570 mAh (typ.) 	BP-280 Li-Ion: 7.2 V/2280 mAh (min.) 2400 mAh (typ.) 	BP-289 LR6 (AA) x 6 cells 	BC-224 Rapid charger 	BC-213 Rapid charger 	BC-214N Rapid multi-charger 	BC-123S*2 12 V/1 A BC-242 12 V/1 A  (Photo shows BC-242)
IC-A25N/A25NE IC-A25C/A25CE	✓				✓	✓			✓ (Use BC-123S with BC-224)
IC-A16/A16E		✓	✓	✓			✓	✓*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
MODEL NAME	BC-157S 12 V/7.5 A 	OPC-515L 	OPC-656 	CP-20 	CP-23L 	HM-231 Waterproof 	HM-240 Waterproof 	OPC-2379 OPC-2401  (Photo shows OPC-2379)	VS-3 The side tone function is available. 
IC-A25N/A25NE IC-A25C/A25CE				✓		✓		✓ (OPC-2379)	✓
IC-A16/A16E	✓ (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
MODEL NAME	MB-133 	MB-96F Fixed type 	MB-96FL Long type 	MB-96N Swivel type 		MB-130 	FA-B02AR 	RS-AERO11 iOS™ app 	OPC-478UD USB type OPC-2144 Plug adapter cable  (Photo shows OPC-478UD)	CS-A25 CS-A16 For Windows® PC
IC-A25N/A25NE IC-A25C/A25CE	✓	✓ (Use with MB-133)	✓ (Use with MB-133)	✓			✓	✓ (IC-A25N/A25NE)	✓ (OPC-478UD+OPC-2144)	✓ (CS-A25)
IC-A16/A16E	✓	✓ (Use with MB-133)	✓ (Use with MB-133)	✓	✓ (Use with BC-213)	✓	✓		✓ (OPC-478UC-1)	✓ (CS-A16)

RS-AERO11 Flight Planning Software
(Free Download iOS™ Application from App Store)

Using the RS-AERO11 (iOS™) application, you can make flight plans on an 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 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 iOS device.

4. Display waypoint information

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



App Store
RS-AERO11



RS-AERO11 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	
MODEL NAME	HM-176 Same as supplied with PS-80 and MB-53. 	HM-216 	HM-217 Speaker-microphone 	VS-3 	UT-133A 	OPC-871A 	MBA-3 Card edge connector for use with PS-80. 	MB-113 For D-sub 15-pin connection system 
IC-A220 TSO version								
IC-A220	✓ (Use with PS-80/MB-53)						✓	
IC-A210E	✓ (Use with MB-53)							✓
IC-A120/A120E		✓	✓	✓ (Use with UT-133A)	✓	✓		

	EXTERNAL SPEAKER	MOUNTING BRACKET	DC POWER SUPPLY	RoIP GATEWAY	CONNECTION CABLE
MODEL NAME	SP-35 	MB-53 	PS-80 	VE-PG4 	OPC-2275 For connection with VE-PG4, 5m, 16.4ft 
IC-A220 TSO version					
IC-A220	✓	✓	✓		
IC-A210E		✓			
IC-A120/A120E				✓	✓

	PROGRAMMING CABLES		PROGRAMMING SOFTWARE
MODEL NAME	OPC-1529R RS-232 cable 	OPC-478UD USB type OPC-592 Adapter cable  (Photo shows OPC-478UD)	CS-A220 CS-A210 CS-A120 For Windows® PC
IC-A220 TSO version			
IC-A220	✓ (OPC-1529R)		✓ (CS-A220)
IC-A210E	✓ (OPC-1529R)		✓ (CS-A210)
IC-A120/A120E		✓ (OPC-478UD+OPC-592)	✓ (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.