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)	-	-		
TX	118.000-	-136.992	118.000-136.992	118.000-136.992		
Frequency range (unit: MHz) 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	108.000-136.992 161.650-163.275 (Weather)	118.000–136.992		
Number of memory channels	300 channels	s (15 groups)	200 channel	s (10 groups)		
Channel spacing*1	25 kHz/8	3.33 kHz	25 kHz/	8.33kHz		
Power supply requirements	7.2 V DC 11.0 V DC (Ext		7.2 V DC (BP-280)			
TX High		3 A	1.8 A			
Current drain RX Stand-by	90 mA typical (GPS, I	Bluetooth, Light:OFF)	65 mA typical			
RX Max. audio	500	mA	650 mA			
Dimensions*2 (W×H×D)	58.9 × 148.4 × 31.8 n	nm; 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		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 typic		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	1200 mW typic		1500 mW typical (Internal SP) More than 350 mW into an 8 Ω load (External SP)			
(at 10% distortion)	530 mW typical into an	8 Ω load (External SP)	More than 350 mW into a	an 8 12 load (External SP)		

PANEL MOUNT TRANSCEIVERS and MOBILE TRANSCEIVERS

	IC-A220 TSO version IC-A220		IC-A210E	IC-A120	IC-A120E	
TSO certification	<i>v</i>	_	_	_	_	
NAV/COM channels	COM	COM	COM	COM	COM	
Intercom	V V		v	-	-	
Automatic SQL	 ✓ 	 ✓ 	_	-	-	
Active Noise Canceling	-	-	_	 ✓ 	V	
Bluetooth®	-	-	-	✓ (Use with UT-133A)	✓ (Use with UT-133A)	
IP rating	-	-	-	IP54	IP54	
MIL-STD 810	✔(G)	✔(G)	✓ (F)	✔(G)	✔(G)	
Frequency TX		118.000-136.992		118.000-	-136.992	
range (unit: MHz) RX		-136.992 -163.275 (Weather)	118.000-136.992	118.000-	-136.992	
Number of memory channels	20 channel	s (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 select	tion)	13.75 V or 27.5 V DC (automatic selection)		
TX High		5.0 A maximum	5.0 A maximum			
Current drain RX Stand-by		500 mA 4.0 A		500 mA maximum		
RX Max. audio				aximum		
Dimensions*2 (W×H×D)		$0 \times 34 \times 271$ mm; $6.3 \times 1.3 \times 10.2$	7 in	161 × 45 × 175 mm; 6.3 × 1.8 × 6.9 in		
Weight (approx.)	1.2 kg; 2.6 lb		; 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 p		±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		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 (a		–101 dBµ (at 12 dB SINAD)	Less than 0 dBµ (at 6 dB S/N)	Less than +5 dBµ (at 12 dB SINAD with CCI	
Selectivity 8.33 kHz	±2.778/±7.37 kł		±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 mW into a 500 Ω load (Headpho	More than 10 W into an	(Internal SP) a 8 Ω load (External SP) 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.

Icom and 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. IOS is a trademark or registered trademark of Cisco in the U.S. and other countries and is used under license. App Store is a service mark of Apple Inc. The Bluetooth[®] word mark and logos are registered trademarks of spluetooth SIG, Inc. and any use of such marks by Icom Inc. is under license. Windows is either a registered trademark of Microsoft Corporation in the United States and/or other countries. All other trademarks are the properties of their respective holders. *Bluetooth® connection has not been tested for all Bluetooth® compatible devices with this product. This does not guarantee that all devices will work with this product.

Icom Inc. 1-1-32, Kamin	ninami, Hirano-Ku, Osaka 547-0003, Japan Pho	one: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013	www.icomjapan.com
Icom America Inc.	Icom (Europe) GmbH	Icom (Australia) Pty. Ltd.	Your local distributor/dealer:
www.icomamerica.com	www.icomeurope.com	www.icom.net.au	
Icom Canada	Icom Spain S.L.	Icom Asia Co., Ltd.	FELLECS LECH
www.icomcanada.com	www.icomspain.com	www.icomasia.com	
Icom Brazil	Icom (UK) Ltd.		Ihr Partner für Funktechnik
E-mail: sales@icombrazil.com	www.icomuk.co.uk		www.fellecs-tech.com
	Icom France s.a.s. www.icom-france.com		inbox@fellecs-tech.com



FELLECS TECH Ihr Partner für Funktechnik www.fellecs-tech.com inbox@fellecs-tech.com







```
© 2017-2024 Icom Inc.
```

Aviation Radios





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

Class Leading 1500 mW Powerful Audio with a Compact Body





VHF AIR BAND TRANSCEIVERS



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* ande 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 require

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

FELLECS-TECH | inbox@fellecs-tech.com | www.fellecs-tech.com

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





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

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

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



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 TRANSCEIVER



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 Ch×10 banks) with a channel tag . One touch access to 121.5 MHz emeraency 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



VHF AIR BAND TRANSCEIVERS





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 Microphone hanger kit

- Fuses
- DC power cable Mounting bracket kit

OPTIONS FOR HANDHELD TRANSCEIVERS

	BATTERY PACKS				BATTERY CASE	CHAP	GERS	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) × 6 cells	BC-224 Rapid charger	BC-213 Rapid charger	BC-214N Rapid multi-charger	BC-123S* ² 12 V/1 / BC-242 12 V/1 /
					•			222	(Photo shows BC-242)
IC-A25N/A25NE IC-A25C/A25CE	~				~	 ✓ 			(Use BC-123S with BC-224)
IC-A16/A16E		~	~	~			~	✓ ^{*1}	(Use with BC-213)

*2 BC-123SA for USA plug. SE for Europe plug. SV for Australia plug. UK for UK plug.

AC ADAPTER	DC POWE	R CABLES			SPEAKER M	ICROPHONES	HEADSET ADAPTERS	Bluetooth [®] HEADSET
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	VS-3 The side tone function is available.
<i>3</i> 78	Z	P	Fag	LP?	S	Ś	(Photo shows OPC-2379)	8
			~		~		(OPC-2379)	~
(Use with BC-214N)	(Use with BC-213)	(Use with BC-214N)		(Use with BC-213)		~	(OPC-2401)	✓* ³
	BC-157S 12 V/7.5 A	BC-157S 12 V/7.5 A	BC-157S 12 V/7.5 A	AC ADAPTER DC POWER CABLES CAR BC-157S 12 V/7.5 A OPC-515L OPC-656 CP-20 Image: Comparison of the second seco	BC-157S OPC-515L OPC-656 CP-20 CP-23L JUID B JUID B <td>AC ADAPTER DC POWER CABLES CABLES SPEAKER M BC-157S 12 V/7.5 A OPC-515L OPC-656 CP-20 CP-23L HM-231 Waterproof Image: Comparison of the second of t</td> <td>AC ADAPTER DC POWER CABLES CABLES SPEARER MICROPHONES BC-157S 12 V/7.5 A OPC-515L OPC-656 CP-20 CP-23L HM-231 Waterproof HM-240 JUID B JUID B JUID B JUID B JUID B JUID B JUID B JUID B JUID B JUID B JUID B JUID B JUID B JUID B JUID B JUID B JUID B</td> <td>AC ADAPTER DC POWER CABLES CABLES SPEARER MICROPHONES ADAPTERS 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 Image: Comparison of the state of the s</td>	AC ADAPTER DC POWER CABLES CABLES SPEAKER M BC-157S 12 V/7.5 A OPC-515L OPC-656 CP-20 CP-23L HM-231 Waterproof Image: Comparison of the second of t	AC ADAPTER DC POWER CABLES CABLES SPEARER MICROPHONES BC-157S 12 V/7.5 A OPC-515L OPC-656 CP-20 CP-23L HM-231 Waterproof HM-240 JUID B JUID B JUID B JUID B JUID B JUID B JUID B JUID B JUID B JUID B JUID B JUID B JUID B JUID B JUID B JUID B JUID B	AC ADAPTER DC POWER CABLES CABLES SPEARER MICROPHONES ADAPTERS 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 Image: Comparison of the state of the s

PROGRAMMING CABLES SOFTWARE CHARGER BELT CLIP LEATHER BELT HANGERS ANTENNA APPLICATION BRACKET MODEL NAME MB-133 MB-96F MB-96FL MB-130 FA-B02AR RS-AERO1I OPC-478UD CS-A25 MB-96N CS-A16 OPC-2144 or Windows® PC \mathbf{C} o shows OPC-478U IC-A25N/A25NE IC-A25C/A25CE (IC-A25N/A25 BUD+OPC-214 ~ (CS-A25) 1 1 ~ ~ ith MB-133 MR-122 OPC-47 (OPC-478UC-1) with MB-133 1 (Use with BC-213) ~ ~ IC-A16/A16E ~ 1 ith MB-133) (CS-A16)

RS-AERO11 Flight Planning Software

(Free Download iOS™ Application from App Store)

Using the RS-AERO1I (iOSTM) 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.

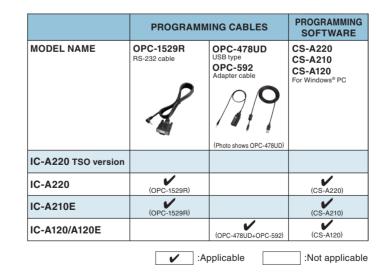


RS-AERO1I map screen example ©2017 Google-Map data /©2017 Google

OPTIONS FOR PANEL MOUNT AND MOBILE TRANSCEIVERS

	H	AND MICROPHON	IES	Bluetooth [®] HEADSET	Bluetooth [®] UNIT	HEADSET ADAPTER	REAR PANEL ADAPTERS	
MODEL NAME	HM-176 Same as supplied with PS-80 and MB-53.	НМ-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				 ✓ 	~



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