

# SPECIFICATIONS

## HANDHELD TRANSCEIVERS

	IC-A25N IC-A25C	IC-A25NE IC-A25CE	IC-A24 IC-A6	IC-A24E IC-A6E	IC-A14 IC-A14S	IC-A15 IC-A15S	
NAV/COM channels	VOR NAV & COM (IC-A25N) COM (IC-A25C)	VOR NAV & COM (IC-A25NE) COM (IC-A25CE)	VOR NAV & COM (IC-A24) COM (IC-A6)	VOR NAV & COM (IC-A24E) COM (IC-A6E)	COM	COM	
Built-in GPS	✓(IC-A25N)	✓(IC-A25NE)	-	-	-	-	
Bluetooth®	✓(IC-A25N)	✓(IC-A25NE)	-	-	-	-	
IP rating	IP57	IP57	IPX4	IPX4	IPX4	IPX4	
Flip-flop channel recall	✓	✓	✓	✓	✓	✓	
MIL-STD 810	✓(G)	✓(G)	✓(F)	✓(F)	✓(F)	✓(F)	
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 IC-A25C 118.000-136.992 161.650-163.275	TX 118.000-136.992 RX IC-A25NE 108.000-136.992 IC-A25CE 118.000-136.992	TX 118.000-136.992 RX IC-A24 108.000-136.992 IC-A6 118.000-136.992 161.650-163.275	TX 118.000-136.992 RX IC-A24E 108.000-136.992 IC-A6E 118.000-136.992	TX 118.000-136.992 RX IC-A14 108.000-136.992 IC-A14S 118.000-136.992 161.650-163.275	TX 118.000-136.992 RX 118.000-136.992	TX 118.000-136.992 RX 118.000-136.992
Number of memory channels	300 channels (15 groups)	300 channels (15 groups)	200 channels (20 channels x 10 banks)	200 channels (20 channels x 10 banks)	200 channels (20 channels x 10 banks, IC-A14/A15) 100 channels (IC-A14/A15)	200 channels (20 channels x 10 banks, IC-A14/A15) 100 channels (IC-A14/A15)	
Channel spacing*1	25 kHz/8.33 kHz	25 kHz/8.33 kHz	25 kHz/8.33 kHz	25 kHz/8.33 kHz	25 kHz	25 kHz	
Power supply requirements	7.2 V DC (BP-288) 11.0 V DC (External DC jack)	7.2 V DC (BP-288) 11.0 V DC (External DC jack)	7.2 V DC (BP-210N), 11.0 V DC (External DC jack)	7.2 V DC (BP-210N), 11.0 V DC (External DC jack)	7.4 V DC (BP-232H)	7.4 V DC (BP-232H)	
Current drain	TX High RX Stand-by RX Max. audio	1.8 A 90 mA typical (GPS, Bluetooth, Light:OFF) 500 mA	1.8 A 70 mA typical 500 mA	1.8 A 70 mA typical 500 mA	1.5 A 50 mA typical 500 mA	1.5 A 50 mA typical 500 mA	
Dimensions*2 (WxHxD)	58.9 x 148.4 x 31.8 mm; 2.3 x 5.8 x 1.3 in	58.9 x 148.4 x 31.8 mm; 2.3 x 5.8 x 1.3 in	54 x 129.3 x 35.5 mm; 2.1 x 5.1 x 1.4 in	54 x 129.3 x 35.5 mm; 2.1 x 5.1 x 1.4 in	53 x 120 x 36.9 mm; 2.1 x 4.7 x 1.5 in	53 x 120 x 36.9 mm; 2.1 x 4.7 x 1.5 in	
Weight (approx.)	384 g; 13.6 oz (with BP-288 and ANT)	384 g; 13.6 oz (with BP-288 and ANT)	430 g; 15.2 oz (with BP-210N and ANT)	430 g; 15.2 oz (with BP-210N and ANT)	350 g; 12.3 oz (with BP-232H and ANT)	350 g; 12.3 oz (with BP-232H and ANT)	
Operating temperature range	-10°C to +60°C	-20°C to +55°C	-10°C to +60°C	-20°C to +55°C	-10°C to +60°C	-20°C to +55°C	
Frequency stability	±0.4 kHz	±1 ppm	±1 ppm	±1 ppm	±5 ppm	±5 ppm	
Output power (PEP/carrier power)	6 W typical/1.8 W	6 W typical/1.8 W	5 W/1.5 W	5 W/1.5 W	5 W typical/1.5 W typical	5 W typical/1.5 W typical	
Microphone impedance	150 Ω	150 Ω	100 Ω	100 Ω	150 Ω	150 Ω	
Sensitivity	COM 1 µV (6 dB S/N)	COM 1 µV (12 dB SINAD)	COM 1 µV (6 dB S/N)	COM 1 µV (12 dB SINAD)	0.5 µV typical (6 dB S/N)	0.71 µV typical (12 dB SINAD)	
Selectivity	8.33 kHz 25 kHz	2.778/7.37 kHz (6 dB/60 dB) 60 dB (6 dB SINAD)	8.33 kHz 25 kHz	2.778/7.37 kHz (6 dB/60 dB) 60 dB (6 dB SINAD)	7.5/25 kHz (6 dB/60 dB)	7.5/25 kHz (6 dB/60 dB)	
Spurious response (COM)	60 dB	70 dB	60 dB	70 dB	60 dB	70 dB	
Audio output power (at 10% distortion)	350 mW into an 8 Ω load	350 mW into an 8 Ω load	470 mW typical into an 8 Ω load	470 mW typical into an 8 Ω load	700 mW into an 8 Ω load (Internal SP) 500 mW into an 8 Ω load (External SP)	700 mW into an 8 Ω load (Internal SP) 500 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	IP54	IP54	IP54
MIL-STD 810	✓(G)	✓(G)	✓(F)	✓(G)	✓(G)
Frequency range (unit: MHz)	TX 118.000-136.992 RX 161.650-163.275	TX 118.000-136.992 RX 161.650-163.275	TX 118.000-136.992 RX 161.650-163.275	TX 118.000-136.992 RX 161.650-163.275	TX 118.000-136.992 RX 161.650-163.275
Number of memory channels	20 channels (Regular)	20 channels (Regular)	10 channels (Regular)	200 channels	200 channels
Channel spacing*1	25 kHz/8.33 kHz	25 kHz/8.33 kHz	25 kHz/8.33 kHz	25 kHz/8.33 kHz	25 kHz/8.33 kHz
Power supply requirements	13.8 V or 27.5 V DC (automatic selection)	13.8 V or 27.5 V DC (automatic selection)	13.8 V or 27.5 V DC (automatic selection)	13.75 V or 27.5 V DC (automatic selection)	13.75 V or 27.5 V DC (automatic selection)
Current drain	TX High RX Stand-by RX Max. audio	5.0 A maximum 500 mA 4.0 A	5.0 A maximum 500 mA 4.0 A	5.0 A maximum 500 mA maximum 4.0 A maximum	5.0 A maximum 500 mA maximum 4.0 A maximum
Dimensions*2 (WxHxD)	160 x 34 x 271 mm; 6.3 x 1.3 x 10.7 in	160 x 34 x 271 mm; 6.3 x 1.3 x 10.7 in	160 x 34 x 271 mm; 6.3 x 1.3 x 10.7 in	161 x 45 x 175 mm; 6.3 x 1.8 x 6.9 in	161 x 45 x 175 mm; 6.3 x 1.8 x 6.9 in
Weight (approx.)	1.2 kg; 2.6 lb	1.0 kg; 2.2 lb	1.0 kg; 2.2 lb	1.5 kg; 3.3 lb (main unit)	1.5 kg; 3.3 lb (main unit)
Operating temperature range	-20°C to +55°C	-20°C to +55°C	-20°C to +55°C	-30°C to +60°C	-20°C to +55°C
Frequency stability	±5 ppm	±1 ppm	±1 ppm	±5 ppm	±1 ppm
Carrier power	8.0 W	6.0 W	6.0 W (4.5-8 W)	9 W typical	9 W (+1.5 dB/-3 dB)
Microphone impedance	600 Ω	600 Ω	600 Ω	600 Ω	600 Ω
Sensitivity (COM)	2 µV (6 dB S/N)	2 µV (12 dB SINAD)	2 µV (12 dB SINAD)	1 µV (6 dB S/N)	1.8 µV (12 dB SINAD)
Selectivity	8.33 kHz (6 dB/60 dB) 25 kHz (6 dB/60 dB)	±2.778/±7.37 kHz ±3/±22 kHz	±2.778/±7.37 kHz ±3/±22 kHz	±2.778/±7.37 kHz ±3/±22 kHz	±2.778/±7.37 kHz ±3/±22 kHz
Spurious response (COM)	74 dBµ	70 dB	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)	5 W into a 4 Ω load (External SP) 60 mW into a 500 Ω load (Headphone)	5 W into a 4 Ω load (External SP) 60 mW into a 500 Ω load (Headphone)	10 W typical into an 8 Ω load (External SP) 100 mW typical into a 500 Ω load (Headphone)	10 W typical into an 8 Ω load (External SP) 100 mW typical 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. Icom, Icom Inc. 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. Android and Google Play are registered trademarks or trademarks of Google Inc. 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 owned by Bluetooth SIG, Inc. and any use of such marks by Icom Inc. is under license. All other trademarks are the properties of their respective holders.

Icom Inc. 1-1-32, Kamiminami, Hirano-Ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013 [www.icom.co.jp/world](http://www.icom.co.jp/world)

Count on us!

**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](mailto:sales@icomamerica.com)  
URL: <http://www.icomamerica.com>

**Icom (Europe) GmbH**  
Communication Equipment  
Auf der Krautweide 24  
65812 Bad Soden am Taunus, Germany  
Phone: +49 (6196) 76685-0  
Fax: +49 (6196) 76685-50  
E-mail: [info@icomeurope.com](mailto:info@icomeurope.com)  
URL: <http://www.icomeurope.com>

**Icom France s.a.s.**  
Zac de la Plaine,  
1 Rue Brindejone 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](mailto:icom@icom-france.com)  
URL: <http://www.icom-france.com>

**Icom Canada**  
Glenwood Centre #150-6165  
Highway 17A, Delta, B.C.,  
V4K 5B8, Canada  
Phone: +1 (604) 952-4266  
Fax: +1 (604) 952-0090  
E-mail: [info@icomcanada.com](mailto:info@icomcanada.com)  
URL: <http://www.icomcanada.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](mailto:icom@icomspain.com)  
URL: <http://www.icomspain.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](mailto:sales@icom.net.au)  
URL: <http://www.icom.net.au>

**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@icombrasil.com](mailto:sales@icombrasil.com)

**Icom (UK) Ltd.**  
Blacksale 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](mailto:info@icomuk.co.uk)  
URL: <http://www.icomuk.co.uk>

**Shanghai Icom Ltd.**  
No.101, Building 9, Caifuxingyuan Park,  
No.188 Maotang Road, Chedun Town,  
Songjiang District, Shanghai, 201611, China  
Phone: +86 (021) 6153 2768  
Fax: +86 (021) 5765 9987  
E-mail: [bjicom@bjicom.com](mailto:bjicom@bjicom.com)  
URL: <http://www.bjicom.com>



# Aviation Radios

2017-2018 Edition

