

VHF AND UHF TRANSCEIVERS

IC-F1000

Series

Little Radio, Big Sound! Class Leading 1500 mW Audio and Full of Great Features

The IC-F1000/F2000 series provides class leading 1500 mW loud and clear audio with Icom custom high power handling capacity speaker. It offers a compact, waterproof durable design and is full of great features such as motion/stationary detection sensor, man down, voice scrambler and voice announcement functions. The radio is ideal for business and industry users who require economical value and reliability in a radio.

Icom custom high power handling capacity speaker for 1500 mW powerful audio

Compact, waterproof durable design (IP67 and MIL-STD-810-G)

Enhanced emergency safety with built-in motion/stationary detection sensor

128 channel capacity with eight zones (Simple type and ten-key type)

Built-in 2-Tone, 5-Tone, CTCSS and DTCS

MDC and BIIS compatible

ICOM

IC-F1000

ICOM

com Inc

0 P1 P2 P3

IC-F2000S

16-code inversion voice scrambler

Man down and lone worker functions

Channel announcement

Up to 14 hours of operating time with supplied BP-279 battery

5 W (VHF), 4 W (UHF) RF output power

IC-F1000T

ĭсом

Icom Inc

PO P1 P2 P3

1 2ABC 3DEF

(7pgrs) (8tuv) (9wxyz)

FEATURES

General Features

- 136-174, 400-470, 450-512, 450-520 MHz versions
- 1500 mW large volume audio from Icom custom speaker
- Improved sound clarity
- Compact (52.2 \times 111.8 \times 24.5 mm; 2.1 \times 4.4 \times 1.0 in) and lightweight (240 g; 8.5 oz with BP-279)
- IP67 waterproof and dust-tight protection
- Tested to 12 categories of MIL-STD-810-G environmental tests
- DTMF autodial memories
- 16-position rotary selector and ON/OFF volume knob
- "Shift key" function increases number of programmable key assignments
- Up to 14 hours of operating time with supplied BP-279 battery pack
- Eight character alphanumeric display (Ten-keypad/simple keypad versions)
- Three colour LED
- Optional 1500 mW Speaker-Microphone, HM-222HLWP* * For the transceiver with a "U" mark on the serial number label.





1500 mW powerful audio



Waterproof for 30 minutes at one meter

Icom custom high power handling capacity speaker



1500 mW powerful audio with optional HM-222HLWP

Signaling Functions

- CTCSS and DTCS tone
- 2-Tone and 5-Tone
- MDC PTT ID, Emergency (TX/RX), Radio Check (RX), Stun (RX), Revive (RX)
- Up to 100 ID numbers and names can be saved to show the alias name, instead of the ID number
- BIIS PTT ID transmission

Safety and Security

- 16-code inversion voice scrambler
- Radio Stun/Revive/Kill commands (2-Tone and 5-Tone, RX only)
- Radio Stun/Revive commands (MDC, RX only)
- Auto TX function (2-Tone and 5-Tone)
- \bullet MDC emergency call with open microphone function (MDC, RX only)
- Man down function
- Lone worker function
- Motion and stationary detection function
- Surveillance function temporarily turns OFF the beep and LED indicator
- Power ON password (for the simple type and 10-key type)
- Emergency key for emergency call

Scan Functions

- Priority scan monitors one or two priority channels while scanning non-priority channels
- Mode dependent scan automatically changes the scan list according to the operating channel
- Power ON scan function
- Talk back timer

Voice/Audio Functions

- Channel announcement function
- VOX function for hands-free operation
- Audio compander
- Siren sound for security alarm

IC-F1000 • IC-F2000 Series

SENERAL 400-470 MHz (ALL) 450-512 MHz (USA) 450-520 MHz (ALL) 450-520 MHz (ALL) 400 mA /80 mA			IC-F1000T/S	IC-F1000	IC-F2000T/S	IC-F2000
Heigenbox towinge ("Varies according to version 136–174 MHz 450–512 MHz (USA) Number of channels 128 channels/8 zones 16 channels 128 channels/8 zones 16 channels Type of emission 128 channels/8 zones 16 channels 128 channels/8 zones 16 channels Operating envision 16kOF32F4VH71KOF32 (USA) 13A 13A Current drain (approx) Tx 500 mA /77 mA (Max. audio (internal SP)/Standy) 500 mA /80 mA (Max. audio (internal SP)/Standy) Anterna impedance -30°C to +60°C; -22°F to +140°F (Radio specification) (USA/EXP) -28°C to +55°C (Radio specification) (USA/EXP) Operating temperature range -28°C to +55°C (Radio specification) (USA/EXP) -28°C to +55°C (Radio specification) (USA/EXP) Veight (approx) 240 g; 6.5 oz (With BP-279), 270 g; 9.5 oz (With BP-280) 700 mA /80 mA /	GENERAL					
Type of emission 16K075E (USAEXP) (* Depending on version) 16K075E/14K075E (USAEX675E (EUR) Power supply requirement 75 V DC nominal Current drain (appox.) TX 500 mA /77 mA (Max. audio (internal SP)/Standby) 500 mA /80 mA (Max. audio (internal SP)/Standby) Antenna impedance -30°C to +60°C; -22°E to +140°F (Radio specification) (USAEXP) -25°C to +55°C (C fadio specification) (USAEXP) -25°C to +55°C (Radio specification) (USAEXP) -25°C to +55°C (C fadio specification) (USAEXP) -25°C to +55°C (Radio specification) (USAEXP) -25°C to +55°C (C fadio specification) (USAEXP) -25°C to +55°C (Radio specification) (USAEXP) -25°C to +55°C (C fadio specification) (USAEXP) -25°C to +55°C (Radio specification) (USAEXP) -25°C to +55°C (C fadio specification) (USAEXP) -25°C to +55°C (Radio specification) (USAEXP) -25°C to +55°C (C fadio specification) (USAEXP) -25°C (triation) (USAEXP) -25°C to +55°C (C fadio specification) (USAEXP) -25°C (triation) (USAEXP) -25°C to +55°C (triation) (USAEXP) </td <td colspan="2"></td> <td colspan="2">136–174 MHz</td> <td colspan="2">450–512 MHz (ÙSÁ)</td>			136–174 MHz		450–512 MHz (ÙSÁ)	
Clogenerating on version 16K0F3E/14K0F3E/8K0F73E (EUR) Power supply requirement 13 A Current drain (approx) Tx RX 500 mA /77 mA (Max. audio (internal SP)/Standby) 500 mA /80 mA (Max. audio (internal SP)/Standby) Operating temperature range 30°C to -60°C; -22°F to +140°F (Radio specification) (USA/EXP) Operating temperature range 30°C to -60°C; -22°F to +50°C (facidio specification) (USA/EXP) Dimensions (W × H × D; Projections not included) 52.2 × 1118 × 24.3 × 12 in (With BP-280) Velight (approx) 240 g; 8.5 oz (With BP-279), 270 g; 9.5 oz (With BP-280) RANSMITTER Output power (Hi, L2, L1) 5.W, 2.W, 1.W 4.W, 2.W, 1.W Maximum frequency deviation ± 5.0 kHz (@ 25 kHz), ±4.0 kHz (@ 20 kHz), ±2.5 kHz (@ 12.5 kHz) 0.25 µW (≤ 1 GHz), 0.5 µW (> 1 GHz), 0.5 µW (> 1 GHz), 1.0 µW (> 1 GHz) (EUR/EXP) Output power (Hi, L2, L1) 5.W 2.W, 1.W 4.0 kHz (@ 20 kHz), ±2.5 kHz (@ 12.5 kHz) Output power (Hi, L2, L1) 5.W, 2.W, 1.W 4.W, 2.W, 1.W Maximum frequency stability .25 µW (≤ 1 GHz), 0.5 µW (> 1 GHz), 0.5 µW (> 1 GHz), 1.0 µW (> 1 GHz) (EUR/EXP) Output power (Hi, L2, L1) 0.25 µW (> 1 GHz), 0.5 µW (> 1 GHz), 0.5 kHz) (Th 400 KBZ) 0.25 µW (≤ 1 GHz), 0.5 Hz (W = 2.5 kHz), 7.1 GB kypicial (@ 2.5	N	umber of channels	128 channels/ 8 zones	16 channels	128 channels/ 8 zones	16 channels
Power supply requirement 75 V DC nominal Current drain (approx.) Tx 13 A S00 mA /77 mA (Max. audio (internal SP)/Standby) 500 mA /80 mA (Max. audio (internal SP)/Standby) Antenna impedance 500 Q Operating temperature range -28°C to +60°C; -22°F to +140°F (Radio specification) (USA/EXP) Dimensions (W × H × D; Projections not included) 52.2 × 1118 × 24.5 mm; 2.1 × 4.4 × 10 in (With BP-280) EXAMSMITTER Weight (approx.) 240 g; 8.5 oz (With BP-279), 270 g; 9.5 oz (With BP-280) RANSMITTER 500 mA /77 mA (Max. audio (attributed) 50.2 × 1118 × 24.5 mm; 2.1 × 4.4 × 10 in (With BP-280) Spurious emissions 0.25 µW (z 1 GHz), 0.5 µW (x 1 GHz), 2.5 kHz (@ 20 kHz), 4.2 kHz (@ 20 kHz), 4.2 kHz 4 W, 2 W, 1 W Addio harmonic distortion 1.0% typical (@ 25 kHz), 6.4 kHz (@ 20 kHz), 10 µW (> 1 GHz) (EUR/EXP) 0.25 µW (z 1 GHz), 0.5 µW (x 1 GHz), 0.5 µW (x 1 GHz), 10 µW (> 1 GHz) (EUR/EXP) Adio harmonic distortion 1.0% typical (@ 25 kHz), 6.4 Btypical (@ 25 kHz), 7.4 dB typical (@ 25 kHz), 6.4 Btypical (@ 25 kHz), 7.4 Btypical (@ 25 kHz), 7.3 dB typical (@ 25 kHz), 7.4 Btypi		Type of emission*		16K0F3E*1/11K0)F3E (USA/EXP)	
Current drain (approx) Tx 13.A Current drain (approx) Tx 500 mA /77 mA (Max. audio (internal SP)/Standby) 500 mA /80 mA (Max. audio (internal SP)/Standby) S00 mA /77 mA (Max. audio (internal SP)/Standby) 500 mA /80 mA (Max. audio (internal SP)/Standby) 500 mA /80 mA (Max. audio (internal SP)/Standby) Operating temperature range -30°C to +60°C, -22° T to +55°C (Raido specification) (USA/EXP) Dimensions (W × H × D; Projectons not included) 52.2 × 1118 × 43.5 mm : 21 × 44.4 × 10 in (Wth BP-279) Spurious motions (W × H × D; Projectons not included) 52.2 × 1118 × 30.3 mm : 21 × 44.4 × 10 in (Wth BP-280) RANSMITTER 400 tput power (Hi, L2, L1) 5.W, 2.W, 1.W 4.W, 2.W, 1.W Maximum frequency deviation ± 5.0 kHz (@ 25 kHz), ± 4.0 kHz (@ 20 kHz), ± 2.5 kHz (@ 12.5 kHz) 0.25 µ/W (≤ 1 GHz), 0.5 µ/W (> 1 GHz) (EUR/EXP) O.25 µ/W (≤ 1 GHz), 0.5 µ/W (≤ 1 GHz), 1.5 % typical (@ 12.5 kHz) (10 µ/W (> 1 GHz) (EUR/EXP) 0.25 µ/W (≤ 1 GHz), 1.5 % typical (@ 12.5 kHz) (0.5 µ/W (> 1 GHz) (EUR/EXP) Aduit harmonic distortion 10.9 typical (@ 25 kHz), 5.5 of B typical (@ 25 kHz), 5.6 dB typical (@ 20 kHz), 4.4 dB typical (@ 20 kHz), 4.4 dB typical (@ 20 kHz), 4.4 dB typical (@ 25 kHz), 7.5 dB typical (@ 12.5 kHz) (ILAP) Adjacent channel selectivity 76 dB typical (@ 25 kHz), 7.1 dB typical (@ 12.5 kHz) (ILAP), 7.6 dB typical (@ 12.5 kHz) (ILAP), 7.6 dB typical (@ 1		<u> </u>				
Current drain (approx.) Rx 500 mA /77 mA (Max. audio (internal SP)/Standby) 500 mA /80 mA (Max. audio (internal SP)/Standby) Antenna impedance -30°C to +60°C; -22°F to +140°F (Radio specification) (USA/EXP) -28°C to +55°C (Radio specification) (USA/EXP) Operating temperature range -28°C to +55°C (Radio specification) (USA/EXP) -28°C to +55°C (Radio specification) (USA/EXP) Dimensions (W × H × D; Projections not included) 52.2 × 111.8 × 24.5 mm; 21 × 4.4 × 12 in (With BP-279) 270 g; 9.5 oz (With BP-280) RANSMITTER Veight (approx) 240 g; 8.5 oz (With BP-279), 270 g; 9.5 oz (With BP-280) RANSMITTER 50.4 % 2 %, 1 W 4 W, 2 W, 1 W Spurious emissions 50.2 ½ W (s 1 GHz), 0.5 µW (s 1 GHz), 2.5 kHz (@ 20 kHz), ± 2.5 kHz (@ 12.5 kHz) 0.25 µW (s 1 GHz), 0.5 µW (s 1 GHz), 10 µW (s 1 GHz) (EUR/EXP) Audio harmonic distortion 1.0% typical (@ 25 kHz), 40 dB typical (@ 12.5 kHz) (uSA/EXP) 50 dB typical (@ 25 kHz), 51 dB typical (@ 20 kHz), 53 dB typical (@ 12.5 kHz) (EUR) Residual modulations (with CCITT filter) 50 dB typical (@ 25 kHz), 40 dB typical (@ 12.5 kHz) (USA/EXP) 4 dB typical (@ 25 kHz), 61 dB typical (@ 12.5 kHz) (EUR) Adjacent channel selectivity (at 12 dB SINAD) 0.25 µW (si 1 GHz), 20 µW (si 1 GHz) (EUR) 73 dB typical (@ 12.5 kHz) (EUR) 76 dB typical (@ 25 kHz), 71 dB typi	Power s					
Anterna impedance 500 mA //2 mA (Max. audio (internal SP)/Standby) 500 mA //2 mA (Max. audio (internal SP)/Standby) Operating temperature range -30°C to +60°C; -2°E to +140°F (Radio specification) (USA/EXP) -26°C to +55°C (Radio specification) (USA/EXP) -26°C to +55°C (Radio specification) (USA/EXP) -26°C to +55°C (Radio specification) (EUR) 52.2 × 1118 × 24.5 mm; 2.1 × 4.4 × 1.2 in (With BP-279) Spurious motion 52.2 × 1118 × 30.3 mm; 2.1 × 4.4 × 1.2 in (With BP-280) RANSMITTER 240 g; 8.5 oz (With BP-279), 270 g; 9.5 oz (With BP-280) Spurious emission -25°C (Radio specification) (EUR) Spurious emission 0.25 µW (s 1 GH2), 0.5 µW (s 1 GH2) (EUR/EXP) -250 µW (s 1 GH2), 0.5 µW (s 1 GH2), 0.5 µW (s 1 GH2) (EUR/EXP) 0.25 µW (s 1 GH2), 0.5 µW (s 1 GH2) (EUR/EXP) Aduic harmonic distortion 10% typical (@ 25 kH2), 140 ktypical (@ 12.5 kH2) (td AF 1 kHz 40%, deviation) FM Hum and Noise (without CCITT filter) 46 dB typical (@ 25 kH2), 40 dB typical (@ 12.5 kH2) (USA/EXP) GetIVER -4 dB typical (@ 12.5 kH2) (Td 4003) Adjacent channel selectivity 78 dB typical (@ 25 kH2), 53 dB typical (@ 12.5 kH2) (Td 403) 78 dB typical (@ 25 kH2), 73 dB typical (@ 12.5 kH2) (Td 403) 74 dB typical (@ 25 kH2), 76 dB typical (@ 25 kH2	Current drain (approx.)					
Operating temperature range -30°C to +60°C; -22°F to ±140°F (Radio specification) (USA/EXP) Dimensions (W × H × D; Projections not included) 52.2 × 111.8 × 24.5 mm; 21 × 4.4 × 10 in (With BP-279) Dimensions (W × H × D; Projections not included) 52.2 × 111.8 × 24.5 mm; 21 × 4.4 × 10 in (With BP-280) RANSMITTER Weight (approx.) 240 g; 8.5 oz (With BP-279), 270 g; 9.5 oz (With BP-280) RANSMITTER Maximum frequency deviation ± 5.0 kHz (@ 25 kHz), ± 4.0 kHz (@ 20 kHz), ±2.5 kHz (@ 12.5 kHz) Maximum frequency deviation ± 5.0 kHz (@ 25 kHz), ± 4.0 kHz (@ 20 kHz), ±2.5 kHz (@ 12.5 kHz) Spurious emissions 0.25 µW (≤ 1 GHz), 0.5 µW (≤ 1 GHz) (EUR/EXP) 0.25 µW (≤ 1 GHz), 1.0 µW (> 1 GHz) (EUR/EXP) Prequency stability -25 pm 0.25 µW (≤ 1 GHz), 0.0 µW (> 1 GHz) (EUR/EXP) 0.25 µW (≤ 1 GHz), 1.0 µW (> 1 GHz) (EUR/EXP) Preduency stability -25 pm 0.25 µW (≤ 1 GHz), 0.0 µW (> 1 GHz) (EUR/EXP) 0.25 µW (≤ 1 GHz), 1.0 µW (> 1 GHz) (EUR/EXP) Residual modulations (with CCITT filter) 46 dB typical (@ 25 kHz), 47 dB typical (@ 12.5 kHz) (IA603) 76 dB typical (@ 26 kHz), 47 dB typical (@ 20 kHz), 56 dB typical (@ 12.5 kHz) (IA603) Residual modulations (with CCITT filter) 64 dB typical (@ 12.5 kHz) (IA603) 76 dB typical (@ 12.5 kHz), 72 dB typical (@ 12.5 kHz) (IA603) 76 dB typical (@ 25 kHz), 73 dB typical (@ 2	, , , , , , , , , , , , , , , , , , , ,					
Operating temperature range -265°C (hadio specification) (EUR) Dimensions (W × H × D; Projections not included) 52.2 × 1118 × 24.5 mm; 2.1 × 4.4 × 1.2 in (With BP-280) Weight (approx.) 240 g; 8.5 oz (With BP-279), 270 g; 9.5 oz (With BP-280) RANSMITTER Output power (Hi, 12, L1) 5W, 2W, 1W 4W, 2W, 1W Maximum frequency deviation ±5.0 kHz (@ 25 kHz), ±4.0 kHz (@ 12.5 kHz) 0.25 µW (≤ 1 GHz), 10 µW (> 1 GHz) (EUR/EXP) Adio harmonic distortion 1.0% typical (@ 25/20 kHz), 1.5% typical (@ 12.5 kHz) (at AF 1 kHz 40% deviation) ±2.5 pm Frequency stability ±2.5 kHz) 50 dB typical (@ 25 kHz), 40 dB typical (@ 12.5 kHz) (at AF 1 kHz 40% deviation) FM Hum and Noise (without CCITT filter) 60 dB typical (@ 25 kHz), 47 dB typical (@ 20 kHz), 15% typical (@ 12.5 kHz) (USA/EXP) 50 dB typical (@ 25 kHz), 61 dB typical (@ 20 kHz), 42 dB External microphone contextor 3-conductor 2.5 (d) mm (V ₁₀)/2.2 kΩ 50 dB typical (@ 25 kHz), 64 dB typical (@ 25 kHz), 116 ktpical (@ 12.5 kHz) (ILA603D) Adjacent channel selectivity 76 dB typical (@ 25 kHz), 72 dB typical (@ 25 kHz), 73 dB typical (@ 25 kHz), 64 dB typical (@ 12.5 kHz) (ILA603D) Adjacent channel selectivity 76 dB typical (@ 25 kHz), 72 dB typical (@ 25 kHz), 64 dB typical (@ 12.5 kHz) (ILA603D)	Ai	ntenna impedance	**			
Image: Control of the Control of	Operating	temperature range	χ			
Dimensions (W × H × D, Hojections not included) 52.2 x 1118 x 30.3 mm; 2.1 × 4.4 x 12 in (With BP-260) Weight (approx.) 240 g; 8.5 oz (With BP-279), 270 g; 9.5 oz (With BP-280) RANSMITTER 4 W, 2 W, 1 W 4 W, 2 W, 1 W Output power (Hi, L2, L1) 5 W, 2 W, 1 W 4 W, 2 W, 1 W Spurious emissions 70 dB minimum (USA) 0.25 µW (≤ 1 GHz), 0.5 µW (> 1 GHz) (EUR/EXP) 0.25 µW (≤ 1 GHz), 1.0 µW (> 1 GHz) (EUR/EXP) Frequency stability 1.0% typical (@ 25/20 kHz), 15% typical (@ 12.5 kHz) (uSA/EXP) 0.25 µW (≤ 1 GHz), 0.5 µW (> 1 GHz) (EUR/EXP) Residual modulations (with CCITT filter) 46 dB typical (@ 25/20 kHz), 15% typical (@ 12.5 kHz) (uSA/EXP) 50 dB typical (@ 25 kHz), 47 dB typical (@ 25 kHz), 51 dB typical (@ 25 kHz), 51 dB typical (@ 20 kHz), 44 db typical (@ 25 kHz), 15 dB typical (@ 25 kHz) (USA/EXP) Sensitivity (at 12 dB SINAD)	oporating tomporatine range					
240 g; 8.5 oz (With BP-279), 270 g; 9.5 oz (With BP-280) RANSMITTER Output power (Hi, L2, L1) 5 W, 2 W, 1 W 4 W, 2 W, 1 W Output power (Hi, L2, L1) 5 W, 2 W, 1 W 4 W, 2 W, 1 W Maximum frequency deviation ± 5 w W (± 1 GH2), 0.5 µW (± 1 GH2), 0.5 µW (± 1 GH2), 10 µW (> 1 GH2), 10 µW (> 1 GH2) (EUP/EXP) Spurious emissions - 0.25 µW (± 1 GH2), 0.5 µW (± 1 GH2), 10 µW (> 1 GH2) (EUP/EXP) - 10 0.25 µW (± 1 GH2), 0.5 µW (± 1 GH2), 10 µW (> 1 GH2) (EUP/EXP) - 10 0.25 µW (± 1 GH2), 0.5 µW (± 1 GH2), 10 µW (> 1 GH2) (EUP/EXP) - 0.25 µW (± 1 GH2), 0.5 µW (± 1 GH2), 10 µW (> 1 GH2) (EUP/EXP) - 10 0.25 µW (± 1 GH2), 0.5 µW (± 1 GH2), 10 µW (> 1 GH2) (EUP/EXP) - 10 0.25 µW (± 1 GH2), 10 µW (> 1 GH2) (EUP/EXP) - 0.25 µW (± 1 GH2), 0.5 µW (± 1 GH2), 10 µW (> 1 GH2) (EUP/EXP) - 0.25 µW (± 1 GH2), 10 µW (> 1 GH2) (EUP/EXP) - 0.25 µW (± 1 GH2), 10 µW (> 1 GH2) (EUP/EXP) - 0.25 µW (± 1 GH2), 10 µW (> 1 GH2) (EUP/EXP) - 0.25 µW (± 1 GH2), 10 µW (> 1 GH2) (EUP/EXP) - 0.25 µW (± 1 GH2), 10 µW (> 1 GH2) (EUP/EXP) - 0.25 µW (± 1	Dimensions ($W \times H \times D$; Pro	jections not included)				
RANSMITTER Output power (Hi, Iz, L1) 5 W, 2 W, 1 W 4 W, 2 W, 1 W Maximum frequency deviation ± 5.0 kHz (@ 25 kHz), ±4.0 kHz (@ 20 kHz), ±2.5 kHz (@ 12.5 kHz) Spurious emissions 0.25 µW (≤ 1 GHz), 0.5 µW (> 1 GHz) (EUR/EXP) 0.25 µW (≤ 1 GHz), 1.0 µW (> 1 GHz) (EUR/EXP) Audio harmonic distortion 1.0% typical (@ 25/20 kHz), 1.5% typical (@ 12.5 kHz) (at AF 1 kHz 40% deviation) FM Hum and Noise (without CCITT filter) 46 dB typical (@ 25 kHz), 40 dB typical (@ 12.5 kHz) (at AF 1 kHz 40% deviation) External microphone connector 50 dB typical (@ 25 kHz), 47 dB typical (@ 20 kHz), 48 dB typical (@ 12.5 kHz) (USA/EXP) Sensitivity (at 12 dB SINAD) (at 20 dB SINAD) 0.25 µV typical Adjacent channel selectivity (at 12 dB SINAD) (at 20 dB typical (@ 25 kHz), 71 dB typical (@ 12.5 kHz) (TIA-603) 74 dB typical (@ 12.5 kHz) (EUR) Spurious response rejection 74 dB typical (@ 25 kHz), 73 dB typical (@ 12.5 kHz) (EUR) 67 dB typical (@ 12.5 kHz) (EUR) Mum and noise (Without CCITT filter) 51 dB typical (@ 25 kHz), 45 dB typical (@ 12.5 kHz) (EUR) 67 dB typical (@ 12.5 kHz) (TIA-603) Af output power (at 5% distortion Internal SP 10 kHz (@ 25 kHz), 15 dB typical (@ 25 kHz), 16 dB typical (@ 12.5 kHz) (EUR) Adjacent channel selectivity 76 dB typical (@ 25 kHz), 42 dB typical (@ 12.5 kHz) (EUR) 67 dB typical (@ 12.	Maisht (
Output power (Hi, L2, L1) 5 W, 2 W, 1 W 4 W, 2 W, 1 W Maximum frequency deviation ± 5.0 kHz (@ 25 kHz), ±4.0 kHz (@ 20 kHz), ±2.5 kHz (@ 12.5 kHz) 70 dB minimum (USA) Spurious emissions 0.25 µW (≤ 1 GHz), 0.5 µW (> 1 GHz) (EUR/EXP) 0.25 µW (≤ 1 GHz), 1.0 µW (> 1 GHz) (EUR/EXP) Audio harmonic distortion 1.0% typical (@ 25 kHz), 40 dB typical (@ 12.5 kHz) (USA/EXP) 0.25 µW (≤ 1 GHz), 1.5 w typical (@ 12.5 kHz) (USA/EXP) Residual modulations (with CCITT filter) 46 dB typical (@ 25 kHz), 47 dB typical (@ 12.5 kHz) (USA/EXP) 50 dB typical (@ 25 kHz), 47 dB typical (@ 20 kHz), 44 dB typical (@ 12.5 kHz) (USA/EXP) External microphone connector 50 dB typical (@ 25 kHz), 57 dB typical (@ 12.5 kHz) (EUR) 53 dB typical (@ 12.5 kHz) (EUR) Adjacent channel selectivity (at 12 dB SINAD) 0.25 µV typical 73 dB typical (@ 12.5 kHz) (TIA-603D) Spurious response rejection 74 dB typical (@ 25 kHz), 72 dB typical (@ 12.5 kHz) (TIA-603D) 73 dB typical (@ 25 kHz), 56 dB typical (@ 12.5 kHz) (TIA-603D) Spurious response rejection 74 dB typical (@ 25 kHz), 72 dB typical (@ 25 kHz), 64 dB typical (@ 12.5 kHz) (TIA-603D) Mum and noise (With 0 CITTT filter) 51 dB typical (@ 25 kHz), 72 dB typical (@ 25 kHz), 64 dB typical (@ 25 kHz), 64 dB typical (@ 25 kHz), 64 dB typical (@ 26 kHz), 25 dB typical (@ 25 kHz), 64 dB typical (@ 25 kHz), 64 dB typical (@ 25 kHz), 64		weight (approx.)		2	, 270 g, 3.3 02 (With DF-280)	
Maximum frequency deviation ± 5.0 kHz (@ 25 kHz), ±4.0 kHz (@ 20 kHz), ±2.5 kHz) (@ 12.5 kHz) Spurious emissions 70 dB minimum (USA) 0.25 µW (≤ 1 GHz), 0.5 µW (> 1 GHz) (EUR/EXP) 0.25 pw (≤ 1 GHz), 10 µW (> 1 GHz) (EUR/EXP) Audio harmonic distortion 1.0% typical (@ 25/k2), 40 dB typical (@ 12.5 kHz) (14 AF 1 kHz 40% deviation) FM Hum and Noise (with CCITT filter) 46 dB typical (@ 25 kHz), 40 dB typical (@ 12.5 kHz) (USA/EXP) Sensitivity 50 dB typical (@ 25 kHz), 47 dB typical (@ 20 kHz), 48 dB typical (@ 12.5 kHz) (USA/EXP) Sensitivity (at 12 dB SINAD) (at 20 dB SINAD) 0.25 µV typical Adjacent channel selectivity 76 dB typical (@ 25 kHz), 71 dB typical (@ 12.5 kHz) (TIA-603) 76 dB typical (@ 25 kHz), 71 dB typical (@ 25 kHz), 72 dB typical (@ 25 kHz), 73 dB typical (@ 12.5 kHz) (TIA-603) 76 dB typical (@ 25 kHz), 72 dB typical (@ 20 kHz), 57 dB typical (@ 12.5 kHz) (TIA-603) 76 dB typical (@ 25 kHz), 72 dB typical (@ 20 kHz), 73 dB typical (@ 12.5 kHz) (TIA-603) 76 dB typical (@ 25 kHz), 72 dB typical (@ 20 kHz), 64 dB typical (@ 12.5 kHz) (USA/EXP) 52 dB typical (@ 25 kHz), 72 dB typical (@ 20 kHz), 73 dB typical (@ 12.5 kHz) (USA/EXP) 76 dB typical (@ 25 kHz), 74 dB typical (@ 20 kHz), 75 dB typical (@ 25 kHz), 64 dB typical (@ 12.5 kHz) (USA/EXP) 76 dB typical (@ 25 kHz), 74 dB typical (@ 20 kHz), 75 dB typical (@ 25 kHz), 64 dB typical (@ 25 k						, , , , , ,
Spurious emissions To dB minimum (USA) 0.25 μW (≤ 1 GHz), 0.5 μW (≤ 1 GHz), 10 μW (= 1 GHz), 10 μW (= 1 GHz), 10 μW (= 1 GHz), 10 μW			- /	,	, ,	
Spurious emissions0.25 μW (≤ 1 GHz), 0.5 μW (> 1 GHz) (EUR/EXP)0.25 μW (≤ 1 GHz), 1.0 μW (> 1 GHz) (EUR/EXP)Frequency stability±2.5 pmAudio harmonic distortion1.0% typical (@ 25/20 kHz), 1.5% typical (@ 12.5 kHz) (04 B typical (@ 12.5 kHz) (USA/EXP)Residual modulations (with CCITT filter)50 dB typical (@ 25 kHz), 47 dB typical (@ 20 kHz), 44 dB typical (@ 12.5 kHz) (EUR)External microphone connector3-conductor 2.5 (d) mm (½ ₀)/2.2 kΩECEIVER(at 12 dB SINAD)-4 dB typical (@ 12.5 kHz), 64 dB typical (@ 12.5 kHz), 10 dB mm (½ ₀)/2.2 kΩAdjacent channel selectivity(at 12 dB SINAD)-4 dB ₂ V typicalAdjacent channel selectivity76 dB typical (@ 25 kHz), 71 dB typical (@ 12.5 kHz) (TIA-603D)76 dB typical (@ 25 kHz), 72 dB typical (@ 12.5 kHz) (EUR)75 dB typical (@ 12.5 kHz) (TIA-603D)76 dB typical (@ 25 kHz), 71 dB typical (@ 12.5 kHz) (EUR)67 dB typical (@ 12.5 kHz) (TIA-603D)76 dB typical (@ 25 kHz), 72 dB typical (@ 12.5 kHz) (EUR)67 dB typical (@ 12.5 kHz) (TIA-603D)76 dB typical (@ 25 kHz), 72 dB typical (@ 12.5 kHz) (EUR)67 dB typical (@ 12.5 kHz) (EUR)Spurious response rejection70 dB minimumMithout CCITT filter51 dB typical (@ 25 kHz), 64 dB typical (@ 12.5 kHz) (USA/EXP)AF output power (at 5% distortion)51 dB typical (@ 25 kHz), 46 dB typical (@ 12.5 kHz) (USA/EXP)46 dB typical (@ 12.5 kHz) (EUR)52 dB typical (@ 12.5 kHz) (EUR)47 dB typical (@ 12.5 kHz) (EUR)52 dB typical (@ 25 kHz), 50 dB typical (@ 12.5 kHz) (USA/EXP)51 dB typical (@ 25 kHz), 45 dB typical (@ 12.5 kHz) (EUR)52 dB typical (@ 12.5 kHz) (EU	Maximum fr	equency deviation				
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		External SP				
	External speaker connector					

All stated specifications are subject to change without notice or obligation. Measurements made in accordance with TIA-603 (USA/EXP) or EN 300-086 (EUR). *1 25 kHz bandwidth is no longer available for FCC Part 90 licensees for USA versions.

Applicable U.S. Military Specifications & IP Rating

Mara da ud	MIL 810G		
standard	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	
Rain Blowing/Drip	506.5	I, III	
Humidity	507.5	II	
Salt Fog	509.5	-	
Dust Blowing	510.5	I	
Immersion	512.5	I	
Vibration	514.6	Ι	
Shock	516.6	I, IV	

Ingress Protection Standard

Dust & Water IP67 (Dust-tight and waterproof protection)

Battery Life

Battery pack	Туре	Capacity	Operating time*
BP-278	Li-ion 7.2 V	1190 mAh (typ.), 1130 mAh (min.)	Up to 10 hours
BP-279	Li-ion 7.2 V	1570 mAh (typ.), 1485 mAh (min.)	Up to 14 hours
BP-280	Li-ion 7.2 V	2400 mAh (typ.), 2280 mAh (min.)	Up to 20 hours

* TX: RX: standby = 5:5:90. Power save function ON.

 Supplied accessories: (* May differ or not supplied, depending on version)

 • Battery pack, BP-280*
 • Desktop charger, BC-213*
 • Belt clip, MB-133

 • AC adapter, BC-123SA/SE/SUK/SV or BC-242*
 • Antenna



The "3D GENUINE Icom label" is attached to the rear chassis under the battery. Check the Icom website for details: www.icomjapan.com/explore/genuine_info/

BATTERY PACKS

BP-278: 1190 mAh (typ.), 1130 mAh (min.) rechargeable Li-ion battery. BP-279: 1570 mAh (typ.), 1485 mAh (min.) rechargeable Li-ion battery. BP-280: 2400 mAh (typ.), 2280 mAh (min.) rechargeable Li-ion battery.



BATTERY CHARGERS

BC-213: Desktop charger.

Charges the BP-278, BP-279 or BP-280. Charges the BP-279 in 2.5 hours (approximate). + BC-123SA/SE/SUK/SV or BC-242: AC adapter.

BC-214N: Multi-charger.

- Charges up to six radios and/or batteries at the same time.
- + BC-157S: AC adapter.
- AD-130 charger adapter is supplied with the BC-214N, depending on version.



POWER SUPPLY CABLES AND CHARGER BRACKET

CP-23L: Vehicle charger cable for use with the BC-213. OPC-656: DC power cable for use with the BC-214N. MB-130: Charger bracket for use with the BC-213.



OPC-656 MB-130

SPEAKER-MICROPHONES

HM-222HLWP: High-power audio speaker microphone with a 3.5 mm earphone jack. IP67 protection.

HM-168LWP: Waterproof speaker microphone with a waterproof connector. IP67 protection.

HM-158LA: Compact speaker microphone with 3.5 mm earphone jack. HM-159LA: Speaker microphone with 3.5 mm earphone jack.



HM-222HI WP

CP-231

HM-158LA HM-159LA

EARPHONE-MICROPHONES

HM-168LWP

HM-153LA: Durable lapel microphone with earphone. HM-166LA: Light weight lapel microphone with earphone.



Some options may not be available in some countries. Please ask your dealer for details

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HEADSETS, PTT SWITCH CABLE & PLUG ADAPTER

HS-94LWP: Earphone-headset with a waterproof connector.

HS-95LWP: Behind-the-head headset with a waterproof connector. HS-94: Earphone-headset.

- (Use with either the VS-4LA or OPC-2004LA)
- HS-95: Behind-the-head headset. (Use with either the VS-4LA or OPC-2004LA)

HS-97: Throat microphone. (Use with either the VS-4LA or OPC-2004LA)

VS-4LA: PTT switch cable with manual PTT operation.

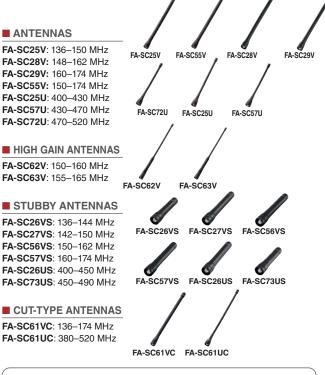
(For use with either the HS-94, HS-95 or HS-97) OPC-2004LA: Plug adapter cable for VOX operation.

(For use with either the HS-94, HS-95 or HS-97)

HS-94LWP HS-95LWP HS-97 VS-4LA OPC-2004LA

BELT CLIP

MB-133: Alligator belt clip. Same as supplied.





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