

# Icom ID-52A Specifications

## General

Frequency coverage (MHz)

Version	Transmit	Receiver (Working Range)	Broadcast
ID-52A	144–148,  430–450 *	A Band: 108–174, 225–479 *  B Band: 137–174, 375–479 *	88–108

\* Guaranteed Range: 144-148, 440-450MHz

Type of emission F2D, F3E, F7W

Mode DV, FM, FM-N, WFM\*, AM\*, AM-N\*  
\*(WFM, AM and AM-N are Rx only)

No. of memory channels 1000 memory channels, 4 call channels, 50 scan edges,  
100 skip channels, 500 broadcast stations,  
2500 repeaters, 300 call signs and 300 GPS memories

Frequency Resolution 5, 6.25, 8.33\*, 10, 12.5, 15, 20, 25, 30, 50, 100, 125 and 200 kHz  
\* Selectable depending on the operating band.

Operating Temperature Range –20°C to +60°C; –4°F to +140°F

Frequency stability ±2.5ppm (–20°C to +60°C on the basis of 25°C)

Antenna impedance 50Ω (SMA)

Power supply requirement

Battery pack 7.4V DC (with BP-272), 7.2V DC (with BP-307)

Alkaline cells 5.5V (with BP-273)

External DC Power 10–16V DC

Current drain (at 7.4V DC)

Tx High Less than 2.5A

Rx AF Max. Less than 450 mA / 350 mA (DV/FM)

Less than 300 mA / 200 mA (DV/FM)

Dimensions (W×H×D) 61.1 x 121.6 x 34.8 mm;

(projections not included) 2.4 x 4.8 x 1.4 in (with BP-272)

Weight (approx.)	330g; 11.6 oz (with BP-272 & antenna)			
Transmitter				
Modulation system				
DV	GMSK reactance modulation			
FM, FM-N	FM reactance modulation			
Output power	5W, 2.5W, 1W, 0.5W, 0.1W			
(at 7.4V DC)	(High, Mid, Low2, Low1, S-low)			
Spurious emissions	Less than −60 dBc (High, Mid),			
	Less than −13 dBm (Low2, Low1, S-low)			
Max. frequency deviation	±5.0 / 2.5 kHz (FM / FM-N)			
Ext. Mic impedance	2.2 kΩ			
Receiver				
Sensitivity				
DV	Less than 0.2 μV (at 1% BER)			
FM, FM-N	Less than 0.18 μV (at 12 dB SINAD)			
Selectivity				
DV, FM-N	More than 50 dB			
FM	More than 55 dB			
Spurious rejection	More than 60 dB			
Audio output power				
Internal SP	More than 750 mW (8Ω load)			
External SP	More than 200 mW (8Ω load)			
Receiver sensitivity				
(Except amateur bands.)	Bands	Frequency range (MHz)	FM/FM-N/WFM (12 dB SINAD)	AM/AM-N (10 dB SINAD)
	BC	88.000-108.000,	Less than 1 μV (WFM)	–
	A	108.000–136.991	–	Less than 1 μV
		137.000–142.000	Less than 0.18 μV	Less than 1 μV
		142.005–148.000	Less than 0.18 μV	–
		148.005–174.000	Less than 0.32 μV	–
		225.000–259.995	Less than 0.56 μV	Less than 1.8 μV*
		260.000–354.995	Less than 0.32 μV	Less than 1 μV
		355.000–374.995	Less than 0.5 μV	Less than 1.8 μV*

	375.000–399.995	Less than 0.5 $\mu$ V	–
	400.000–479.000	Less than 0.32 $\mu$ V	–
B	137.000–148.000	Less than 0.18 $\mu$ V	–
	148.005–174.000	Less than 0.32 $\mu$ V	–
	375.000–399.995	Less than 0.5 $\mu$ V	–
	400.000–479.000	Less than 0.32 $\mu$ V	–

All stated specifications are subject to change without notice or obligation.

\* AM-N mode cannot be received from 225 to 374.995 MHz.

### Ingress Protection Standard

Water	IPX7 (Waterproof protection)
-------	------------------------------