

## IC-W32A Specifications

This information is taken directly off of the ICOM IC-W32A brochure.

### General

- Frequency coverage (Unit: MHz)
  - VHF Tx: 144-148; Rx: 118-174\*1
  - UHF Tx: 440-450; Rx: 400-470\*2
  - \*1 Guaranteed 144-148; \*2Guaranteed 440-450
- Mode: FM, (U.S.A./Asia versions, AM Rx 118-136 MHz)
- Acceptable power supply : 4.5 to 16 V DC (negative ground)
- Number of memory channels: 200 plus 2 call, 20 scan edges and 4 DTMF
- Tuning steps: 5, 10, 12.5, 15, 20, 25, 30 and 50 kHz
- Useable temperature range : -10°C to +60°C; (+14°F to +140°F)
- Frequency stability:  $\pm 5$  ppm (0°C to +50°C;)
- Current drain (at 13.8 V DC)
  - Tx HIGH VHF 1.6 A, UHF 1.5 A
  - Tx LOW VHF 500 mA, UHF 600 mA
  - Rx Rated audio 210 mA
  - Power saved 40 mA
- Dimensions (w/BP-180 or BP-173):
  - 57(W) x 137(H) x 33(D)mm
  - 2 1/4(W) x 5 13/32(H) x 1 5/16(D)in
- Weight (BP-173 and antenna): 450g (1lb)

### Transmitter

- Output power (at 13.5 V DC): 5 W or 500 mW
- Modulation system : variable reactance frequency modulation
- Max. frequency deviation :  $\pm 5.0$  kHz

- Spurious emissions : Less than -60 dB
- External mic connector : 3-conductor, 2.5(d) mm (1/10")/ 2 K ohms

## Receiver

- Receive system: Double conversion superheterodyne
- Intermediate frequencies(1st/2nd)MHz:
  - VHF 30.85/0.45
  - UHF 46.05/0.45
- Sensitivity (for 12 dB SINAD):
  - original band operation - 0.16  $\mu$ V
  - opposite band operation - 0.32  $\mu$ V
- Squelch Sensitivity: Less than 0.16  $\mu$ V
- Spurious and image rejection ratio:
  - More than 60 dB (VHF)
  - More than 50 dB (UHF) (except 1/2 IF and 2nd image)
- Audio output power (at 13.8 V DC): More than 180mW (10% distortion with an 8-ohm load)
- External speaker connector: 3-conductor, 3.5(d) mm (1/8")/ 8 ohms

## Options

### BATTERY PACKS AND CASE

- BP-171 4.8 V, 700 mAh
- BP-173 9.6 V, 650 mAh
- BP-170 R6 (AA) batteries x 4
- BP-172 4.8 V, 950 mAh
- BP-180 7.2 V, 600 mAh
- Approx. output powers and operating times (at 25°C, Tx high power, Rx standby=1:1:8)

	BP-171	BP-172	BP-173	BP-180
VHF	1.5 W/4.5 h	1.5 W/6.0 h	5.0 W/3.0 h	3.5 W/3.0 h

VHF	1.5 W/4.5 h	1.5 W/6.0 h	5.0 W/3.0 h	3.5 W/3.0 h
UHF	1.3 W/6.0 h	1.3 W/7.5 h	4.5 W/3.5 h	3.5 W/3.5 h

- BC-119 DESKTOP CHARGER + AD-51 DESKTOP CHARGER ADAPTER Rapidly charges battery packs BP-171, BP-172, BP-173 or BP-180. Both AC and DC can be used to power the charger. The AD-51 must be purchased separately. Some BC-119 versions require the AD-75 additionally.
- CP-12/L CIGARETTE LIGHTER CABLE WITH NOISE FILTER OPC-254/L DC POWER CABLE Allows you to operate the transceiver through a 12 V cigarette lighter socket or 4.5 to 16 V external DC power supply with the CP-12/L or OPC-254/L, respectively. The connected battery pack is charged simultaneously (12 to 16V DC required).
- MB-30 MOBILE MOUNTING BRACKET For mounting the transceiver on the inside door panel of a vehicle.
- SPEAKER-MICROPHONES
  - HM-46 Compact and lightweight. Equipped with an earphone jack.
  - HM-54 Durable, full-sized speaker-microphone.
  - HM-75A Allows you to remotely select memory channels, operating frequency, etc. Simple remote and normal remote are selectable.
  - HS-85 HEADSET Allows you hands-free operation. Includes VOX, PTT, "one-touch PTT" (TOT).
  - SP-13 EARPHONE Provides clear audio in noisy environments.
- BC-110A/D/V WALL CHARGER Regularly charges battery packs. The same as supplied with some versions
- CS-W32 CLONING SOFTWARE + OPC-478 CLONING CABLE Provides quick and easy programming of items, including memory channels, memory names and set mode contents, for local repeater frequencies, etc.
- OPC-474 CLONING CABLE Used for handheld-to-handheld data cloning
- LC-128 CARRYING CASE Useable with any battery pack.