

Affordable, high performance radio that offers abundant features

Simple operation for instant communication

The IC-F3002 series is so easy to use there's no special training required. The few knobs and buttons are generously sized for easy operation and are designed to provide non-slip, positive action – even while wearing gloves.

Easy to hear in noisy areas

The built-in bridge-tied load (BTL) amplifier offers powerful 800 mW* audio output from the large 45 mm speaker. The radio delivers loud and intelligible audio even in noisy environments.

* Typical with internal speaker

Longer operating time

A new high efficiency FET of the IC-F3002 series reduces consumption current and provides 20 hours* of operating time with the BP-265, 2000 mAh (typ.) battery pack. Even when used with the BP-264, the radio offers 14 hours* of operating time.

*Tx:Rx:Standby=5:5:90. Power save function ON.

Weather resistant, dust protection, military rugged

While the radio is a compact unit with a height of only 111 mm, the radio is tested to dust protection and water resistant equivalent to IP54 and 11 categories of MIL-STD-810 environmental test. In short, the IC-F3002 series is built rugged!

Internal VOX capability for hands-free operation

The radio has the internal VOX capability for hands-free operation. Optional compatible headset with plug adapter cable OPC-2004 can be used with the radio. Also, the VOX gain and VOX delay time are adjustable.

Selective calling, quiet stand-by and more

2-Tone and 5-Tone signalings give you selective calling, quiet stand-by and other convenient functions with programming. The radio "stun" function disables a radio over the air and the "revive" function restores the stunned radio.

Scan features

The priority scan allows you to monitor one or two priority channels while scanning other non-priority channels. The Tx channel and talk back functions allow you to make a quick response while scanning.

Other features

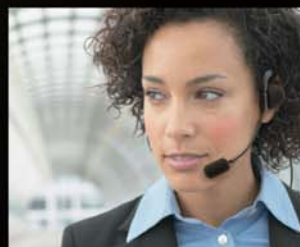
- DTMF autodial
- CTCSS/DTCS encoder/decoder
- BIIS PTT ID transmission
- MDC PTT ID and emergency
- Low battery alert
- 2-step power save
- PC programmable
- Time out timer
- Talk around function
- Lone worker function
- Enhanced emergency
- 3-color LED
- Surveillance function



Dust Protection



Water Resistance



Limited functions.

SPECIFICATIONS

| | IC-F3002 | IC-F4002 |
|--|--|--|
| GENERAL | | |
| Frequency coverage | 136–174 MHz | 400–470 MHz |
| Number of channels | 16 channels | |
| Type of emission | 16K0F3E/14K0F3E/11K0F3E | |
| Channel spacing | 12.5/20/25 kHz | |
| PLL channel step | 2.5/3.125 kHz | 5/6.25 kHz |
| Power supply requirement | 7.2 V DC | |
| Current drain (approximate) | | |
| Tx High | 1.3 A | 1.3 A |
| Rx Max. audio | 330 mA (Internal SP) | 330 mA (Internal SP) |
| Standby | 75 mA | 70 mA |
| Antenna impedance | 50 Ω | |
| Operating temperature range | –25°C to +55°C (Radio only) | |
| Dimensions (W × H × D) | 58 × 111 × 31.0 mm (With BP-264) | |
| (Projections not included) | 58 × 111 × 35.5 mm (With BP-265) | |
| Weight (approx.) | 330 g (With BP-264) | |
| | 270 g (With BP-265) | |
| TRANSMITTER | | |
| Output power (at 7.2 V DC) | 5 W, 2 W, 1 W (Hi, L2, L1) | 4 W, 2 W, 1 W (Hi, L2, L1) |
| Max. frequency deviation | ± 5.0 kHz/±4.0 kHz/±2.5 kHz (Wide/Middle/Narrow) | |
| Frequency stability | ±2.5 ppm | |
| Spurious emissions | 0.25 μW (≤ 1 GHz) 1.0 μW (> 1 GHz) | |
| Residual modulations | 58/56/53 dB typ. (Wide/Middle/Narrow) | 53/51/48 dB typ. (Wide/Middle/Narrow) |
| Audio harmonic distortion (AF 1kHz 40% deviation) | 1.0%/1.0%/1.5% typ. (Wide/Middle/Narrow) | |
| Ext. microphone connector | 3-conductor 2.5 (d) mm (1/10")/2.2 kΩ | |
| RECEIVER | | |
| Sensitivity (at 20 dB SINAD) | –4 dBμV typ. emf | |
| Adjacent channel selectivity | 78/78/70 dB typ. (Wide/Middle/Narrow) | 73/73/65 dB typ. (Wide/Middle/Narrow) |
| Spurious response rejection | 70 dB min. | |
| Intermodulation rejection | 65 dB min. | |
| Hum and noise (With CCITT filter) | 57/55/51 dB typ. (Wide/Middle/Narrow) | 52/50/47 dB typ. (Wide/Middle/Narrow) |
| Audio output power | | |
| Internal SP (With 12 Ω load) | 800 mW typ. (at 5% distortion) | |
| External SP (With 8 Ω load) | 400 mW typ. (at 5% distortion) | |
| Ext. speaker connector | 2-conductor 3.5 (d) mm (1/8")/8 Ω | |

Measurements made in accordance with EN 300-086.

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

Applicable U.S. Military Specifications & IP Rating

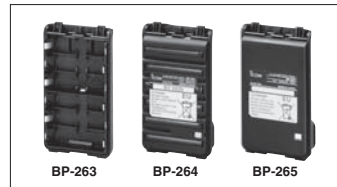
| Standard | MIL 810F | |
|-------------------|----------|-----------|
| | Method | Procedure |
| Low Pressure | 500.4 | I, II |
| High Temperature | 501.4 | I, II |
| Low Temperature | 502.4 | I, II |
| Temperature Shock | 503.4 | I |
| Solar Radiation | 505.4 | I |
| Rain Blowing/Drip | 506.4 | I, III |
| Humidity | 507.4 | – |
| Salt Fog | 509.4 | – |
| Dust Blowing | 510.4 | I |
| Vibration | 514.5 | I |
| Shock | 516.5 | I, IV |

Also meets equivalent MIL-STD-810-C, -D and -E.

| Ingress Protection Standard | |
|-----------------------------|--|
| Dust & Water | IP54 (Dust-protection and water resistant) |

OPTIONS

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



| Battery packs | Type and capacity | Operating time* |
|---------------|--|--------------------|
| BP-263 | AA (LR6) batteries × 6 | – |
| BP-264 | Rechargeable Ni-MH, 1400 mAh | 14 hours (Approx.) |
| BP-265 | Rechargeable Li-ion, 1850 mAh (min.) 2000 mAh (typ.) | 20 hours (Approx.) |

* Tx: standby = 5:5:90. Power save function ON.

REGULAR CHARGER
For BP-264 (Ni-MH battery)



BC-147S/BC-206S*1 BC-192
Charges the BP-264 in 16 hours (approx.).

RAPID CHARGER
For BP-264 (Ni-MH battery)



BC-123S*1 BC-191
Charges the BP-264 in 2 hours (approx.).

RAPID CHARGER
For BP-265 (Li-Ion battery)



BC-123S*1 BC-193
Charges the BP-265 in 2.5 hours (approx.).

*1 BC-123SA/BC-147SA for the USA plug. BC-123SV/BC-147SV for the Australian plug. BC-123SE/BC-206SE for the European plug.

MULTI-CHARGER
For BP-264/BP-265



BC-197

CIGARETTE LIGHTER CABLE & POWER SUPPLY CABLES



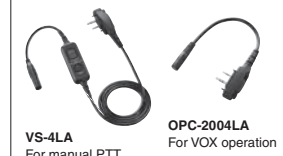
CP-23L For use with BC-191 or BC-193
OPC-515L For use with BC-191, BC-192 or BC-193
OPC-656 For use with BC-197

HEADSETS



HS-94 Earhook type
HS-95 Behind-the-head type
HS-97 Throat type
Either VS-4LA or OPC-2004LA is required when using any of headset.

PTT SWITCH CABLE and PLUG ADAPTER CABLE



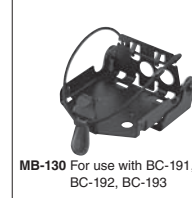
VS-4LA For manual PTT operation
OPC-2004LA For VOX operation

SPEAKER-MICROPHONES



HM-158LA HM-159LA

CHARGER BRACKET



MB-130 For use with BC-191, BC-192, BC-193

BELT CLIP



MB-124 Alligator type Same as supplied.

STANDARD ANTENNAS

- FA-SC25V : 136–150 MHz
- FA-SC55V : 150–174 MHz
- FA-SC25U : 400–430 MHz
- FA-SC57U : 430–470 MHz

HIGH GAIN ANTENNAS

- FA-SC62V : 150–160 MHz
- FA-SC63V : 155–165 MHz

CHARGER ADAPTERS

- AD-120 for BP-264
- AD-121 for BP-265

Either AD-120 or AD-121 charger adapters are supplied with the BC-197, depending on BC-197's version.

STUBBY ANTENNAS

- FA-SC56VS : 150–162 MHz
- FA-SC57VS : 160–174 MHz
- FA-SC73US : 450–490 MHz

CUT ANTENNAS

- FA-SC61VC : 136–174 MHz
- FA-SC61UC : 380–520 MHz

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