



VHF AND UHF TRANSCEIVERS

IC-F3001

VHF transceiver

IC-F4001

UHF transceiver

Affordable, high performance radio that offers abundant features

Simple operation for instant communication

The IC-F3001 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 800mW* audio output from the large 45mm 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-F3001 series reduces consumption current and provides 20 hours* of operating time with the BP-265, 2000mAh 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 111mm (4³/₈ inch), 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-F3001 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

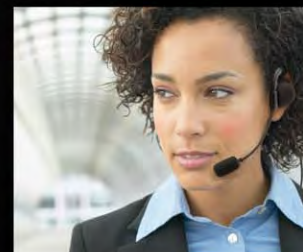
- DTMF autodial
- BIIS PTT ID transmission
- Low battery alert
- PC programmable
- Talk around function
- Enhanced emergency
- Surveillance function
- CTCSS/DTCS encoder/decoder
- MDC PTT ID and emergency
- 2-step power save
- Time out timer
- Lone worker function
- 3-color LED



Dust protection



Water resistance



Limited functions.

SPECIFICATIONS

| | IC-F3001 | IC-F4001 |
|---|--|--------------------------|
| GENERAL | | |
| Frequency coverage | 136-174MHz | 400-470MHz 450-512MHz |
| Number of channels | 16 channels | |
| Type of emission | 16K0F3E/11K0F3E | |
| Channel spacing | 12.5/25kHz, 15/30kHz | 12.5/25kHz |
| PLL channel step | 2.5/3.125kHz | 5/6.25kHz |
| Power supply requirement | 7.2V DC nominal | |
| Current drain (approx.) | | |
| Tx High | 1.25A | 1.3A |
| Rx Max. audio | 330mA (Internal SP) | 330mA (Internal SP) |
| Standby | 70mA | 70mA |
| Antenna impedance | 50Ω | |
| Operating temperature range | -30°C to +60°C ; -22°F to +140°F (Radio only) | |
| Dimensions (W×H×D) | 58×111×31.0 mm ; 2 ⁹ / ₃₂ ×4 ³ / ₈ ×1 ¹ / ₃₂ in (With BP-264) | |
| (Projections not included) | 58×111×35.5 mm ; 2 ⁷ / ₃₂ ×4 ³ / ₈ ×1 ¹⁹ / ₃₂ in (With BP-265) | |
| Weight (approx.) | 330g; 11.6oz (With BP-264) 270g; 9.5oz (With BP-265) | |
| TRANSMITTER | | |
| Output power (at 7.2V DC) | 5W, 2W, 1W (Hi, L2, L1) | 4W, 2W, 1W (Hi, L2, L1) |
| Max. frequency deviation | ±5.0kHz/±2.5kHz (Wide/Narrow) | |
| Frequency stability | ±2.5ppm | |
| Spurious emissions | 70dB min. | |
| FM Hum and noise | 46/40dB typ. (Wide/Narrow) | |
| Audio harmonic distortion (AF 1kHz 40% deviation) | 1.0/1.5% typ. (Wide/Narrow) | |
| Ext. microphone connector | 3-conductor 2.5 (d) mm (1/8")/2.2kΩ | |
| RECEIVER | | |
| Sensitivity (at 12dB SINAD) | 0.25μV typ. | |
| Adjacent channel selectivity | 73/65dB typ. (Wide/Narrow) | |
| Spurious response rejection | 70dB min. | |
| Intermodulation rejection | 74dB typ. | |
| Hum and noise | 52/47dB typ. (Wide/Narrow) | |
| Audio output power (at 5% distortion) | | |
| Internal SP (With 12Ω load) | 800mW typ. | |
| External SP (With 8Ω load) | 400mW typ. | |
| Ext. speaker connector | 2-conductor 3.5 (d) mm (1/8")/8Ω | |
| Measurements made in accordance with TIA-603. | | |
| 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 | 502.4-3 | 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* (Approx.) |
|---------------|--|---------------------------|
| BP-263 | AA (LR6) batteries × 6 | - |
| BP-264 | Ni-MH, 7.2V 1400mAh | 14 hours |
| BP-265 | Li-Ion, 7.4V 1900mAh (min.) 2000mAh (typ.) | 20 hours |

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



REGULAR CHARGER
For BP-264 (Ni-MH battery)
Charges the BP-264 in 16 hours (approx.).



RAPID CHARGER
For BP-264 (Ni-MH battery)
Charges the BP-264 in 2 hours (approx.).



RAPID CHARGER
For BP-265 (Li-Ion battery)
Charges the BP-265 in 2.5 hours (approx.).

*1 BC-123SA/BC-147SA for 120V AC. SE for 230V AC. SV for 240V AC.



HM-158L : Compact and durable body.
HM-159L : Full size durable speaker microphone.



HS-94 : Earhook headset with flexible boom microphone.
HS-95 : Behind-the-head headset with flexible boom microphone.
HS-97 : Throat microphone that fits around your neck and picks up speech vibrations.
OPC-2004 : Required when using any of these headsets.



CP-23L CIGARETTE LIGHTER CABLE
For use with the BC-191 or BC-193.
OPC-515L DC POWER CABLE
For use with the BC-191, BC-192 or BC-193.



MB-124
Alligator type clip.
Same as supplied.

STUBBY ANTENNAS

- FA-SC56VS : 150-162MHz
- FA-SC57VS : 160-174MHz
- FA-SC73US : 450-490MHz
60-80 mm antennas.

CUT ANTENNAS

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

Cut the antenna element to tune to a specific center frequency.

ANTENNAS

- FA-SC25V : 136-150MHz
- FA-SC55V : 150-174MHz
- FA-SC25U : 400-430MHz
- FA-SC57U : 430-470MHz
- FA-SC72U : 470-520MHz

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