



VHF AND UHF TRANSCEIVERS

IC-F3001

VHF transceiver

IC-F4001

UHF transceiver

PacTronics Inc
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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 ⁹ / 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)

BC-192 DESKTOP CHARGER + BC-147S*1 AC ADAPTER
Charges the BP-264 in 16 hours (approx.).



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

BC-191 DESKTOP CHARGER + BC-123S*1 AC ADAPTER
Charges the BP-264 in 2 hours (approx.).



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

BC-193 DESKTOP CHARGER + BC-123S*1 AC ADAPTER
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.



SPEAKER-MICROPHONES

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



HEADSETS and PLUG ADAPTER CABLE

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.



POWER SUPPLY CABLES

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.



BELT CLIP

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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