



VHF AND UHF TRANSCEIVERS

IC-F3031S

VHF transceiver

IC-F4031S

UHF transceiver

Superior Waterproof Protection Combined with Versatile Functions



IP67 waterproof and dust-tight protection

The IC-F3031S series provides outstanding protection against water and dust equivalent to IP67. The IC-F3031S series can withstand 1m depth of water for 30 minutes and its dust-tight construction that prevents the ingress of powder dust, sand, mud and other objects.

Longer operating time

The supplied waterproof Li-Ion battery pack, BP-232WP (7.4V, 2300mAh (typ.)), provides 17.5 hours* of operating time. The battery has been designed for reliability in extremely cold environments.

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

Selective calling, quiet stand-by and more

The IC-F3031S series has built-in 2-Tone, 5-Tone, CTCSS and DTCS signaling capabilities for group communication or selective calling. When a matched 2-Tone/5-Tone is received, the following actions are programmable for each code.

- Answer back calls
- Beep sounds
- Bell icon
- Radio stun/kill/revive
- Auto TX
- Scan

MDC 1200 compatible

The following selective calling and ANI features are programmable with the built-in MDC signaling.

- PTT ID
- Emergency (No ACK transmission)
- Radio check (RX only)
- Stun/Revive (RX only)

Emergency function

A red button on the top panel can be used as an emergency button and can be used to transmit an emergency signal. Man down (optional UT-124R required) and lone worker functions can also be used for the emergency function trigger.

Scan features

Priority scan allows you to monitor one or two priority channels while scanning other channels. The mode dependent scan automatically changes the scanning list following the operating channel. The Tx channel and talk back functions allow you to make a quick response while scanning.

Internal option units available

The IC-F3031S series has an internal socket for a variety of option units including voice scrambler, DTMF decoder or man down unit.

Other features

- Up to 128 memory channel with 8 zones
- 8-character alphanumeric LCD
- 8 DTMF autodial memories
- Optional HM-168LWP, waterproof speaker-mic
- BIIS PTT ID transmission
- Low battery alert
- 2-step power save
- PC programmable
- Time out timer
- Talk around function
- Surveillance function



Limited functions.

SPECIFICATIONS

	IC-F3031S	IC-F4031S
GENERAL		
Frequency coverage	136–174MHz	400–470MHz 450–512MHz
Number of channels	128 channels/8 zones	
Type of emission	16K0F3E/11K0F3E	
Channel spacing	25/12.5 kHz 30/15 kHz	25/12.5 kHz
Power supply requirement	7.2V DC nominal	
Current drain (approx.)		
Tx High	1.5A (at 5W)	1.6A (at 4W)
Rx Max. audio/Standby	250mA/75mA	300mA/75mA
Antenna impedance	50Ω	
Operating temperature range	–30°C to +60°C; –22°F to +140°F (Radio specifications)	
Dimensions (W×H×D)	53×120×37 mm; 2.09×4.72×1.46 in (Projections not included) (With BP-232WP)	
Weight (approx.)	310g; 10.9oz (With BP-232WP)	
TRANSMITTER		
Output power (at 7.2V DC)	5W, 2W, 1W (Hi, L2, L1)	4W, 2W, 1W (Hi, L2, L1)
Max. frequency deviation	±5.0/±2.5kHz (Wide/Narrow)	
Frequency stability	±2.5ppm	
Spurious emissions	80dB typ.	70dB min.
FM Hum and Noise	46/40dB typ. (Wide/Narrow)	
Audio harmonic distortion	3% typ. (AF 1kHz 40% deviation)	
Ext. microphone connector	3-conductor 2.5 (d) mm (1/10")/2.2kΩ	
RECEIVER		
Sensitivity (at 12dB SINAD)	0.25μV typ.	
Adjacent channel selectivity	75/65dB typ. (Wide/Narrow)	
Spurious response rejection	70dB min.	
Intermodulation rejection	75dB typ.	74dB typ.
Hum and noise	55/50dB typ. (W/N)	45/40dB typ. (W/N)
Audio output power	500mW typ. (at 5% distortion, 8Ω load)	
Ext. speaker connector	2-conductor 3.5 (d) mm (1/8")/8Ω	

Measurements made in accordance with EIA/TIA-603.
All stated specifications are subject to change without notice or obligation.

Applicable U.S. Military Specifications & IP Rating

Standard	MIL 810G	
	Method	Procedure
Low Pressure	500.5	I, II
High Temperature	501.5	I, II
Low Temperature	502.5	I, II
Temperature Shock	503.5	I-C
Solar Radiation	505.5	I
Rain Blowing/Drip	506.5	I, III
Humidity	507.5	II
Salt Fog	509.5	–
Dust Blowing	510.5	I
Immersion	512.5	I
Vibration	514.6	I
Shock	516.6	I, IV

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

Ingress Protection Standard (IC-F3031S/F4031S, BP-232WP & HM-168LWP)	
Dust & Water	IP67 (Dust-tight and waterproof protection)

Supplied accessories: (May differ according to version)
• Battery pack, BP-232WP • Belt clip, MB-94 • Antenna

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OPTIONS

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

BATTERY PACK AND CASES



Battery packs and cases	Type	Capacity	Operating time*
BP-232WP	Li-Ion 7.4V	2250mAh (min.) 2300mAh (typ.)	17.5 hours (Approx.)
BP-240	LR03 (AAA) batteries × 6	–	–
BP-261	LR6 (AA) batteries × 6	–	–

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

REGULAR CHARGER



Charges the BP-232WP in 8–10 hours (approx.).

RAPID CHARGER



Charges the BP-232WP in 3 hours (approx.).

RAPID CHARGER



Charges the BP-232WP in 3 hours (approx.).

*1 BC-145/BC-147SA for 120V AC. SE for 230V AC. SV for 240V AC. BC-145SUK for 230V AC.

MULTI-CHARGER



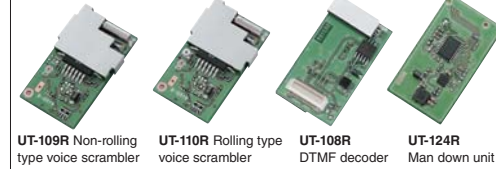
CIGARETTE LIGHTER CABLE & POWER SUPPLY CABLES



SPEAKER-MICROPHONES



INTERNAL UNITS



- BELT CLIPS**
- MB-93 Swivel type
- MB-94 Alligator type
- Same as supplied.
- STUBBY ANTENNAS**
- FA-SC56VS: 150–162MHz
- FA-SC57VS: 160–174MHz
- FA-SC73U: 450–490MHz
- CUT ANTENNAS**
- FA-SC61VC: 136–174MHz
- FA-SC61UC: 380–520MHz

EARPHONES



LEATHER BELT HANGERS



- HIGH GAIN ANTENNAS**
- FA-SC62V: 150–160MHz
- FA-SC63V: 155–165MHz
- 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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