



## VHF AND UHF TRANSCEIVERS

### IC-F3033T

VHF transceiver with full keypad

### IC-F4033T

UHF transceiver with full keypad

### IC-F3033S

VHF transceiver with simple keypad

### IC-F4033S

UHF transceiver with simple keypad

## Superior Waterproof Protection Combined with Versatile Functions



#### IP67 waterproof and dust-tight protection

The IC-F3033T/S series provides outstanding protection against water and dust equivalent to IP67. The IC-F3033T/S 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-F3033T/S series has built-in 2-Tone, 5-Tone, CTCSS and DTCSS 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-F3033T/S 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
- BISS PTT ID transmission
- Low battery alert
- 2-step power save
- PC programmable
- Time out timer
- Talk around function
- Surveillance function

IC-F3033S

IC-F4033T



Limited functions.



**SPECIFICATIONS**

	IC-F3033T/S	IC-F4033T/S
<b>GENERAL</b>		
Frequency coverage	136–174MHz	400–470MHz 450–520MHz
Number of channels	128 channels/8 zones	
Type of emission	16K0F3E/11K0F3E	
Channel spacing	25/12.5 kHz	
Power supply requirement	7.2V DC nominal	
Current drain (approx.)		
Tx High	1.5A (at 5W)	1.6A (at 5W)
Rx Max. audio/Standby	250mA/75mA	300mA/75mA
Antenna impedance	50Ω	
Operating temperature range	–30°C to +60°C (Radio specifications)	
Dimensions (W×H×D)	53×120×37 mm (With BP-232WP)	
(Projections not included)		
Weight (approx.)	310g (With BP-232WP)	
<b>TRANSMITTER</b>		
Output power (at 7.2V DC)	5W, 2W, 1W (Hi, L2, L1)	5W, 2W, 1W (Hi, L2, L1)
Max. frequency deviation	±5.0/±2.5kHz (Wide/Narrow)	
Frequency stability	±2.5ppm	
Spurious emissions	80dB	75dB
FM Hum and Noise	55/50dB (Wide/Narrow)	
Audio harmonic distortion	3% (AF 1kHz 40% deviation)	
Ext. microphone connector	3-conductor 2.5 (d) mm (1/10")/2.2kΩ	
<b>RECEIVER</b>		
Sensitivity (at 12dB SINAD)	0.25μV	
Adjacent channel selectivity	75/70dB(Wide/Narrow)	
Spurious response rejection	75dB min.	
Intermodulation rejection	75dB	75dB
Hum and noise	55/50dB (W/N)	50/45dB (W/N)
Audio output power	500mW (at 3% 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.

<b>Ingress Protection Standard</b> (IC-F3033T/S, F4033T/S, 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

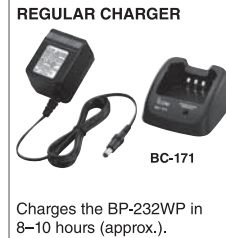
**OPTIONS**

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

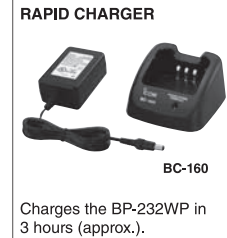


Battery packs and cases	Type	Capacity	Operating time*
BP-232WP	Li-Ion 7.4V	2250mAh (min.)	17.5 hours (Approx.)
BP-232H		2300mAh (typ.)	
BP-261	LR6 (AA) batteries × 6		–

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



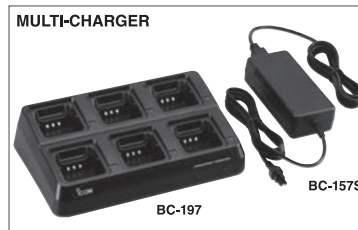
Charges the BP-232WP in 8–10 hours (approx.).



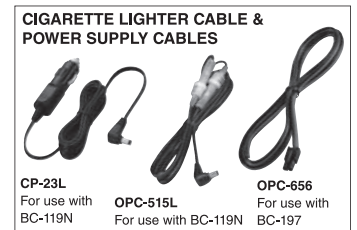
Charges the BP-232WP in 3 hours (approx.).



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



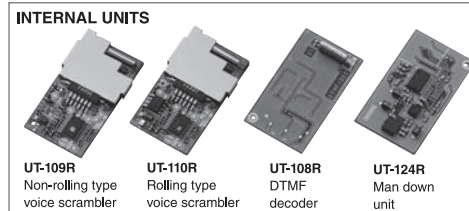
Multi-charger



CIGARETTE LIGHTER CABLE & POWER SUPPLY CABLES



SPEAKER-MICROPHONES



INTERNAL UNITS

- BELT CLIPS**
- MB-93 Swivel type
- MB-94 Aligator type
- LEATHER BELT HANGERS**
- MB-96N Swivel type
- MB-96F Fixed type
- STUBBY ANTENNAS**
- FA-SC56VS: 150–162MHz
- FA-SC57VS: 160–174MHz
- FA-SC73US: 450–490MHz
- CUT ANTENNAS**
- FA-SC61VC: 136–174MHz
- FA-SC61UC: 380–520MHz



EARPHONES



VEHICLE CHARGER BRACKET

- 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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