



## 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 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-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
- BIIS PTT ID transmission
- Low battery alert
- 2-step power save
- PC programmable
- Time out timer
- Talk around function
- Surveillance function



IC-F4033T

IC-F3033S



Limited functions.



## SPECIFICATIONS

|  | IC-F3033T/S                            | IC-F4033T/S              |
|--|--|--------------------------|
| <b>GENERAL</b>                                   |  |                          |
| Frequency coverage                               | 136–174MHz                             | 400–470MHz<br>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 4W)             |
| 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)<br>(Projections not included) | 53×120×37 mm (With BP-232WP)           |                          |
| Weight (approx.)                                 | 310g (With BP-232WP)                   |                          |
| <b>TRANSMITTER</b>                               |  |                          |
| 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 (1/16")/2.2kΩ   |                          |
| <b>RECEIVER</b>                                  |  |                          |
| 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-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 PACK AND CASES



| Battery packs and cases | Type                     | Capacity                         | Operating time*      |
|-------------------------|--------------------------|----------------------------------|----------------------|
| BP-232WP                | Li-Ion 7.4V              | 2250mAh (min.)<br>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



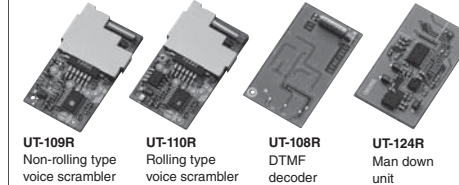
### CIGARETTE LIGHTER CABLE & POWER SUPPLY CABLES



### SPEAKER-MICROPHONES



### INTERNAL UNITS



- BELT CLIPS**
  - MB-93 Swivel type
  - MB-94 Alligator type
- 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

- 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

### EARPHONES



### VEHICLE CHARGER BRACKET



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