



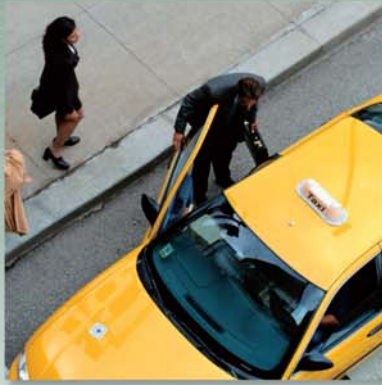
VHF AND UHF TRANSCEIVERS

IC-F5022

VHF TRANSCEIVER

IC-F6022

UHF TRANSCEIVER



One Step Up



MDC 1200
Compatible

Limited Functions only.

128 ch (Max.) /
8 zones

2-Tone, 5-Tone
CTCSS, DTCS

MDC PTT ID &
MDC emergency call

25W Output
Power

8-character
LCD display

Optional voice
scrambler



Features, Performance, Value For the Everyday PMR User

The IC-F5022 series is ideal for small-to-mid sized systems for public safety, large industry to light commercial users.

The IC-F5022 series offers multiple signaling, advanced scanning, improved external channel control capability and wide frequency coverage packed in a compact body. This rugged mobile easily exceeds your expectations with its reliable performance and communication quality.



VHF TRANSCEIVER 25 W

IC-F5022

UHF TRANSCEIVER 25 W

IC-F6022



128 memory channels

128 channels (Max.) separated into 8 memory zones. Memory channels can be identified with the 8-character channel name and selected easily with the up/down buttons.



Front mounted speaker

4 watts (typ.) front mounted speaker delivers clear and loud audio. With the speaker facing the operator, audio can be clearly heard without impediment during operation.

6 programmable buttons

A pair of up/down and P0–P3 function assignable buttons allow you to customize functions to meet specific needs. An independent volume knob offers simple, convenient operation.

MIL grade rugged construction

The tough aluminum die-cast chassis and polycarbonate front panel have been tested to the MIL standard 810F. With this heavy-duty construction, the IC-F5022 series provides reliable operation over the long term in all manners of rugged environments.

Most popular signalings built-in

Use the built-in 2-Tone, 5-Tone, CTCSS and DTCS capabilities as standard to set up your own talk groups, PTT ID and quiet stand-by when others are talking. The IC-F5022 series has added CTCSS/DTCS high speed decode.

MDC 1200 compatible

The following MDC features are available with the built-in MDC signaling.

- PTT ID (TX/RX)
- Radio check (RX)
- Radio stun (RX)
- Radio revive (RX)
- Emergency TX/RX (No ACK)
- 5 alias table (Max.)

Multiple 2-Tone, Multiple 5-Tone

Up to ten 2-Tone and eight 5-Tone codes can be decoded on a channel. When a matched tone is received, the following items are programmable for each code.

- Beep sound
- Answer back
- Scan
- Bell icon
- Radio stun/kill/revive

Radio kill, stun and revive

The radio kill/stun functions disable a lost or stolen radio over the air, eliminating security threats from undesired listeners. When the stun command is received, all functions will be temporary locked out until the revive command is received or the unlock password is entered.

Lone worker function

When the radio is not operated for a preset period, the radio sounds a beep and requires you to push any button. If the radio is still not operated for a specified wait period, an emergency signal automatically transmits and informs co-workers that something may have happened to the individual worker.

Mode dependent scan

In the mode dependent setting, the scanning setting is dependent on the operating channel. When you change the operating channel, the scanning list automatically changes to the list set for that channel. It is convenient when you move to a different operating area and change operating channel, you don't have to change the scanning setting.

Tx channel setting and Talk back function

The Tx channel setting allows you to program a transmission channel while scanning. Start channel, last detected channel, priority and preprogrammed channel are selectable. Prior to the Tx channel setting, the talk back function allows you to talk on the last detected channel, while scanning resumes after a preset time. The user can easily make a quick response with this function.

Wide frequency coverage

The IC-F5022 series covers a wide frequency range in one version (VHF 136–174, UHF 400–470 MHz).

Compatible with IC-F3032/F4032 series handheld

The IC-F5022/F6022 series is designed to be a companion to our IC-F3032/F4032 series handheld transceiver. The number of channels and banks, signaling formats, programming software and voice scrambler are compatible. Take advantage of the shared functionality to complete your communications requirements.



Optional internal units

The IC-F5022 series has a 40-pin option slot for adding an optional internal unit. Optional voice scrambler units, UT-109R or UT-110R provide secure private conversation.

External memory channel control with optional ACC cable

With the optional OPC-1939 D-SUB 15-pin ACC cable, the IC-F5022 series can be programmed to control an operating channel from an external device (up to 16 preprogrammed channels). The ACC connector also provides an ignition sensing function, external PTT, PC command, horn honk, audio output and modulated signal input depending on programming.



Other features

- BIIS 1200 PTT ID transmission
- Microphone hanger action programmable
- Wide, middle and narrow channel spacing (25, 20, 12.5 kHz) programmable
- Optional DTMF microphone (HM-152T)
- Time-out-timer, lock-out penalty timer and more
- 8 DTMF autodial memories
- Power-on password function
- Nuisance delete function



SPECIFICATIONS

	IC-F5022	IC-F6022
GENERAL		
Frequency coverage	136–174 MHz	400–470 MHz
Number of channels	Max. 128 Ch/ 8 zones	
Type of emission	16K0F3E, 14K0F3E, 8K50F3E	
Channel spacing	25/20/12.5 kHz	
Power supply requirement	13.2 V DC	
Current drain (approx.)		
Tx	25 W	5 A
Rx	Max. audio	700 mA
Standby		250 mA
Antenna impedance	50 Ω (SO-239)	
Operating temperature range	–25 °C to +55 °C	
Dimensions (W × H × D) (Projections not included)	150 × 40 × 117.5mm	
Weight (approx.)	0.8 kg	
TRANSMITTER		
Output power (at 13.2 V DC)	25 W, 10 W, 2.5 W (Hi, L2, L1)	
Max. frequency deviation	±5.0 kHz/±4.0 kHz/±2.5 kHz (W/M/N)	
Frequency stability	±1.5 kHz	
Spurious emissions	0.25 μW (≤ 1 GHz) 1.0 μW (> 1 GHz)	
Residual modulation	55/53/50 dB typ. (W/M/N)	
Audio harmonic distortion	3% typ. (AF 1 KHz, 40% deviation)	
Modulation limiting	70–100% of Max. deviation	
Ext. microphone impedance	600 Ω (8-pin modular)	

Measurements made in accordance with EN 300-086.
All stated specifications are subject to change without notice or obligation.

	IC-F5022	IC-F6022
RECEIVER		
Sensitivity (at 20 dB SINAD)	–4 dBμV typ. emf	
Adjacent channel selectivity	75/75/65 dB typ. (W/M/N)	
Spurious response	80 dB typ.	
Intermodulation	67 dB typ.	
Hum and noise	55/53/50 dB typ. (W/M/N)	
Audio output power	4W typ. (at 5% distortion, 4 Ω load)	
Ext. speaker connector	2-conductor 3.5 (d) mm (1/8")/4 Ω	

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Applicable U.S. Military Specifications

Standard	MIL 810F	
	Method	Procedure
Low Pressure	500.4	I, II
High Temperature	501.4	I, II
Low Temperature	502.4	I, II
Temperature Shock	503.4	I
Solar Radiation	505.4	I
Humidity	507.4	–
Settling Dust	510.4	III
Vibration	514.5	I
Shock	516.5	I, IV

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

Supplied Accessories

- Hand microphone (HM-152)
- DC power cable
- Microphone hanger
- Key assign stickers
- Mounting bracket kit

OPTIONS

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

HAND MICROPHONES

HM-152 HM-152T DTMF microphone HM-148G Heavy duty microphone HM-148T Heavy duty microphone with DTMF keypad

DESKTOP MICROPHONE

SM-26

EXTERNAL SPEAKERS

SP-35: 2 m cable
SP-35L: 6 m cable

VOICE SCRAMBLER UNITS

UT-109R VOICE SCRAMBLER UNIT Non-rolling type UT-110R VOICE SCRAMBLER UNIT Rolling type

ACC CABLES

OPC-1939 15-pin type OPC-2078 25-pin type

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