



## VHF AND UHF TRANSCEIVERS

### IC-F3061T

(VHF transceiver with 10-keypad)

### IC-F4061T

(UHF transceiver with 10-keypad)

### IC-F3061S

(VHF transceiver without 10-keypad)

### IC-F4061S

(UHF transceiver without 10-keypad)



# F3061 F4061 Series



Icom Inc.

# LTR<sup>®</sup>/Conventional/Digital\* – Multi-Mode

\* With UT-119H installed.



▲ IC-F3061T

▲ IC-F4061S

## VHF TRANSCEIVERS

### IC-F3061T

With 10-keypad

### IC-F3061S

Without 10-keypad

## UHF TRANSCEIVERS

### IC-F4061T

With 10-keypad

### IC-F4061S

Without 10-keypad

### Basic LTR<sup>®</sup>/Conventional mixed mode operation

The IC-F3061 series provides LTR<sup>®</sup>/conventional mixed mode operation. Group, selective (DTMF), and Phone call are available in LTR<sup>®</sup> mode.

### IP54/55 Dust-protection and splash, water jet resistance

The IC-F3061 series meets IP54/55 requirements for dust-protection, splash and water jet resistance. Its durable construction is backed up by the aluminum die-cast chassis and polycarbonate casing, allowing reliable operation under harsh weather and environmental conditions.

### Lithium-Ion battery pack

Supplied 2000mAh Li-Ion battery pack, BP-232, provides 14 hours\* of operating time. Icom's rugged dual-rail guide securely locks the battery to the radio. Optional battery case BP-240 provides a convenient back up and great reassurance in an emergency. \* Typical operation Tx:Rx:Stand-by=5:5:90, power save on

### Most popular signalings built-in

The IC-F3061 series has built-in 2-Tone, 5-Tone, CTCSS and DTCS signaling capabilities as standard for group communication or selective calling. 40 pairs of CTCSS/DTCS memory channels are programmable independent of the operating channels. Also, the IC-F3061 series can decode ten 2-Tone codes or eight 5-Tone codes on a channel. When a matched tone is received, the following actions are programmable for each code.

- Beep sound
- Bell icon
- Auto TX
- Answer back call
- Stun/kill radio
- Scan

### Wide frequency range and large channel capacity

The IC-F3061 series covers a wide frequency range in one version (VHF 136–174 MHz, UHF 400–470MHz or 450–520 MHz). The 512 memory channel capacity with 128 zones allows you to divide and store a variety of flexible channel groupings. Memory channel selection can be made with a simple rotation of the rotary channel knob. Wide and narrow channel bandwidth (25/12.5kHz, 30/15kHz) is also programmable.

# Land Mobile!

## Full dot-matrix LCD

Using a large full dot-matrix LCD (32 × 18 mm), the IC-F3061 series shows upper and lower case characters clearly. The display setting is selectable from 1 line, 12 characters or 2 lines 24 characters via programming. The bottom row shows assigned functions to the [P0] to [P3] buttons.



## Enhanced audio

The IC-F3061 series employs a BTL amplifier that increases the audio output and the built-in audio compander provides clear, low noise communications.

## Voting mode scanning

The Voting mode scanning detects the S-meter level of repeater stations and automatically selects the strongest station, useful for roaming between 2 or more repeater sites. In addition, the IC-F3061 series has 10 scanning modes including priority scan and double priority scan.

## Built-in inversion-type voice scrambler

The built-in inversion type voice scrambler provides secure conversion as standard. When a more secure system is required, the 32 code non-rolling-type voice scrambler UT-109R and 1020 code rolling type UT-110R are available as an option.

## Other features

- 8 DTMF autodial memories
- 2 step reduced power setting
- Power on password
- Busy, repeater lockout functions
- Radio stun and kill functions disable a lost or stolen unit over the air
- Surveillance function temporarily turns off the LED backlight and beep sound
- Powerful 5W output both VHF and UHF
- Flash CPU for future upgrade and more...

## OPTIONS

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

### BATTERY PACKS AND CASE



Battery packs	Type and capacity	Operating time*	Output power
BP-230	Li-Ion 7.4V/ 800mAh	6 hours	5W
BP-231	Li-Ion 7.4V/1150mAh	8 hours	5W
BP-232	Li-Ion 7.4V/2000mAh	14 hours	5W
BP-240	AAA (LR03) batteries × 6	–	1W

\* Operating time is approximate time (at 20°C). Tx: Rx: standby=5:5:90. Power save on.

### REGULAR CHARGER



▲ BC-171 ▲ BC-171  
**BC-171 DESKTOP CHARGER + BC-147A AC ADAPTER**  
Charges the battery pack in 8–10 hours. (approx.). Coming soon.

### RAPID CHARGER



▲ BC-145A ▲ BC-160  
**BC-160 DESKTOP CHARGER + BC-145A AC ADAPTER**  
Charges the BP-232 in 3 hrs. (approx.).  
**BC-119N + AD-106 + BC-145A** is also available.

### BELT CLIPS



▲ MB-93 ▲ MB-94  
**MB-93** : Swivel type. A fast and easy way to remove the transceiver from your belt.  
**MB-94** : Alligator type. Same as supplied.

### MULTI-CHARGER



▲ BC-121N+AD-106 (6 pcs.) ▲ OPC-656 ▲ BC-157  
**BC-121N MULTI-CHARGER + AD-106 CHARGER ADAPTER + BC-157 AC ADAPTER**  
Rapidly charges up to 6 battery packs (Six AD-106s are required).  
Charging time: 3 hours (approx.) when BP-232 is attached.  
**OPC-656 DC POWER CABLE** :For use with the BC-121N. (12–20V DC required).

### LEATHER BELT HANGERS



▲ MB-96N ▲ MB-96F  
**MB-96N**: Swivel type belt hanger. Swivel joint of the MB-93 supplied.  
**MB-96F** : Fixed type belt hanger. For use with MB-94.

### HEADSETS and PTT/VOX UNIT



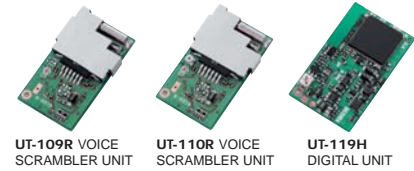
▲ HS-94 ▲ HS-95 ▲ HS-97 ▲ VS-1SC  
**HS-94**: Earhook headset with flexible boom microphone.  
**HS-95**: Behind-the-head headset with flexible boom microphone.  
**HS-97**: Throat microphone fits around your neck and picks up speech vibration.  
**VS-1SC**: PTT/VOX unit. Required when using these headsets with the transceiver.

### SPEAKER-MICROPHONES



▲ HM-131SC ▲ HM-159SC  
**HM-131SC** : Compact type speaker microphone.  
**HM-159SC** : Full size durable speaker microphone with revolving clip.

### INTERNAL UNITS



▲ UT-109R ▲ UT-110R ▲ UT-119H  
**UT-109R**: Up to 32 scrambling codes are available. 40-Pin type.  
**UT-110R**: Up to 1020 scrambling codes are available. 40-Pin type.  
**UT-119H**: Digital unit. Provides 6.25kHz digital capability.

### EARPHONE



▲ AD-52 ▲ SP-13  
**SP-13**: EARPHONE.  
**AD-52**: EARPHONE ADAPTER  
Provides clear audio even in noisy environments.

### STUBBY ANTENNAS



▲ FA-SC56VS : 150–162MHz  
▲ FA-SC57VS : 160–174MHz  
▲ FA-SC73US : 450–490MHz  
**ANTENNAS**  
▲ FA-SC25V : 136–150MHz  
▲ FA-SC55V : 150–174MHz  
▲ FA-SC25U : 400–430MHz  
▲ FA-SC57U : 430–470MHz  
▲ FA-SC72U : 470–520MHz

## 6.25kHz digital mode ready

# DIGITAL

A first in the LMR industry. With the optional UT-119H, the IC-F3061 series provides 6.25kHz digital narrow mode communication that meets the FCC 6.25kHz emission mask requirements for narrow banding, and increases efficiency of channel allocation and use of spectrum. The IC-F3061 series provides 2 optional slots: one optional slot for the UT-119H digital unit and one for another option board.



## SPECIFICATIONS

GENERAL	
• Frequency range	: IC-F3061T/S 136–174MHz IC-F4061T/S 400–470MHz 450–520MHz
• Number of channels	: 512 channels/128 zones
• Channel spacing	: 12.5kHz/25kHz, 15kHz/30kHz, 6.25kHz (option)
• PLL channel step	: 2.5kHz, 3.125kHz
• Antenna impedance	: 50Ω
• Usable temperature range	: –30°C to +60°C; –22°F to +140°F
• Power supply requirement	: 7.2V DC
• Current drain (at 7.2V DC; approx.):	
Transmit VHF/UHF	1.5A/1.8A (at 5W/5W)
Receive stand-by	95mA
rated output	600mA
• Dimensions (with BP-232)	: 53 (W) × 136 (H) × 38.5 (D) mm; (projections are not included) 2 <sup>3</sup> / <sub>32</sub> (W) × 5 <sup>11</sup> / <sub>32</sub> (H) × 1 <sup>17</sup> / <sub>32</sub> (D) in
• Weight (approx.)	: 340g; 12.0oz (with BP-232)

RECEIVER	
• Intermediate frequency	: 1st 46.35MHz 2nd 450kHz
• Sensitivity	: 0.25μV typ. (at 12dB SINAD)
• Squelch sensitivity	: 0.25μV typ. (at threshold)
• Adjacent channel selectivity	: 75dB typ. (Wide) 68dB typ. (Narrow)
• Spurious response	: 70dB min.
• Intermodulation	: 74dB typ.
• Hum and noise ratio	: 46dB typ. (Wide) 40dB typ. (Narrow)
• Audio output power	: 500mW typ. (at 5% distortion with an 8Ω load)
• External speaker connector	: 9-pin multi connector/ 8Ω

Measurements made in accordance with EIA-152C/204D, TIA-603. All stated specifications are subject to change without notice or obligation.

## TRANSMITTER

• Output power	: 5W (VHF), 5W (UHF)
• Max. frequency deviation	: ±5kHz (Wide) ±2.5kHz (Narrow)
• Frequency error	: ±1.0ppm
• Spurious emissions	: 75dB typ.
• Adjacent channel power	: 80dB typ. (Wide), 70dB typ. (Narrow)
• FM Hum and Noise	: 46dB typ. (Wide) 40dB typ. (Narrow)
• Audio harmonic distortion	: 3% typ. (AF 1kHz, 40% deviation)
• Modulation limiting	: 60–100% of max. deviation
• External microphone connector	: 9-pin multi connector/ 2.2kΩ

## SUPPLIED ACCESSORIES (May differ according to version)



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