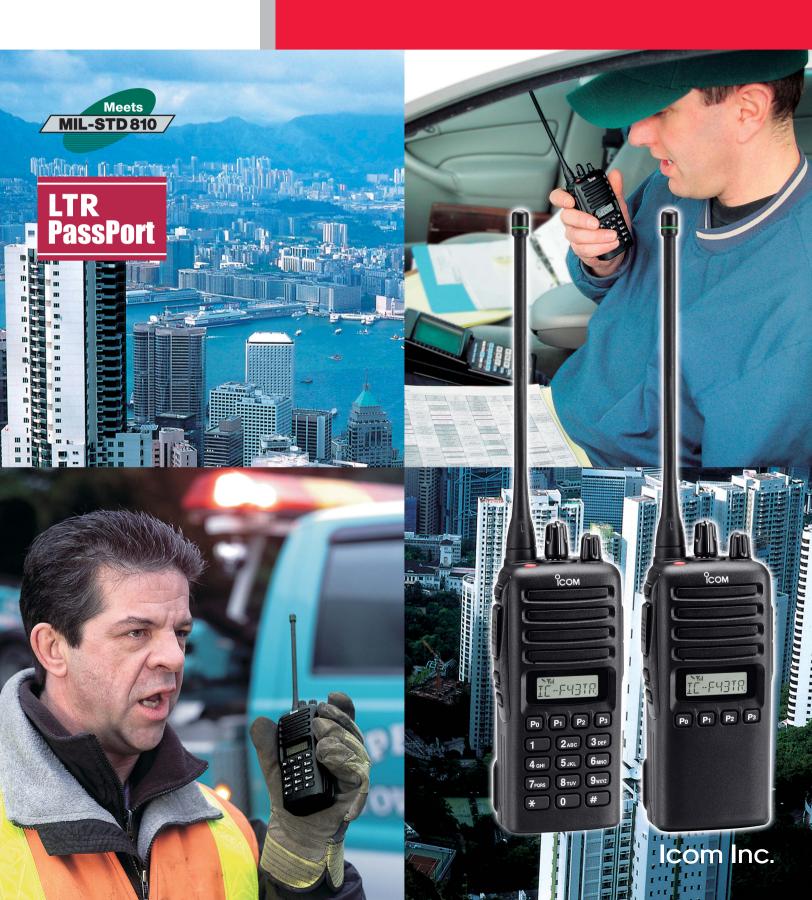


# IC-F43TR



# The New Leader in Commercial G



Take advantage of Icom's integrated design that offers a value alternative for trunking systems. The IC-F621TR and IC-FR4000\* are designed companions to the IC-F43TR. (\* External trunking controller is required for LTR and PassPort trunking.)

### **Multiple modes**

Conventional, basic LTR and PassPort features are built-in. Operating modes are selectable from rotary selector or up/down buttons. Flash memory enables future system upgrades.

#### LTR features

The IC-F43TR offers maximum flexibility to program up to 50 systems or up to 250 groups per system.

#### **PassPort features**

Individual Selective Call (MIN call) allows private call between individual members within a fleet. Primary Talk Group (All call) allows individual users to call all groups in the fleet. The calling party's names are shown in the display, while in group conversation. The built-in receive signal strength indicator (RSSI) enables seamless roaming under the PassPort protocol. Site Lock function locks the radio onto the current site to avoid roaming.

#### **Conventional features**

Up to 250 channels either 12.5kHz or 25kHz channel spacing, CTCSS, DTCS and alphanumeric names are programmable.

#### PTT over tone

PTT over tone sends a beep sound when you release the PTT, instead of saying "Over".

#### Wideband coverage

Two bandwidth versions (400-470MHz, 450 -512MHz) all have switchable 12.5/25kHz width by channel, and 5/6.25kHz frequency pitch making all the new UHF channels available for trunking.

## rade Subscriber Units

#### Lithium-Ion battery pack

The battery is a lightweight yet high capacity 2000mAh Li-Ion unit. There's virtually no memory charging issues with Li-lon technology. Your subscribers will love the compact size and charging flexibility! In addition, economy type battery packs, BP-230 and BP-231 are optionally available.

#### MIL grade durability

This commercial-grade portable offers MIL STD construction, including easy to grab control knobs and a large easy to see display. A rugged dual-rail quide securely locks the battery to the back of the radio it's nearly impossible to knock loose.



#### Alphanumeric display

The backlit 8-character LCD display has 11 icons that indicate system status and operational selections, including battery condition. The improved alphanumeric 14 segment display indicates system/group identification in both upper and lower case.

#### Voice scrambler function

A built-in inversion type voice scrambler provides secure communication in all operating modes. With an optional voice scrambler unit, UT-109, more secure non-rolling type encryption is possible.

#### Man down function\*

Automatically sending an emergency signal when the transceiver is left in the horizontal position for a pre-set time. This function also works in all operating modes.

\* Optional man down unit, UT-113 is required.

#### Advanced PC programming

You may assign operating modes, default talk group for home button, power-ON home or previous group, network roaming, 5/3MHz offset by channel, LTR polarity by system, home channel and area bit by system, Tx and Rx ID, and UID for PassPort.



#### Multiple scan mode

Conventional, system and group scan enable continuous contact under multi system operation without any action by the enduser. Both priority and non-priority scan modes are available in conventional use.

#### Other features

- · Simple 4-keypad version available
- Programmable buttons
- · Powerful 4W output
- Built-in audio compander
- · Time-out timer functions available
- · PC programming capabilities
- · Optional DTMF decoder unit, UT-108 for DTMF selective call
- · Expanded Black list capability, Site lock, forced roaming and stun/kill, and more...



Battery packs	Type and capacity	Duration*	Power	
BP-230	Li-lon 7.4V/ 800mAh	4 hours	4W	
BP-231	Li-lon 7.4V/1150mAh	6 hours	4W	
BP-232	Li-Ion 7.4V/2000mAh	11 hours	4W	
BP-240	AAA (LR03) batteries × 6	-	1W	

\* Operating time is approximate time (at 20°C), Tx: Rx: standby=5:5:90



BC-160 DESKTOP CHARGER + BC-145A/E/V AC ADAPTER Rapidly charges the battery pack Charges the BP-232 in 3 hours (approx.)



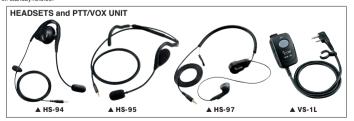
**BC-119N** DESKTOP CHARGER + AD-106 CHARGER ADAPTER + BC-145A/E/V AC ADAPTER Rapidly charges the battery pack



BC-121N MULTI-CHARGER + AD-106 CHARGER ADAPTER + BC-124 AC ADAPTER Rapidly charges up to 6 battery packs (Six AD-106s are required). OPC-656 DC POWER CABLE: For use with the BC-121N, (12-20V DC required).



HM-131L: Durable body. Equipped with an earnhone jack and revolving clin



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-1L: PTT/VOX unit. Required when using these headsets with the transceiver



SP-13: Provides clear audio in noisy environments



CP-17L: CIGARETTE LIGHTER CABLE OPC-515L : DC POWER CABLE For use with the BC-119N. (12–16V DC



MB-93: Swivel type. Prevents accidental dropping from your belt.

MB-94 : Alligator type. Same as supplied.



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



UT-108: Provides DTMF Selective call and ANI capabilities. UT-109 (Version 02): Up to 32 scrambling codes are available. UT-110 (Version 02): Rolling type voice scrambler. Available in

conventional mode only UT-113: Provides a man down function



FA-SC73US: 60 mm stubby antenna. Frequency range: 450–490MHz

#### ANTENNAS

- FA-SC25U: 400–430MHz FA-SC57U: 430–470MHz FA-SC72U: 470–520MHz

### C-F43TI

#### **SPECIFICATIONS**

GENERAL

: 400-470MHz, · Frequency range

450-512MHz

· Channel spacing : 12.5kHz

25kHz

 PLL channel step : 5kHz, 6.25kHz

: 50Ω Antenna impedance

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.):

Receive

Transmit at 4W 1.7A

at 1W 0.8A stand-by 85mA

rated output 300mA

• Dimensions (With BP-232): 53 (W) ×120 (H) ×36.5 (D) mm; (projections are not included)  $2^{3}/32$  (W)  $\times 4^{23}/32$  (H) $\times 1^{7}/16$  (D) in

 Weight (with BP-232) : 320g; 11.3oz

**TRANSMITTER** 

 Output power : 4W. 1W

• Max. frequency deviation: ±5kHz (Wide)

±2.5kHz (Narrow)

· Frequency error : ±2.0ppm Spurious emissions : 70dB typical · Adjacent channel power : 70dB (Wide)

60dB (Narrow)

 Audio harmonic distortion : 3% typ. (AF 1kHz, 40% Deviation) Modulation limiting : 60-100% of max. deviation

· External microphone connector :

3-conductor 2.5 (d) mm  $(1/10'')/2.2 \text{ k}\Omega$ 

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

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RECEIVER

· Intermediate frequency 46.35MHz : 1st

2nd 450kHz

 Sensitivity : 0.25µV typ. (at 12dB SINAD)

· Squelch sensitivity :  $0.25\mu V$  typ. (at threshold)

Adjacent channel selectivity: 75dB typ. (Wide)

65dB typ. (Narrow)

 Spurious response : 70dB Intermodulation : 74dB typ.

· Hum and noise ratio : 45dB typ. (Wide)

40dB typ. (Narrow)

 Audio output power : 500mW typ.

(at 5% distortion with an  $8\Omega$  load)

• External speaker connector: 2-conductor 3.5 (d) mm (1/8")/8Ω

#### Applicable U.S. Military Specifications

Icom makes rugged products that meet MIL-STD requirements and strict environmental standards as follows.

Standard	MIL 810C		MIL 810D		MIL 810E		MIL 810F	
	Method	Proc.	Method	Proc.	Method	Proc.	Method	Proc.
Low Pressure	500.1	I	500.2	I, II	500.3	I, II	500.4	I, II
High Temp.	501.1	I	501.2	I, II	501.3	I, II	501.4	I, II
Low Temp.	502.1	I	502.2	I, II	502.3	I, II	502.4-3	I, II
Temp. Shock	503.1	I	503.2	I	503.3	I	503.4	I
Solar Radiation	505.1	I	505.2	I	505.3	I	505.4	I
Rain	506.1	II	506.2	II	506.3	II	506.4	III
Humidity	507.1	I, II	507.2	II, III	507.3	II, III	507.4	-
Salt Fog	509.1	I	509.2	I	509.3	I	509.4	-
Dust	510.1	I	510.2	I	510.3	I	510.4	I
Vibration	514.2	VIII, X	514.3	I	514.4	I	514.5	I
Shock	516.2	I, II, V	516.3	I, IV	516.4	I, IV	516.5	I, IV



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