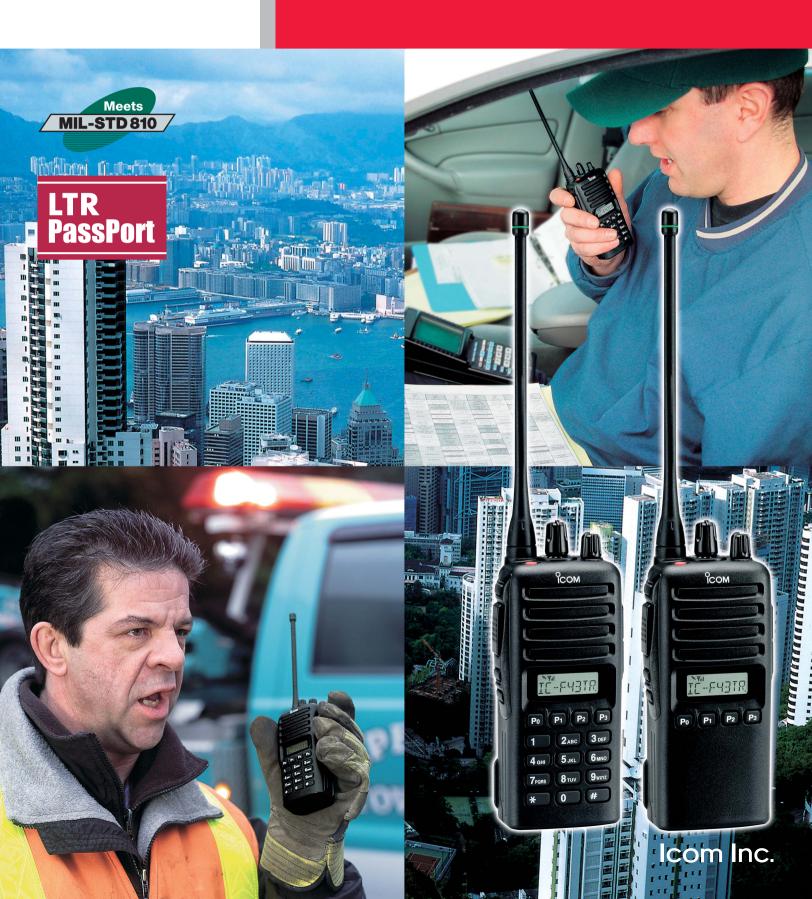
O ICOM

UHF TRUNKED RADIO

IC-F43TR



The New Leader in Commercial G

The IC-F43TR is the perfect subscriber for PMR and SMR systems. This light weight radio is a heavy weight when it comes to features, allowing you to take full advantage of the options your PMR or SMR system.

PMR systems are often heavily protected against power and other system failures, allowing emergency communications to get through where national carriers fail. PMR systems offer maximum cost effectiveness — pay for the IC-F43TR once, and escape monthly charges. And PMR systems are extremely flexible, allowing you to configure the system according to your needs, not the needs of a distant national carrier.

SMR systems can provide reliable and flexible communications, all at a low monthly cost. Where the cell phone hybrids of many national carriers discourage fleet dispatch (one to many) with their pricing structures, SMR systems are built to optimize fleet dispatch. Often over large areas. And, by design, SMR systems are less likely to be abused by employees. SMR systems offer such advanced capabilities as selective call, caller ID and AVL.

No matter if you choose the PMR or SMR route, the IC-F43TR is the radio to take you there.

UHF TRUNKED RADIO



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-lon battery pack

The battery is a lightweight yet high capacity 2000mAh Li-Ion unit. There's virtually no memory charging issues with Li-Ion 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 guide 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.

RAPID CHARGER



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 ...



BP-230 Li-Ion 7.4V/ 800mAh 4 hours BP-231 Li-Ion 7.4V/1150mAh 6 hours BP-232 Li-lon 7.4V/2000mAh 11 hours Operating time is approximate time (at 20°C)

Tx: Rx: standby=5:5:90



HM-131L: Durable body. Equipped with an earphone jack and revolving clip



MB-93 : Swivel type. Prevents accidental dropping from your belt. MB-94 : Alligator type. Same as supplied.

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

▲ HS-94

I FATHER BELT HANGER

INTERNAL UNITS UT-108 UT-109 VOICE DTMF DECODER

▲ HS-97



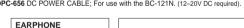
VS-1L

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



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).





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



SP-13

SP-13: Provides clear audio

in noisy environments.

ANTENNAS • FA-SC25U: 400–430MHz • FA-SC57U: 440–470MHz • FA-SC72U: 470–520MHz

stubby antenna. Frequency range: 450–490MHz

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



HEADSETS and PTT/VOX UNIT

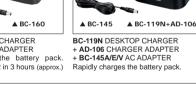
+ BC-145A/E/V AC ADAPTER Rapidly charges the battery pack Charges the BP-232 in 3 hours (approx.)

▲ HS-95

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

HS-94: Earhook headset with flexible boom microphone.

HS-95: Behind-the-head headset with flexible boom microphone



UHF TRUNKED RADIO

SPECIFICATIONS

		GENERAL			
Frequency range		: 400–470MHz, 450–512MHz			
Channel spa	acing	: 12.5kHz 25kHz			
• PLL channe	l step	: 5kHz, 6.25kHz			
 Antenna imp 	bedance	: 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	at 4W	1.7A			
	at 1W	0.8A			
Receive	stand-by	85mA			
	rated output	300mA			
Dimonoiono	(Mith DD 222)	· 52 (W) ×120 (H) ×26 5 (D) mm:			

- Dimensions (With BP-232) : 53 (W) ×120 (H) ×36.5 (D) mm; (projections are not included) 2^{3} /₃₂ (W) × 4^{23} /₃₂ (H)× 1^{7} /₁₆ (D) in
- Weight (with BP-232) : 320g; 11.3oz

TRANSMITTER

 Output power 	: 4W, 1W
Max. frequency deviation	n : ±5kHz (Wide) ±2.5kHz (Narrow)
 Frequency error 	: ±2.5ppm
 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 con 	inector :
	2 conductor 2 5 (d) mm $(1/40'')/2$ 2

3-conductor 2.5 (d) mm (1/10")/2.2 kΩ

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

All trademarks are the properties of their respective holders.

IC-F43TR

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

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.
Vibration	514.2	Х	514.3	Ι	514.4	Ι	514.5	Ι
Shock	516.2	I, II, IV	516.3	I, IV	516.4	I, IV	516.5	I, IV



Icom Inc. 1-1-32, Kamiminami, Hirano-ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013 URL: http://www.icom.co.jp/world/index.html

Icom America Inc. 2380 116th Avenue N.E., Bellevue, WA 98004, U.S.A. Phone :+1 (425) 454-8155 Fax :+1 (425) 454-1509 E-mail :sales@icomamerica.com URL :http://www.icomamerica.com Customer Service> Phone :+1 (425) 454-7619

Icom Canada Glenwood Centre #150-6165 Highway 17, Delta, B.C., V4K 5B8, Canada Phone :+1 (604) 952-4266 Fax :+1 (604) 952-4266 Fax :+1 (604) 952-0090 E-mail : info@icomcanada.com URL :http://www.icomcanada.com

Icom (Australia) Pty. Ltd. A.B.N. 88 006 092 575 290-294 Albert Street, Brunswick, Victoria, 3056, Australia Phone :+61 (03) 9387 0666 Fax :+61 (03) 9387 0622 E-mail : sales@icom.net.au URL :http://www.icom.net.au Icom New Zealand 146A Harris Road, East Tamaki, Auckland, New Zealand Phone :+ 64 (09) 274 4708 E-mail : inquiries@icom.co.nz URL : http://www.icom.co.nz

 Icom (Europe) GmbH

 Communication Equipment

 Himmelgeister Str. 100,

 D-40225 Düsseldorf, Germany

 Phone: +49 (0211) 346047

 Fax: +49 (0211) 33639

 E-mail: info@icomeurope.com

 URL: http://www.icomeurope.com

 Icom Spain S.L.

 Crta. de Gracia a Manresa Km. 14,750

 08190 Sant Cugat del Valles Barcelona, Spain

 Phone : +34 (93) 590 26 70

 Fax : +34 (93) 589 04 46

 E-mail : icom @icomspain.com

 URL : http://www.icomspain.com

Icom (UK) Ltd. Unit 9, Sea St., Herne Bay, Kent, CT6 8LD, U.K. Phone: +44 (01227) 741741 Fax : +44 (01227) 741742 E-mail: inf0@icomuk.co.uk URL : http://www.icomuk.co.uk

 Icom France S.a

 Zac de la Plaine, 1,

 Rue Brindejonc des Moulinais BP 5804,

 31505 Toulouse Cedex, France

 Phone: +33 (5) 61 36 03 03

 Fax: +33 (5) 61 36 03 00

 E-mail: icom@icom/france.com

 URL: http://www.icom/france.com

 Icom Polska

 Sopot, 3 maja 54, Poland

 Phone :+48 (58) 550 7135

 Fax : +48 (58) 551 0484

 E-mail : icompolska@compolska.com.pl

 URL : http://www.icompolska.com.pl

Asia Icom Inc. 6F No. 88, Sec. 1 Cheng-Teh Road, Taipei, Taiwan, R.O.C. Phone: +886 (02) 2559 1899 Fax : +886 (02) 2559 1874 E-mail : salese @asiai-com.com URL : http://www.asia-icom.com

 Beijing Icom Ltd.

 1305, Wanshang Plaza, Shijingshan Road,
 Beijing, China

 Phone : +86 (010) 6866 6337
 Fax : +86 (010) 6866 3553

 E-mail : bjicom @bjicom.com
 URL : http://www.bjicom.com



Your local distributor/dealer:

om Inc. (Japan), is an ISO 9001 and ISO 14001 certification acquired company.