VHF AND UHF TRANSCEIVERS

SPECIFICATIONS

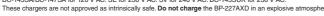
	IC-F51 ATEX	IC-F61 ATEX IC-F61-L ATEX					
GENERAL							
Frequency coverage	136–174 MHz	400–470 MHz 350–400 MHz (Non-RTTE)					
Number of channels	Max. 128 channels/ 8 zones						
Type of emission	16K0F3E, 14K0F3E, 8K50F3E						
Channel spacing	12.5/20/25 kHz	12.5/20/25 kHz 12.5/25 kHz (IC-F61-L)					
PLL channel step	2.5/3.125 kHz	5/6.25 kHz					
Power supply requirement	7.2 V D	C nominal					
Current drain (approx.) Tx High (at 1 W) Rx Max. audio Standby	0.7 A 300 mA 85 mA	0.8 A 300 mA 85 mA					
Antenna impedance	50 Ω (SMA type)						
Operating temperature range	-20°C to +55°C						
Dimensions (W × H × D) (Projections not included)	56 × 97 × 36.4 mm (With BP-227AXD)						
Weight (approx.)	290 g (With BP-227AXD)						
TRANSMITTER							
Output power (at 7.2 V DC)	1 W						
Max. frequency deviation	±5.0 kHz/±4.0 kHz/±2.5 kHz (W/M/N)						
Frequency stability	±2.5 ppm						
Spurious emissions	0.25 μW (≤ 1 GHz) 1.0 μW (> 1 GHz)						
Modulation limiting	60–100% of Max. deviation						
Audio harmonic distortion	3% typ. (AF 1 kHz 40% deviation)						
Ext. microphone connector	9-pin multi connector/2.2 kΩ						
RECEIVER							
Sensitivity (at 20 dB SINAD)	-4 dBµV typ. (emf)						
Adjacent channel selectivity	75/73/65 dB min. (W/M/N)						
Spurious response	70 dB						
Intermodulation rejection	67 dB typ.						
Hum and noise	55/53/50 dB typ. (W/M/N)						
Audio output power	500 mW typ. (at 5% distortion with 8 Ω load)						
Ext. speaker connector	connector/8 Ω						
Measurements made in accordance with EN 300-086.							

IC-F51 ATEX • IC-F61 ATEX

BC-119N+AD-100

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







Supplied accessories: (May differ according to version) Battery pack, BP-227AXD
Belt clip, MB-98 Antenna

Applicable U.S. Military Specifications & IP Rating

All stated specifications are subject to change without notice or obligation

MIL	810 F	
Method	Procedure	
500.4	I, II	
501.4	I, II	
502.4	I, II	
503.4	I	
505.4	I	
506.4	I, III	
507.4	-	
509.4	-	
510.4	Ι	
514.5	I	
516.5	I, IV	
	Method 500.4 501.4 502.4 503.4 505.4 506.4 507.4 509.4 510.4 511.4	

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

IP67 (Dust-protection and waterproof protection

ATEX INTRINSICALLY SAFE TYPE APPROVAL

The approved rating is Gas: II2G Ex ib IIA T3 Gb

Dust: II2D Ex tb IIIC T160°C Db IP67 $(Tamb = -20^{\circ}C to +55^{\circ}C)$ Special conditions for use: Must be used with BP-227AXD When the transceiver is used in hazardous areas, either the jack cover or HM-138 must be attached to the connector.

* Note for IC-F51/F61 ATEX Non-Dust (II2G) version users, please use only the BP-227AX battery pack with the IC-F51/F61 ATEX Non-Dust version.

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ICOM

for Hazardous Locations

icom Inc CIE 04 ATEX 618







IC-F51 ATEX IC-F61 ATEX

VHF AND UHF TRANSCEIVERS

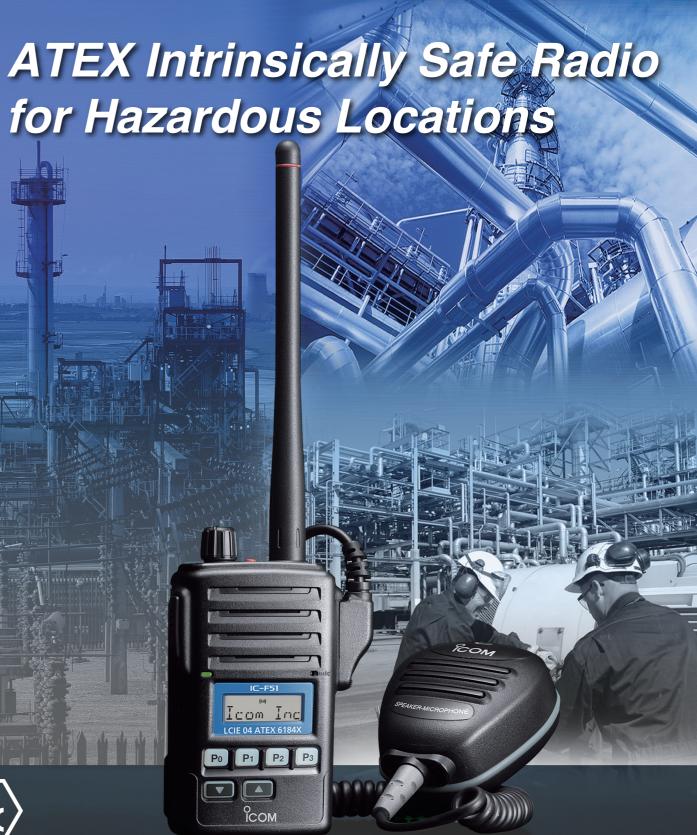


Photo includes optional speaker-microphone, HM-138.



Superior Waterproof Protection Supports Demanding Communication

Firefighters, Police, Security and Public utilities. Each profession has its own unique challenges, but all have one thing in common: the need for reliable communications. Icom's IC-F51/F61 offers a compact waterproof, MIL STD package, that's easy to use. Rain or shine, this radio keeps you in contact in nearly any environment.

Dust and Waterproof Protection Equivalent to IP67

The gasket sealed waterproof housing provides superior dust and waterproof*

protection, equivalent to IP67. Reliable and dependable use in harsh conditions under water or dust, make the IC-F51 / IC-F61 the radio for all situations. * 1 m depth of water for 30 minutes.



Built-in Tone Signaling

Use the built-in CTCSS, DTCS, 2-Tone and 5-Tone capability to set up your own talk groups and quiet stand-by when other groups are talking. You can also set up selective calls to individuals or control a repeater.

Multiple 5-Tone

Up to 8 5-Tone codes can be decoded on a single memory channel. This is perfect for professionals who require multiple district paging on one channel. When a matched tone is received, the following items are programmable for each code. Bell icon Answer back
Stun

Beep sound
Auto transmit
Scan

ID decode
Emergency cancel

VHF AND UHF TRANSCEIVERS



IC-F61 ATEX **UHF** Transceiver

Up to 7 Programmable Buttons

The [P0]-[P3], [Red] and [Up], [Down] buttons are programmable to meet specific needs. The [Red] button on the top panel can be assigned as an emergency trigger.

Alphanumeric Display

The 8-character alphanumeric display shows channel, bank, tone code and scanning channel names on the display. 7 operational icons on the sub-line show various status at a glance.



Built-in Voice Scrambler

The IC-F51/F61 has a built-in rolling type voice scrambler equivalent to the UT-110.

ATEX Intrinsically Safe

The IC-F51/F61 ATEX version and designated options are certified to the ATEX Protection Class II 2G Ex ib IIA T3 Gb, II 2D Ex tb IIIC T160°C Db IP67 (Tamb= -20°C to +55°C) as interpreted in the following table. It is suitable for use in hazardous areas where flammable gasses, liquids or conductive dusts are used.

ATEX Gas Protection

Ш	2	G	Ex	ib	IIA	Т3	Gb	Gb = GAS equipment protection level: High protection
								T3 = Device surface temperature will not exceed 200°C
								IIA = Protection in GAS group
								ib = Intrinsically safety according to EN60079-0 and EN600
								Ex = Explosion proof equipment
								G = Gas, vapour and mist
								2 = High level protection for use in zone 1 (gas)
								II = Group II, other (non-mining) environments

ATEX Dust Protection

2	D	Ex	tb	IIIC	T160°C	Db	IP67	IP67 = IP67 dust and waterproof protection
								Db = Dust equipment protection level: High protection
								T160°C = Maximum temperature of device surface
								IIIC = Dust group: Conductive dust
								tb = Enclosure protection according to EN60079-0 and EN6
								Ex = Explosion proof equipment
								D = Dust
								2 = High level protection for use in zone 21 (dust)
								II = Group II, other (non-mining) environments

* Please ensure the IC-F51/F61 rating is acceptable for the intended place of use.

Wide Range Coverage and Large Channel Capacity

The IC-F51 covers 136-174 MHz and the IC-F61 covers 400-470 MHz in one version. The 128 memory channels with 8 memory banks allows you to divide and store a variety of channels from local to wide area network channels. Wide, middle and narrow* channel bandwidth is programmable to each channel. (* Programmable 25/12.5 kHz or 20/12.5 kHz Ch.)

Li-ion Battery Pack

The large capacity 1950 mAh (typ.) rechargeable Lithium-ion (Li-ion) battery pack, BP-227AXD provides a practical 10 hours* of operating time. Li-ion batteries allow flexible charging and have almost no memory effect.





* Typical operation Tx:Rx:Stand-by=5:5:90

Compact Body

56 (W) \times 97 (H) \times 36.4 (D) mm compact body with durable, dependable construction, has been tested to MIL standard specifications. The compact design fits comfortably in your palm, and is easy to carry around.

BIIS 1200 Compatible

The following selective calling and data features are available with the BIIS system.

- 32 abbreviated call memories
- 7 group IDs 24-status Messages
- 8-character SDM (Short Data Message)

Other Features

 Built-in audio compander • 8 DTMF autodial memories . Normal and priority scans • 2 step power saver • Busy, repeater lockout functions • Power ON password, and more...

T3: 200°C

Benzine

Diesel fue

Aircraft fuel

Heating oil n-hexane

	ATEX	Gas Group Cla	ssification
		T1: 450°C	T2: 300°C
	I	Methane	
	IIA	Acetone	Ethyl alcohol
		Ethane	I-amyl acetate
79-11		Ethyl acetate	n-butane
		Ammonia	n-butyl alcohol
		Benzene (pure)	
		Acetic acid	
		Carbon Monoxide	
		Methanol	
		Propane	
		Toluene	

ATEV One Owner Olensities