O ICOM

Radio

Po

Icom Inc

ICOM

P1

P2

P3

VHF TRANSCEIVER

IC-F51V

Pager

128ch/ 8zones

Rugged MIL-STD 810

> 2-Tone, 5-Tone BlIS-1200 compatible

5W RF 700mW AF

IP67 Dust-tight and Waterproof

8-character LCD display

Voice recorder

Vibration alert



o voice storage

Never miss in with loud audio, vibration

Vibration alert function

When a pre-programmed 2-tone/5-tone code or call from a specific group user (BIIS mode) or a status message (BIIS mode) is received, the radio vibrates powerfully enough to be felt through heavy clothing.

8 minute voice recorder

When a pre-programmed 2-tone/5-tone code or a call from a specific group user (BIIS mode) is received, the voice recorder automatically starts recording the incoming message. You will not miss an important call even when you are temporarily away from the radio. You can manually start recording incoming calls and also your own message. It records up to a maximum

of 8 minutes (Or up to 48 calls of 10 sec. recording time).



" \bigstar " icon on the display shows you have a new message.

700mW audio output

The IC-F51V delivers a loud 700mW* audio output with the built-in BTL amp. The built-in audio compander provides clear, low noise communications. Improved bass characteristics also betters the audio quality. * Typical with internal speaker.

Lone worker function for remote check in

When the radio is not operated for a preset period (1 to 255 min.), the radio sounds a beep and requires you to push the emergency button. If the emergency button is not pushed for a preset time (1 to 255 sec.), an emergency signal automatically transmits and informs your co-worker or dispatcher that something may have happened to the individual worker.

IP67, dust-tight and waterproof protection

The IC-F51V has outstanding protection against dust and water that is equivalent to IP67. The IC-F51V can withstand submersion in 1m depth of water for up to 30 minutes and has dust-tight construction that prevents the ingress of dust.



Most popular signalings built-in

Use the built-in CTCSS, DTCS, 2-Tone, 5-Tone and BIIS signaling capabilities to set up your talk group or selective calling. The IC-F51V 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.

- Bell icon
- Answer back call
 Beep sound
- Auto transmit Radio Stun/Kill/Revive
- Voice recorder
 Vibration alert

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VIBRATIONALERT

VHF TRANSCEIVER IC-F51V

portant calls alert and voice recorder!

BIIS 1200 Compatible

The following selective calling and ANI features are available with the built-in BIIS signaling.

- The following selective calling and data communication features are available with the BIIS system.
- RS-232C interface 32 abbreviated call memories
- 24-status Messages Radio stun • 7 group IDs
- 8-character SDM (Short Data Message)
- · Position data transmission with optional HM-170GP

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 operating channel setting. It is convenient when you move to a different operating area and change an operating channel, you don't have to change the scanning setting.

Enhanced scanning

The Tx channel while scanning can be programmed per scanning list. The talk back function allows you to transmit on the channel detected after scanning resumes after a preset time, prior to the Tx channel setting. The nuisance delete function temporarily deletes a busy channel from the scanning list. Backlight at stop scan automatically turns on the LCD backlight when the scan stops.

Compact body

56(W)×97(H)×36.4(D) mm compact body with durable, dependable construction, has been tested to MIL standard specifications.

Li-lon battery pack

The large capacity 1700mAh Lithium-Ion (Li-Ion) battery pack, BP-227 provides a practical 9-10 hours* of operating time.

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

Other features

- 128 memory channels with 8 zones
- Inversion type*1 voice scrambler built-in
- Optional VOX headsets available
- Optional GPS speaker-microphone
- Power ON password
- 8 DTMF autodial Normal and priority scans
- 2-step power saver and 2-step low battery beep
- MDC 1200 mode programmable
- BTL only version (no vibration alert and no voice recorder) and BTL/Vibration alert version (no voice recorder) available*2 and more...

*1 Inversion type voice scrambler is not compatible with UT-109/UT-110 voice scrambler. UT-109/UT-110 cannot be physically installed into the IC-F51V.

*2 Not available in some countries.

OPTIONS

BATTERY PACK & CASE



BP-226 · AA (I B6)×5 BATTERY CASE

BP-226 is water-resistant, equivalent to IPX4 BP-227 : 7.2V/1700mAh Li-Ion BATTERY PACK Provides 9-10 hours operating time* (approx.). Operating temp. range: -20°C to +60°C; -4°F to +140°F * Tx: Rx: standby=5:5:90.

BAPID CHARGER





BC-121N+AD-100 (6 pcs.)

BC-121N MULTI-CHARGER + AD-100 CHARGER ADAPTER + BC-157 AC ADAPTER Rapidly charges up to 6 battery packs (Six AD-100s are re-



HS-94 : Earhook headset with flexible boom microphone

- HS-95 Behind-the-head headset with flexible boom microphone.
- Throat microphone fits around your neck and picks up speech vibration. HS-97
- VS-1SC : VOX/PTT CASE. Required when using these headsets with the transceiver. These headsets and VS-1SC are water-resistant, equivalent to IPX4



- HM-138 : Full sized speaker-microphone. Equivalent to IPX7. HM-168
- Compact type speaker-microphone. Equivalent to IPX7. HM-169 Rugged type speaker-microphone. Equivalent to IP57
- HM-170GP: GPS speaker-microphone for BIIS mode. Equivalent to IP57.



MB-86 : Swivel type. Prevents accidental dropping from your belt.

MB-98 Alligator type. Same as supplied. MB-96F : Fixed type belt hanger for use with MB-98. MB-96N : Swivel type belt hanger.

POWER SUPPLY CABLES



CP-17L : 12V cigarette lighter cable for BC-

119N or BC-152. OPC-515L: DC power cable for BC-119N or BC-152. OPC-656 : DC power cable for BC-121N

ANTENNAS FA-S24V FA-S59V FA-S63VS FA-S62VS FA-S24V : 136-150MHz (Blue ring)

- FA-S59V : 150–174MHz (Red ring)
- FA-S62VS: 150-162MHz (90mm stubby type, red) FA-S63VS: 160–174MHz (90mm stubby type. green)
- INTERFACE CABLES

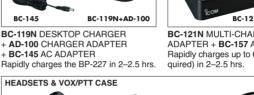


tion with a PC. OPC-966U : USB interface cable for connection

with a PC.







BC-152 DESKTOP CHARGER + BC-147 AC ADAPTER



Regularly charges the BP-227 in 9-10 hours.

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

VHF TRANSCEIVER

SPECIFICATIONS

Output power

Modulation system

Frequency error

• Spurious emissions

Modulation limiting

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

		GENERAL			
 Frequency range 		: 136–174MHz			
 Number of Channels 		: Max. 128 channels/ 8 zones			
 Channel spacing 		: 12.5/20/25kHz			
PLL channel step		: 2.5/3.125kHz			
 Antenna impedance 		: 50 Ω (SMA Type)			
 Power supply requirement : 7.2V DC 					
Current drain (approx.)					
Transmit	at 5W	1.8A			
	at 1W	0.7A			
Receive	AF max.	500mA (Internal speaker)			
		350mA (External speaker)			
	Stand-by	7 85mA			
 Operating temperature range : -25°C to +55°C 					
 Dimensions (W×H×D) (projections not included) 		: $56 \times 97 \times 36.4$ mm			
 Weight (approx.) 		: 280g (With BP-227)			

TRANSMITTER

modulation

: ±2.5ppm

• Audio harmonic distortion : 3% typ. (AF 1kHz, 40% deviation)

• Adjacent channel power : 70dB Min. (wide, middle)

External MIC impedance : 9-pin multi connector/2.2kΩ

±4kHz (middle) ±2.5kHz (narrow)

: 0.25µW (≤ 1GHz)

1.0µW (> 1GHz)

60dB Min. (narrow)

: Variable reactance frequency

: 60-100% of Max. deviation

: 5.0W

IC-	F5	51V

	RECEIVER
 Sensitivity 	: $-4dB\mu V$ typ. (emf, at 20dB SINAD)
 Squelch sensitivity 	: $-4dB\mu V$ typ. (emf, at threshold)
 Adjacent channel selectivity 	y : 75dB typ. (wide, middle) 65dB typ. (narrow)
 Spurious response 	: 70dB
 Intermodulation 	: 67dB typ.
Hum and noise (With CCITT filter)	: 55dB typ. (wide) 53dB typ. (middle) 50dB typ. (narrow)
Audio output power	: 0.7W typ. (Internal speaker) 0.5W typ. (External speaker) at 5% distortion with an 8Ω load
 External SP connector 	: 9-pin multi connector/8 Ω

Applicable U.S. Military Specifications

Icom makes rugged products that have been tested to and passed the following MIL-STD requirements and strict environmental standards.

Standard	MIL 810F			
	Method	Procedure		
Low Pressure	500.4	I, II		
High Temperature	501.4	I, II		
Low Temperature	502.4-3	I, II		
Temperature Shock	503.4	I		
Solar Radiation	505.4	I		
Rain	506.4	I, III		
Humidity	507.4	-		
Salt Fog	509.4	-		
Dust Blowing	510.4	I		
Vibration	514.5	I		
Shock	516.5	I, IV		
Also meets equivalent MIL-STD-810-C, -D and -E.				
Ingress Protection Standard				
Dust & Water	IP67 (Dust-tight and waterproof protection)			

Supplied accessories:

• Antenna (Length may differ according to version)

• Alligator-type belt clip, MB-98

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

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