OPTIONAL ACCESSORIES

IC-F52D-UL ·IC-F62D-UL

■ BATTERY PACK

BP-292UL: Rechargeable Li-ion 7.2 V/1910 mAh (min.), 2010 mAh (typ.). IP67 protection

■ BATTERY CHARGERS

BC-226: Connectable type charger (connects up to six BC-226 units). Charges the BP-292UL in 2.7 hours.

+ BC-228: AC adapter. One AC adapter is required for up to six charger units. BC-227: Compact type desktop charger. Charges the BP-292UL in 2.7 hours.





CP-23L: Vehicle charger cable for use with the BC-227. OPC-515L: DC power cable for use with the BC-227.

■ SPEAKER-MICROPHONE

POWER SUPPLY CABLES

HM-184UL: Speaker-microphone. IP67 protection.



■ BELT CLIPS, BELT HANGERS AND CARRYING CASES

MBB-3: Alligator belt clip. Same as supplied.

MB-136: Swivel belt clip.

MB-96N: Swivel type leather belt hanger.

MB-96F: Fixed type leather belt hanger. For use with the MBB-3 MB-96FL: Long fixed type leather belt hanger. For use with the MBB-3.

LC-191: Hard type carrying case. Charging is possible while the case is





■ CABLE

OPC-1870: Zone copy cable. Handheld to handheld type.

■ SOFTWARE AND ACTIVATION KEYS

CS-OTPM1: OTAP manager software ISL-UGMTR: NXDN™ Type-D trunking upgrade key. ISL-AK25K: 25 kHz activation key.

■ ANTENNAS

FA-SC25V: 136-150 MHz FA-SC28V: 148-162 MHz FA-SC29V: 160-174 MHz FA-SC01U: 350-400 MHz FA-SC25U: 400-430 MHz FA-SC57U: 430-470 MHz

FA-SC72U: 470-520 MHz

■ HIGH GAIN ANTENNAS

FA-SC73US: 450-490 MHz

■ STUBBY ANTENNAS

FA-SC26VS: 136-144 MHz

FA-SC27VS: 142-150 MHz

FA-SC56VS: 150-162 MHz

FA-SC57VS: 160-174 MHz

FA-SC26US: 400-450 MHz

FA-SC62V: 150-160 MHz FA-SC63V: 155-165 MHz

■ CUT-TYPE ANTENNAS FA-SC61VC: 136-174 MHz FA-SC61UC: 380-520 MHz

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

DO NOT use the transceiver with any other equipment other than the above accessories. The battery charger, BC-226 or BC-227 must not be used in an explosive atmosphere

Read all instructions enclosed with the transceiver carefully and completely before using the transceiver.

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IC-F52D-UL IC-F62D-UL

VHF AND UHF DIGITAL TRANSCEIVERS

UL Approved Intrinsically Safe Digital Radio with 5 W Output Power and Compact Design



radio. A full 5 W of output power is available with this approval. Other safety features such as Man Down, Lone Worker and Emergency Call functions help your team remain connected in hazardous locations.

The IC-F52D-UL/F62D-UL is a UL approved intrinsically safe

I Small, light and feature packed

Multiple operating modes

- Analog FM
- NXDN™ conventional
- Upgradable to NXDN™ Type-D trunking

| Full dot-matrix display, rotary channel and volume knob for simple every-day operation

Built-in Bluetooth® capability, Voice Recording, Active Noise Cancelling functions

Motion/Stationary Detection, Man Down and Lone Worker functions

OTAP (Over-the-Air Programming) function easily reconfigures in-the-field radios

Intelligent battery management helps extend the battery life







1000 mW

General Features

- 136–174, 350–400, 400–470, 450–512, 450–520 MHz versions
- 512 channels / 128 zones
- 14 character dot-matrix display with status icons
- Improved user interface
- Programmable functions and menu items in a language other than English (For example French, Spanish, German, Russian and Turkish)
- · Backlit LCD and buttons
- Continuous rotary knob and ON/OFF volume knob
- 800 mW loud and intelligible internal speaker audio
- MIL-STD-810 G shock, vibration, temperature and more
- IP67/66/55/54 waterproof & dust-tight protection
- 34.1 mm (1.3 inch) slim dimensions (with BP-292UL battery pack)
- Battery information display
- License key upgrade (trunking)

Operating Mode

- NXDN™ conventional
- NXDN™ multi-site conventional over IP network
- NXDN™ Type-D single/multi-site trunking*
 * License key (ISL-UGMTR) required.
- 6.25 kHz/12.5 kHz* digital mode (* conventional only)
- Analog mode
- Analog/digital mixed operation

Digital Functions (Voice and Data)

- AMBE+2™ vocoder
- Over-the-Air Programming (OTAP) function*
 * Optional OTAP manager (CS-OTPM1) required.
- Over-the-Air Alias (OAA) sends own name with a call
- Over-the-Air Update (OTAU) changes the repeater channel data and site code over the air (NXDN™ Type-D trunking)
- Individual, group and all call
- · Late entry for group call
- Status call and polling
- Short data messages
- Call alert
- Transparent data mode

Analog Functions

- CTCSS and DTCS tone
- 2-Tone and 5-Tone
- MDC functions
- LTR™ trunking
- DTMF autodial

Security and Safety

- Digital voice scrambler (Low level encryption)
- Analog voice scrambler (Inversion)
- Power ON password
- Tactical group temporarily reconfigures user talkgroups
- Radio stun/revive/kill
- Remote monitor
- Emergency key for emergency call
- Man Down function
- Lone Worker function
- Motion/stationary detection

Scan Functions

- Priority scan
- Voting scan for site roaming

Voice/Audio Functions

- Voice announcement (Channel number and zone)
- Voice recording/playback (Up to 8 minutes)
- TX/RX active noise canceller
- TX/RX audio equalizer
- Audio compander (Analog mode)

Hardware Features

- Programmable vibration alert
- \bullet Wireless radio programming over Bluetooth $^{\!\scriptscriptstyle @}$

IC-F52D-UL IC-F62D-UL Frequency coverage 136-174 MHz 350-400, 400-470, 450-512, 450-520 MHz 512 channels /128 zones Number of channels Type of emission 16K0F3E*1, 11K0F3E, 8K50F3E, 8K30F1E/D, 4K00F1E/D (Depending on the version Power supply requiremen 7.5 V DC nominal Current drain (approx.) 500 mA /170 mA (Max. audio (internal SP)/Standby) 600 mA /170 mA (Max. audio (internal SP)/Standby) Antenna impedance 50Ω -30 °C to +60 °C; -22 °F to +140 °F (Radio specifications) Operating temperature range 56 × 92 × 34.1mm; 2.2 × 3.6 × 1.3 in (with BP-292UL) Dimensions (W x H x D; Projections not included 125 g: 4.4 oz (main unit) Weight (approx 270 g; 9.5 oz (with BP-292UL and MBB-3) RANSMITTER 5 W, 2 W, 1 W Output power (Hi, L2, L1) Frequency stability ±1.0 ppm Spurious emissions 80 dB typical 57 dB (@25 kHz), 55 dB (@12.5 kHz) 57 dB (@25 kHz), 56 dB (@12.5 kHz) FM Hum and noise Audio harmonic distortion 0.4% (AF 1 kHz 40% deviation) FSK error 1% (@DVN/DN) CEIVER Analog (12 dB SINAD) 0.23 µV typical Sensitivity -5.0 dBμV emf (0.28 μV) (@DVN) -4.0 dBμV emf (0.32 μV) (@DVN), Digital (1% BER) -3.0 dBμV emf (0.35 μV) (@DN) $-3.0 \text{ dB}\mu\text{V} \text{ emf } (0.35 \text{ }\mu\text{V} \text{ }) \text{ } (@ \text{DN})$ Analo 79 dB (@25 kHz), 77 dB (@12.5 kHz) 76 dB (@25 kHz), 73 dB (@12.5 kHz) Adjacent channel selectivity Digita 70 dB (@DVN), 72 dB (@DN) 66 dB (@DVN), 68 dB (@DN) Spurious response rejection 76 dB 78 dB Analo 76 dB 74 dB Intermodulation rejection 73 dBµV emf (@DVN), -40 dBm (@DN) Digita

Measurements made in accordance with TIA-603, EN300 086, EN301 166, EN300 113. All stated specifications are subject to change without notice or obligation.

*1 25 kHz bandwidth is no longer available for FCC Part 90 licensees for USA versions.

DVN: Digital Very Narrow (6.25 kHz), DN: Digital Narrow (12.5 kHz).

Audio output power

Applicable U.S. Military Specifications & IP Rating

Dhamaland	MIL 810G		
Standard	Method	Procedure	
Low Pressure	500.5	I, II	
High Temperature	501.5	I, II	
Low Temperature	502.5	I, II	
Temperature Shock	503.5	I-C	
Solar Radiation	505.5	I	
Rain Blowing/Drip	506.5	I, III	
Humidity	507.5	II	
Salt Fog	509.5	_	
Dust Blowing	510.5	I	
Immersion	512.5	I	
Vibration	514.6	I	
Shock	516.6	I, IV	

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

Dust & Water IP67/66/55/54

UL LISTED

Approved UL Classifications

Intrinsically safe:

Class I, Division 1, Groups C, D; Class II, Division 1, Groups E, F, G; Class III. T3C.

External SP

Non-incendive:

Class I, Division 2, Groups A, B, C, D.

Ambient temperature:

-20°C (-4°F) to +60°C (+140°F)

Standards of safety:

ANSI/TIA-4950-A ANSI/UL 121201

* Intrinsically Safe when used with Icom BP-292UL battery pack.

Battery Life

	Battery pack	Type	Capacity	Operating time*	
	BP-292UL	Li-ion 7.2 V	2010 mAh (typ.), 1910 mAh (min.)	10 hours (Approx.)	
*Tx: Rx: standby = 5:5:90 (3 sec. : 3 sec.: 54 sec.) duty cycle. Power save function ON.					

Supplied accessories: (May differ depending on the transceiver version • Battery pack, BP-292UL • Belt clip, MBB-3



Check our web site to know more about 6.25 kHz FDMA narrow band. www.icomjapan.com/explore/digital