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.

BC-227



POWER SUPPLY CABLES

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

SPEAKER-MICROPHONE

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	STUBBY ANTENNAS	
FA-SC25V: 136–150 MHz	FA-SC26VS: 136–144 MHz	
FA-SC28V: 148–162 MHz	FA-SC27VS: 142-150 MHz	
FA-SC29V: 160–174 MHz	FA-SC56VS: 150-162 MHz	
FA-SC01U: 350-400 MHz	FA-SC57VS: 160–174 MHz	
FA-SC25U: 400-430 MHz	FA-SC26US: 400-450 MHz	
FA-SC57U: 430–470 MHz	FA-SC73US: 450-490 MHz	
FA-SC72U: 470–520 MHz		
HIGH GAIN ANTENNAS	CUT-TYPE ANTENNAS	
FA-SC62V: 150–160 MHz	FA-SC61VC: 136–174 MHz	
FA-SC63V: 155–165 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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UL Approved Intrinsically Safe Digital Radio with 5 W Output Power and Compact Design



2020

IC-F52D-UL IC-F62D-UL

VHF AND UHF DIGITAL TRANSCEIVERS

IC-F52D-UL ·IC-F62D-UL

SPECIFICATIONS

General Features

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)

Check our web site to know more about

6.25 kHz FDMA narrow band.

www.icomjapan.com/explore/digital

- · Individual, group and all call
- · Late entry for group call
- Status call and polling
- Short data messages
- Call alert
- Transparent data mode

6.25 kHz FDM

True RF Efficiency

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
- Wireless radio programming over Bluetooth®

		IC-F52D-UL	IC-F62D-UL	
ENERAL				
Frequency coverage (Depending on the version)		136–174 MHz	350-400, 400-470, 450-512, 450-520 MHz	
Number of channels		512 channels /128 zones		
Type of emission (Depending on the version)		16K0F3E*1, 11K0F3E, 8K50F3E, 8K30F1E/D, 4K00F1E/D		
Power supply requirement		7.5 V DC nominal		
Current drain (approx.)	Tx	1.8 A		
	Rx	500 mA /170 mA (Max. audio (internal SP)/Standby)	600 mA /170 mA (Max. audio (internal SP)/Standby)	
Antenna impedance		50 Ω		
	temperature range	-30 °C to +60 °C; -22 °F to		
Dimensions (W × H × D; Proj	ections not included)	56 × 92 × 34.1mm; 2.2 × 3		
	Weight (approx.)	125 g; 4.4 oz (main unit)		
	weight (applox.)	270 g; 9.5 oz (with BP-292UL and MBB-3)		
RANSMITTER				
Outpu	t power (Hi, L2, L1)	5 W, 2 W, 1 W		
F	requency stability	±1.0 ppm		
Spurious emissions		80 dB typical		
F	M Hum and noise	57 dB (@25 kHz), 55 dB (@12.5 kHz)	57 dB (@25 kHz), 56 dB (@12.5 kHz)	
Audio harmonic distortion		0.4% (AF 1 kHz 40% deviation)		
	FSK error	r 1% (@DVN/DN)		
ECEIVER				
	Analog (12 dB SINAD)	0.23 µV typical		
Sensitivity	Digital	–5.0 dBμV emf (0.28 μV) (@DVN),	-4.0 dBμV emf (0.32 μV) (@DVN),	
	(1% BER)	-3.0 dBμV emf (0.35 μV) (@DN)	–3.0 dBμV emf (0.35 μV) (@DN)	
Adia cont channel calentivity	Analog	79 dB (@25 kHz), 77 dB (@12.5 kHz)	76 dB (@25 kHz), 73 dB (@12.5 kHz)	
Adjacent channel selectivity	Digital	70 dB (@DVN), 72 dB (@DN)	66 dB (@DVN), 68 dB (@DN)	
Spurious r	esponse rejection	76 dB	78 dB	
Intermodulation rejection	Analog	76 dB	74 dB	
	Digital	73 dBµV emf (@DVN		
Audio output power	Internal SP External SP	800 mW 1000 mW		

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).

Applicable U.S. Military Specifications & IP Rating

MIL 810G		
Method	Procedure	
500.5	I, II	
501.5	I, II	
502.5	I, II	
503.5	I-C	
505.5	I	
506.5	I, III	
507.5	II	
509.5	-	
510.5	I	
512.5	I	
514.6	I	
516.6	I, IV	
	Method 500.5 501.5 502.5 503.5 505.5 506.5 507.5 509.5 510.5 512.5 514.6	

ress Protec

Non-incendive:

Dust & Water IP67/66/55/54

Approved UL Classifications Intrinsically safe:

(^UL LISTED

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

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.

Icom Inc.

IC-F52D-UL ·IC-F62D-UL

attery Life Battery pack	Type	Capacity	Operating time*
BP-292UL	21.5	2010 mAh (typ.), 1910 mAh (min.)	

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

Please check the website for the latest version of this brochure at www.icomjapan.com