



# IC-F3263D-UL

VHF DIGITAL TRANSCEIVER

## 5 W Output Power Digital Radio for Hazardous Locations

The IC-F3263D-UL can be used in Class I, Division 2, Group A, B, C and D hazardous locations approved by UL (Underwriters Laboratories). A full 5 W of output power is also 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.

**Nonincendive: Class I, Division 2,  
Groups A, B, C, D**

**Multiple operating modes**

- NXDN™ conventional and Type-D trunking
- Analog FM

**Man down and lone worker functions**

**IP67 dust-tight & waterproof**

**800 mW (typ.) audio output**

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



IC-F3263D-UL



## FEATURES

**Approved UL Classifications**

- Nonincendive: Class I, Division 2, Groups A, B, C, D when used with Icom BP-232UL battery pack.
- Ambient temperature: -20°C to +40°C
- ANSI/ISA 12.12.01-2015, CAN/CSA C22.2 No. 213-15

**General Features**

- 136–174 MHz
- 512 Channels / 128 Zones
- Full dot-matrix display with status icons
- Backlit LCD and buttons
- 16-position rotary selector and ON/OFF volume knob
- 800 mW loud and intelligible internal speaker audio
- MIL-STD-810 G shock, vibration, temperature and more
- IP67 dust-tight and waterproof, one meter for 30 minutes
- DTMF autodial memories

**Operating Mode**

- 6.25 kHz digital very narrow mode
- NXDN conventional and Type-D single/multi-site trunking
- NXDN multi-site conventional over IP network
- Analog FM mode
- Analog/digital mixed operation

**Digital Functions (Voice and Data)**

- Individual, group and all call
- Individual ID and talkgroup ID memories
- Late entry for group call
- Status call and polling
- Short data messages
- Call alert
- Call log
- Over-the-Air Update (OTAU) changes the repeater channel data and site code over the air (NXDN Type-D trunking)

**Analog Functions**

- CTCSS and DTCS tone
- 2-Tone and 5-Tone
- MDC functions
- BIIS 1200 (MSK)
- LTR™ trunking

**Safety and Security**

- 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
- Surveillance function

**Scan Functions**

- Priority scan
- Voting scan for site roaming
- Mode dependent scan
- Nuisance delete

**Voice/Audio Functions**

- Audio compander for analog mode
- Escalating alarm



Check our website to know more about  
6.25 kHz FDMA narrow band.  
[www.icom.co.jp/world/fdma/](http://www.icom.co.jp/world/fdma/)

## SPECIFICATIONS

## IC-F3263D-UL

		IC-F3263D-UL (#14 EXP)
<b>GENERAL</b>		
Frequency coverage (* Depending on version)		136–174 MHz
Number of channels		512 channels /128 zones
Type of emission (* Depending on version)		16K0F3E, 11K0F3E, 8K50F3E, 4K00F1E/F1D
Power supply requirement		7.5 V DC nominal
Current drain (approx.)	Tx	1.5 A
	Rx	550 mA /130 mA (Rated output/Standby)
Antenna impedance		50 Ω
Operating temperature range		–30 °C to +60 °C; –22 °F to +140 °F (Radio specifications)
Dimensions (W × H × D; Projections not included)		53.5 × 142.7 × 39.5 mm; 2.1 × 5.6 × 1.6 in (With BP-232UL)
Weight (approx.)		240 g; 8.5 oz (Main unit)
		410 g; 14.5 oz (With BP-232UL, MB-94R and FA-SC55V)
<b>TRANSMITTER</b>		
Output power (Hi, L2, L1)		5 W, 2 W, 1 W
Max. frequency deviation		±5.0 kHz (@25 kHz), ±2.5 kHz (@12.5 kHz)
Frequency stability		±1.0 ppm
Spurious emissions		78 dB typ.
FM Hum and noise		48 dB typ. (@25 kHz), 43 dB typ. (@12.5 kHz)
Audio harmonic distortion		1.5% typ. (AF 1kHz 40% deviation)
FSK error		2% typ.
<b>RECEIVER</b>		
Sensitivity	Analog (12 dB SINAD)	0.23 μV typ.
	Digital (5% BER)	–8.0 dBμV emf typ. (0.20 μV typ.)
Adjacent channel selectivity	Analog	78 dB typ. (@25 kHz), 68 dB typ. (@12.5 kHz)
	Digital	60 dB typ.
Spurious response rejection		76 dB typ.
Intermodulation rejection	Analog	75 dB typ. (@25 kHz), 75 dB typ. (@12.5 kHz)
	Digital	66 dB typ.
Hum and noise		52 dB typ. (@25 kHz), 47 dB typ. (@12.5 kHz)
Audio output power	Internal SP	800 mW typ. (at 5% distortion, 12 Ω load)
	External SP	1000 mW typ. (at 5% distortion, 8 Ω load)

Measurements made in accordance with TIA-603 and EN301 166.

All stated specifications are subject to change without notice or obligation.

## Applicable U.S. Military Specifications &amp; IP Rating

Standard	MIL 810 G	
	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.

## Ingress Protection Standard (Including BP-232UL)

Dust & Water IP67 (Dust-tight and waterproof protection)

## Battery Life

Battery pack	Type	Capacity	Operating time*
BP-232UL	Li-ion 7.2 V	2350 mAh (typ.), 2200 mAh (min.)	12–12.5 hours (Approx.)

\* Tx: Rx: standby = 5:5:90 duty cycle. Power save function ON.

## Supplied accessories: (May differ depending on version)

• Battery pack, BP-232UL • Belt clip, MB-94R • Antenna

## OPTIONS

## ■ BATTERY PACK

**BP-232UL:** Rechargeable Li-ion battery. 2350 mAh (typ.), 2200 mAh (min.). IP67 protection. 12–12.5 hours operating time.



BP-232UL

## ■ BATTERY CHARGERS

**BC-171:** Regular charger. Charges the BP-232UL in 8–10 hours (approximate).  
+ **BC-147SA/SE/SV:** AC adapter.

**BC-160:** Rapid charger. Charges the BP-232UL in 3 hours (approximate).  
+ **BC-123SA/SE/SV:** AC adapter.

**BC-197:** Multi-charger. Charges up to six batteries in 3.5 hours (approximate).  
+ **BC-157S:** AC adapter.

\* AD-122 charger adapter is supplied with the BC-197, depending on version.



BC-147SA/SE/SV

BC-171

BC-160

BC-123SA/SE/SV

BC-197

BC-157S

## ■ POWER SUPPLY CABLES

**OPC-656:** DC power cable for use with the BC-197.

**OPC-515L:** DC power cable for use with the BC-160 or BC-171.



OPC-656

OPC-515L

## ■ BELT CLIPS AND BELT HANGERS

**MB-93:** Swivel belt clip.

**MB-94R:** Alligator belt clip. Same as supplied.

**MB-96N:** Swivel type leather belt hanger.

**MB-96F:** Fixed type leather belt hanger. For use with the MB-94R.



MB-93

MB-94R

MB-96N

MB-96F

## ■ SOFTWARE AND CABLES

**CS-F3160ME:** Programming software.

**OPC-1862:** Programming cable. USB–14-pin type.

**OPC-1871:** Zone copy cable. Handheld to mobile type



## ■ ANTENNAS

**FA-SC25V:** 136–150 MHz

**FA-SC55V:** 150–174 MHz



## ■ HIGH GAIN ANTENNAS

**FA-SC62V:** 150–160 MHz

**FA-SC63V:** 155–165 MHz



## ■ STUBBY ANTENNAS

**FA-SC56VS:** 150–162 MHz

**FA-SC57VS:** 160–174 MHz



## ■ CUT-TYPE ANTENNA

**FA-SC61VC:** 136–174 MHz



**DO NOT use the transceiver with any other equipment other than the above options.**  
The battery charger, BC-171, BC-160 or BC-197 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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