IC-F3400D IC-F4400D

Series

Series

VHF AND UHF DIGITAL TRANSCEIVERS

Look Smart, Work Smart

The IC-F3400D/F4400D series is Icom's new generation IDAS handheld radios. Incorporating cutting edge design, superb performance and a comprehensive range of features including built-in GPS and Bluetooth^{®1}, Active Noise Cancelling technology, digital voice playback and a USB port for easy programming and data transfer. Available in three versions for VHF and UHF, each radio features a high-resolution color LCD in a compact, IP68 waterproof body.

Small, slim and stylish with custom SoC (System-on-a-Chip)

Multiple operating modes (Available mode depending on version)

- NXDN™/dPMR™ conventional
- Upgradable to NXDN[™] Type-D trunking
- Upgradable to dPMR[™] Mode 3 trunking
- Analog FM

High-resolution transreflective color LCD

Icom's custom high power handling capacity speaker for 1300 mW of powerful audio

Built-in Bluetooth^{®*1}, voice recording, active noise cancelling functions *1 Version without Bluetooth also available. Ask your Dealer for details.

Motion/stationary detection, man down and lone worker functions

Standard DES encryption, optional AES with OTAR (Over-the-Air-Rekeying)





IC-F3400DS

IC-F4400DT



FEATURES

VHF AND UHF DIGITAL TRANSCEIVERS IC-F3400D • IC-F4400D Series

General Features

- 136–174, 380–470, 450–520 MHz versions
- 1024 Channels / 128 Zones
- 4000 Channels with optional license key, ISL-CHEX
- High-resolution transreflective color LCD
- · Day and night mode display settings
- Programmable functions and menu items in a language other than English (For example French, Spanish, German, Russian and Turkish)
- Continuous rotary knob and ON/OFF volume knob
- Quick lever switch on the top panel programmable for various functions such as lock, scrambler/encryption, etc.
- 1300 mW large volume audio from Icom custom speaker
- Improved sound clarity
- MIL-STD-810 G shock, vibration, temperature and more
- IP68 waterproof (1 m depth water for 1 hour) and dust-tight protection
- AquaQuake[™] prevents audio degradation from a water-logged speaker
- 29.3 mm (1.2 inch) slim dimensions (with BP-284 battery pack)
- · Battery information display
- · Flat sheet keypad offers large button space and protects the radio from dust
- DTMF autodial and decoder

Operating Mode (Available mode depending on version)

- NXDN or dPMR mode 1/mode 2 conventional
- NXDN or dPMR multi-site conventional over IP network
- NXDN Type-D single/multi-site trunking* * License key (ISL-UGMTR) required.
- dPMR Mode 3 trunkina*
- * License key (ISL-UGMD3) required. Not available in all regions.
- 12.5 kHz digital mode (NXDN conventional)
- Analog mode
- Analog/digital mixed operation (conventional mode)

Digital Functions (Voice and Data)

- 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 (Up to 100 characters)
- Call alert (NXDN)
- GPS position
- Transparent data mode (dPMR)

Analog Functions

- CTCSS and DTCS tone
- 2-Tone and 5-Tone
- MDC functions (Depending on version)
- BIIS 1200 (MSK)
- LTR[™] trunking (Depending on version)

Security and Safety

- Encryption: DES (4-key, 64-key)*, AES 4-kev standard. 64-kev DES requires UT-134. AES requires UT-134 and ISL-AKAES.
- Over-the-Air-Rekeying (OTAR) function. * OTAR manager (CS-OTAR1) required.
- Digital voice scrambler (Low level encryption)
- Analog voice scrambler (Inversion)
- Power ON password
- Tactical group temporarily reconfigures user talkgroups
- · Remote Kill, Stun and Revive
- Remote monitor (NXDN)/ambience listening (dPMR)
- 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)
- VOX function for hands-free operation
- Voice recording/playback (Saves to a microSD card)* * A microSD card is required separately.
- The following information can be embedded in the WAV file; user IDs, GPS position, frequency, AF volume, RSSI, etc. (Depending on setting).
- Customized channel announcement
- TX/RX active noise canceller
- TX/RX audio equalizer (Flat, high/mid/low boost, low cut)
- Audio compander (Analog mode)

Hardware Features

- Programmable vibration alert and ringer beep
- Built-in Bluetooth® for wireless audio and data*1
- A third-party wireless Bluetooth[®] headset
- (for example, 3M[™] Peltor[™] WS[™] 5 series) can be used*1*2
- Wireless radio programming over Bluetooth®*1
- USB connector for data transfer mode or card reader mode
- 14-pin accessory connector
- Integrated GPS with GPS position screen and auto log function
- · Internal clock with time auto adjustment
- · Battery life cycle management with optional intelligent charger, BC-225, and software, RS-BC225
- microSD card slot
- *1 Version without Bluetooth® also available. Ask your Dealer for details.
- *2 Compatibility with third-party Bluetooth® headsets cannot be guaranteed.



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



SPECIFICATIONS

IC-F3400D • IC-F4400D Series

		IC-F3400DT/DS NXDN Version	IC-F3400DT/DS dPMR Version	IC-F4400DT/DS NXDN Version	IC-F4400DT/DS dPMR Version	
GENERAL						
Frequency coverage (Depending on the version)		136–174 MHz	136–174 MHz	380–470 MHz, 450–520 MHz	380–470 MHz	
Number of channels		1024 channels /128 zones 4000 channels /128 zones (Option)*1				
Turn of our incident	Analog	16K0F3E*2, 14K0F3E, 11K0F3E, 8K50F3E	16K0F3E*2, 14K0F3E, 11K0F3E, 8K50F3E	16K0F3E*2, 14K0F3E, 11K0F3E, 8K50F3E	16K0F3E*2, 14K0F3E, 11K0F3E, 8K50F3E	
Type of emission (Depending on the version)	Digital Narrow (DN)	8K30F1E/D	-	8K30F1E/D	-	
(Depending on the version)	Digital Very Narrow (DVN)	4K00F1E/D	4K00F1E/D	4K00F1E/D	4K00F1E/D	
Power supply requirement		7.5 V DC nominal				
Current drain (approx.)	Tx	1.5 A		1.8 A		
,	Rx	580 mA /140 mA (Max. audio (internal SP)/Standby) 580 mA /140 mA (Max. audio (internal SP			udio (internal SP)/Standby)	
Antenna impedance		50 Ω				
Operating temperature range		-30 °C to +60 °C; -22 °F to +140 °F (Radio specifications)				
Dimensions ($W \times H \times D$; Projections	not included)			$1 \times 4.9 \times 1.2$ in (with BP-284)		
Weight (approx.)			₩/.	z (main unit)		
o (11)		340 g; 12.0 oz (with BP-2	84, MB-133 and FA-S81VS)	335 g; 11.8 oz (with BP-284, MB-133 and FA-S81US)		
TRANSMITTER						
Output power (Hi, L2, L1)		5 W, 2 W, 1 W				
Frequency stability		±1.0 ppm				
Spurious emissions		80 dB typical (USA)				
		15	0.25 µW (≤ 1 GHz), 1.		10	
FM Hum and noise			dB typical (@12.5 kHz)(USA)	60 dB typical (@25 kHz), 59 dB typical (@12.5 kHz) (USA		
Audio harmonic distortion		0.5% typical (AF 1	0.5% typical (AF 1 kHz 40% deviation) 0.4% typical (AF 1 kHz 40% deviation) 1% typical (@DVN/DN*3)			
FSK error			1% typical (@ DVN/DN*3)		
RECEIVER				1		
	Digital (1% BER)	-5.5 dBμV emf typical (0.26 μV typical) (@DVN), -4.0 dBμV emf typical (0.32 μV typical) (@DN*3) -4.0 dBμV emf typical (0.32 μV typical) (@DN*3)				
Sensitivity	Analog (12 dB SINAD)	0.22 μ'	V typical	0.23 µV typical		
	Analog (20 dB SINAD)		pical (@25/20 kHz), ypical (@12.5 kHz)		rpical (@25/20 kHz), rypical (@12.5 kHz)	
Adia agent abannal aglagtivity	Digital	71 dB typical (@DVN), 70 dB typical (@DN*3)		66 dB typical (@DVN), 66 dB typical (@DN*3)		
Adjacent channel selectivity	Analog	80 dB typical (@25 kHz),	76 dB typical (@12.5 kHz)	75 dB typical (@25 kHz), 72 dB typical (@12.5 kHz)		
Spurious response rejection		81 dB	typical	76 dB typical		
	Digital	72 dBµV emf typical (@DVN), −41 dBm typical (@DN*3)		73 dBµV emf typical (@DVN), −41 dBm typical (@DN*3)		
Intermodulation rejection	Analog	75 dB typical (USA) 67 dB typical (EUR)		74 dB typical (USA) 68 dB typical (EUR)		
	Internal SP		\ /	5% distortion, 8 Ω load)		
Audio output power External SP		1300 mW typical (with HM-222H at 5% distortion)*4 1000 mW typical (at 5% distortion, 8 Ω load),				

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 Optional license key (ISL-CHEX) required. *2 25 kHz bandwidth is no longer available for FCC Part 90 licensees for USA versions. *3 DVN: Digital Very Narrow (6.25 kHz), DN: Digital Narrow (12.5 kHz). DN is for NXDN version only. *4 For the transceiver with a "U" mark on the serial number label. NXDN/dPMR modes are not compatible with each other. The radio protocol/mode cannot be changed after purchase.

Applicable U.S. Military Specifications & IP Rating

Method 500.5 501.5 502.5 503.5 505.5 505.5 506.5	Procedure I, II I, II I, II I, II I-C I I I
501.5 502.5 503.5 505.5	I, II I, II I-C I
502.5 503.5 505.5	I, II I-C I
503.5 505.5	I-C I
505.5	I
	I
506 5	I III
000.0	1, 111
507.5	II
509.5	-
510.5	I
512.5	I
514.6	Ι
516.6	I, IV
	510.5 512.5 514.6

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

Ingress Protection Standard

Dust & Water

IP68 (Dust-tight and waterproof protection)

Battery Life

Battery pack	Туре	Capacity	Operating time*	
BP-283	Li-ion 7.2 V	2010 mAh (typ.), 1910 mAh (min.)	10.5 hours (Approx.)	
BP-284	Li-ion 7.2 V	3210 mAh (typ.), 3070 mAh (min.)	16.5 hours (Approx.)	
* Tx: Rx: standby = 5:5:90 duty cycle. Power save function ON.				

Supplied accessories: (May differ depending on the transceiver version) BP-284 battery pack • MB-133 belt clip

OPTIONAL ACCESSORIES

IC-F3400D · IC-F4400D Series

BATTERY PACKS AND BATTERY CASE

BP-283: Li-ion 7.2 V/2010 mAh (typ.), 1910 mAh (min.). IP68 protection. **BP-284**: Li-ion 7.2 V/3210 mAh (typ.), 3070 mAh (min.). IP68 protection. **BP-305**: LR6 (AA) × 5 cells battery case (For USA version)



BATTERY CHARGERS

BC-226: Multi-connectable rapid charger (connects up to six BC-226 units). Charges the BP-283/BP-284 in 2.7/4.3 hours (approx.). AC adapter for single unit.

+ BC-123S: AC adapter for single unit. The straight plug type is required.

or BC-228: AC adapter. One AC adapter is required for up to six charger units.

BC-225: Intelligent charger. Shows the charging information with the LED lighting. Charges the BP-283/BP-284 in 3/4.5 hours (approx.).

AC adapter BC-123S supplied with the BC-225, depending on version. RS-BC225: Intelligent charger software for Windows® PC

BC-227: Compact desktop charger. Charges the BP-283/BP-284 in 2.7/4.3 hours (approx.). AC adapter BC-123S supplied with the BC-227, depending on version.

BC-219N: Desktop charger. Charges the BP-283/BP-284 in 3/4.5 hours (approx.). AC adapter BC-123S supplied with the BC-219N, depending on version.

BC-214N: Multi-charger. Charges up to six BP-283/BP-284 batteries in 3/4.5 hours (approx.). AC adapter BC-157S supplied with the BC-214N, depending on version. BC-214N Version #61-#63 required.



POWER SUPPLY CABLES

CP-23L: Vehicle charger cable for use with the BC-219N or BC-227. **OPC-515L**: DC power cable for use with the BC-219N, BC-225 or BC-227. **OPC-656**: DC power cable for use with the BC-214N.

HEADSETS AND PTT SWITCH CABLE

HS-94: Earphone-headset (Use with VS-4MC)
HS-95: Behind-the-head headset (Use with VS-4MC).
HS-97: Throat microphone (Use with VS-4MC).
VS-4MC: PTT switch cable. VS-4MC is required when using any of HS-94, HS-95 or HS-97.



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SPEAKER-MICROPHONE

HM-222H: Large audio speaker microphone with emergency button and 3.5 mm earphone jack. IP68 protection.



BELT CLIPS, BELT HANGERS AND CARRYING CASES

MB-133: 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 MB-133.

MB-96FL: Long fixed type leather belt hanger. For use with the MB-133. LC-184: Hard type carrying case. Charging is possible while the case is attached.



OTHER OPTIONS AND CABLES

AD-118: ACC adapter. For use with Hirose plug accessory. UT-134: AES/DES encryption unit. OPC-2338: Programming cable. USB–14-pin type. OPC-1870: Zone copy cable. Handheld to handheld type. OPC-2362: Zone copy cable. Handheld to mobile type.

SOFTWARE AND ACTIVATION KEYS

CS-OTPM1: OTAP manager software. CS-OTAR1: OTAR manager software. CS-KLD2: Key-loader for UT-134. ISL-UGMTR: NXDN™ Type-D trunking upgrade key. ISL-UGMD3: dPMR™ Mode 3 trunking upgrade key. (Not available in all regions.) ISL-AKAES: AES activation key. ISL-CHEX: Channel expansion key. ISL-AK25K: 25 kHz activation key. ISL-AKSTM: Dealer set mode activation key.

ANTENNAS

FA-S81V: 136–150 MHz FA-S82V: 148–162 MHz FA-S83V: 160–174 MHz FA-S81U: 380–430 MHz FA-S82U: 430–480 MHz FA-S83U: 470–520 MHz

CUT-TYPE ANTENNAS

FA-S67VC: 136–174 MHz **FA-S76UC:** 380–520 MHz

STUBBY ANTENNAS

FA-S82VS: 148–162 MHz FA-S83VS: 160–174 MHz FA-S81US: 400–450 MHz FA-S82US: 450–490 MHz

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

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