

OPTIONS

IC-F5400D • IC-F6400D Series

HAND MICROPHONES AND DESKTOP MICROPHONE

HM-220: Heavy duty microphone. IP54 protection.
HM-220T: Heavy duty microphone with DTMF keypad. IP54 protection.
HM-221: Hand microphone with emergency button. IP55 protection.
HM-221T: Hand microphone with DTMF keypad and emergency button. IP55 protection.
SM-29: Desktop microphone with monitor and monitor lock buttons.



COMMANDMIC™ AND SEPARATION KITS

HM-218*: Remote control microphone for use with RMK-5. IP55 protection.
RMK-5*: Separation kit. For detached controller configuration.
RMK-7*: Dual-head separation kit. Separation kit and secondary controller for dual head configuration.

* HM-218, RMK-5, RMK-7 and separation cables are options for IC-F5400D/F6400D, F5400DP/F6400DP only



SEPARATION CABLES

OPC-2364: 1.9 m; 6.2 ft separation cable for RMK-5 or RMK-7.
OPC-2365: 3 m; 9.8 ft separation cable for RMK-5 or RMK-7.
OPC-2366: 5 m; 16.4 ft separation cable for RMK-5 or RMK-7.
OPC-2367: 8 m; 26.2 ft separation cable for RMK-5 or RMK-7.
OPC-2373: 1.9 m; 6.2 ft separation cable for HM-218, COMMANDMIC.
OPC-2374: 8 m; 26.2 ft separation cable for HM-218, COMMANDMIC.



EXTERNAL SPEAKERS

SP-30: External speaker. Cable length 2.6 m; 8.5 ft.
SP-35: Compact external speaker. Cable length 2 m; 6.6 ft.
SP-35L: Compact external speaker. Cable length 6 m; 19.7 ft.



GPS ANTENNA

UX-241: External GPS antenna. Cable length 5 m; 16.4 ft.

AES/DES ENCRYPTION UNIT

UT-134: AES/DES encryption unit.

ZONE COPY, PROGRAMMING AND DC POWER CABLES

OPC-2362: Zone copy cable. Mobile to handheld cable.
OPC-2363: Programming cable.
OPC-1132: DC power cable. Cable length 3 m; 9.8 ft.
OPC-347: DC power cable. Cable length 7 m; 23 ft.



SOFTWARE AND ACTIVATION KEYS

CS-F3400D: Programming software.
CS-KLD2: Key-loader for UT-134.
CS-OTPM1: OTAP manager software.
CS-OTAR1: OTAR manager software.
ISL-UGMTR: NXDN™ Type-D trunking upgrade key.
ISL-UGMD3: dPMR™ Mode 3 upgrade key.
ISL-AKAES: AES activation key.
ISL-CHEX: Channel expansion key.
ISL-AK25K: 25 kHz activation key.
ISL-AKSTM: Dealer set mode activation key.

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

Detached Controller*
Optional RMK-5 and separation cable required.

Dual Head Controller*
Optional RMK-7, hand microphone and separation cables required.

COMMANDMIC™ and Detached Controller*
Optional RMK-5, COMMANDMIC, HM-218 and separation cables required.

Les spécifications et informations données dans ce document peuvent être modifiées sans préavis. La configuration du poste peut varier suivant les versions.

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CACHET DISTRIBUTEUR



IC-F5400D Series
IC-F6400D Series

VHF AND UHF DIGITAL TRANSCEIVERS

Look Smart, Work Smart

The IC-F5400D/F6400D series is Icom's new generation IDAS mobile radios. Incorporating cutting edge design, superb performance and a comprehensive range of features on a flexible, upgradable multi-protocol platform. The series is available in both VHF and UHF with either a numeric or full color high resolution LCD. Multiple controller configurations are available to suit almost any vehicle application.

- High resolution color LCD (IC-F5400D/IC-F6400D only)**
- Optional OTAR (Over-the-Air-Rekeying) function for AES/DES**
- 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
- Optional OTAP (Over-the-Air-Programming) function**
- Built-in Bluetooth®, voice recording, active noise canceller functions**
- IP55 jet water resistance and dust-protection**
- Encryption: DES (4-key, 64-key), AES***
 - * 4-key standard. 64-key DES requires UT-134.
 - AES requires UT-134 and ISL-AKAES
- Optional detached controller, dual head or COMMANDMIC™ configurations (IC-F5400D/IC-F6400D only)**



IC-F5400D



IC-F5400DS



General Features

- 136–174, 380–470, 450–520 MHz versions
- 1024 Channels / 128 Zones, 99 Channels (7 Segment display type)*
* IC-F5400DS/F6400DS/F5400DPS/F6400DPS: Due to the segment display, channel indication is possible for up to 99 selected channels out of 1024.
- 4000 Channels with optional license key, ISL-CHEX
- High resolution color LCD and intuitive user interface
- Large sized function and four-direction buttons
- 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)
- MIL-STD-810 G shock, vibration, temperature and more
- IP55, water jet resistance and dust protection
- DTMF autodial and decoder

Operating Mode (Available mode depending on version)

- NXDN or dPMR Mode 1/2 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 trunking*
* License key (ISL-UGMD3) required. Not available in all regions.
- 12.5 kHz digital mode (NXDN conventional)
- Analog mode
- Analog/digital mixed operation

Digital Functions (Voice and Data)

- Over-the-Air Programming (OTAP) function*
* 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
- Unit ID and talkgroup display on receive
- Status call and polling
- Short data messages (up to 100 characters)
- Call alert (NXDN)
- GPS position
- Transparent data mode

Analog Functions

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



Check our web site to know more about 6.25 kHz FDMA narrow band.
www.icom.co.jp/world/fdma/

	IC-F5400D/DS NXDN Version	IC-F5400DP/DPS dPMR Version	IC-F6400D/DS NXDN Version	IC-F6400DP/DPS dPMR Version
GENERAL				
Frequency coverage* (* Depending on 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 99 channels (7 Segment display type)*2			
Type of emission* (* Depending on version)	16K0F3E*3, 14K0F3E, 11K0F3E, 8K50F3E, 8K30F1E/D, 4K00F1E/D	16K0F3E*3, 14K0F3E, 8K50F3E, 4K00F1E/D	16K0F3E*3, 14K0F3E, 11K0F3E, 8K50F3E, 8K30F1E/D, 4K00F1E/D	16K0F3E*3, 14K0F3E, 8K50F3E, 4K00F1E/D
Power supply requirement	13.6 V DC nominal (USA/EXP), 13.2 V DC nominal (EUR)			
Current drain (approx.)	Tx		8.8 A typical (at 45 W)	
	Rx		5.0 A typical (at 25 W)	
Antenna impedance	50 Ω			
Operating temperature range	–30 °C to +60 °C; –22 °F to +140 °F			
Dimensions (W × H × D; Projections not included)	174 × 55 × 150 mm; 6.9 × 2.2 × 5.9 in			
Weight (approx.)	1.5 kg; 3.3 lb			
TRANSMITTER				
Output power (Hi, L2, L1)* (* Depending on version)	50 W, 25 W, 5 W (USA/EXP) 25 W, 10 W, 5.8 W (EUR)		45 W, 25 W, 4.5 W (USA/EXP) 25 W, 10 W, 5.8 W (EUR)	
Frequency stability	±1.0 ppm			
Spurious emissions	90 dB typical (USA)		80 dB typical (USA)	
FM Hum and noise	54 dB typical (@25 kHz), 54 dB typical (@12.5 kHz)			
Audio harmonic distortion	0.5% typical (AF 1 kHz 40% deviation)			
FSK error	1% typical (@DVN/DN)			
RECEIVER				
Sensitivity	Analog (12 dB SINAD)	0.22 μV typical		0.25 μV typical
	Analog (20 dB SINAD)	–4.0 dBμV emf typical (@25 kHz), –4.0 dBμV emf typical (@12.5 kHz)		
Adjacent channel selectivity	Digital (1% BER)	–6.0 dBμV emf typical (0.25 μV typical) (@DVN), –5.0 dBμV emf typical (0.28 μV typical) (@DN)		
	Analog	75 dB typical (@25/20 kHz), 72 dB typical (@12.5 kHz)		
Spurious response rejection	Digital	65 dB typical (@DVN), 68 dB typical (@DN)		
	Analog	85 dB typical		
Intermodulation rejection	Analog	78 dB typical (USA) 70 dB typical (EUR)		75 dB typical (USA) 70 dB typical (EUR)
	Digital	70 dB typical (@DVN), 70 dB typical (@DN)		70 dB typical (@DVN), 70 dB typical (@DN)
Audio output power	Internal SP	4.0 W typical (at 5% distortion with 4 Ω load)		
	External SP	4.0 W typical (at 5% distortion with 4 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 IC-F5400DS/F6400DS/F5400DPS/F6400DPS: Due to the segment display, channel indication is possible for up to 99 selected channels out of 1024.

*3 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). DN is for NXDN version only.

Applicable U.S. Military Specifications & IP Rating

Standard	MIL 810G	
	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
Vibration	514.6	I
Shock	516.6	I, IV

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

Ingress Protection Standard	
Dust & Water	IP55 (Dust-protection and jet water resistance)

Supplied accessories: (May differ depending on version)			
• Hand microphone, HM-220 or HM-221	• DC power cable	• Mounting bracket kit	• Microphone hanger