## IC-F5400D <br> Series IC-F6400D ${ }_{\text {series }}$

## 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)
| Multiple operating modes
(Available mode depending on version)

- $\mathrm{NXDN}^{\text {TM }} / \mathrm{dPMR}^{\text {TM }}$ conventional
- Upgradable to NXDN ${ }^{\text {TM }}$ Type-D trunking
- Upgradable to $\mathrm{dPMR}^{\text {TM }}$ Mode 3 trunking
- Analog FM

Built-in Bluetooth ${ }^{\circledR}$, voice recording, active noise canceller functions

Optional OTAR (Over-the-Air-Rekeying) function for AES/DES

Optional OTAP
(Over-the-Air-Programming) function
IP55 jet water resistance and dust-protection

Optional detached controller, dual head or COMMANDMIC ${ }^{\text {TM }}$ configurations (IC-F5400D/IC-F6400D only)

II Encryption: DES (4-key, 64-key), AES*

* 4-key standard. 64-key DES requires UT-134.

AES requires UT-134 and ISL-AKAES


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


## I 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 ${ }^{\text {TM }}$ trunking (Depending on version)

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

## Security and Safety

- Encryption: DES (4-key, 64-key)*, AES
* 4-key standard. 64-key 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)
- Power OFF emergency
- Emergency key for emergency call
- Lone worker function


## 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 ringer beep
- Built-in Bluetooth ${ }^{\circledR}$ for wireless audio and data
- A third-party wireless Bluetooth ${ }^{\circledR}$ headset (for example, $3 \mathrm{M}^{\text {TM }}$ Peltor ${ }^{\text {TM }} \mathrm{WS}^{\text {TM }} 5$ series) can be used*
* Compatibility with third-party Bluetooth ${ }^{\circledR}$ headsets cannot be guaranteed.
- Wireless radio programming over Bluetooth ${ }^{\circledR}$
- USB connector for data transfer mode or card reader mode
- Built-in GPS with GPS position screen and auto log function*
* An optional GPS antenna UX-241 is required.
- Internal clock with time auto adjustment
- Programmable D-SUB connector for external PTT, channel, horn, PA/RX speaker, ignition switch and dimmer control
- Low voltage alert
- Optional detached controller, dual head controller or COMMANDMIC ${ }^{\text {TM }}$ configurations (IC-F5400D/IC-F6400D only)
- Intercom function between dual head controller or COMMANDMIC ${ }^{\text {TM }}$
- microSD card slot


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.
${ }^{* 3} 25 \mathrm{kHz}$ 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

Supplied accessories: (May differ depending on version)

- Hand microphone, HM-220 or HM-221
- Mounting bracket kit
- Microphone hanger


## ■ 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.


■ COMMANDMICTM 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: $1.9 \mathrm{~m} ; 6.2 \mathrm{ft}$ separation cable for $\mathrm{HM}-218$, COMMANDMIC.
OPC-2374: $8 \mathrm{~m} ; 26.2 \mathrm{ft}$ separation cable for HM-218, COMMANDMIC.


- EXTERNAL SPEAKERS

SP-30:External speaker. Cable length $2.6 \mathrm{~m} ; 8.5 \mathrm{ft}$.
SP-35: Compact external speaker. Cable length $2 \mathrm{~m} ; 6.6 \mathrm{ft}$.
SP-35L: Compact external speaker. Cable length $6 \mathrm{~m} ; 19.7 \mathrm{ft}$.


■ GPS ANTENNA
UX-241: External GPS antenna. Cable length $5 \mathrm{~m} ; 16.4 \mathrm{ft}$.

## - 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 $3 \mathrm{~m} ; 9.8 \mathrm{ft}$.
OPC-347: DC power cable. Cable length $7 \mathrm{~m} ; 23 \mathrm{ft}$.

UX-241

UT-134


■ 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 ${ }^{\text {™ }}$ Type-D trunking upgrade key.
ISL-UGMD3: dPMR ${ }^{\text {TM }}$ 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.


[^0]

 logo are trademarks of Icom Incorporated. LTR is a trademark of the E.F. Johnson Technologies, Inc. All other trademarks are the properties of their respective holders.
Icom Inc.
1-1-32, Kamiminami, Hirano-Ku, Osaka 547-0003, Japan Phone: +81 (06) 67935302 Fax: +81 (06) 67930013
www.icom.co.jp/world
Count on us!

Icom America Inc.
www.icomamerica.com

## Icom Canada

www.icomcanada.com

## Icom Brazil

E-mail: sales@icombrazil.com

Icom (Europe) GmbH www.icomeurope.com

Icom Spain S.L.
www.icomspain.com
Icom (UK) Ltd.
www.icomuk.co.uk
Icom France s.a.s.
www.icom-france.com

Icom (Australia) Pty. Ltd.
www.icom.net.au

Your local distributor/dealer:
Shanghai Icom Ltd.
www.bjicom.com


[^0]:    * Detached Controller, Dual head and COMMANDMIC contigurations are for IC-F5400D/IC-F6400D, F5400DP/F6400DP.

