NEW IDAS SERIES

LOOK SMART, WORK SMART

Photo includes optional RMK-5, HM-218, separation cables and antennas.
The IDAS digital radio system has two protocol choices, NXDN and dPMR. Both protocols are an open digital radio standards using 6.25 kHz FDMA narrowband technology. With this flexible choice, the IDAS radio system allows for interoperability with other manufactures equipment for seamless supply/replacement of existing NXDN and/or dPMR systems. And naturally these FDMA based protocols are a perfect match, when migrating an analog system to digital.

### System Scalability According to Communication Traffic and Coverage

Depending on communication traffic and coverage, the IDAS radio system can grow up to multi-site trunking from single site conventional to match your communication needs.

**Trunking** *(NXDN Type-C, Type-D or dPMR Mode 3)*

IDAS trunking can bind multiple channels and effectively share the limited number of channels with a large number of users.

* Licence key (ISL-UGMTR for NXDN Type-D or ISL-UGMD3 for dPMR Mode 3) required. Type-C trunking upgrade key will be available later.

**Multi-site connectivity**

Connect two or more repeater sites over the IP network and expand the communication coverage. The multi-site connectivity can be applied to both conventional and trunking modes.

**Voting scan**

When used in a multi-site conventional system, the IDAS radio searches an optimal repeater site and automatically selects the repeater. Useful for users moving over wide area.

### Mix Mode Operation

*(NXDN conventional or dPMR Mode 1/2)*

The IDAS radio can receive both analog and digital mode signals on a channel and can reply either in analog or digital mode according to the received mode. You can partially introduce the IDAS radios, while still using the existing analog radios in a system.

### Licence Upgrade / System Migration for Initial Cost Saving

**Licence Key Upgrade**

Necessary functions such as trunking capability, channel capacity, AES encryption and other functions can be added with licence key options. The IDAS radios can be upgraded and customised to meet your specific needs.

**Programming**

- Trunking capability
- AES encryption
- Channel capacity
**System / Radio Unit Management Efficiency**

**Over-the-Air-Programming (OTAP)**
The OTAP function allows you to distribute a radio configuration file over-the-air to update the IDAS radios. Save considerable time with no need to return the radio for reprogramming.

* Licence key (ISL-OTAPML) is required. The OTAP function for dPMR version will be available with the future firmware update.

**System Management Software, RS-MGR1/RS-MGR2**
(NXDN Type-D trunking and dPMR Mode 3)
The system management software remotely monitors multiple repeater conditions and traffic statistics over the IP network. If it detects abnormal conditions, the software can send an e-mail alert to the system administrator.

**System Configuration File (SCF) (dPMR Mode 3)**
Icom’s dPMR Mode 3 system server can export an SCF which includes common system parameters and the IDAS radio can import the SCF for further programming efficiency.

**RoIP Gateway, VE-PG3**
(NXDN conventional, Type-D trunking, dPMR Mode 2 and Mode 3*)
With a VE-PG3 RoIP gateway, the IDAS radio system can interconnect with an IP phone, analog phone, IP advanced radio system and analog radio as well as NXDN and dPMR protocols.

* The RoIP gateway for dPMR Mode 3 will be released in the future.

---

**Interoperability with Various System**

**True Narrowband: Reliable Communications for Half the Spectrum!**
6.25 kHz FDMA allows you to double the capacity of your valued spectrum. The choice of two independent 6.25 kHz in 12.5 kHz, or a standalone 6.25 kHz channel is yours. This double capacity/independent channel flexibility and efficiency is only possible with 6.25 kHz FDMA.

**Communications Reliability When You Most Need It**
No need to allow for TDMA time slot synchronization. Instant communications in emergencies and critical situations. FDMA is the fail safe mode of choice in land mobile radio. Nothing else compares.

**FDMA: Proven History Like No Other Radio Technology**
For over 50 years, FDMA has been the backbone of two-way radio communication. Generational enhancements have culminated in the realization of 6.25 kHz FDMA digital protocols that are literally ahead of their time, while keeping backward compatibility with analog FM.

**6.25 kHz Channels: the Current and Future Trend**
6.25 kHz channel plans and standards are used in North America, Europe, Japan, Oceania, and the list goes on. 6.25 kHz provides an answer to the worldwide problem of spectrum shortage and efficient use.

**6.25 kHz Fundamental Excellence**
Narrower bandwidth FDMA provides technical excellence in sensitivity, interference resistance, increased coverage, audio quality, spectrum efficiency and more. Why look at anything else?

---

**Why 6.25 kHz FDMA Narrowband?**

---

**Interoperability with Various System**

---

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(NXDN Type-D trunking and dPMR Mode 3)
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---

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(NXDN conventional, Type-D trunking, dPMR Mode 2 and Mode 3*)
With a VE-PG3 RoIP gateway, the IDAS radio system can interconnect with an IP phone, analog phone, IP advanced radio system and analog radio as well as NXDN and dPMR protocols.

* The RoIP gateway for dPMR Mode 3 will be released in the future.
**IDAS™ Radio Advantages Takes You To a New Level of “Smart”**

**Small, Slim and Smart**
The compact body is made possible from new engineering techniques including the use of a custom SoC (System-on-a-Chip) and flat sheet keypad. The slim dimensions are also supplemented with reduced power consumption, allowing for a thinner battery pack.

**IP68 Waterproof and Dust-tight (Handheld)**
The IDAS handheld radio is built durable to endure 1 m depth water for 1 hour and dust-tight protection. The radio also passes MIL-STD-810 specifications.

**Over-the-Air-Alias (OAA)**
The OAA function sends own alias name with a call to receivers and automatically shows the callers name on the receivers display. It eliminates the need to program the call list to each radio, when a new radio is entered or existing radio is passed to another person.

**Hands-Free Operation with Bluetooth Headset**
The built-in Bluetooth module provides remote operation and hands-free communication paired with a third-party headset.*

* Available functions depend on paired Bluetooth devices. Icom does not guarantee all functions and performance of the Bluetooth headset.

**Digital Voice Recording**
The IDAS radio can record incoming and outgoing calls, and the user can check recorded communications just in case. When a 32 GB microSD* card is used, a Max. 500 hours of recording is possible.

* A microSD card is required separately.

**Vibration Alert (Handheld)**
When a call is received, the IDAS radio vibrates powerfully enough for the incoming call to be felt through heavy clothing.

**Multiple Languages**
Functions and menu items can be programmed in a language other than English. Cyrillic and Simplified Chinese fonts are supported.
- Voice announcements can be replaced with customised messages
- Message of up to 100 characters
- Status message
- Low battery beep
- Normal, priority and voting scan
- Internal clock

**Active Noise C canceller**
The active noise canceller assists in providing clear audio, while suppressing background noise. The function improves both your transmitted voice and incoming call. The radio user does not need to shout into the microphone even under extremely noisy environments.

**Audio Equalizer Effect**
The audio equalizer allows you to tailor the audio tone to optimise voice quality in various use environments.
- 14-pin ACC connector with BTL amplifier output (handheld radio only)
- AquaQuake™ draining function clears water away from the speaker grill (handheld radio only)
- Audio compander
- Beat cancel

**Colour LCD and improved User Interface**
A high-resolution colour LCD and new user interface is adopted. The colour LCD enhances the visibility both in natural and indoor lighting, with the night mode LCD setting as an alternative for use in night time or low lighting conditions. Functions can be easily set by following easy to understand icons and menu items.

**AES/DES Encryption with Over-the-Air-Rekeying (OTAR)**
For digital communication security, the IDAS radio provides basic 4-key DES encryption as standard and can be upgraded to 64-key DES with the optional UT-134. When used with the optional UT-134 and licence key (ISL-AKAES), the AES encryption with the OTAR function are available. The OTAR function* allows updating of encryption keys over the radio channel.

* The OTAR function will be available with future firmware upgrade.

**Emergency Call by Man Down and Motion/Stationary Detection (Handheld)**
To remotely monitor worker safety, the IDAS handheld radio has four emergency related functions: motion detection, stationary detection, man down and lone worker functions. If one of these functions are activated, the radio automatically sends an emergency signal.

**Power OFF Emergency (Mobile)**
The Power OFF emergency sends an emergency signal even though the radio appears to be powered OFF.

**Radio Kill, Stun and Revive**
If a radio a lost or stolen, the radio kill function disables the radio over the air to reduce a security threat. When the radio Stun command is received, all functions will be temporarily locked out until a Revive command is received or the user password is entered.
- Remote monitor (NXDN) /Ambience listening (dPMR) functions
- Power ON Password
- Surveillance function
- Tactical group function for temporarily regroup of user groups

**Audio Quality**
The high-resolution colour LCD and new user interface is adopted. The colour LCD enhances the visibility both in natural and indoor lighting, with the night mode LCD setting as an alternative for use in night time or low lighting conditions. Functions can be easily set by following easy to understand icons and menu items.
**Transparent Data**

The IDAS radio can be used as a transparent data modem which transmits various data up to 3600 bps over the radio channel. The NXDN 12.5 kHz digital mode doubles the data speed.

**Built-in GPS Receiver**

The position data can be sent with voice call or status call and can be used with a third-party AVL (Automatic Vehicle Location) system. The GPS log function logs user position data at regular intervals.

* An optional GPS antenna UX-241 is required for mobile radios.

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**Multiple Controller Configurations**

**Detached Controller**

A detached controller head with the separate RF unit is a simple to install in almost any vehicle.

* Detached Controller, Dual Head and COMMANDMIC configurations are for IC-F5400D/IC-F6400D/F5400DP/IC-F6400DP only.

**Dual Head Controller**

Suitable for double cab vehicles. Install the controller head to front and rear seats respectively.

**COMMANDMIC™ and Detached Controller**

The COMMANDMIC is handy for installing a work platform on the rear part of the vehicle.

---

**USB Port for PC Connection**

The IDAS radio can be connected to a PC through a USB port for programming radios and accessing the installed microSD card in mass storage mode.

- Horn, dimmer and external PTT programmable through D-SUB 25-pin connector for mobile radio
- Serial communication interface with Bluetooth® for wireless connection
- Radio programming through a microSD card

---

**Data Communication**

**Operating type**

<table>
<thead>
<tr>
<th>IC-F3400DT/DS/D</th>
<th>IC-F3400DP/DPS/D</th>
<th>IC-F3400DP/DPS/D</th>
</tr>
</thead>
<tbody>
<tr>
<td>NXDN Single-site Conventional</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>NXDN Multi-site Conventional</td>
<td>Yes</td>
<td>N/A</td>
</tr>
<tr>
<td>NXDN Type-D trunking (Single/multi)</td>
<td>Option (ISL-UGMTR)</td>
<td>N/A</td>
</tr>
<tr>
<td>NXDN Type-C trunking (Single/multi)</td>
<td>Option*1</td>
<td>N/A</td>
</tr>
<tr>
<td>12.5 kHz digital mode</td>
<td>Yes</td>
<td>N/A</td>
</tr>
<tr>
<td>dPMR Mode 1/2 conventional</td>
<td>N/A</td>
<td>Yes</td>
</tr>
<tr>
<td>dPMR Mode 3 trunking</td>
<td>N/A</td>
<td>Option (ISL-UGMD3)</td>
</tr>
<tr>
<td>Analog mode</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Analog/Digital mix mode</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Digital functions**

- OTAP (Over-the-Air Programming) | Option (ISL-OTAPML) | Option*1 |
- OAM (Over-the-Air Alias) | Yes | Yes |
- Transparent data mode | Yes | Yes |
- Status message | Yes | Yes |
- Short data message | Yes | Yes |
- Radio Turn/Repeat/Kill | Yes | Yes |
- Remote monitor/Ambience listening | Yes | Yes |

**Scan functions**

<table>
<thead>
<tr>
<th>IC-F3400DT/DS/D</th>
<th>IC-F3400DP/DPS/D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Priority scan</td>
<td>Yes</td>
</tr>
<tr>
<td>Voting scan</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Emergency functions**

<table>
<thead>
<tr>
<th>IC-F3400DT/DS/D</th>
<th>IC-F3400DP/DPS/D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lone worker function</td>
<td>Yes</td>
</tr>
<tr>
<td>Man down function</td>
<td>Yes (For handheld)</td>
</tr>
<tr>
<td>Motion/Stationary detection</td>
<td>Yes (For handheld)</td>
</tr>
<tr>
<td>Power OFF emergency</td>
<td>Yes (For mobile)</td>
</tr>
</tbody>
</table>

**Voice/Audio functions**

- Voice announcement | Yes | Yes |
- VOX function | Yes | Yes |
- Voice recordings/playback | Yes | Yes |
- Active noise canceller | Yes | Yes |
- T/RX Audio equalizer | Yes | Yes |
- Mute | Yes | Yes |

**Hardware**

- GPS receiver | Yes*2 | Yes*2 |
- Vibration alert | Yes (For handheld) | Yes (For handheld) |
- Bluetooth® | Yes | Yes |
- microSD memory card slot | Yes | Yes |
- USB connector | Yes | Yes |

**Scan functions**

- Priority scan | Yes | Yes |
- Voting scan | Yes | Yes |

**Emergency functions**

- Lone worker function | Yes | Yes |
- Man down function | Yes (For handheld) | Yes (For handheld) |
- Motion/Stationary detection | Yes (For handheld) | Yes (For handheld) |
- Power OFF emergency | Yes (For mobile) | Yes (For mobile) |

**Voice/Audio functions**

- Voice announcement | Yes | Yes |
- VOX function | Yes | Yes |
- Voice recordings/playback | Yes | Yes |
- Active noise canceller | Yes | Yes |
- T/RX Audio equalizer | Yes | Yes |
- Mute | Yes | Yes |

**Hardware**

- GPS receiver | Yes*2 | Yes*2 |
- Vibration alert | Yes (For handheld) | Yes (For handheld) |
- Bluetooth® | Yes | Yes |
- microSD memory card slot | Yes | Yes |
- USB connector | Yes | Yes |

**Scan functions**

- Priority scan | Yes | Yes |
- Voting scan | Yes | Yes |

**Emergency functions**

- Lone worker function | Yes | Yes |
- Man down function | Yes (For handheld) | Yes (For handheld) |
- Motion/Stationary detection | Yes (For handheld) | Yes (For handheld) |
- Power OFF emergency | Yes (For mobile) | Yes (For mobile) |

**Voice/Audio functions**

- Voice announcement | Yes | Yes |
- VOX function | Yes | Yes |
- Voice recordings/playback | Yes | Yes |
- Active noise canceller | Yes | Yes |
- T/RX Audio equalizer | Yes | Yes |
- Mute | Yes | Yes |

**Hardware**

- GPS receiver | Yes*2 | Yes*2 |
- Vibration alert | Yes (For handheld) | Yes (For handheld) |
- Bluetooth® | Yes | Yes |
- microSD memory card slot | Yes | Yes |
- USB connector | Yes | Yes |

**Scan functions**

- Priority scan | Yes | Yes |
- Voting scan | Yes | Yes |

**Emergency functions**

- Lone worker function | Yes | Yes |
- Man down function | Yes (For handheld) | Yes (For handheld) |
- Motion/Stationary detection | Yes (For handheld) | Yes (For handheld) |
- Power OFF emergency | Yes (For mobile) | Yes (For mobile) |

**Voice/Audio functions**

- Voice announcement | Yes | Yes |
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- Voice recordings/playback | Yes | Yes |
- Active noise canceller | Yes | Yes |
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- Mute | Yes | Yes |

**Hardware**

- GPS receiver | Yes*2 | Yes*2 |
- Vibration alert | Yes (For handheld) | Yes (For handheld) |
- Bluetooth® | Yes | Yes |
- microSD memory card slot | Yes | Yes |
- USB connector | Yes | Yes |

**Scan functions**

- Priority scan | Yes | Yes |
- Voting scan | Yes | Yes |

**Emergency functions**

- Lone worker function | Yes | Yes |
- Man down function | Yes (For handheld) | Yes (For handheld) |
- Motion/Stationary detection | Yes (For handheld) | Yes (For handheld) |
- Power OFF emergency | Yes (For mobile) | Yes (For mobile) |

**Voice/Audio functions**

- Voice announcement | Yes | Yes |
- VOX function | Yes | Yes |
- Voice recordings/playback | Yes | Yes |
- Active noise canceller | Yes | Yes |
- T/RX Audio equalizer | Yes | Yes |
- Mute | Yes | Yes |

**Hardware**

- GPS receiver | Yes*2 | Yes*2 |
- Vibration alert | Yes (For handheld) | Yes (For handheld) |
- Bluetooth® | Yes | Yes |
- microSD memory card slot | Yes | Yes |
- USB connector | Yes | Yes |

**Scan functions**

- Priority scan | Yes | Yes |
- Voting scan | Yes | Yes |

**Emergency functions**

- Lone worker function | Yes | Yes |
- Man down function | Yes (For handheld) | Yes (For handheld) |
- Motion/Stationary detection | Yes (For handheld) | Yes (For handheld) |
- Power OFF emergency | Yes (For mobile) | Yes (For mobile) |

**Voice/Audio functions**

- Voice announcement | Yes | Yes |
- VOX function | Yes | Yes |
- Voice recordings/playback | Yes | Yes |
- Active noise canceller | Yes | Yes |
- T/RX Audio equalizer | Yes | Yes |
- Mute | Yes | Yes |

**Hardware**

- GPS receiver | Yes*2 | Yes*2 |
- Vibration alert | Yes (For handheld) | Yes (For handheld) |
- Bluetooth® | Yes | Yes |
- microSD memory card slot | Yes | Yes |
- USB connector | Yes | Yes |

---

**Data Communication**

**USB Port for PC Connection**

The IDAS radio can be connected to a PC through a USB port for programming radios and accessing the installed microSD card in mass storage mode.

- Horn, dimmer and external PTT programmable through D-SUB 25-pin connector for mobile radio
- Serial communication interface with Bluetooth® for wireless connection
- Radio programming through a microSD card

---

**Multiple Controller Configurations**

**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.
## Products Lineup

### Handheld Radios

**Top view**

![IC-F3400DT](image)

**VHF DIGITAL TRANSCEIVERS (NXDN Version)**

**IC-F3400DT/DS/D**

![IC-F3402DS](image)

**UHF DIGITAL TRANSCEIVERS (NXDN Version)**

**IC-F4400DT/DS/D**

![IC-F3400D](image)

**VHF DIGITAL TRANSCEIVERS (dPMR Version)**

**IC-F3400DPT/DPS/DP**

![IC-F3400D](image)

**UHF DIGITAL TRANSCEIVERS (dPMR Version)**

**IC-F4400DPT/DPS/DP**

![IC-F5400D](image)

**Mobile Radios**

![IC-F5400D](image)

**VHF DIGITAL TRANSCEIVERS (NXDN Version)**

**IC-F5400D/DS**

![IC-F5400D](image)

**VHF DIGITAL TRANSCEIVERS (dPMR Version)**

**IC-F5400DP/DPS**

![IC-F5400D](image)

**UHF DIGITAL TRANSCEIVERS (NXDN Version)**

**IC-F6400D/DS**

![IC-F5400D](image)

**UHF DIGITAL TRANSCEIVERS (dPMR Version)**

**IC-F6400DP/DPS**

![IC-F5400D](image)

**Commandmic™**

**IC-F5400D**

**REMOTE CONTROL MICROPHONE**

**HM-218**
**Handheld Radios Options**

- **Battery Packs**
  - BP-283: Rechargeable Li-ion, 2010 mAh (typ.), 1910 mAh (min.), 10 hours (Approx.).
  - BP-284: Rechargeable Li-ion, 3350 mAh (typ.), 3120 mAh (min.), 16 hours (Approx.).

- **Intelligent Charger**
  - BC-123S**: Charges the BP-283/BP-284 in 3/4.5 hours (approx.), respectively.

- **Rapid Charger**
  - BC-123**: Charges the BP-283/BP-284 in 3/4.5 hours (approx.) respectively.

- **Multicharger**
  - BC-214: Charges up to six BP-283/BP-284 battery packs in 3/4.5 hours (approx.) respectively.

- **Cigarette Lighter Cable & Power Supply Cables**
  - CP-23L: For use with BC-219
  - OPC-515L: For use with BC-219
  - OPC-656: For use with BC-219

- **Leather Belt Hangers**
  - MB-96N
  - MB-96F
  - MB-96FL

- **Carrying Cases**
  - LC-184
  - LC-186

- **Antennas**
  - FA-S51Y: 136–150 MHz
  - FA-S52V: 148–162 MHz
  - FA-S53V: 160–174 MHz
  - FA-S811U: 380–430 MHz
  - FA-S821U: 430–480 MHz
  - FA-S835U: 470–520 MHz

- **Cut Antennas**
  - FA-S567VC: 136–174 MHz
  - FA-S576UVC: 380–520 MHz

- **Leather Belt Hangers**
  - MB-133: Alligator type
  - MB-136: Beltpack type

**Mobile Radios Options**

- **Hand Microphones**
  - HM-220: Heavy duty microphone
  - HM-220T: Heavy duty microphone with DTMF keypad
  - HM-221: DTMF microphone
  - HM-221T: DTMF microphone

- **CommandMic™**
  - OPC-2373: Earhook type
  - OPC-2374: Behind-the-head type

- **Headsets and PTT Switch Cable**
  - OPC-1870: Handheld to mobile cable
  - OPC-2362: Handheld to mobile cable

- **Zone Copy Cables**
  - OPC-2364: For RMK-5 or RMK-7
  - OPC-2365: For RMK-5 or RMK-7
  - OPC-2366: For RMK-5 or RMK-7
  - OPC-2367: For RMK-5 or RMK-7

- **Separation Cables**
  - OPC-2368: For RMK-5, COMMANDMIC
  - OPC-2370: For RMK-5, COMMANDMIC
  - OPC-2371: For RMK-5, COMMANDMIC

- **AES/DES Encryption Unit**
  - OPC-1870: Handheld to mobile cable
  - OPC-2362: Handheld to mobile cable

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

<table>
<thead>
<tr>
<th>IC-F3400DT/DSD/D</th>
<th>IC-F4400DT/DSD/D</th>
<th>IC-F5400DT/DSD/D</th>
<th>IC-F6400DT/DSD/D</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NXdN Version</strong></td>
<td><strong>NXdN Version</strong></td>
<td><strong>NXdN Version</strong></td>
<td><strong>NXdN Version</strong></td>
</tr>
<tr>
<td>Frequency coverage (NXdN)</td>
<td>136–174 MHz</td>
<td>380–470 MHz</td>
<td>450–512 MHz</td>
</tr>
<tr>
<td>Frequency coverage (NXdP)</td>
<td>136–174 MHz</td>
<td>380–470 MHz</td>
<td>450–512 MHz</td>
</tr>
<tr>
<td><strong>Number of channels</strong></td>
<td>1024 channels / 128 zones</td>
<td>4000 channels / 128 zones (Option)*2</td>
<td>4000 channels / 128 zones (Option)*2</td>
</tr>
<tr>
<td><strong>Type of emission (NXdN)</strong></td>
<td>15K0F3E**, 14K0F3E, 13K0F3E, 11K0F3E</td>
<td>8K50F3E, 8K50F3E, 4K0F0E1/D</td>
<td>16K0F3E**, 14K0F3E, 8K50F3E, 4K0F0E1/D</td>
</tr>
<tr>
<td><strong>Type of emission (NXdP)</strong></td>
<td>15K0F3E**, 14K0F3E, 13K0F3E, 11K0F3E</td>
<td>8K50F3E, 8K50F3E, 4K0F0E1/D</td>
<td>16K0F3E**, 14K0F3E, 8K50F3E, 4K0F0E1/D</td>
</tr>
</tbody>
</table>

#### Receiver

<table>
<thead>
<tr>
<th>Measurement</th>
<th>IC-F3400DT/DS/D</th>
<th>IC-F4400DT/DS/D</th>
<th>IC-F5400DT/DS/D</th>
<th>IC-F6400DT/DS/D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spurious emissions</td>
<td>USA</td>
<td>EUR</td>
<td>USA</td>
<td>EUR</td>
</tr>
<tr>
<td></td>
<td></td>
<td>80 dB typ.</td>
<td></td>
<td>90 dB typ.</td>
</tr>
<tr>
<td></td>
<td>0.25 μV (± 1 GHz)</td>
<td>1.0 μV (± 1 GHz)</td>
<td></td>
<td>1.0 μV (± 1 GHz)</td>
</tr>
<tr>
<td>FM Hum and noise (mV/s)</td>
<td>55/65 dB typ.</td>
<td>60/69 dB typ.</td>
<td></td>
<td>54/64 dB typ.</td>
</tr>
</tbody>
</table>

#### Audio harmonic distortion

<table>
<thead>
<tr>
<th>AF 1kHz 40% deviation</th>
<th>0.5% typ.</th>
<th>0.4% typ.</th>
<th>0.5% typ.</th>
<th>0.5% typ.</th>
</tr>
</thead>
</table>

#### FSK error

<table>
<thead>
<tr>
<th>1% typ. (DN/DV/N)</th>
<th>1% typ. (DN/DV/N)</th>
<th>1% typ. (DN/DV/N)</th>
<th>1% typ. (DN/DV/N)</th>
</tr>
</thead>
</table>

#### Interference rejection

<table>
<thead>
<tr>
<th>INTERMODULATION USA</th>
<th>EUR</th>
<th>USA</th>
<th>EUR</th>
</tr>
</thead>
<tbody>
<tr>
<td>75 dB typ.</td>
<td>74 dB typ.</td>
<td>78 dB typ.</td>
<td>68 dB typ.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>REJECTION USA</th>
<th>EUR</th>
<th>USA</th>
<th>EUR</th>
</tr>
</thead>
<tbody>
<tr>
<td>72 dB typ./41 dBm</td>
<td>73 dB typ./41 dBm</td>
<td>70/70 dB typ.</td>
<td>70/70 dB typ.</td>
</tr>
</tbody>
</table>

The Power feature is subject to change depending on version. 

#### Spurious response rejection

<table>
<thead>
<tr>
<th>81 dB typ.</th>
<th>85 dB typ.</th>
<th>85 dB typ.</th>
<th>85 dB typ.</th>
</tr>
</thead>
</table>

#### Audio output power

<table>
<thead>
<tr>
<th>Internal SP (With 8Ω)</th>
<th>800 mW typ. (at 5% distortion)</th>
<th>4.0 W typ. (at 5% distortion)</th>
</tr>
</thead>
<tbody>
<tr>
<td>External SP (With 8Ω)</td>
<td>1000 mW typ. (at 5% distortion)</td>
<td>4.0 W typ. (at 5% distortion)</td>
</tr>
</tbody>
</table>

#### Ingress Protection Standard

<table>
<thead>
<tr>
<th>IC-F3400DT/DSD series</th>
<th>IP68 (Dust-tight and waterproof protection)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IC-F4400DT/DSD series</td>
<td>IP65 (Dust-protection and air-water resistant)</td>
</tr>
</tbody>
</table>

#### Supplied accessories for handheld radios

- Battery pack, BP-283 + Belt clip, MB-133

#### Supplied accessories for mobile radios

- Hand microphone, HM-320 or HM-321
- DC power cable
- Mounting bracket kit
- Microphone hanger

#### Some functions and options will be available in the future. Use of these products are dependent on local regulations.

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