# ICOM



TWO WAY RADIOS UK
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### IC-F3400/F4400D Digital Handheld Radio Series, New!

The IC-F3400/F4400D is the evolution in Icom's two way digital business handportable range. This new radio series incorporates cutting edge design, superb performance and a comprehensive range of features including built-in GPS and Bluetooth, 'Active Noise Cancelling' technology, digital voice playback and an USB port for easy programming and data transfer. Available in three versions for VHF and UHF each radio features a high-resolution colour LCD in a compact, waterproof body.

A flexible communication solution, suitable for any organisation's needs!

### **MAJOR SELLING POINTS**

- ☐ High Resolution Colour LCD
- ☐ ANC (Active Noise Cancelling) Technology
- ☐ Digital Voice Recording (SD Card Slot)
- ☐ Built in GPS Receiver (with log and location function)
- ☐ Small, Slim, Compact Body
- □ IP68 Waterproof/Dustproof with AquaQuake<sup>™</sup> Function
- Motion/Stationary Detection Sensors
- **□** Built-in Bluetooth®
- ☐ Trunking Upgrade
- **□** Vibration Alert
- □ OTAP (Over-the-Air-Programming) and OAA (Over-the-Air-Alias)
- **□** DES/AES Encryption with OTAR
- □ Transparent Data Modem Facility
- **□** USB Port for PC Connection



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# Product Information



#### **FEATURES**

#### ☐ IC-F3400/F4400D, 6 versions available

The IC-F3400/F4400D series is available in VHF and UHF in three different formats to suit different customer requirements.

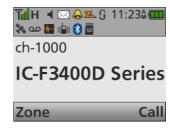
#### They are:

- No display IC-F3400D (VHF) /IC-F4400D (UHF)
- Display with simple keypad IC-F3400DS (VHF) /IC-F4400DS (UHF)
- Display with full numeric keypad IC-F3400DT (VHF) /IC-F4400DT (UHF)



#### ☐ High-Resolution Colour LCD

The high-resolution trans-reflective colour LCD provides great visibility in both natural and indoor lighting. Functions and menu items are clear. A night mode LCD setting is available for use at night or in low lighting conditions.



### ☐ ANC (Active Noise Cancelling) Technology

The ANC assists in providing clear communication, cancelling out undesired background noise.

#### ■ Digital Voice Recording

IC-F3400/F4400D series can record incoming and outgoing communications, and replay recorded communications. When a 32 GB microSD\* card is used, a maximum of 500 recording hours is possible. The recorded audio is saved in "wav" format, allowing it to be replayed on the radio or a PC.

\* MicroSD card is required separately.



#### ☐ Built in GPS Receiver

Position data can be sent with 'voice call' or 'status call' and can also be used with an AVL (Automatic Vehicle Location) system. The GPS log functions logs user position data at regular intervals and can be saved to a microSD card. The radios can show direction and distance to another radio or specified point and can notify you with a beep sound if the target is in the specified range.

#### ☐ Small, Slim, Compact Body

New engineering techniques including the use of a custom SoC (System-on-a-Chip) and flat sheet keypad have made the radio's body as compact as possible. The slim dimensions together with reduced power consumption, allow for a thinner battery pack.



# Product Information



#### ☐ IP68 Waterproof, Dustproof with AquaQuake™ Function

The handheld radios in this range are IP68 waterproof and dust-tight protection (Im depth for I hour). They also incorporate an AquaQuake draining function which dispels water by emitting a vibrating buzz sound.

#### ■ Motion/Stationary Detection Sensors

An emergency button and five emergency-related functions are incorporated (man down, motion detection, stationary detection, lone worker and power OFF emergency functions). The motion/ stationary sensor sensitivity level is programmable in 10 levels for each function.

#### ☐ Built-in Bluetooth®

The built-in Bluetooth module provides remote operation and hands-free communication when paired with a third-party Bluetooth headset\*. When connected with Bluetooth telemetric devices or PC terminals, data files can be wirelessly transferred.

\* Available functions depend on paired Bluetooth devices.

#### ☐ Trunking Upgrade\*

The IC-F3400D series is compatible with IDAS digital conventional mode and analogue FM mode with auto sensing function. The radios can be upgraded to NXDN Type-D multi-site trunking mode with a license key.

\* Requires licence key upgrade

#### **□** Vibration Alert

When a call from a specific user is received, the handheld radio will vibrate enough to be felt through heavy clothing. Vibration patterns are programmable.

#### **☐** Voice Announcement

The radios can notify channel number, zone and channel type with a voice announcement. This function is convenient for making radio adjustments without having to look at the radio.

#### ☐ OTAP and OAA\*

For efficient radio programming, the OTAP (Over-the-Air-Programming) function allows remote change of programming data (for example adding a new repeater) over the radio channel. The OAA (Over-the-Air-Alias) function sends user name over the radio channel and eliminates the need to program the alias table.

\* Requires licence key upgrade

### ☐ DES/AES Encryption with OTAR\*

For added digital communication security, the radios provide basic 4-key DES encryption as standard. When used with the optional UT-134 encryption unit the 256-bit AES encryption and OTAR function are available. The OTAR function allows updating of encryption keys over the radio channel.

\* Requires licence key upgrade

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### Product Information



#### ☐ Transparent Data Modem Facility

The radios can be used as a transparent data modem and can transmit various data at 9600 bps over the radio channel using 12.5 kHz channel spacing.

#### ☐ License Key Upgrade

The radios functions and protocols can be upgraded and customised to meet specific needs with various license key options.

#### **□** USB Port for PC Connection

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

#### ■ Audio Equalizer

The Audio equalizer allows you to tailor the audio tone to suit speech characteristics. Five types of tone controls are available (flat, high boost, middle boost, low boost and low cut). The audio auto gain control function controls the speech audio to a constant, regardless of the input magnitudes of the voice or distance of the microphone from the mouth.

#### ■ Multiple Languages

Functions and menu items can be shown in local languages including English, French, German, Spanish, Russian and Simplified Chinese fonts. In addition, voice announcements can be recorded and changed for output in these languages.

#### ☐ General Features

- 136–174 MHz, 380–470 MHz wide frequency coverage
- 1024 memory channels with 128 zones
- 32 memory channels (IC-F3400D series only)
- MIL-STD rugged construction
- 14-pin ACC connector with BTL amplifier output
- VOX (Voice Operated transmission) function
- Internal clock

- High-speed scanning for voting and multi-site operation
- Tactical group function for temporary regroup user groups with optional zone copy cable
- Normal, priority and voting scan

#### **□** IDAS™ Features

- IDAS conventional and multi-site conventional
- Type-D single-site trunking and multisite trunking\*
- 6.25 kHz & 12.5 kHz channel spacing
- Analogue/Digital conventional mixed mode operation
- Status
- Text message
- Call alert

- Radio check
- Radio Stun/Revive/Kill
- Remote monitor

### ☐ Analogue FM Mode Features

- 5-tone, CTCSS and DTCS built-in
- DTMF autodial and DTMF decode
- Audio compander
- Inversion voice scrambler

<sup>\*</sup> Type-D multi-site trunking is a license key upgrade option.



## Product Information



IC-F3400/F4400D DIGITAL HANDHELD SERIES Supplied with BP-283 Battery pack and MB-133 Belt clip					
Product	Trade	List (ex.VAT)			
IC-F3400D VHF (no display)	299.00	427.14			
IC-F3400DS VHF (display with simple keypad)	329.00	470.00			
IC-F3400DT VHF (display with full numeric keypad)	349.00	499.00			
IC-F4400D UHF (no display)	299.00	427.14			
IC-F4400DS UHF (display with simple keypad)	329.00	470.00			
IC-F4400DT UHF (display with full numeric keypad)	349.00	499.00			



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Product	Description	Trade	List	VAT
Batteries & Charg				
AD-132	Charger Adapter for BP-283/BP-284. AD-132 charger adapter is supplied with the BC-214, depending on BC-214's version.	9.80	14.00	16.80
BC-214	Multi-Charger with BC-157S. Charges up to six BP-283/BP-284 battery packs in 3/4.5 hours (approx.) respectively	261.80	374.00	448.80
BC-219	Rapid Charger with BC-123SE*1 Charges the BP-283/BP-284 in 3/4.5 hours (approx.) respectively.	21.00	30.00	36.00
BP-283	Li-ion battery pack - 7.2V (2010mAh (typ.) 1910mAh (min.)) 10 hours (Approx.)	45.50	65.00	78.00
BP-284	Li-ion battery pack 7.2V (3210mAh (typ.) 3070mAh (min.)) 16 hours (Approx.)	84.00	120.00	144.00
Antenna				
FA-S67VC	Cut antenna 136–174MHz	14.00	20.00	24.00
FA-S76UC	Cut antenna 380-520MHz	14.00	20.00	24.00
FA-S82U	Antenna 430–480MHz	14.00	20.00	24.00
FA-S82US	Stubby antenna 450–490MHz	14.00	20.00	24.00
FA-S83V	Antenna 160–174MHz	14.00	20.00	24.00
FA-S83VS	Stubby antenna 160–174MHz	14.00	20.00	24.00
Headsets				
HS-94	Ear-hook type headset	12.60	18.00	21.60
HS-95	Behind-the-head type headset	84.00	120.00	144.00
HS-97	Throat type headset	18.90	27.00	32.40
VS-4MC	PTT Switch Cable (Required when using any of the headsets listed above)	56.00	80.00	96.00
Microphones				
HM-222	Speaker Microphone	56.00	80.00	96.00
Software and cab	····			
OPC-1870	Zone Copy Cable. Handheld to handheld cable	35.00	50.00	60.00
OPC-2362	Zone Copy Cable. Handheld to mobile cable	35.00	50.00	60.00
OPC-515L	Power Supply Cable. For use with BC-219	7.00	10.00	12.00
OPC-656	Power Supply Cable. For use with BC-214	7.00	10.00	12.00



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Belt Clips							
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MB-136	Leather Belt Hanger. Swivel Type	7.00	10.00	12.00			
MB-96F	Leather Belt Hanger (use with MB-94)	12.60	18.00	21.60			
MB-96FL	Leather Belt Hanger	12.60	18.00	21.60			
MB-96N	Swivel leather belt hanger (use with MB-94)	12.60	18.00	21.60			
Other Accessories							
AD-118	ACC adapter. For use with Hirose Plug Accessory	31.50	45.00	54.00			
CP-23L	Cigarette Lighter Cable (For use with BC-219)	12.60	18.00	21.60			
LC-184	Leather Case (For IC-F3400DT/DS, IC-F4400DT/DS)	23.80	34.00	40.80			
LC-186	Leather Case (For use with IC-F3400D, IC-F4400D)	21.00	30.00	36.00			
MB-133	Belt Clip. Alligator Type (std)	7.00	10.00	12.00			
Programming/ Licen	ce Key Upgrade/ Encryption						
CSAITAES	IDAS AES Activation Key (use with UT-134)	136.50	195.00	23.400			
CSF3400D	Programming software for the IC-F3400D series	50.00	50.00	60.00			
CSKLDI.001	IDAS Encryption Key Loader Software	147.00	210.00	252.00			
CSOTPMI.001	IDAS Over-The-Air Programming Manager	161.00	230.00	276.00			
CSUGMTR.001	IDAS NXDN Trunking Upgrade Key	58.10	83.00	99.60			
UT-134	AES/DES Encryption Unit (requires CS-AKAES)	77.00	110.00	132.00			

