



VHF AND UHF DIGITAL/ANALOG TRANSCEIVERS

**IC-F3261DT**

VHF transceiver with full keypad

**IC-F4261DT**

UHF transceiver with full keypad

**IC-F3261DS**

VHF transceiver with simple keypad

**IC-F4261DS**

UHF transceiver with simple keypad

# **Fully Featured IDAS™ Digital Handheld with Built-in GPS and Waterproof Protection**

**IDAS™**  
ICOM DIGITAL ADVANCED SYSTEM

**Built-in GPS Receiver\***

**Man Down Function\***

**IP67 Waterproof Protection**

**800 mW Audio Output Power**

**IDAS™ NXDN™ Features**

**512 Memory Channels  
with 128 Zones**

(\* Depending on version)





# IDAS™ : Better, Improved & Enhanced

## IP67 Dust-tight & Waterproof Protection



The IC-F3261D series provides rugged protection against dust and water that is equivalent to IP67. The radio can withstand 1m depth of water for 30 minutes.

## Man Down and Lone Worker Functions for Emergency Call

The man down function\* automatically sends an emergency signal when the transceiver is left in a horizontal position. The lone worker function also can transmit an emergency signal when the radio is not operated for a preset period. These emergency signals can be sent with GPS position data\* to alert your co-workers or dispatcher to any potential trouble.

\* Depending on version.

## 800 mW (typ.) Audio Output Power



The built-in BTL amplifier doubles the audio output power and the large 40 mm speaker delivers loud 800 mW (typ.) audio to receive all calls under noisy environments.



IC-F3261DT  
(Full keypad)

IC-F4261DS  
(Simple keypad)

## IDAS™ Features

The IC-F3261D series provides NXDN™ CAI-based IDAS digital mode operation. It is also compatible with NXDN™ Type-D multi-site trunking. The following IDAS features are programmable.

- Individual/group call
- Individual ID and talkgroup ID memories
- Status message • SDM (Short Data Message)
- GPS • Stun, kill and revive
- Radio check • Remote monitor
- Call alert • Call log
- Emergency • Digital voice scrambler
- Block decode • RAN (Radio Access Number)

## Built-in 2-Tone and 5-Tone\*

2-Tone and 5-Tone signalings give you selective calling, quiet stand-by and other convenient functions. The radio stun and kill functions disable a radio over the air and the revive function restores the stunned radio.

## MDC 1200 Compatible\*

The built-in MDC signaling provides the following selective calling and ANI features.

- PTT ID • SelCall • Radio check
- Radio stun/revive • 500 aliases
- Status message/request • Call alert
- Emergency, emergency mic monitoring

## Scan Features

The IC-F3261D series can detect both analog and IDAS conventional signals and automatically selects the transmission mode to reply to the received call.

## Built-in Voice Scrambler

The built-in inversion voice scrambler\* provides secure conversation in analog mode. When using IDAS digital mode, the digital voice scrambler provides a 15-bit key (about 32,000 codes) as standard.

\* Inversion voice scrambler is not compatible with UT-109R/UT-110R voice scrambler.





### Built-in GPS Receiver\*

Your current position data can be attached to a voice or data (SDM, status or emergency signal) transmission and can be sent to dispatch stations\*.



\* Depending on version. \* To show the received position data, an external PC application is required.

### 14-pin Accessory Connector

The new 14-pin accessory connector enhances audio output capabilities with the built-in BTL amplifier. The optional HM-184/H speaker-microphone provides a 1000 mW (typ.) audio output for loud and clear communication.



### Large Full Dot-matrix LCD

Using a large full dot-matrix LCD (32 x 18 mm), the IC-F3261D series shows two lines of easy to read text messages. The bottom row shows assigned functions to the [P0] to [P3] buttons.

### Long Lasting Battery Life

GPS type	Digital mode	Analog mode
Built-in GPS type	10.5 hours (approx.)	11 hours (approx.)
Non GPS type	12 hours (approx.)	12.5 hours (approx.)

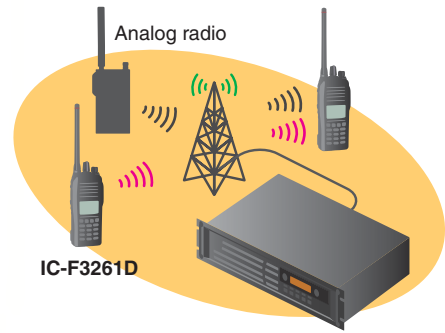
\* Typical operation in 5:5:90 duty cycle, power save on.

### Other Features

- 512 memory channels with 128 zones
  - 5 W output power both in VHF and UHF
  - Basic LTR™ mode operation\*
  - CTCSS/DTCS encoder/decoder\*
  - MIL-STD 810 G rugged construction
  - 8 DTMF autodial memories
  - Tactical group function
  - Busy channel lockout, repeater lockout
  - Power on password
  - Time-out timer • Talk around function
  - Low battery alert • Escalating alarm
  - Surveillance function
- (\* = Analog mode only)

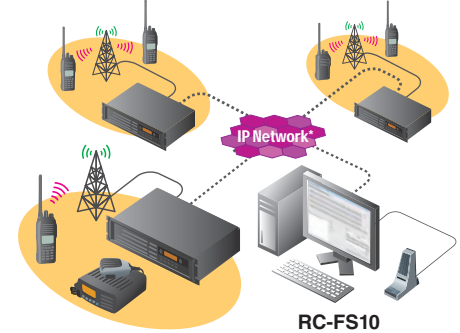
## IDAS™ expands coverage and capacity

### Conventional



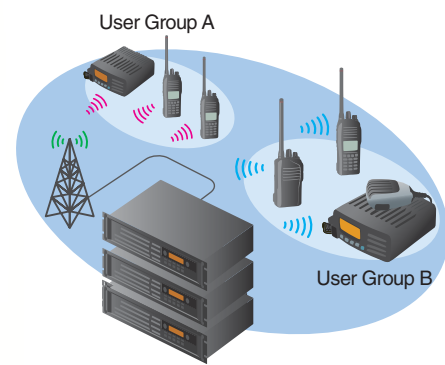
- 6.25 kHz digital migration
- Digital/analog mixed mode operation

### Multi-site Conventional



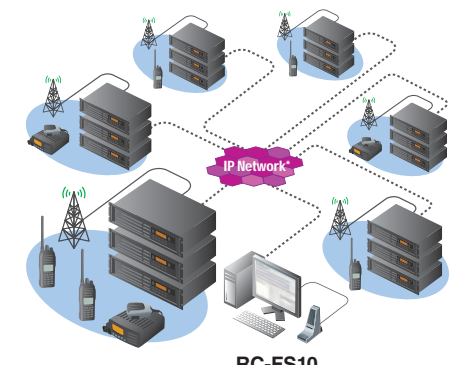
- Up to 16 IDAS repeater sites connection over an IP network.
- RC-FS10, PC dispatch station

### Type-D Single Site Trunking



- Distributed channel system which does not use a dedicated control channel
- Up to 30 channels per system
- Up to 2,000 individual IDs and up to 2,000 group IDs

### Type-D Multi-site Trunking



- Distributed channel system
- Up to 30 channels per site and up to 48 sites connection over an IP network
- Up to 60,000 individual IDs and 60,000 group IDs with fleet management
- Automatic site roaming
- ESN authentication
- RC-FS10 PC dispatch

All advantages shown represent possible system configurations. Ask your Icom dealer to configure an IDAS system that works best for you. \*Note: Private IP Network or VPN Tunnels through the Internet with static endpoints.

VHF DIGITAL/ANALOG TRANSCEIVERS

**IC-F3261DT**  
**IC-F3261DS**

UHF DIGITAL/ANALOG TRANSCEIVERS

**IC-F4261DT**  
**IC-F4261DS**

## SPECIFICATIONS

	IC-F3261DT/DS	IC-F4261DT/DS
<b>GENERAL</b>		
Frequency coverage	136–174 MHz	400–470 MHz 450–512 MHz
Number of channels	512 channels/128 zones	
Type of emission	11K0F3E/4K00F1E/F1D	
Channel spacing	12.5/6.25 kHz	
Power supply requirement	7.5 V DC nominal	
Current drain (approx.)		
Tx High (at 5 W)	1.7 A	1.8 A
Rx Rated output/Standby	550 mA/160 mA	550 mA/160 mA
Antenna impedance	50 Ω	
Operating temperature range	–30 °C to +60 °C; –22 °F to +140 °F (Radio specifications)	
Dimensions (W × H × D)	53.5 × 142.7 × 39.5 mm; 2.1 × 5.6 × 1.6 in (Projections not included)	
Weight (approx.)	400 g; 14.1 oz (With BP-232WP, MB-94R & FA-SC57U)	
<b>TRANSMITTER</b>		
Output power (at 7.5 V DC)	5 W, 2 W, 1 W (Hi, L2, L1)	
Max. frequency deviation	±2.5 kHz (Narrow)	
Frequency stability	±1.0 ppm	
Spurious emissions	78 dB typ.	
FM Hum and noise	43 dB typ. (Narrow)	40 dB typ. (Narrow)
Audio harmonic distortion	1.5% typ. (AF 1 kHz 40% deviation)	
FSK error	2.0% typ.	
Ext. microphone connector	14-pin multi-connector/2.2 kΩ	
<b>RECEIVER</b>		
Sensitivity (Analog)	0.23 μV typ. (at 12 dB SINAD)	
(Digital)	0.20 μV typ. (at 5% BER)	
Adjacent channel selectivity	68/60 dB typ. (Narrow, digital)	
Spurious response rejection	76 dB typ.	
Intermodulation rejection	75/66 dB typ. (Narrow, digital)	
Hum and noise	47 dB typ. (Narrow)	43 dB typ. (Narrow)
Audio output power	800 mW typ. (Internal SP, 12 Ω load)	
(at 5% distortion)	1000 mW typ. (External SP, 8 Ω load)	
Ext. speaker connector	14-pin multi-connector/8 Ω	
<b>GPS</b> (Depending on version)		
Receiver channels	12 channels	
Time to first fix (cold start)	36 seconds typ. (at open sky)	
Horizontal accuracy	5 m (at open sky)	

Measurements made in accordance with EIA/TIA-603. All stated specifications are subject to change without notice or obligation. \* 25 kHz bandwidth is no longer available for FCC Part 90 licensees for USA versions. Ask your dealer if you need 25 kHz bandwidth.

### 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
Immersion	512.5	I
Vibration	514.6	I
Shock	516.6	I, IV

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

Ingress Protection Standard (IC-F3261D/F4261D, BP-232WP and HM-184/H)	
Dust & Water	IP67 (Dust-tight and waterproof protection)

<b>Supplied accessories:</b> (May differ according to version)
• Battery pack, BP-232WP    • Belt clip, MB-94R    • Antenna

## OPTIONS

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

**BATTERY PACK AND CASES**

IP67

BP-232WP    BP-240    BP-261

Battery packs	Type	Capacity
BP-230WP	Rechargeable Li-ion	2250 mAh (min.) 2300 mAh (typ.)
BP-240	AAA (LR03) × 6 batteries	
BP-261	AA (LR6) × 6 batteries	

**REGULAR CHARGER**

BC-147S\*1    BC-171

Charges the BP-232WP in 8–10 hours (approx.).

**RAPID CHARGER**

BC-123S\*1    BC-160

Charges the BP-232WP in 3 hours (approx.).

**MULTI-CHARGER**

BC-157S    BC-197

Charges up to six BP-232WP battery packs in 3.5 hours (approx.).

\*1 BC-123/BC-147SA for USA plug. SE for Europe plug. SV for Australia plug.

**SPEAKER-MICROPHONE**

IP67

HM-184/H

**HEADSETS and PTT SWITCH CABLE**

HS-94    HS-95    HS-97    VS-4MC

Earhook type    Behind-the-head type    Throat type    Required when using any of these headsets

**BELT CLIPS**

MB-93    MB-94R

**LEATHER BELT HANGERS**

MB-96N    MB-96F    MB-96FL

**CHARGER BRACKET**

MB-130

For use with BC-160

**CIGARETTE LIGHTER CABLE & POWER SUPPLY CABLE**

CP-23L    OPC-656

For use with BC-160    For use with BC-197

**ACC ADAPTOR**

AD-118

For use with Hirose plug accessory

- ANTENNAS**
- FA-SC25V: 136–150 MHz
  - FA-SC55V: 150–174 MHz
  - FA-SC25U: 400–430 MHz
  - FA-SC57U: 430–470 MHz
  - FA-SC72U: 470–520 MHz
- STUBBY ANTENNAS**
- FA-SC56VS: 150–162 MHz
  - FA-SC57VS: 160–174 MHz
  - FA-SC73US: 450–490 MHz
- HIGH GAIN ANTENNAS**
- FA-SC62V: 150–160 MHz
  - FA-SC63V: 155–165 MHz
- CUT ANTENNAS**
- FA-SC61VC: 136–174 MHz
  - FA-SC61UC: 380–520 MHz

- ZONE COPY CABLES**
- OPC-1870: Handheld to handheld cable
  - OPC-1871: Handheld to mobile cable

- CHARGER ADAPTER**
- AD-122: AD-122 charger adapter is supplied with the BC-197, depending on BC-197's version.

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