



VHF AND UHF DIGITAL/ANALOGUE TRANSCEIVERS

IC-F3102D **IC-F4102D**

VHF transceiver

UHF transceiver

**Everything you expect in a business radio
... Plus Digital!**

IDAS™
ICOM DIGITAL ADVANCED SYSTEM

IDAS™ conventional & IDAS™ single-site trunking

Digital/Analogue mixed mode operation

Superb digital audio clarity

**Built-in 2-Tone, 5-Tone,
CTCSS and DTCS (Analogue mode)**

MDC PTT ID & MDC emergency call (Analogue mode)

800mW (typ.) loud and intelligible audio

IP54 and MIL-STD-810 F rugged construction

Long lasting battery life

Channel announcement

5W (VHF), 4W(UHF) RF output power

16 channels



Limited functions.

More than Just Smooth Digital Migration!

Non-slip, large PTT



The large PTT button is designed to provide non-slip, confident-click, even wearing gloves.

800mW loud audio



The large 45mm speaker delivers up to 800mW* of loud audio! Digital modulation adds distinct clarity to received voices.

* Typical with internal speaker.

Long lasting battery life

Battery pack	Type and capacity	Operating time* (Approx.)
BP-264	Ni-MH 7.2V 1400mAh	12 hours
BP-265	Li-Ion 7.4V 1900mAh (min.) 2000mAh (typ.)	17.5 hours

* Conventional mode, Tx: Rx: Standby=5:5:90. Power save function ON.

Channel announcement

When you rotate the channel knob, the radio announces the channel number. Convenient for making radio adjustments without having to look at the radio.



Bright 3-Color LED

The bright LED shows the operating status: red for transmit, green for listening, or orange for low battery, etc.

Hands-free operation

Optional headset with plug adapter cable OPC-2004 provides hands-free operation.



Built military rugged!

Okay to use in the rain! Tested to IP54 and 11 categories of MIL STD-810 F environmental tests.

Compact and light weight

58x111.5x36.5 mm
320g/310g with BP-265. (VHF/UHF)

IDAS™ digital mode operation

The IC-F3102D series provides basic operation in NXDN™ CAI-based IDAS digital mode. It is also compatible with IDAS multi-site conventional and IDAS single-site trunking. The following IDAS features are programmable.

- PTT ID (TX)
- Individual/Group call (TX)
- Block decode
- RAN (Radio Access Number)
- Radio check (RX)
- Stun/kill/revive (RX)
- Call alert (RX)
- Remote monitor (RX)
- Emergency (TX)
- Digital voice scrambler
- GPS (TX only with HM-171GP)

TX: Transmit, RX: Receive

Built-in 2-Tone and 5-Tone (Analogue mode)

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.

Scan features

The priority scan allows you to monitor one or two priority channels while scanning other non-priority channels. The transmit channel and talk back functions allow you to make a quick response while scanning.

Other features (* = analogue only)

- CTCSS/DTCS encoder/decoder*
- BIIS PTT ID transmission*
- MDC PTT ID and emergency*
- DTMF autodial
- Low battery alert
- 2-step power save
- PC programmable
- Time out timer
- Talk around function
- Lone worker function
- Surveillance function
- Forced narrow function*

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The IC-F3102D: A multitude of advantages because it's IDAS™

Advantage 1

Individual/group call

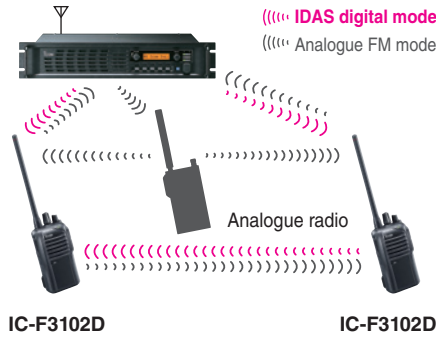
Analogue/Digital



This is a simple and basic setting for those who use the radio mainly for individual and group call. Use the 16-position rotary channel knob to select the appropriate individual or group call. This setting also can be used with analogue 2-tone or 5-tone signalling.

Advantage 2

Digital/analogue mixed mode



The IC-F3102D series can receive both analogue and digital mode signals on a single channel and automatically selects the received mode to reply to the received call, while the talk back timer remains. It's a smart way to grow into digital radio - at your own pace, as your budget and comfort allow.

Advantage 3

Perfect group communication tool, large or small

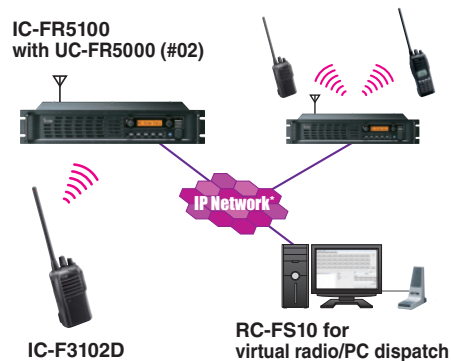
Analogue/Digital



Mix the basic IC-F3102D series with the advanced IC-F3162D series (NXDN™ CAI-based) for efficient group managed systems. Commands like radio stun, kill and revive as well as the caller ID of the IC-F3102D displayed on the administrator's radio provide efficient communication within the group.

Advantage 4

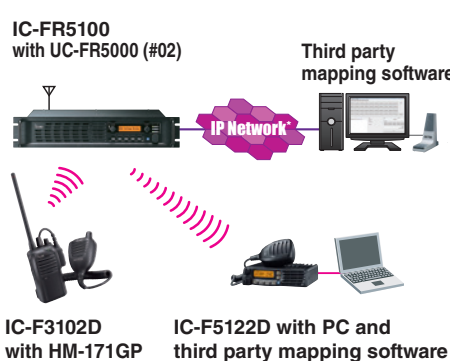
Multi-site conventional mode



When using the IC-F3102D series in IDAS multi-site conventional mode, the IC-F3102D can communicate with other IDAS radio users working with other repeater sites and/or virtual radio/PC dispatch stations on the IDAS network.

Advantage 5

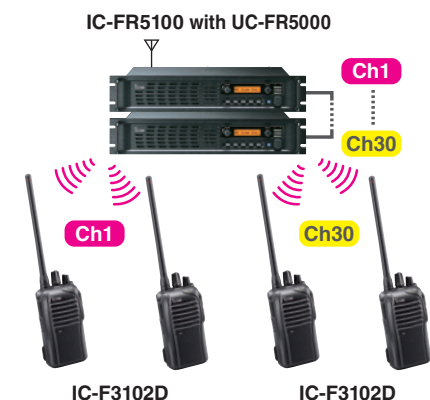
GPS capability



When used with the optional GPS speaker-microphone, HM-171GP, the IC-F3102D series can transmit accurate position data to other advanced IDAS radios and/or connected PC for use with vehicle management applications.

Advantage 6

IDAS single-site trunking



The IC-F3102D series can be used in an IDAS single-site trunking system. The IDAS trunking system is a distributed system with no dedicated control channel, so more voice traffic channels are available for increased system capacity.

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.

