



IC-F5130D

Without Voice Scrambler

VHF DIGITAL TRANSCEIVER

New Generation Entry Level Mobile Utilizing the Latest Design Platform

The IC-F5130D series is a simple single-body IDAS™ mobile radio utilizing the latest Icom design platform and improved visibility with a high contrast and wide viewing angle black background LCD. Supporting critical and industry communication users, and offering an affordable digital and/or analog solution. The IC-F5130D series can interconnect with other radio system via the VE-PG4, versatile RoIP gateway unit.

Improved Visibility with High Contrast and Wide Viewing Angle Black Background LCD

Input / Output Interface for External Devices with Optional D-SUB Accessory Cable

Dual Mode Operation – IDAS™ Digital Mode and Analog FM Mode

Bluetooth® Capability with Optional UT-137A Bluetooth® Unit

Interconnection with VE-PG4 through D-SUB Accessory Cable

Compact Single-body



IC-F5130D

IDAS™
ICOM DIGITAL ADVANCED SYSTEM

NXDN™

General Features

- 136–174 MHz version
- RF Output power 50 W for EXP
- 128 Channels / 8 Zones
- High contrast and wide viewing angle black background LCD
- Eight character alphanumeric display
- 4 W (typical) front mounted speaker
- MIL-STD-810 G shock, vibration, temperature and more
- DTMF autodial memories capability
- Microphone hanger action programmable
- Four programmable buttons

Operating Mode

- NXDN™ conventional
- NXDN™ Type-D single-site trunking
- NXDN™ simulcast
- NXDN™ multi-site conventional over IP network
- Analog mode

Digital Functions (Voice and Data)

- PTT ID and ANI
- Over-the-Air Alias (OAA) displays the caller's name without programming
- Individual, Group and All call
- Late entry for Group call
- Status call and Polling call
- Short data messages
- Call alert
- Radio check (RX only)
- Call log
- Talk back timer

Analog Functions

- CTCSS and DTCS tone
- 2-Tone and 5-Tone
- MDC functions; PTT ID, Emergency (TX/RX), Radio check (RX), Stun (RX), Revive (RX)
- BIIS PTT ID transmission

Security and Safety

- Emergency call and Lone worker
- Remote monitor (RX)
- Radio Kill, Stun and Revive (RX)
- Power ON password

Scan Functions

- Up to 17 scan lists programmable
- Priority scan monitors one or two priority channels while scanning non-priority channels
- Voting scan automatically selects the optimal repeater site

Hardware Features

- Optional D-SUB connector, OPC-2078/OPC-1939, for external PTT, channel, horn, ignition switch, and dimmer control, according to programming
- Bluetooth® capability with optional UT-137A



Optional OPC-1939 installation image



Optional OPC-2078 installation image

Dimensions



IC-F5130D		
GENERAL		
Frequency coverage		136~174 MHz
Number of channels		128 channels/8 zones
Type of emission		16K0F3E (25 kHz)/11K0F3E (12.5 kHz)/ 4K00F1E, F1D (6.25 kHz)
Power supply requirement		13.6 V DC nominal
Current drain (approximate)	Tx (High)	8.6 A typ. (50 W)
	Rx (Max./Standby)	0.8 A typ. / 150 mA typ.
Antenna impedance		50 Ω (SO-239)
Operating temperature range		-30 °C to +60 °C, -22 °F to +140 °F
Dimensions (W×H×D) (Projections not included)		150 × 45 × 151.8 mm, 5.9 × 1.8 × 6.0 in
Weight (approximate)		1.23 kg, 2.7 lb
TRANSMITTER		
Output power (rated)		50 W, 25 W, 5 W (Hi, L2, L1)
Frequency stability		±1.0 ppm
Spurious emissions		80 dB typ.
Audio harmonic distortion (AF 1 kHz 40% deviation)		0.7% typ.
FM Hum and Noise (without CCITT filter)		82/77 dB typ. (W/N)
FSK error		1.8% typ.
RECEIVER		
Sensitivity	Analog 12 dB SINAD	0.25 μ V (-119 dBm) typ. (W) 0.22 μ V (-120 dBm) typ. (N)
	Digital 1% BER	-4.6 dB μ V emf typ.
Adjacent channel selectivity		83/58/73 dB typ. (W/N/D)
Spurious response rejection		80 dB typ.
Intermodulation rejection	Analog	76 dB typ.
	Digital	74 dB μ V emf typ.
Hum and noise		62/52 dB typ. (W/N)
AF output power	External SP	4 W typ. (at 5% distortion, 4 Ω load)

Applicable U.S. Military Specifications

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
Humidity	507.5	II
Vibration	514.6	I
Shock	516.6	I, IV

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

All stated specifications are subject to change without notice or obligation.

Supplied accessories

- HM-152 Hand microphone
- DC power cable
- Mounting bracket kit
- Microphone hanger

HAND MICROPHONES AND DESKTOP MICROPHONE

- HM-148G:** Heavy duty microphone. IP54 protection.
HM-148T: Heavy duty microphone with DTMF keypad. IP54 protection.
HM-152: Hand microphone
HM-152T: Hand microphone with DTMF keypad
HM-239T: Hand microphone with DTMF keypad
HM-249: Hands-free microphone
SM-26: Desktop microphone with monitor and monitor lock buttons



BLUETOOTH® UNIT

- UT-137A:** Bluetooth® unit



EXTERNAL SPEAKERS

- SP-30:** External speaker. 20 W rated input power
SP-35/L: Compact external speaker
 SP-35 cable length: 2 m, 6.6 ft
 SP-35L cable length: 6 m, 19.7 ft



ACC CABLES

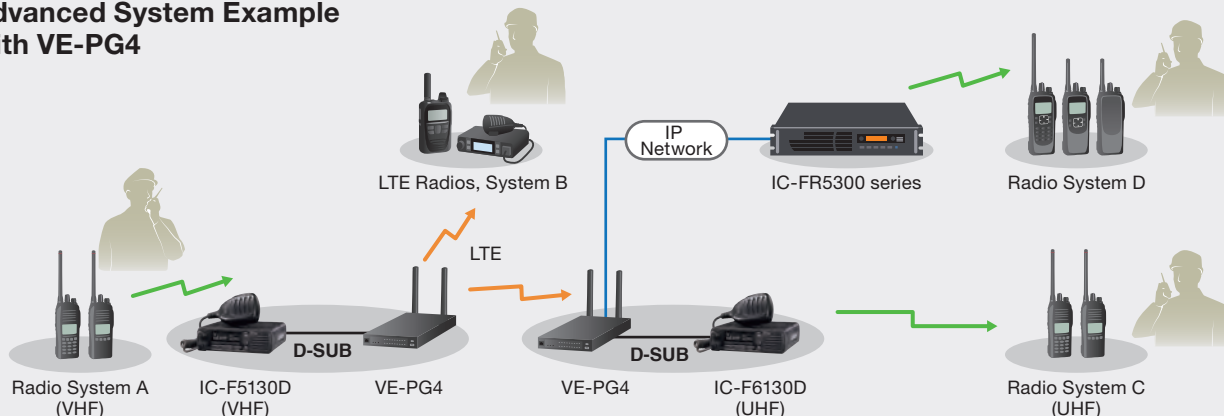
- OPC-2078:** D-SUB 25-pin accessory cable
OPC-1939: D-SUB 15-pin accessory cable
 Note: No Digital Modulation "IN" when using an accessory cable.



DC POWER CABLE

- OPC-2478:** DC power cable (20 A, 3 m for 50 W version)

Advanced System Example with VE-PG4



The VE-PG4 is a versatile RoIP (Radio over IP network) gateway unit, which interconnects the IC-F5130D series with other radio systems, even when the systems are using different bands*.

As shown in the example, any transmission from the "Radio System A" is bridged to other radio systems, so the radio user in the "Radio System A" can talk to all connected radio users in the figure.

* Cross band operation may be prohibited in some countries.

Please check the legal requirements in your country before installation.

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