

## New Generation Entry Level Mobile Utilizing the Latest Design Platform

The IC-F5130D/F6130D 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/F6130D 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**

**400 – 520 MHz Wide Frequency Coverage (UHF version)**

**Interconnection with VE-PG4 through D-SUB Accessory Cable**

**Compact Single-body**



IC-F5130D

**General Features**

- 136–174, 400–520 MHz versions
- RF Output power 10-60 W (Programmable)
- 128 Channels / 8 Zones
- High contrast and wide viewing angle black background LCD
- Eight character alphanumeric display
- 4 W front mounted speaker
- MIL-STD-810 G shock, vibration, temperature and more
- DTMF autodial memories capability
- Microphone hanger action programmable
- Four programmable buttons
- GPS position display and Auto-Timed GPS send (External GPS required)

**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**

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

**Scan Functions**

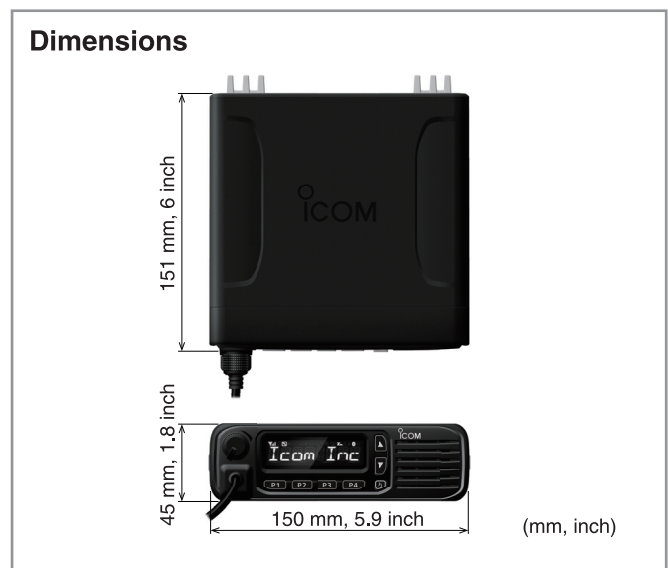
- Up to 17 scan lists programmable
- Priority scan monitors one or two priority channels while scanning non-priority channels
- Voting scan automatically selects the optimal repeater site

**Hardware Features**

- GPS receiver connection with optional ACC cable
- Optional D-SUB connector, OPC-2078/OPC-1939, for external PTT, channel, horn, ignition switch, and dimmer control, according to programming



Optional OPC-1939 installation image      Optional OPC-2078 installation image



		IC-F5130D	IC-F6130D
<b>GENERAL</b>			
Frequency coverage		136–174 MHz	400–520 MHz
Number of channels		128 channels/8 zones	
Type of emission		11K0F3E, 8K50F3E (12.5 kHz)/4K00F1E, F1D (6.25 kHz)	
Channel spacing		12.5/6.25 kHz	
Power supply requirement		13.6 V DC nominal	
Current drain (approximate)	Tx (High)	10.3 A (60 W) 5.5 A (30 W) 2.4 A (10 W)	9.4 A (60 W) 5.7 A (30 W) 2.6 A (10 W)
	Rx (Max./Standby)	0.8 A / 150 mA	
Antenna impedance		50 Ω	
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	
<b>TRANSMITTER</b>			
Output power (10-60 W Programmable)		60 W, 25 W 5 W (Hi, L2, L1) 30 W, 10 W 5 W (Hi, L2, L1)	
Max. frequency deviation		±5.0 kHz/±2.5 kHz	
Frequency stability		±1.0 ppm	
Spurious emissions		80 dB	
Adjacent channel power		70 dB	60 dB
Audio frequency response		+1dB to -3dB of 6dB/octave range from 300Hz to 3000Hz/2550Hz	
FM Hum and Noise (without CCITT filter)		80 dB	75 dB
Audio harmonic distortion (AF 1kHz 40% deviation)		0.7%	0.8%
FSK error		1.8%	1.7%
Ext. microphone impedance		600 Ω (8-pin modular)	
<b>RECEIVER</b>			
Sensitivity	Analog 12 dB SINAD	0.22 μV (–120 dBm)	0.22 μV (–120 dBm)
	Digital 5% BER	– 4.6 dBμV emf	– 5.0 dBμV emf
Adjacent channel selectivity		80 dB	75 dB
Spurious response rejection		80 dB	75 dB
Intermodulation rejection	Analog	76 dB	75 dB
	Digital	75 dBμV emf	75 dBμV emf
Hum and noise		55 dB	55 dB
AF output power	External SP	4W	

**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-211: Active Noise Cancelling microphone.
- HM-239T: Hand microphone with DTMF keypad.
- SM-26: Desktop microphone with monitor and monitor lock buttons.



■ 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

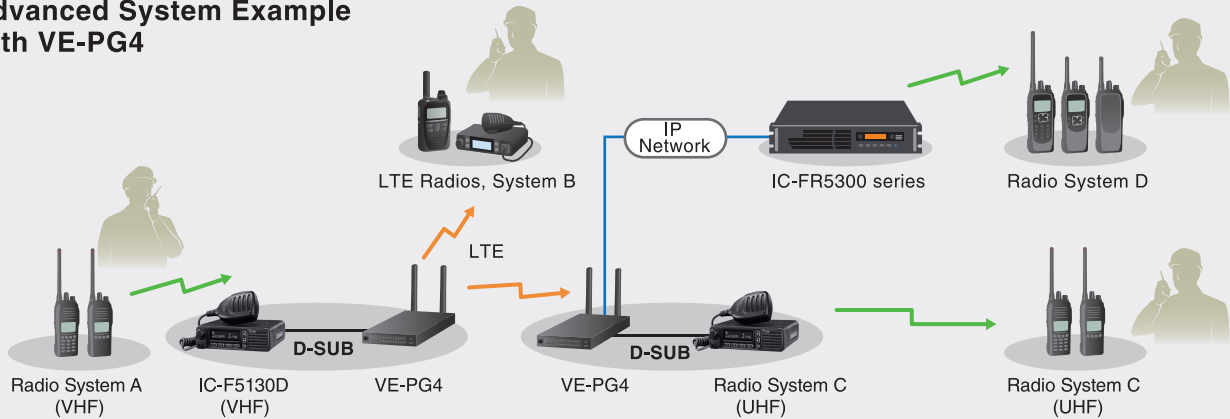
- OPC-2078: D-SUB 25-pin accessory cable
- OPC-1939: D-SUB 15-pin accessory cable
- Note: No Digital Modulation "IN" when using an accessory cable.



■ DC POWER CABLES

- OPC-2478: DC power cable (20 A, 3 m for 60 W)
- OPC-2479: DC power cable (10 A, 3 m for 30 W)

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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