

SPECIFICATIONS

GENERAL	
Frequency coverage	
Version	Transmit Receiver
EUR	430-440MHz
UK 4	30-440MHz 400-479MHz *
ITR	430-434, 435-438MHz
Guaranteed range: * 430–440MHz	
Type of emission	F2D, F3E, F7W
• Mode	DV, FM, FM-N
Number of memory channels	1252 channels (including 500 regular channels, 700 D-STAR repeater, 50 program scan edges and 2 call)
Frequency resolution	5, 6.25, 10, 12.5, 15, 20, 25, 30, 50, 100, 125 and 200kHz
• Operating temperature range	-20°C to +60°C
Frequency stability	±2.5ppm (-20°C to +60°C on the basis of 25°C)
Power supply requirement	7.4V DC (with BP-271, BP-272)
Alkaline cells	5.5V DC (with BP-273)
External DC power	10–16V DC
Current drain (at 7.4V DC) Tx High	Less than 2.5A
Rx Internal SP (16Ω)	Less than 450mA/350mA (DV/FM, FM-N)
External SP (8Ω)	Less than 300mA/200mA (DV/FM, FM-N)
Antenna impedance	50Ω (SMA)
 Dimensions (W×H×D, projections not included) 	58×95×25.4 mm
Weight (approx.)	140g (without battery), 225g (with BP-271 & antenna)
TRANSMITTER	
Modulation system DV, FM, FM-N	GMSK reactance modulation, FM reactance modulation
Output power (at 7.4V DC)	5W, 2.5W, 0.5W, 0.1W (High, Mid, Low, S-low)
Spurious emissions	Less than -60dBc (High, Mid), Less than -13dBm (Low, S-low)
Max. frequency deviation	±5.0/2.5kHz (FM/FM-N)
Ext. Mic impedance	2.2kΩ
RECEIVER	
Sensitivity DV, FM, FM-N	Less than 0.28µV (at 1% BER) Less than 0.18µV (at 12dB SINAD)
Selectivity DV	More than 50dB
FM	More than 55dB

Supplied accessories (*Depending on version)

FM-N

External SP (8Ω load)

· Spurious rejection

 Audio output power Internal SP (16 Ω load)

- Battery pack, BP-271 Wall charger, BC-167SD* Antenna, FA-S270C Belt clip, MB-127
- Hand strap Cloning software, CS-31

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

BATTERY PACKS AND CASE



BP-272

BP-271











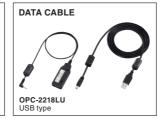


















FA-S270C UHF ANTENNA Same as supplied. AD-92SMA ANTENNA ADAPTER SMA-BNC antenna adapter. SP-13 EARPHONE **CS-31** CLONING SOFTWARE Same as supplied.

All stated specifications are subject to change without notice or obligation

More than 50dB

More than 60dB

More than 400mW

More than 200mW

(at 7.4V DC, 10% distortion)

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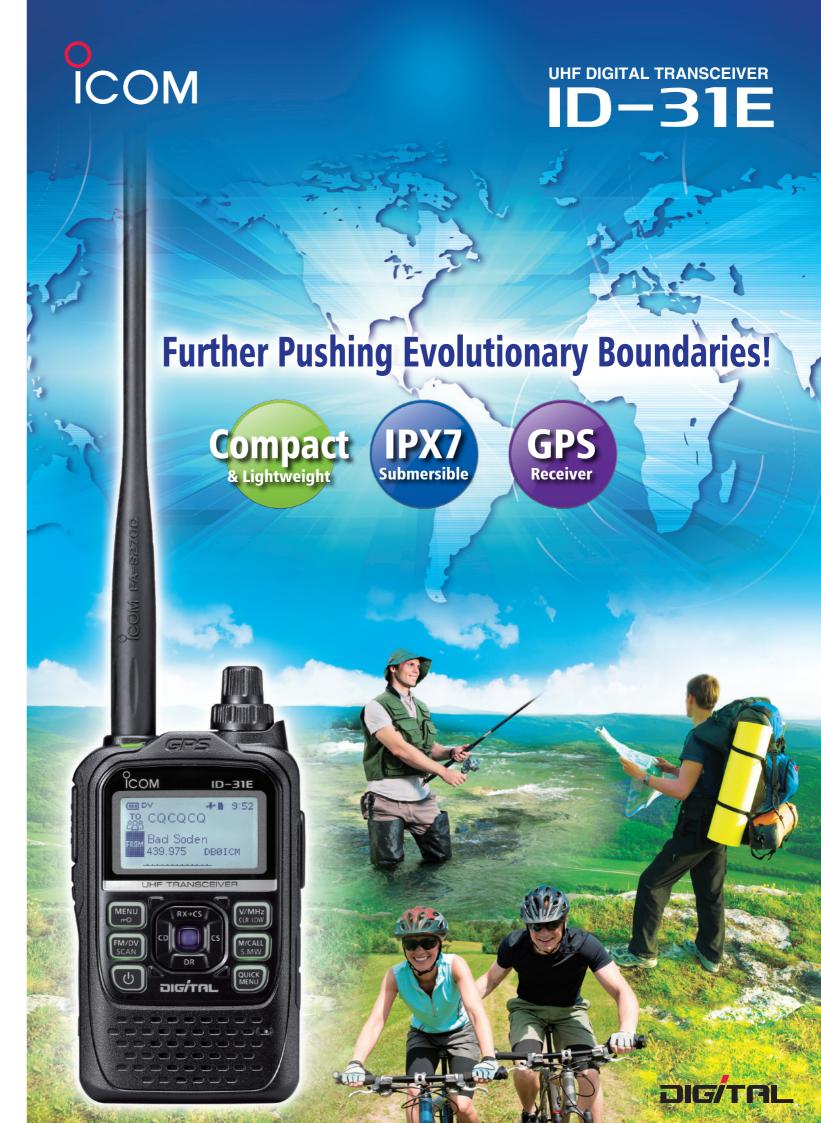
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Your local distributor/dealer:

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Compact Body Output Description

The ID-31E has a compact 58×95×25.4 mm body, and weighs only 225g (approx.) with battery pack and antenna. It's easy for carrying around all the time anywhere.

IPX7 Waterproof Construction

The ID-31E provides superior waterproof protection equivalent to IPX7 (1m depth of water for 30 minutes). Ideal for use in harsh outdoor environments.

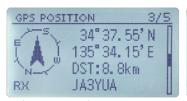


Built-in GPS Receiver

The built-in GPS receiver shows your current position and altitude

on the display and offers a position reporting function in DV mode. The GPS log function logs your position information at regular intervals (1 second-60 seconds, depending on the setting) and memorizes this in the microSD card to export to your PC. In addition, the GPS-A mode assists in easy D-PRS mode operation.





GPS POSITION SSID: --COURSE:301° SPEED: 2. Okm/h ALT: 79m

RX (Received station) position information example

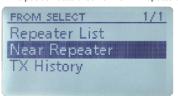
O D-STAR DV (Digital Voice) Mode

The D-STAR (Digital Smart Technology for Amateur Radio) DV mode has lots of advantages over the analog FM mode: digitally modulated clear voice, 950 bps (approx.) data individual calling using a call sign and access to the world wide repeater network linked with the Internet.

Automatic Repeater List-up Function

The ID-31E will be shipped with D-STAR repeater memories pre-programmed*. Using the GPS position information, the automatic repeater list-up function shows the list of nearby D-STAR repeaters from the memory.

To use the automatic repeater list-up function, the position data of the repeater is required. The position data of some D-STAR repeaters may not be available



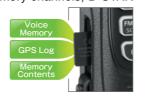
REPEATER DETAIL JP3YHJ GRP02 439,010 DUP-(►) 14.2km 9:50 Repeater Detail

Near Repeater Function

microSD Card Slot

When used with a microSD card (up to 32GB), various contents including voice memories, GPS log, memory channels, D-STAR

repeater memories and other personal settings can be stored on the microSD card and can be transferred to a PC. The voice memory function records incoming and outgoing calls in "WAV" format and allows you to play them on the radio or on a PC.



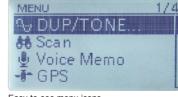
■ Other Digital Features

- Automatic speech function announces the received call sign
- Digital code squelch ·Digital call sign squelch One touch reply function •DR (D-STAR Repeater) mode
- Automatic reply function

Full Dot-matrix Display & Directional Keypad

The directional keypad and quick menu button help you with quick and intuitive access to many settings and speeds up the operation. The large full dot-matrix display with easy-to-read characters offers better visibility. The LCD and keypad backlighting is handy for night time operation.





5W Output Power

Using a highly-efficient PA amplifier, the ID-31E generates 5W of RF output power from this compact body. The supplied BP-271 provides up to 4.5 hours* of operating time, and the optional large capacity battery pack, BP-272 provides up to 7.5 hours* of operating time. * Typical operation with 1:1:8 duty cycle in DV mode. (Power save ON, GPS OFF)

O External DC Power Jack

An external DC power jack allows for operation with an external DC power supply (10-16V DC*). When used with the CP-19R, CP-12L or OPC-254L/LR, simultaneous operation during charging is possible. * When more than 14V volts is applied, the output power is reduced to Mid level (2.5W)

O CS-31 Cloning Software Supplied

The CS-31 cloning software* is supplied with the ID-31E (supplied with the application CD). Used with this software, various settings including the memory channels, D-STAR repeater memories and other settings can be made from a PC. The latest version of the CS-31 will be available from the Icom web site.

* Either optional OPC-2218LU USB cloning cable or a microSD card is required for transferring the data.

Total 1,252 Memory Channels

The ID-31E has a total 1.252 memory channels. including 500 regular channels, 700 D-STAR repeater (DR) memories, 50 scan edges and 2 call channels with 26 memory banks. All memory channels, program scan edges and memory banks can be named with 16-character channel comments.

Multiple Scan Functions

The ID-31E supports various scan types for maximum reception and ease of use.

- Full scan Programmed scan Duplex scan Memory scan
- · Mode memory scan · All bank scan · Selected bank scan
- Tone scan Bank link scan (DMS) Program scan link
- Skip scan

■ Other Features

- Analog FM mode (Wide/Narrow)
- Built-in CTCSS/DTCS encoder and decoder (for analog FM)
- 16 DTMF memory channels (24 digits) Squelch release function to monitor
- a weak signal
- · Optional CT-17, CI-V level converter for remote radio control
- · Auto power save
- Auto power off
- Clock function
- · Priority watch
- Key lock function

UHF DIGITAL TRANSCEIVER 5W **ID-31E**

