

IC-M31



Rugged
MIL-STD 810

Waterproof
1m depth for 30 minutes

Icom Performance at an Entry Level Price

- Waterproof Protection (1m depth for 30 minutes*)
- Large Backlit LCD Display
- Well-spaced, Illuminated 9 Button Keypad
- Li-Ion or Ni-Cd Battery Pack & Desktop Charger Supplied
- Powerful 5W Output Power
- 70 Programmable Channels



Actual display size.

- Simple Operation with Tag Scanning System
- Dual/Tri-watch Functions
- 4-Step Battery Life Indicator & 2-Step Power Saver
- Squelch & Volume Level Indicator
- Instant Access to Ch 16 or Programmable Call Channel



* Equivalent to JIS Grade 7 or IPX7 of the corresponding international standard IEC 529 (1989).

SPECIFICATIONS

GENERAL

- Frequency range* : Tx 156.000-161.450MHz, Rx 156.000-163.425MHz. * Frequency range may be subject to licensing conditions.
- Usable channels : INT and USA* channels. * Available depending on version
- Type of emission : 16K0G3E (FM)
- Current drain (at 7.5V DC) : Tx at 5W output 1.5A typical, at 1W output 0.7A typical, at 0.5W output 0.6A typical, Rx AF max. 200mA typical, Power save 20mA typical
- Operating temp. range : -15°C to +55°C
- Antenna impedance : 50Ω (STUD)
- Dimensions : 61(W)×135(H)×41(D) mm (projections not included)
- Weight (approx.) : 360g (With BP-224), 300g (With BP-241)

Specifications for the IC-M31 are measured in accordance with EN301-178-2. All stated specifications are subject to change without notice or obligation.

TRANSMITTER

- Output power : 5W (High), 1W (Low), German version : 1W (High), 0.5W(Low)
- Modulation system : Variable reactance frequency modulation
- Max. frequency deviation : ± 5kHz
- Frequency error : ± 1.5kHz
- Spurious emissions : 250nW
- Adjacent channel power : 70dB
- Audio harmonic distortion : 10% (at 60% deviation)
- Residual modulation : 40dB

RECEIVER

- Sensitivity (at 20dB SINAD) : -2dBμ emf typical
- Squelch sensitivity : 0dBμ emf typ. (at threshold)
- Adjacent Ch. selectivity : 70dB
- Spurious response : 70dB
- Intermodulation rejection : 68dB
- Hum and noise ratio : 40dB
- Audio output power : 0.2W (at 10% distortion with an 8Ω load)

Applicable U.S. Military Specifications

The IC-M31 meets MIL-STD requirements and strict environmental standards as follows.

Standard	MIL 810 C		MIL 810 D		MIL 810 E		MIL 810 F	
	Method	Proc.	Method	Proc.	Method	Proc.	Method	Proc.
Low Pressure	500.1	I	500.2	I, II	500.3	I, II	500.4	I, II
High Temp.	501.1	I	501.2	I, II	501.3	I, II	501.4	I, II
Low Temp.	502.1	I	502.2	I, II	502.3	I, II	502.4.3	I, II
Temp. Shock	503.1	I	503.2	I	503.3	I	503.4	I
Solar Radiation	505.1	I	505.2	I	505.3	I	505.4	I
Rain	506.1	I, II	506.2	I, II	506.3	I, II	506.4	I, III
Humidity	507.1	I, II	507.2	II, III	507.3	II, III	507.4	-
Salt Fog	509.1	I	509.2	I	509.3	I	509.4	-
Dust	510.1	I	510.2	I	510.3	I	510.4	I
Vibration	514.2	VIII, X	514.3	I	514.4	I	514.5	I
Shock	516.2	I, II, V	516.3	I, IV	516.4	I, IV	516.5	I, IV

Supplied accessories: (Varies depending on versions.)

- Li-Ion battery versions
 - BP-241
 - BP-223*
 - Hand strap
- Ni-Cd battery versions
 - BP-224
 - BP-223*
 - Hand strap
- BC-162
- MB-68
- Top panel
- BC-150
- MB-68
- Top panel
- BC-145E/UK
- Antenna
- BC-147E*
- Antenna

(* Battery case and AC adapter may not be supplied with some versions.)

OPTIONS

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

BATTERY PACK AND CASE



▲ BP-223 ▲ BP-224 ▲ BP-241

BP-223 BATTERY CASE
Battery case for AA (LR6)×6 alkaline cells.
BP-224 7.2V/750mAh Ni-Cd BATTERY PACK
Provides 7.5 hours operating time (approx.).
BP-241 7.4V/1150mAh Li-Ion BATTERY PACK
Provides 11 hours operating time (approx.).
(Tx (HI): Rx: standby=5:5:90)



▲ BC-150 ▲ BC-147E

BC-150 DESKTOP CHARGER + BC-147E AC ADAPTER
Regularly charges the battery pack, BP-224 in 8 hours (approx.). Cannot charge BP-241.



▲ BC-145 E/UK ▲ BC-119N ▲ BC-121N+AD-103 (6 pcs.) ▼ BC-124

BC-119N DESKTOP CHARGER + AD-103 CHARGER ADAPTER + BC-145E/UK AC ADAPTER
For rapid charging of a battery pack. An AC adapter may be supplied depending on version. Charging time: 1-2 hrs. Cannot charge BP-241.
BC-121N MULTI-CHARGER + AD-103 CHARGER ADAPTER + BC-124 AC ADAPTER
For rapid charging of up to 6 battery packs (Six AD-103's are required), BP-224. An AC adapter, BC-124, or a DC power cable, OPC-656 is required. Charging time: 1-2 hours. Cannot charge BP-241.



▲ BC-145E/UK ▲ BC-162

BC-162 DESKTOP CHARGER + BC-147E/UK AC ADAPTER
Rapidly charges the battery pack, BP-224 and BP-241 in 1, 2 hours (approx.), respectively.



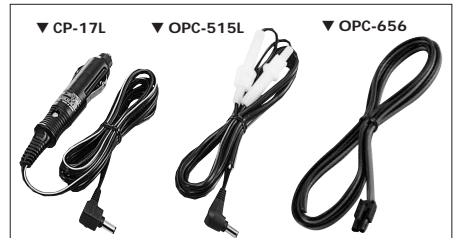
▲ MB-74N ▲ MB-87

MB-68 : Standard flat belt clip. Same as supplied.
MB-74N : Alligator type.
MB-87 : Swivel belt clip. Prevents accidental dropping from your belt.



▲ MB-96 ▲ MB-96F

MB-96 : Swivel belt hanger.
MB-96F : Fixed type (Non-swing) belt hanger. For use with MB-68 or MB-74N. Made with leather and ensures that the radio stays on your belt.



▼ CP-17L ▼ OPC-515L ▼ OPC-656

CP-17L CIGARETTE LIGHTER CABLE WITH NOISE FILTER
OPC-515L DC POWER CABLE
For use with the battery charger, BC-150 or BC-119N, instead of the AC adapter. (12-16V DC required)
OPC-656 DC POWER CABLE
For use with the BC-121N. (12-16V DC required)

Icom Inc. 1-1-32, Kamiminami, Hirano-ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013

URL: <http://www.icom.co.jp/world/index.html>

Count on us!

Icom America Inc.

2380 116th Avenue NE, Bellevue, WA 98004, U.S.A.
Phone: +1 (425) 454-8155
Fax: +1 (425) 454-1509
E-mail: sales@icomamerica.com
URL: <http://www.icomamerica.com>

Icom New Zealand

146A Harris Road, East Tamaki, Auckland, New Zealand
Phone: +64 (09) 274 4062
Fax: +64 (09) 274 4708
E-mail: inquiries@icom.co.nz
URL: <http://www.icom.co.nz>

Icom (UK) Ltd.

Unit 9, Sea St., Herne Bay, Kent, CT6 8LD, U.K.
Phone: +44 (0)1227 741741
Fax: +44 (0)1227 741742
E-mail: info@icomuk.co.uk
URL: <http://www.icomuk.co.uk>

Asia Icom Inc.

6F No. 68, Sec. 1 Cheng-Teh Road, Taipei, Taiwan, R.O.C.
Phone: +886 (02) 2559 1899
Fax: +886 (02) 2559 1874
E-mail: sales@asia-icom.com
URL: <http://www.asia-icom.com>

Your local distributor/dealer:

Icom Canada

Glenwood Centre #150-6165 Highway 17, Delta, B.C., V4K 5B8, Canada
Phone: +1 (604) 952-4266
Fax: +1 (604) 952-0090
E-mail: info@icomcanada.com
URL: <http://www.icomcanada.com>

Icom (Europe) GmbH

Communication Equipment Himmelgeister Str. 100, D-40225 Düsseldorf, Germany
Phone: +49 (0)211 346047
Fax: +49 (0)211 333639
E-mail: info@icom-europe.com
URL: <http://www.icomeurope.com>

Icom France S.a

Zac de la Plaine, 1, Rue Brindejonc des Moulinais BP 5804, 31505 Toulouse Cedex, France
Phone: +33 (5) 61 36 03 03
Fax: +33 (5) 61 36 03 00
E-mail: icom@icom-france.com
URL: <http://www.icom-france.com>

Beijing Icom Ltd.

10C07, Long Silver Mansion, No.88, Yong Ding Road, Haidian District, Beijing, 100039, China
Phone: +86 (010) 5889 5391/5392/5393
Fax: +86 (010) 5889 5395
E-mail: bjicom@bjicom.com
URL: <http://www.bjicom.com>

Icom (Australia) Pty. Ltd.

A.B.N. 88 006 092 575
Unit 1 / 103 Garden Road, Clayton VIC 3168 Australia
Phone: +61 (03) 9549 7500
Fax: +61 (03) 9549 7505
E-mail: sales@icom.net.au
URL: <http://www.icom.net.au>

Icom Spain S.L.

Ctra. de Gracia a Manresa Km. 14,750 08190 Sant Cugat del Valles Barcelona, Spain
Phone: +34 (93) 590 26 70
Fax: +34 (93) 589 04 46
E-mail: icom@icomspain.com
URL: <http://www.icomspain.com>

Icom Polska

Sopot, 3 maja 54, Poland
Phone: +48 (58) 550 7135
Fax: +48 (58) 551 0484
E-mail: icomspolska@icomspolska.com.pl
URL: <http://www.icomspolska.com.pl>



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