

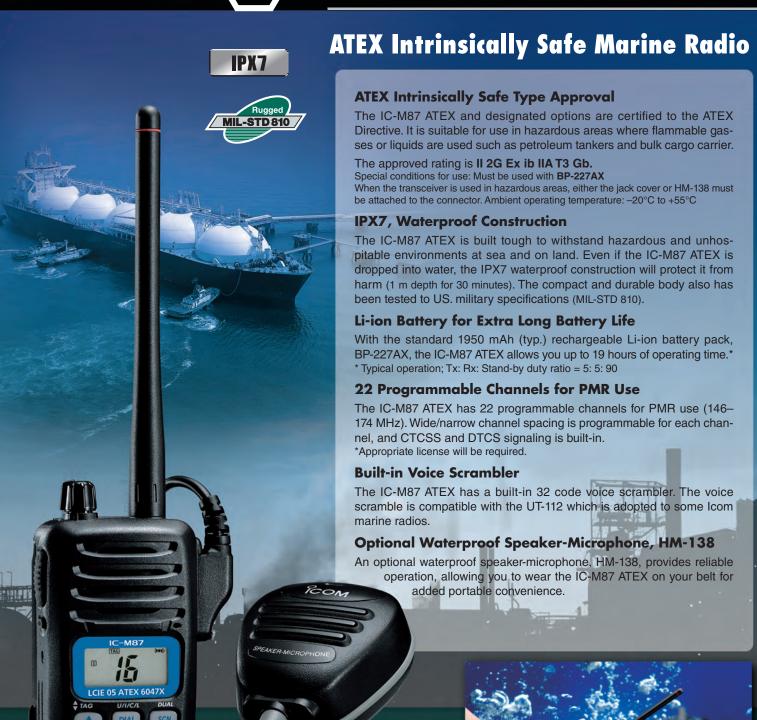
ICOM

Photo includes optional speaker-microphone, HM-138.

IC-M87 ATEX



INTRINSICALLY SAFE VERSION



C-M87 ATEX

Additional Features

- Simple Up/Down buttons for operating channel selection
- Instant access to Ch. 16 and call channel
- Simple add/delete TAG scanning operation Automatic scan function
- 4 level battery indicator Desktop charger, BC-152N supplied
- Key lock and monitor function Programmable beep sound
- 2 step power saver The self check functions

SPECIFICATIONS

	IC-M87 ATEX					
GENERAL	Marine channels	PMR channels				
Frequency coverage Tx Rx	156.000-161.450 MHz 156.000-163.425 MHz	146.000-174.000 MHz				
Usable channel groups, Number of channels	INT, USA* channels (* Varies according to version)	22 PMR channels				
Type of emission	16K0G3E	16K0F3E/8K50F3E 14K0F3E/8K50F3E				
Channel spacing	25 kHz	12.5/25 kHz, 20/25 kHz				
Power supply requirement	7.4 V DC nominal					
Current drain (approx.) Tx (at 1 W) Rx Max. audio	0.7 A typ. 200 mA typ.					
Antenna impedance		SMA type)				
Operating temperature range	−15°C to +55°C	−25°C to +55°C				
Dimensions (W × H × D) (Projections not included)	62 × 97 × 39 mm (With BP-227AX)					
Weight (approx.)	280 g (With BP-227AX)					
TRANSMITTER						
Output power (at 7.2 V DC)	1/0.5 W	1 W				
Max. frequency deviation	±5.0 kHz	±5.0/±4.0/±2.5 kHz (W/M/N)				
Frequency stability	±1.5 kHz					
Spurious emissions	0.25 μW (≤ 2 GHz), 1.0 μW (> 2 GHz)					
Residual modulation	40 dB	40/34 dB (W/N)				
Audio harmonic distortion	Less than 10% (at 60% deviation)					
Modulation limiting	60-100% of Max. deviation					
RECEIVER						
Sensitivity (at 20 dB SINAD)	-2 dBµ typ. (emf)	−4 dBµ typ. (emf)				
Adjacent channel selectivity	70 dB	70/60 dB (W/N)				
Spurious response	70 dB					
Intermodulation	68 dB	65 dB				
Hum and noise	40 dB	40/34 dB (W/N)				
Audio output power (at 10% distortion with 8 Ω load)	200 mW	350 mW				
Measurements made in accordance with FN 301-178 or FN 300 086						

Measurements made in accordance with EN 301-178 or EN 300 086. All stated specifications are subject to change without notice or obligation.

Applicable U.S. Military Specifications & IP Rating

Standard	MIL 810 F		
	Method	Procedure	
Low Pressure	500.4	I, II	
High Temperature	501.4	I, II	
Low Temperature	502.4	I, II	
Temperature Shock	503.4	I	
Solar Radiation	505.4	I	
Rain Blowing/Drip	506.4	I, III	
Humidity	507.4	_	
Salt Fog	509.4	_	
Dust Blowing	510.4	I	
Vibration	514.5	I	
Shock	516.5	I, IV	

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

Ingress Protection Standard	
Water	IPX7 (Waterproof protection)

Supplied accessories:

- Battery pack, BP-227AX
 Battery charger, BC-152N
 AC adapter, BC-147SE*
 Swivel belt clip, MB-86
 Antenna, FA-S59V
 Hand strap
- (* AC adapter is not supplied depending on version.)

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





DESKTOP CHARGER Charges the BP-227AX in 9-10

MULTI-CHARGER*2 BC-121N+AD-100 (6 pcs.) Rapid charges up to 6 battery packs in 2-2.5 hours.

- ** BC-147SA for 120 V AC. SE for 230 V AC. SV for 240 V AC.
 ** These chargers are not approved as intrinsically safe. **Do not charge** the BP-227AX in an explosive atmosphere.





Examples of Applicable Gas and Vapor Types*

	T1: 450°C	T2: 300°C	T3: 200°C
I	Methane		
	Acetone	Ethyl alcohol	Benzine
	Ethane	I-amyl acetate	Diesel fuel
	Ethyl acetate	n-butane	Aircraft fuel
IIA	Ammonia	n-butyl alcohol	Heating oil
	Benzene (pure)		n-hexane
	Acetic acid		
	Carbon Monoxide		
	Methanol		
	Propane		
	Toluene		

^{*} Please ensure the IC-M87 ATEX rating is acceptable for intended place of use.

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