

ISRAEL OCEANOGRAPHIC & LIMNOLOGICAL RESEARCH R/V BAT-GALIM

SHIP DATA

Type of vessel	Marine Research & Engineering
Call sign	4XFZ
MMSI	428067000
Built:	Lurssen werft, Bremen 1990
Converted:	Israel Naval Shipyard, 2015
Port of registry:	HAIFA (ISRAEL)

MAIN DIMENSIONS

Length O.A.	38.92 m
Beam	9.25 m
Draft	3.21 m
Gross tonnage	387
Displacement tonnage	404

CAPACITIES

Free deck area	120 m ²
Dry lab	15 m ²
Wet lab	18 m ²
Deck Cargo	40 t.
Bunkers	20 m ³
Fresh water	10 m ³
Evaporator	3 t. / 24 hrs.
Max speed	13 knots
Economy speed	11 knots
Cruising range	1,000 nm

Accommodations	24 Beds in Double Cabins for Crew, Scientists & Technicians
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MACHINERY

Propulsion	1 x 890kW Deutz engine
Maneuvering	2 x 208HP jet nozzles 360°
Power	2 x 124kW Deutz generators

CRANES / A-FRAME

Cranes	Port: 11 ton-meter, Boom Length 10.5m Stbd: 4 ton-meter, Boom Length 12.5m
A- Frame	Telescopic, SWL 3t at 5m, 1t at 7m (4m width)
Winches	Main: 1.5t, 4000m CTD: 800kg, 6000m Hydrographic: 200kg, 1000m

NAVIGATION EQUIPMENT

Dynamic Positioning	L3/Wartsila Platinum Class 0 DP
Autopilot	Raytheon Anschutz NP5000
Echosounder	SI-TEX CVS-833C
Radar	Sperry Marine Bridgemaster E 180mm X-Band Furuno NavNet2 4kW X-Band
NAVTEX	JRC NCR-300A
AIS	ComNav Voyager X3 Class A

COMMUNICATION EQUIPMENT

Satellite Communications	Iridium Pilot
Radio	Samyung SRG-3150DN Sailor RT-4800 A1 VHF Sailor RT-5020 VHF DSC Icom M-302 VHF DSC

PERMANENT INSTALLED EQUIPMENT

Positioning	Kongsberg Seapath 330 Trimble BX982
DGNSS	Fugro MarineStar HP/XP
Navigation & Acquisition Software	Hypack & Hysweep Kongsberg SIS
Gyro	Anschutz Gyro 22
Motion Sensor	Kongsberg Seapath 330 MRU 5
USBL	Kongsberg μ PAP 200
MBES deep water	Kongsberg EM302 (2°x2°) 30kHz watercolumn
MBES shallow water	Kongsberg EM2040 (0.7°x0.7°) 200-400kHz watercolumn
Monitoring Hydrophones	2 x Teledyne Reson TC-4032 5Hz-120kHz Omnidir.
Sub Bottom Profiler	Knudsen 3x3 chirp 3260 ver. 5 Dual Channel 3.5 kHz & 12/200 kHz
Meteorological Station	Aanderaa Smartguard: Air temp, Wind speed and direction, Relative Humidity, Solar Radiation
Processing Room	2x Lenovo P500 Workstations CARIS HIPS&SIPS QPS Q-suite

TOWED / DEPLOYED EQUIPMENT

Coring Equipment	Piston Corer 1,3,6,9 meter Box Corer Van Vind Grab Corer 50kg
CTD	Seabird SBE 9+
Rosette	Seabird SB32 Carousel 24 x 8L General Oceanics
SVP	Valeport miniSVS
Side Scan Sonar	Klein 3900 w/300m cable
Magnetometer	Geometrics G-882
Single Channel Seismic*	Geo source 400 Sparker Geo Spark 2000X Power supply Geosense single channel streamer (8 elements)

	Mini-Trace 2 recording system
Multichannel Seismic*	Geo Source 400 Geo Spark 2000Xpower supply Geo Sense UHR 48 Channel streamer Multi-Trace Recording system (48 channels)
ROV	BlueROV2, 300m tether
ROV**	SAAB Seaeye Leopard, 3000m tether
AUV**	ECA A18-D

*Towed seismic equipment jointly operated with Charney School of Marine Sciences, University of Haifa

**Joint operation with MERCI – Mediterranean Sea Research Center of Israel

