



SINCE 1946



HALO24 Radar

HALO24 revolutionizes radar by offering an almost real-time view, with industry-first 60 RPM operation at close range for the ultimate in collision avoidance.

Pulse compression dome radar, with industry-first 60 RPM operation.

Built in VelocityTrack™ Doppler technology, simultaneous short and long-range coverage up to 48 nautical miles from one compact 24-inch dome antenna.



Product details



- **See Near and Far with One Compact Dome**
Perfect for a wide range of smaller powerboats, HALO24 comes in a compact dome antenna and delivers high-quality short, mid and long-range detection. Monitor two distance ranges at once in Dual Range mode which enables you to keep an eye on far away weather cells while watching for collision hazards up close. HALO24 radar's pulse compression technology means no compromises in detection at either selected range, while beam sharpening provides enhanced separation between small or distant targets.
- **The Ultimate View for Collision Avoidance**
HALO24 radar delivers a full 360 degree sweep every second, thanks to its industry-first 60 RPM rotation at ranges up to 1.5 nautical miles. These ultra-fast updates give you an almost real-time view at close range, offering the ultimate view for collision avoidance.
- **VelocityTrack™ Doppler Technology Built-In**
VelocityTrack™ technology provides instant visual feedback on whether targets are coming towards you or moving away. Simple colour coding highlights potential hazards, improving your situational awareness and further reducing your risk of collision. HALO24 radar automatically checks every target in range; there's no need to manually select individual targets, and no limit to the number of targets on screen at one time.
- **Ready When You Are**
HALO24 radar wakes instantly from its low-power standby mode, delivering this high-speed radar coverage exactly when and where you need it. Even if your HALO24 radar is completely powered down start-up is a matter of seconds, not minutes like traditional pulse radar. Whether you're navigating through crowded waterways or contending with poor visibility, HALO24 radar immediately cuts through the clutter to give you a clear and current picture of your surroundings.

Key Features



- 48 nm range from a compact 24-inch dome
- Advanced pulse compression technology with beam sharpening
- Simultaneous Dual Range operation sees both near and far
- Ultra-fast 60 RPM operation at ranges up to 1.5 nm
- VelocityTrack™ Doppler technology for collision avoidance
- Easy operation with harbour, offshore, weather, and bird modes
- MARPA target tracking (up to 10 targets, 20 in dual range)
- Ready instantly from standby

Specifications



Physical

Dimensions W x H x D	610mm dia x 225 mm H. (24" dia x 8.9" H)
Weight	6.75 kg (14.9 lbs) without cable

Electrical

Power Consumption max	29W
Power Consumption typical	20W
Recommended Fuse Rating	5A
Supply Voltage	10.5 - 31.2 VDC (12/24V systems)

Environment

Humidity	95% RH at 35°C (95°F)
Operating Temperature Range	-25° to + 55°C (-13° to +130°F)
Waterproofing	IPX6

Connectivity

Ethernet Ports	100 Base T
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Approvals

Approvals Compliance 99/5/EC:	FCC, Part 47 CFR 80 and 90: RED, Article 3 of Directive CE: EN, EN302-248 V2.1.1: Industry Canada, RSS238: RCM (C-Tick): IEC60945 Sec 9.2,9.3, 10.3-10.9, 11.2: IEC60950 Electrical Safety
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Radar

Beam width	3.9° H nonminal (-3dB) 2° with target separation on high x 22° V
Max Range, scale	48 NM
Max Wind Speed	100 knots (51 m/s)
Min Range, scale	50 m / 200 ft / 50 yd
Radar Modes	Harbour, Offshore, Weather, Bird, Dual Range, North Up, Course Up, Relative motion, True Motion
Radar Technology	Pulse Compression
Rotation speed	Up to 60 RPM (Range Dependent)
Transmitter frequency	X-band - 9.4 to 9.5 Ghz
Transmitter source (warm-up time)	No Magnetron — all solid state. Instant On™
Sweep repetition frequency	700-2400 Hz (mode dependent)

Other

Interface	Simrad MFD
Warranty Period	2 Years