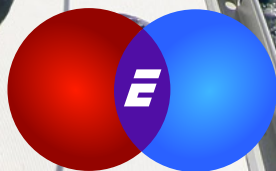


DS9 - Evo

Emotions in High-Definition.
In every weather condition.

TVRO Evo-Series



Evolution Series

EPAK[®]

DS9 - Evo

3-Axis Stabilized Maritime TVRO Antenna
with 90 cm Dish Diameter

Easy installation

Simple 3-wire-coax cable connection between ODU and IDU

Multi Vision

As many receivers as you want can be integrated.

Diversity Kit Compatibility

No more blind spots by combining the free line of sight ranges of two antennas in one bundle. That will prevent nearly any loss of satellite signals through blockades.

Small dimensions

Although equipped with a 90cm dish which allows you a perfect signal reception, the DS9 is built keeping in mind the containment of the size, in order to give you a device as small as possible.

EPAK® Evolution

Most precise satellite pointing accuracy thanks to the combination of two different tracking systems, an Electronic Beamforming (EBF) Gyro together with a 3D Gyro module.

DS9 - Evo is the most powerful and most reliable antenna in EPAK®'s TVRO family.

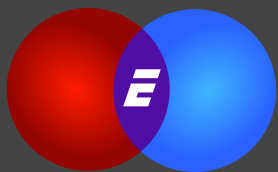
This maritime satellite television antenna is specifically designed to meet even the hardest requirements in harsh seas and with its automated polarization tracking system it guarantees best signal quality even during extreme tilted positions.

Enjoy all the quality and fun of onboard television entertainment in High-Definition, in your language and wherever you are.

And with our Diversity Kit, you can forget about those boring blind spots and signal interruptions, for a flawless and relaxing television experience at sea.

Benefits:

- **Evolution:** 2 Gyro techniques together for a perfect orientation
- Extended elevation range from -10° to $+90^{\circ}$
- More affordable hardware solution
- High-quality material for operating even under the toughest temperatures
- Unlimited azimuth range (no cable unwrap)



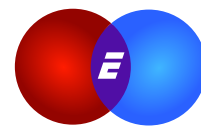
Evolution Series

EPAK®

TECHNICAL SPECIFICATION

DS9 - Evo

3-Axis Stabilized Maritime TVRO Antenna with 90 cm Dish Diameter



Evolution Series

Dimensions & Weight

Radome (D x H)	111 x 114 cm (43.9" x 44.9")
Weight (incl. Radome)	62 kg (136.68 lbs)

Shipping dimensions

Box type	wooden box
Without accessories	126 x 126 x 137 cm - 180 kg (49.57" x 49.57" x 54.02" - 396 lbs)

Reflector & Feed Subsystem

Reflector diameter	90 cm (35.43")
Minimum E.I.R.P.	43 dBW
LNB	Universal (LOF 9.75/10.6 GHz, linear/circular)
LNB type	only Quattro available

Drive Subsystem

Tracking sensor	EPAK® Evo: Electronic Beamforming (EBF-Gyro) + 3D Gyro module
Maximum tracking speed	up to 30° /s (each axis)
Azimuth movement	unlimited
Elevation movement	-10° to 90°
Skew movement	Automated ±120° from zero point
Motion system	3-axis servo belt

Power Specification

Power supply	12-36 VDC
Power consumption	20-40 VA

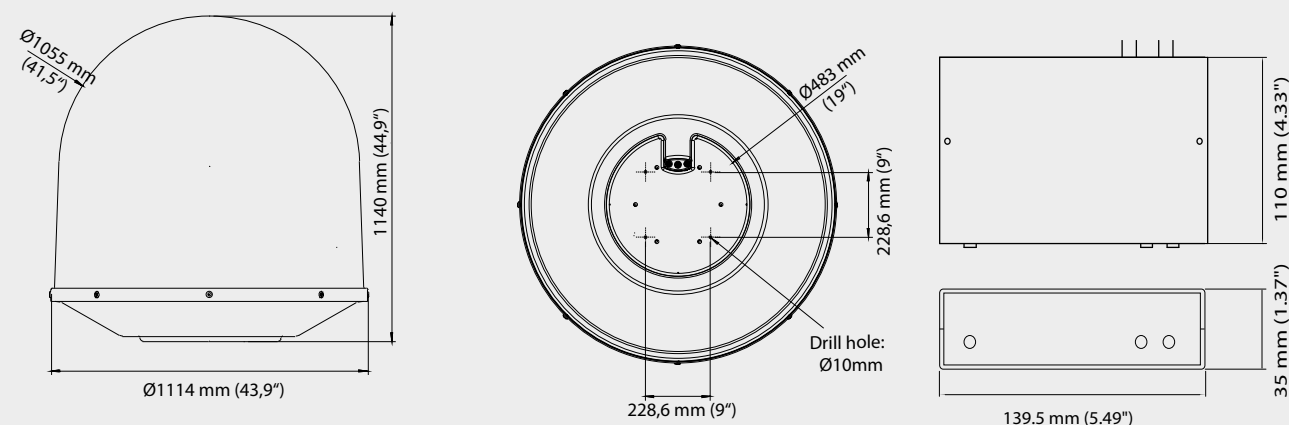
Miscellaneous

Lock on time	typ. 10-20 sec.
Satellite acquisition	Completely automated by SatFingerprint technology
Satellite positions	Up to 4 freely programmable active positions / Preconfigured database
Satellite selection	By control unit or by receiver (via DiSeqC™)
EPAK® Diversity-Kit compatible	✓
Operation temperature	-20°C to 70°C
Storage temperature	-30°C to 85°C

Antenna Control Unit

Power supply	12-20 VDC (powered by receiver)
Power consumption	100 mA
Operating temperature	-20° to 70°C
Storage temperature	-30° to 85°C

Radome and Contro Unit Dimensions



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