# DS9 PRO



## Maritime TVRO antenna for seamless TV reception with 90 cm diameter dish and 3-axis motion system.

EPAK DS9 PRO is a very reliable and robust antenna 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 the quality of onboard television entertainment in High-Definition, in your language and wherever you are. With our Diversity Kit, you can forget about blind spots and signal interruptions, for a flawless and relaxing television experience at sea.



#### Easy installation

Due to its restrained weight for a 90 cm system, the DS9 PRO can be easily transported and refitted.

#### SIM LTE

You can insert two local SIM cards into the antenna's control unit to access low-cost, high-speed Internet when a 3G/4G network is available.

#### No more blind spots

EPAK Diversity Kit combines the free line of sight ranges of two antennas in one bundle. That will prevent nearly any loss of satellite signals through blockades.

#### Sensor-based satellite reacquisition

Instant relock feature after passing obstacles like bridges, buildings, trees etc.

#### All your favourite channels

A large variety of satellites can be remotly stored by the user at anytime through the antenna Web Interface, allowing you to watch all your favourite TV rograms in your language.

#### Multi-user kit

Through connection of multi-user kits an unlimited number of TV places can be served.

#### **KEY FEATURES:**

- 3-axis motion system + auto skew
- Elevation range from -15° to +120°
- Tracking speed up to 50% per axis
- LTE Plug & Go SIM cards
- LEO, MEO, GEO tracking supported
- Easy to install
- High-quality material for operating even under the hardest conditions
- Quattro LNB, for connecting as many receivers you want
- Unlimited azimuth range (no cable unwrap)

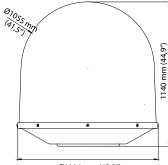


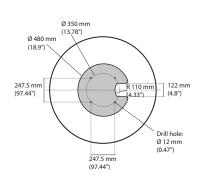
## **TECHNICAL SPECIFICATION**

90 cm (35.4") 43 dBW Universal Linear (LOF 9.75/10.6 GHz) or High-
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Universal Linear (LOF 9.75/10.6 GHz) or High-
band Circular (LOF 10.75 GHz) or other LNB on request
Quattro
10.7 - 12.75 GHz
39.5 dBi @ 12.5 GHz
Internal GNSS (GPS / Glonass / Galileo / Beidou / QZSS)
Internal, 950 - 2150 MHz; BW 0.5 - 50 MHz
Twin RF tracking receiver + 6D inertial + GNSS (NMEA input optional)
50°/s (each axis)
Unlimited
-15° to +120°
Automated -120° to +120°
-45° to +45°
<ul> <li>Roll ±30° @ 6 sec</li> <li>Pitch ±20° @ 6 sec</li> <li>Yaw ±8° @ 6 sec</li> </ul>
<ul> <li>Roll ±30° @ 10-12 sec</li> <li>Pitch ±20° @ 8-10 sec</li> <li>Yaw ±8° @ 15 sec</li> </ul>
3-axis + auto skew
Typ. 30 sec
Completely automated by DVB-S2 & SatFingerprint technology
Customizable through webinterface or control panel
Manually via Control Unit or through web interface
$\checkmark$
-20°C to 55°C
-30°C to 85°C
48 V DC (supplied by ACU)
160 VA
111 cm x 114 cm (43.7" x 44.9")
75 kg (165.35 lbs)
Wooden box
126 cm x 126 cm x 137 cm - 197 kg (49.57" x 49.57" x 54.02" - 434.31 lbs)

Antenna Control Unit	
Dimensions (WxHxD)	48.2 cm x 4.4 cm x 38 cm (18.9" x 1.7" x 14.9") (19" Rack 1HU size)
Weight	5.1 kg (11.24 lbs)
Gyro interface	NMEA0183 / NMEA2000 (via RS422 or RS485 or RS232) / SIMRAD RGC11
Input voltage, frequency	90~264 V AC, 47~63 Hz
Interfaces	<ul> <li>1x NMEA [2 wire]</li> <li>1x R232 [RJ45]</li> <li>1x R5422 (open BMIP) [RJ45]</li> <li>1x Ethernet front [RJ45]</li> <li>3x Ethernet back</li> <li>1x USB front</li> <li>1x USB back</li> <li>2x GPIO (opt.)</li> </ul>
Local user interface	256x64px OLED-Display, 3 Status-LEDs, 6 Push-Buttons
Remote access	TCP / IP
Position acquisition	Supplied by ODU
Operating temperature	-20°C to 55°C
Storage temperature	-40°C to 85°C
Humidity	According to IEC 60945
IP class	IP 30
Compass safe distance	0.5 m according to IEC 60945

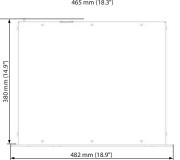
#### Radome and ACU Dimensions





Ø1114 mm (43,9")





Spinnereistr. 7 04179 Leipzig, Germany Phone +49 (0) 341 2 12 02 60 Fax +49 (0) 341 2 12 02 66

#### For more information visit www.epak.de

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