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TYROSOLUTION FROM EPAK Emotions in

otions in high-definition

R-Series

EPAK s R-Series TV antennas are ideally designed for calm waters and especially for cruising on inland waterways. With it's optimized tracking and re-lock performance, R-Series ensures best possible TV enjoyment even under the challenging conditions of urban areas for cruise ships, as well as for cargo ships.

- Elevation range from 5° to 85°
- Built-In GPS module for automatic elevation and polarization angle calculation
- Unlimited azimuth range (no cable unwrap)
- Tracking speed up to 12°/s per axis
- Reliable mechanics
- Light-weight

S-Series

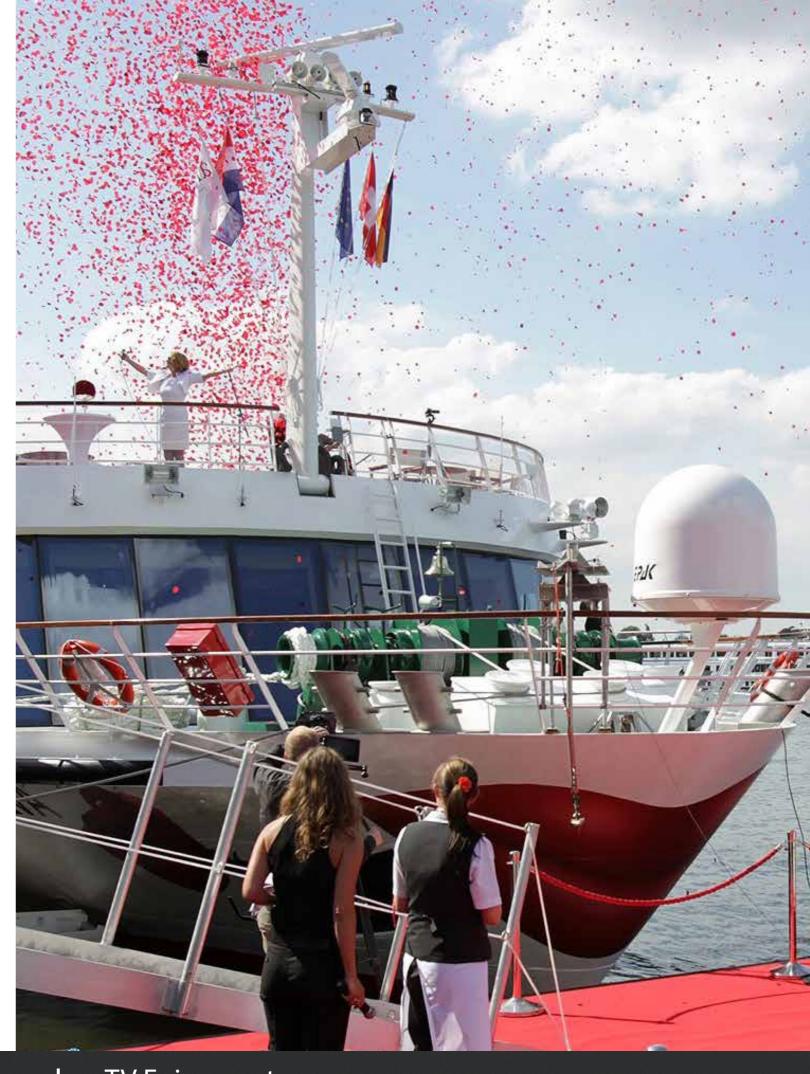
EPAK[®]'s fastest, reliable and popular antennas for TV reception. These antennas are designed for yachts, commercial vessels and for all other maritime vehicles, requiring a performance which is needed in open waters.

- Elevation range from 5° to 85°
- Built-In GPS module for automatic elevation and polarization angle calculation
- Unlimited azimuth range (no cable unwrap)
- Tracking speed up to 40% per axis
- Reliable mechanics
- Light-weight

DS-Series

EPAK[®]'s most powerful and most reliable satellite TV antennas are specifically designed to meet even the hardest requirements in harsh seas. With their automated polarization tracking they guarantee best signal quality even during extreme tilted positions.

- Extended elevation range from -10° to +90°
- Automatic polarization (skew-Angle) control
- Unlimited azimuth range (no cable unwrap)
- Tracking speed up to 30% per axis
- Solid, rugged and robust mechanics



SAT SOLUTION FROM EPAK No compromises.

Benefit from EPAK 's long-term expertise for VSAT antennas supply and airtime provision. Using the patented EBF-Gyro, EPAK VSAT systems guarantee highest network availabilities for broadband services even under hardest conditions. Combined with EPAK soptimized airtime a one-hand solution, called connectivity, is brought to every vessel.

EPAK's VSAT series comply with ETSI 302 340 and are compatible with various modems such as STM, iDirect, Satnet, Hughes, Paradise Datacom, Romantis...

To put it consisely - EPAK is the best choice for a high-quality maritime VSAT communication solution.

Ri-Series

EPAK s answer to the needs of the inland waterways. With its optimized tracking and re-lock performance, Ri-Series ensures best possible online-availability, even under the challenging conditions of urban areas. The automated polarization tracking guarantees best link quality where ever the vessel cruises.

- Elevation range from -10° to +90°
- Simple 3-wire-coax cable connection between ODU and IDU
- Integrated remote management
- Automatic polarization (skew-angle) control
- Unlimited azimuth range (no cable unwrap)
- Tracking speed up to 30% per axis
- · Solid, rugged and robust mechanics

DSi-Series

EPAK s most powerful satellite VSAT antennas are specifically designed to meet even the hardest requirements in harsh seas. With their automated polarization tracking they guarantee excellent network availabilities even under the most challenging conditions.

- Elevation range from -10° to +90°
- Simple 3-wire-coax cable connection between ODU and IDU
- Integrated remote management
- Automatic polarization (skew-angle) control
- Unlimited azimuth range (no cable unwrap)
- Tracking speed up to 30% per axis
- Solid, rugged and robust mechanics





Keep in Touch.

















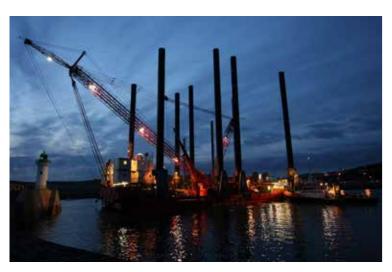


Technical Data - TVRO

	R-Series		S-Series		DS-Series	
Antenna	R4	R6	S4	S6	DS6	DS9
Reflector Diameter	45 cm (17.73")	60 cm (23.62")	45 cm (17.73")	60 cm (23.62")	60 cm (23.62")	90 cm (35.43")
Minimum E.I.R.P.	49 dBW	48 dBW	49 dBW	48 dBW	47 dBW	44 dBW
LNB	Universal linear/circular					
Radome Diameter	550 mm (21.67")	710 mm (27.97")	550 mm (21.67")	710 mm (27.97")	730 mm (28.74")	1114 mm (44.8")
Radome Height	550 mm (21.67")	690 mm (27.19")	550 mm (21.67")	690 mm (27.19")	810 mm (31.88")	1140 mm (55.1")
Weight	12 kg (26.46 lbs)	16 kg (35.27 lbs)	12 kg (26.46 lbs)	16 kg (35.27 lbs)	37 kg (81.57 lbs)	62 kg (136.69 lbs)
Azimuth Range	unlimited					
Elevation Range	5° to 85°	5° to 90°	5° to 85°	5°to 90°	-10° t	o 90°
Skew Range	manual Auto. ± 120° from zero)° from zero		
Drive System	2 axes servo, synchronous belt gears			3 axes servo, synchronous belt gears		
Tracking Sensor	Electronic Beamforming (EBF-Gyro) for Tracking during present sat signal / Solid State Sensor for Tracking during blocked sat signal					
Max. Tracking Speed	> 12 °/s		> 40 °/s		> 30 °/s	
Lock On Time	typ. 10 – 20 sec.					
Power Supply	12 – 36 V DC					
Power Consumption	20 – 40 VA					
Twin availability	✓	✓	✓	✓		
Quattro availability		✓		✓	only	only

Antenna Control Unit (ACU)
Power Supply	12 – 20 VDC, 100 mA, powered by receiver
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™)

System	
Operation Temperature	-20 to +70 °C
Storage Temperature	-30 to +85 °C





Technical Data - VSAT

Antonio	Ri-Series		DSi-Series			
Antenna	Ri6	DSi6	DSi9 Ku	DSi9 Ka		
Reflector Diameter	60 cm (23.62")	60 cm (23.62")	90 cm (35.43")	90 cm (35.43")		
Minimum E.I.R.P.	47 dBW	47 dBW	44 dBW	54 dBW		
LNB	Universal linear / PLL stabilized			Viasat TRIA (LOF 21.2 GHz)		
BUC		PLL stabilized		Viasat TRIA (LOF 27.7 GHz)		
BUC Power	1,5 W / 3 W	1,5 W / 3 W	3W/5W	3 W		
RX/TX Polarization	X-Pol	X-Pol	X-Pol & Co-Pol	RHCP/LHCP swappable		
Radome Diameter	730 mm (28.74")	730 mm (28.74")	1114 mm (44.8")	1114 mm (44.8")		
Radome Height	810 mm (31.88")	810 mm (31.88")	1140 mm (55.1")	1140 mm (55.1")		
Weight (incl. radom)	37 kg (81.57 lbs)	37 kg (81.57 lbs)	65 kg (143.3 lbs)	65 kg (143.3 lbs)		
Azimuth Range	unlimited					
Elevation Range	-10° to 90°					
Skew Range	Automated ± 120° from zero position			Circular polarization		
Drive System	3-axes servo belt			2-axes servo belt		
Tracking Sensor	Electronic Beamforming (EBF-Gyro) for Tracking during present sat signal / Solid State Sensor for Tracking during blocked sat signal					
Max. Tracking Speed	> 12°/s > 30°/s					
Modem/Airtime	EPAK® Approved Services			Viasat Surfbeam 2		
Lock On Time (ODU)	typ. 30 sec.			typ. 60 sec.		
Power Supply	24 VDC via Antenna Control Unit (ACU)					
Power Consumption	20 – 40 VA (only ODU) BUC excluded					
Satellite Acquisition	Completely automated by DVB-S2-Receiver and Modem confirmation					

Antenna Control Unit (A	ACU)
Dimension	19"; 2 HU (482,6 mm × 91 mm × 374 mm)
Power Supply	220 VAC, 50 Hz
Power Consumption	100 VA

System		
Operation Temperature	-20 to +70 °C	
Storage Temperature	-30 to +85 °C	





