

Built on decades of continuous research and development, the new SAILOR XTR TVRO combines the field-proven reliability and RF performance of Sea Tel satellite television systems with the rapid deployment technology, unmatched uptime and ultimate serviceability of the new SAILOR XTR platform. With the new SAILOR XTR TVRO line, you will never miss the breaking news or that vital match-winning moment again.

### Industry leading performance

Enhanced pointing accuracy, incredible satellite tracking, unique blocking zones capabilities and improved radar immunity, as well as the best Ku Band or DirectTV Ka Band coverage available today ensure SAILOR XTR TVRO delivers an incredible viewing experience, whether stationary or on the move. Electronic band switching maintains seamless coverage when transiting between satellite TV regions too.

#### **Unmatched serviceability**

With fewer antenna modules than any other TVRO in the market, the new SAILOR XTR TVRO line offers simplified and streamlined servicing. Rapid Deployment Technology ensures fast and hassle-free roll-out, accelerating operational readiness on single vessels or across entire fleets while maintaining the highest reliability factor. Full IP integration – an industry-first innovation – optimizes serviceability further and accelerates time to fix.

# Full portfolio available now

The SAILOR XTR TVRO line is part of a complete satellite TV portfolio for all vessel types, including 1m Ku and Ku-Ka TVHD antennas as well as the 1.2m Ku and the unique, industry first 1.2m Ku-Ka TVHD antenna joining existing 2.4m and 3.7m systems.

## SAILOR<sub>®</sub> XTR<sup>™</sup> – One platform for all antennas

- **Enhanced serviceability** with unique IP integration opportunity for easy diagnosis for quick and remote problem solving
- **Electronic switchable feed** seamlessly switches between Linear and Circular Ku Band for full flexibility when changing between regions or services
- Superior RF performance for maximum footprint coverage delivers high availability of services globally and an incredible viewing experience at all times
- **Built-in Satellite Library** with over 60 satellite TV profiles to choose from and the ability to create or modify new satellite profiles
- **Simplified hybrid and remote connectivity** including an industry-first built in ethernet port to enable 3rd party devices such as a cellular or other Wi-Fi device.

# SAILOR® 120 XTR TVRO



### For the ultimate TV experience at sea Available as TV for Ku-band and TVHD for Ku- & Ka-band

SYSTEM SPECIFICATIONS			
Reflector size	129.5 cm / 51"		
Certification	Compliant with CE (Maritime), ETSI		
System power supply range	100 - 240 VAC, 50-60 Hz		
Total system power consumption	50 W typical, 80 W max		
FREQUENCY BAND	Ku-band	Ka-band	
TV	10.7 to 12.75 GHz	N/A	
TVHD	10.7 to 12.75 GHz 18.3 to 18.8 GHz,		
	19.7 to 20.2 GHz		
ANTENNA CABLE & CONNECTORS			
ADU to BDU & Multi-switch cables	Five 75 Ω cables with F-Connectors		
Antenna connections	One 50Ω N-Connection for Antenna Control		
	Four 75Ω F-Connections		
	Two $50\Omega$ to $75\Omega$ adapters for Antenna Control Connections		
	included. (ADU-BDU)		
Antenna type, pedestal  Antenna type, reflector system	3-axis (plus auto skow	) stabilized tracking antenna	
	with integrated GNSS supporting		
	GPS, GLONASS and Beidou		
	Reflector/sub-reflector, ring focus		
Minimum EIRP	Ku-band:	Ka-band:	
TV	40.5 dBW	N/A	
	40.5 dBW	44 dBW	
TVHD	40.5 UBW	44 GBW	
LNB Type	Ku band Bud bandu	and decide and an analysis la	
TV		vorldwide programmable	
TVHD	Ku-band only: Dual-band worldwide programmable Ku/Ka-band: Dual-band programable and DIRECTV		
Deleviention		· •	
Polarization	Linear / Circular selectable		
Skew control	Automatic		
Tracking receiver	Internal "all band/modulation type" including e.g.		
Catallita	Power and DVB-S2X	ith and Complete Comp	
Satellite acquisition	Automatic, with and without Gyro/GPS Compass input		
Satellite verification	NID or DSS		
Stabilization accuracy	Peak error <0.2° under specified ship motion		
Elevation range	-15° to +115°		
Azimuth eange	680°		
Ship motion, angular	Roll ±30° (in 6 sec.), Pi		
	and Yaw ±10 ° (in 6 sec.)		
Ship, turning rate and acceleration	15°/s and 15°/s²		
Vibration, operational	Sine: EN 60945 (8.7.2)		
Vibration, survival Temperature (ambient)	Sine: EN 60945 (8.7.2)		
		o +55°C / -13°F to +131°F o +85°C / -40°F to +185°F	
Humidity	Storage: -40°C t 95%, condensing	U 103 C / -40 F (U +183 F	
Humidity Pain / IP class		0.76	
Rain / IP class Wind	EN 60945 Exposed / IPx6		
lce, survival	80 knots operational / 110 knots Survival		
·	25 mm / 1"		
Solar radiation	1120 W/m2 to MIL-STD-810F 505.4		
Compass safe distance	EN 60945		
Maintenance, scheduled	None	Function and holtonic marks and the	
Maintenance, unscheduled	All modules, motor, RF parts and belts are replaceable		
	through service hatch		

Dimensions	1U 19" rack mount		
	HxWxD: 4.4 x 48 x 33 cm / 1.73" x 18.9" x 13"		
Weight	3.6 kg / 8 lbv		
Temperature (ambient)	Operational: -25°C to +55°C / -13°F to +131°F		
	Storage: -40°C to +85°C / -40°F to +185°F		
Humidity	EN 60945 Protected, 95% (non-condensing)		
IP class	IP30		
Compass safe distance	0,3 m / 7" to IEC EN 60945		
Interfaces	$1x$ Male N-Connector for antenna control cable (50 $\!\Omega)$		
	3 x Ethernet (User)		
	1 x Ethernet (Remote access)		
	1 x Ethernet on front for Service and Configuration		
	1 x RJ-45, NMEA 0183 (RS-422 / RS-232) for Gyro/		
	GPS Compass input and external GPS input		
	1 x RJ-45, 4 x General purpose GPIO		
	1 x Universal AC Power Input		
	1 x Grounding bolt		
User Interface	Webserver, OLED display, 5 pushbuttons, 3 discrete		
	indicator LEDs and ON/OFF switch		
Temperature control	Built-in fan		
Blocking zones	Programmable, 8 zones with azimuth and elevation		
Remote management and IoT	HTTPS, SSH, Telnet, SNMP Traps, Syslog, CLI,		
	Diagnostic, Statistic, RESTful, MQTT		

SAILOR XTR BELOW DECK UNIT (BDU)





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Power On Self-Test, Person Activated Self-Test and Continuous Monitoring w. error logging H 178.3 cm / 70.2"

Height:

179 kg / 394.6 lb

Diameter: Ø 166.9 cm / 65.7"

For further information please contact: satcom.maritime@cobhamsatcom.com

Built In Test

Weight

Dimensions (over all)