



NAUTI TVRO 120



TECHNICAL DETAILS

ANTENNA PARAMETERS:

Dish diameter	1,20 m
Radome diameter	1,40 m
Parabolic Dish for 120-2M	single piece 1,2m carbon fiber composite
Above deck equipment	Mass 120 kg with radome
Minimum E.I.R.P.	39 dBW
Down Converter Ku	LNB Quattro, noise figure, 07 dB typical
Frequency band Ku band	10.7 GHz – 12.75 GHz
Polarization	Linear

STABILIZATION:

Stabilization type	Active on three axis, with inertial reference and conical scan tracking
Motors Type	Brushless servomotors
Operation Angles	
Elevation	-30° + 120°
Tilt	+/- 30°
Azimuth	+/- 350°

NAUTISAT srl

SHIP MOVEMENT

RMS pointing error 0.08° for the following ship maximum velocity and acceleration.

Roll	+/- 30° in 6 sec.
Pitch	+/- 30° in 6 sec.
Turning rate	up to 15°/s
Speed	up to 50 knots
Tracking accuracy	+/- 0,1°

RADOME

Type	two pieces, diam. 1,40m
Material	foam/fiberglass sandwich
Attenuation	No rain 0.8 dB

ENVIRONMENT**Above deck**

Temperature	-20°C to +55°C
Humidity	up to 100% at +40°C
Spray and icing	Radome protected
Protection water	splash resistant from every direction
Rain	up to 100 mm/h
Wind	130 Knots
Corrosion metal part hot dip galvanized; all components selected for marine usage	
Vibration Meets Inmarsat requirements	

Below deck

Temperature	0°C to + 40°C
Humidity	Up to 100% R.H. at + 40°C
Power Requirement	220V, 50-60 Hz, 30W

