

NAUTI TVRO 120-2M



Suitable for all vessels, Nauti TVRO models are designed to provide a strong signal for TV and HDTV channels for Ku-band, Ku-Band and C-Band, C-Band, and are compatible with most leading satellite providers in the world.

Very easy to install the TVRO models are real Plug-and-Play Marine antenna systems.

Nautisat marine satellite antenna systems represent the state of art of television receive only system for small, medium and large vessels. Yachts, cruise ships, commercial vessels can travel greater distances offshore and still receive a better signal also at zenith position and even in the harshest marine conditions imaginable. Nautisat antenna systems is suitable also for oil and gas platform.

All models have 3 axis stabilization and can be completely monitored, managed and logged using the Nautisat RWI (Remote Web Interface) or directly from the ACU (antenna control unit) integrated with 4,3" touch screen control panel.

Nautisat - Connecting Fleet

NAUTI 120-2M TVRO (Television Receive Only) STABILIZED ANTENNA

TECHNICAL DETAILS

ANTENNA PARAMETERS

Dish diameter 1,20m

Radome diameter 1,40m

Parabolic Dish for 120-2M Nautisat single piece 1,2m carbon fiber composite

Above deck equipment mass 100 kg

Minimum E.I.R.P. 36 dBW

The minimum E.I.R.P. levels are specified for minimum quality TV picture at receiver threshold for C/N = 7 dB

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 $-30^{\circ} + 120^{\circ}$

Tilt $\pm 30^{\circ}$

Azimuth $\pm 350^{\circ}$

Ship Movement

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

Roll $\pm 30^{\circ}$ in 6 sec.

Pitch $\pm 30^{\circ}$ in 6 sec.

Speed up to 50 knots

Tracking accuracy $\pm 0,1^{\circ}$

RADOME

Type two pieces

Diameter 1,40m

Material foam/fiberglass sandwich

Attenuation No rain < 0.2 dB

ENVIRONMENT

Above deck

Temperature -20°C to $+55^{\circ}\text{C}$

Humidity up to 100% at $+40^{\circ}\text{C}$

Spray and icing Radome protected

Protection water splash resistant from every direction

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 $+40^{\circ}\text{C}$

Humidity Up to 100% R.H. at $+40^{\circ}\text{C}$

Power Requirement 220V, 50-60 Hz, 30W



NAUTISAT
connecting fleet
over the seas

TVRO Models:

- Nauti 60
- Nauti 90
- Nauti 120 - 2
- **Nauti 120- 2 M**
- Nauti 180 Ku
- Nauti 180 Ku + C
- Nauti 240 Ku
- Nauti 240 Ku + C
- Nauti 240 C
- Nauti 300 Ku + C
- Nauti 300 C
- Nauti 360 Ku + C
- Nauti 360 C

CNC Machined Aluminium
and Stainless Steel
modular structure

Maximum Receive
Efficiency with the prime
focus RN Feed

3 axis stabilization system
with independent skew

Extra wide pointing range
with elevation spacing
from -30 to $+120$ degrees
and tilt from -30 to $+30$
degrees

Extreme component
standardization and
maintenance simplicity

Extremely easy to install
and operate

Automatic satellite
pointing and identification

Rugged, accessible and
transparent to radio
frequency radomes

Maximum system
integrability

Remote control interface
through LAN or over
internet