



NAUTISAT
NAUTILAND



TERRESTRIAL LAND MOBILE NAUTILAND 120

The first Italian satellite transponder for communications with vehicle in movement on any terrain. **Nautiland120** is a system that integrates antenna's performance Nautisat VSAT 120 and the power and versatility of the Navara pick-up.

Nautiland120, unlike any other uplink that require work in static and leveled conditions, allows static links without leveling and stable and long lasting links with the vehicle in motion even at high speed or unfavorable road conditions or running off the road as taking advantage of the great features of the Navara.

Nautiland120 is transportable by CH-47 Chinook helicopter

APPLICATIONS

- *Civil Protection*: for the restoration of communications during disasters or natural disasters by exploiting the capabilities of off-road vehicle
- *Area radio* - television: possibility to make live broadcasts of events or events in motion that require long-distance travel.
- *Internet and voice*: provides coverage in situations of inconvenience or disaster recovery.
- *Military*: to ensure links with the troops during operations and report to the General Staff the situation on the ground.



GENERAL ANTENNA NAUTI VSAT120

- The satellite dish of 1.2 m is of the prime focus feeds and share with RF design and production Nautisat. The disc, carbon fiber of high precision, is supported by a basket in which are stored at the BUC, with a power range from 4W to 50W, LNB's, filters and other parts of the RF.
- The antenna is supported by a pedestal with three-axis movement of Azimuth, Elevation and Tilt that will not ever axle alignment
- The ACU is a computer with Linux OS and is controlled from a color display 4.3" touch-screen, very useful to select the various operations and satellites.
- The antenna structure and functional electronic distribution allows a very simple maintenance that can be done by a service user following the instructions in the manual provided.

ANTENNA CIRCULAR APERTURE

Antenna Positioning process:

Automatic tracking antenna on the geographical location using the position and orientation with respect to North, points obtained from GPS data processed by the internal tracking system and ACU computer.

Azimuth	360 degrees without limit
Elevation	-30 ° 120 ° Tilt -30 ° 30 °
Performance stabilization	≤ 0.1 ° RMS
Operating temperature	-32 ° C to 50 ° C
Weight	110 kg antenna; 195 kg antenna with radome
Radome	1.40 m diameter
Height	1.75 m

Characterization approvals class "M" Eutelsat. Designed to meet the quality requirements: FCC, Intelsat, Eutelsat, Europestar, IPSTAR, AsiaSat and Hispasat.

NAVARA GENERAL CHARACTERISTICS

Navara has been chosen by **Nautisat** to the spacious double cabin and the large rear cargo area; Navara allow to install in the cabin electronics parts offering an high standard of comfort for technical crew and in the cargo area is installed antenna **NAUTI VSAT120**. Powerful and stylish, Navara is a perfect blend of style and strength: the raised suspension and pronounced wheel arches provide a formidable axle articulation to tackle even the roughest terrain. Navara faces every climatic conditions: rain, heavy rains, frost, ice.

NAUTISAT srl

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