

OS-mPVT60

60cm Ku-band Marine/Land Portable VSAT Terminal

Data Sheet



1. General

Over-Sat's **OS-mPVT60** a 60cm Maritime and Land Portable VSAT Terminal.
It is an all-included and independent Ku-Band VSAT System.

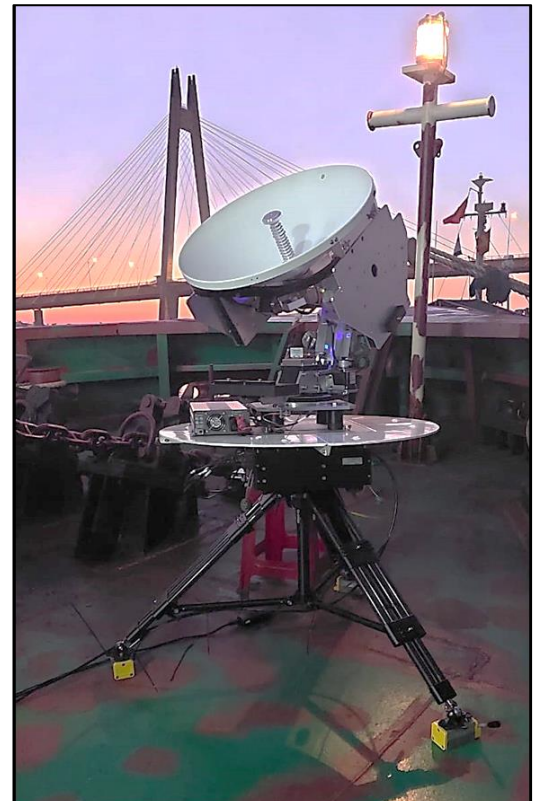
The product is a unique hybrid solution combining two configurations in one system:

- Stabilized Maritime VAST Terminal
- Land, full auto-acquire, VSAT Terminal

The Terminal can be disassembled into three Carry Bags while during operating on a vessel it is mounted with three lift magnets for fixing the system to the deck.

2. System Highlights

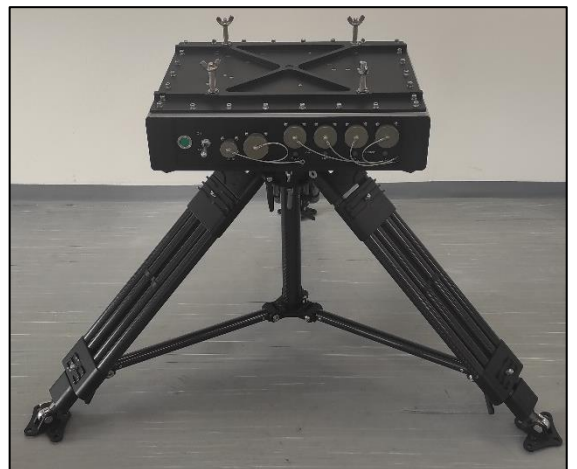
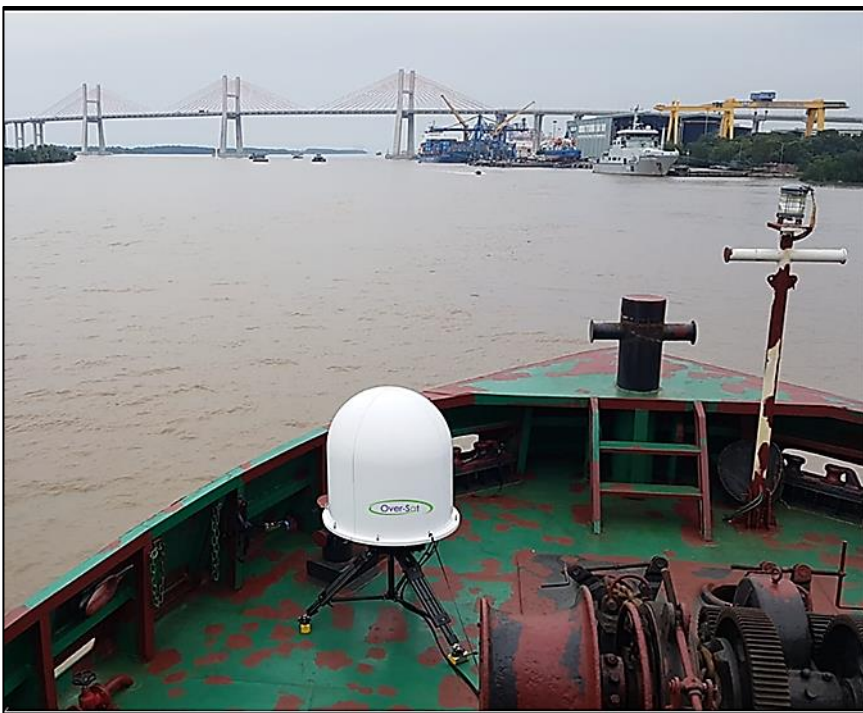
- ❖ Fast deployment: Fully assembled and ready to operate within 30 minutes by 2-3 persons
- ❖ Simple operation: Connect to power source only and switch "Power On" only (after one time configuration)
- ❖ Autonomous: Includes an outdoor Satellite Modem with built in IP Switch, supporting OpenAmip protocol
- ❖ Mounting on vessel: Using bolts or special Lift Magnets
- ❖ Built-in DVB-S2X Tuner: Carrier SNR direct tracking is available
- ❖ Supporting both internal (Free Gyro) and external vessel Gyro information
- ❖ Portable, within three Carry Bags
- ❖ Operates on AC or DC power
- ❖ Web interface - Monitoring and Control (M&C) function and firmware upgrade fully supported via web interface
- ❖ Wi-Fi support - ACU can be operated by Wi-Fi interface
- ❖ Automatic Satellite Search and lock
- ❖ Unlimited Azimuth
- ❖ Accurate Signal Acquisition Distinctive Algorithm
- ❖ Pre-programmed Satellite Database - Editable 80 satellite data



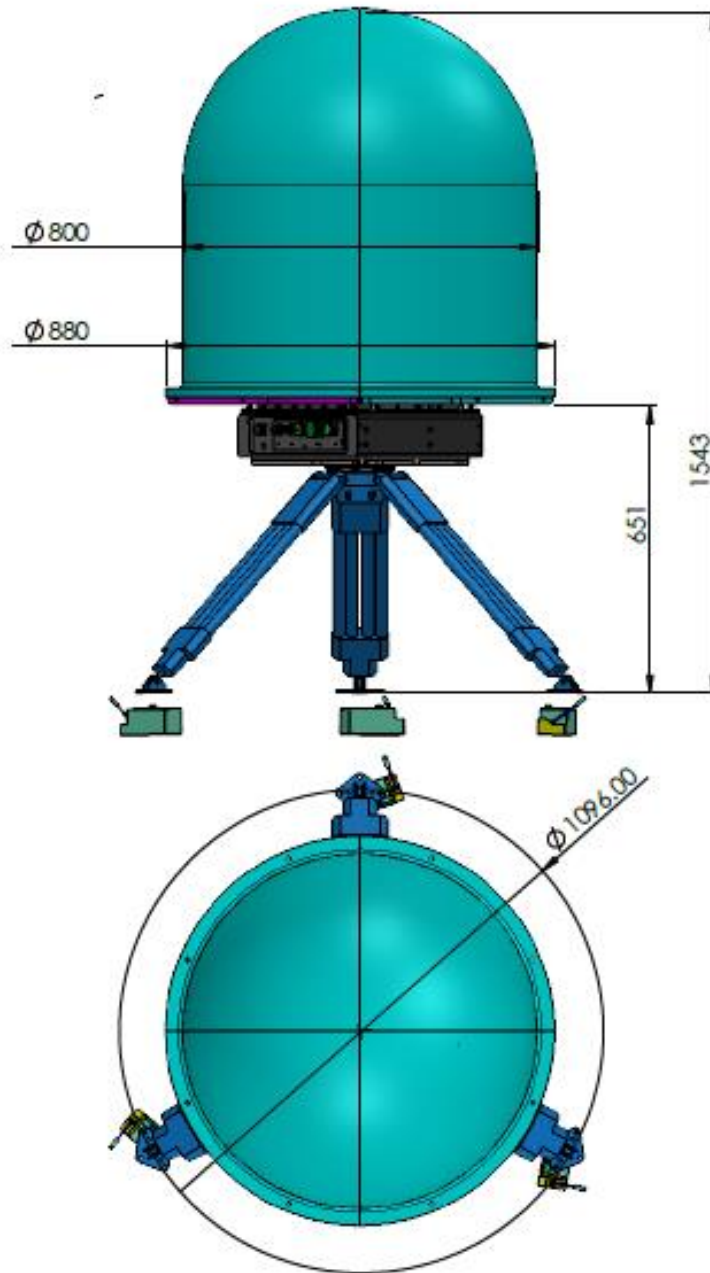
3. Description

The Maritime / Land Portable VSAT Terminal is a 60cm Ku-band stabilized antenna that includes an outdoor ACMU (Antenna Control Unit, Satellite modem & built-in IP switch), DC/AC inverter, Tripod and Lift Magnets.

The system can be carried using three bags and during operation on a Vessel it will use bolts or special three Lift Magnets for fixing the system to the vessel.



Outdoor ACMU (ACU, Satellite modem & built-in IP switch) mounted on a Tripod



4.OS-mPVT60 VSAT Terminal Specifications

VSAT Antenna

Dish Diameter: ~60cm (24")

Radome Material: Honeycomb FRP

Frequency:

- TX : 13.75 ~ 14.50 GHz
- RX : 10.70 ~ 12.75 GHz

Antenna Gain:

- TX : 37.2 dBi @ 14.25 GHz
- RX : 35.7 dBi @ 12.75 GHz

G / T: 14.25 dB/K (in Radome)
@ 30deg. Elevation, 11.75GHz, Clear Sky

Polarization: Linear

Operating Platform: 3- Axis

LNB: Universal LNB

BUC: Ext. Ku 20W

Skew Control: Automatic

Elevation Angle: -10° to +100°

Azimuth Range: Unlimited

Cross-Angle: ± 35°

Ship Motion:

- Roll : ±24° at 8-12 sec periods
- Pitch : ±10° at 6-12 sec periods
- Yaw : ±8° at 15-20 sec periods

Tracking Speed: More than 90°/sec

Vibration Damper: Rubber Damper Included

Electronic Equipment

Outdoor ACMU Includes:

- Antenna Control Unit (ACU)
- Satellite Modem
- IP switch
- Able to operate in AC or DC
- I/O Interface panels

I/O: RS-422, Ethernet

Monitoring: Web Interface Support

Wi-Fi support – for ACU

Gyro: Built-In and Interface for external Gyro
NMEA 0183

Satellite Database - Editable 80 satellite

Environmental

Temperature - 20°C to 55°C

Humidity - Up to 100% @ 40°C

Wind speed - 36m/s (130km/hr)

Vibration, EMC/EMI: qualified for CE standards

Input Power:

- 100~240VAC or 24VDC
- Power consumption 400W Max.

Carry Bags

The system is be carried by three bags

