



**Sitep Italia**  
Vision Beyond Technology

**Automatic VSAT  
Tracking Antenna** Ku Band



**XY MOUNT**

**NO KEY HOLE EFFECT**

**HIGH PERFORMANCES**

**POSSIBLE DOUBLE ANTENNA**

## Overview

Sitep OE-433(V)2 is a compact and light dual antenna TVSAT system for national and international television reception, which allows to receive DVB S1 and S2 from Ku-band satellites.

The high performance of the antenna during tracking operations is based on an innovative concept of X-Y mechanics, without zenith keyholes, which allow excellent performance at the equator.

This design derives from Sitep experience in the military industry and it is designed to operate under the most adverse weather conditions by providing complete stabilization on the three axes (roll, pitch, yaw).

A control unit called Pedestal Control Unit (PCU) mounted directly inside the antenna assembly manages motion sensing using the integrated IMU (Inertial Motion Unit).

Azimuth, elevation and polarization angles are converted into X-Y geometry and automatically stabilized by the PCU.

## Features

- Internet browsing
- Data transfer
- VoIP
- E-MAIL
- VPN
- Wather and char dowland
- Video conferencing



## Automatic VSAT Tracking Antenna Ku Band

### Technical characteristics:

AVAILABLE VERSIONS	80 CM DISH	100 CM DISH
Mount Geometry	X-Y pedestal with automatic skew stabilization	X-Y pedestal with automatic skew stabilization
Reflector	80 cm splash-feed cassegrain	100 cm splash-feed cassegrain
Gain	37.7 dBi @ 12.000 MHz 37.7 dBi @ 12.000 MHz	39.6 dBi @ 12.000 MHz 39.6 dBi @ 12.000 MHz
Buc Output Power	3.5 or 7 WATT	3.5 or 7 WATT
Azimuth Range	+/- 540° or UNLIMITED (optional)	+/- 540° or UNLIMITED (optional)
Elevation Range	0° - 90°	0° - 90°
Stabilization	Six-axial high performance IMU	Six-axial high performance IMU
Ship Motion	ROLL: +/- 30° 10 sec PITCH: +/- 15° 8 sec YAW: 30° / sec	ROLL: +/- 30° 10 sec PITCH: +/- 15° 8 sec YAW: 30° / sec
Radome diameter (cm)	105	130
Dome material	Fiberglass/Honeycomb structure	Fiberglass/Honeycomb structure
RF Attenuation	< 0.3 DB	< 0.3 DB
Weight (Kg)	60	85
GPS	On board antenna receiver	On board antenna receiver
Power Supply (ACU)	115/230 VAC 50/60 Hz	115/230 VAC 50/60 Hz
Power Consumption	250 W MAX 1000W TYP	250 W MAX 1000W TYP

### Options:

- Single Antenna System
- Double Antenna System