

## Two Axis Pedestal with Antenna and Cameras Series USP-T33

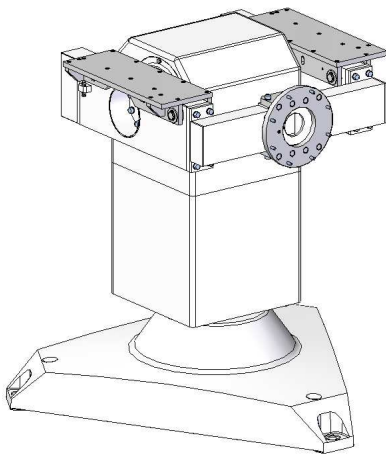
### Features

- Elevation over Azimuth universal sensor pedestal
- Direct drive brushless torquers and direct drive high resolution readout
- For stationary or mobile application
- Adaptable to different and multiple sensors
- Modular design concept
- fast serial interface for command and readout (Ethernet)
- Designed to operate in harsh environment



**USP-T33 with  
Cameras and  
Antenna**

### Description



The azimuth/elevation Universal Sensor Platform Series USP-T33 can be configured to accept a wide variety of payloads. The axes are equipped with direct drive torquers and high resolution encoder. For continuous rotation the azimuth axis can optionally be furnished with slip rings configured to the requirement of the application.

Controller/amplifiers are integrated in the azimuth assembly. Space is provided for optional video tracking hardware, azimuth level sensor and inertial stabilization components. All axes are sealed. The selected materials are corrosion resistant and/or surface treated to withstand harsh land based, shipboard or aircraft environmental conditions. Desiccant capsule reduce the humidity inside the pedestal and by the change in color indicates the need for service.

The U-shaped elevation gimbal has two adjustable camera mounting platforms and a central adjustable plane for the attachment of the antenna. The feature enables precise and stable bore sighting of the sensors. There are provisions to balance the elevation axis.

### Options

- Electronic box in place of the std. three point base plate, sealed with desiccant capsule to prevent condensation.
- Video Target Tracking Electronic interfacing with video cameras customer furnished video camera
- Inertial stabilization with integrated GPS or Glonass signal for timing and position information

# Series USP-T33 with antenna and camera

## Specification Summary

<b>General Configuration</b>	Payload nominal	40 kg nominal (80 kg peak), balanced around the elevation axis
	Power Consumption	500W 230VAC +/-15%, 50 Hz

<b>Performance</b>		<b>Azimuth</b>	<b>Elevation</b>
	Angular freedom (deg) optional	±185deg	-10deg to +195deg unlimited in AZ by adding slip rings
	Position resolution	5 arcsec	5 arcsec
	Position repeatability	±10 arcsec	±10 arcsec
	Position accuracy	±30 arcsec	±30 arcsec
	Rate range in deg/s	±0.01 to 30	±0.01 to 30
	Acceleration (deg/s <sup>2</sup> )	±50	±50
	Wobble (sec)	<±15	<±15
	Perpendicularity	better than ±20 arcsec	
Torque, nominal	40 Nm	40 Nm	

<b>Environment</b>	Operating Temperature	-20°C to +45°C
	Humidity	Mount: Splash-proof
	Altitude	up to 4'000 m above sea level
	Wind load	not exceeding 80Nm in either axis

**Command** Ethernet, at a baud rate of 115200, via a compatible input device or host computer.

## Outline Dimensions

