

NEOS

Nurjana Electro Optical System

Neos is the Nurjana Electro Optical Tracking System for automatic target identification, automatic video tracking and video recording applications.

Standard Features

Motorized Payload Platform

Fully Integrated NT Control Software

Single and Multiple Sensor

Complete Real-Time System

Graphical User Interface

Automated Target Acquisition

Automatic Video Tracking

The Mount is a single heavy-duty unit capable of supporting payloads up to 150kg without losing precision and designed to be a Real-Time long range observation system.

Built-in control electronics and software provides a precise, smooth motion at all speeds, while an integrated slip ring allows a continuous rotation of the pan axis.



Characteristics

Payload Mass: 150kg

Acceleration: $> 120^\circ/s^2$

Skew Rate: $120^\circ/s$

Pointing Accuracy: $\pm 1 \text{ arcsec}$

$-15^\circ\text{C} < T < +45^\circ\text{C}$

Commands Update: $> 50\text{Hz}$

Operate in Saline Environment

Payload Envelope: 200x200x700mm

Sensors and Software

Optical Camera for Tracking and Acquisition

Thermal Imaging Camera

Tracking Camera with Continuous Zoom Lens

Measurement Camera with Fixed Lens

High-Speed Camera

Camera Calibration Software

Camera Lens and Control Software

NT-BLEND Target Tracking Software



Sensor Payload System

File View System Tracking Recording Calibration Tools Debug Help

2020-11-19 19:00:00
FDW: 4.19

IRG: 89
IR: Centroid
SRC: MSCCS

Az: 290.2361
El: 24.3121
Di: 2051.90

Session Panel

Date	Value	Day	Time	Value	Source	Status
2022-02-21		MON	09:34:40.760		PC	ON

Control Panel

Plan Tilt

Position [deg]	Status	Azimuth	Elevation	Distance [m]
NOT VALID		290.2361	24.3121	
Velocity [deg/s]	NOT VALID	0.0000	0.0000	
Manual [deg/s]	NOT ACTIVE	0	0	
Source [deg]	ACTIVE			2051.90
Deviation [deg]	NOT VALID	0	0	

Command Panel

Video Tracker 1 (Main Video)

Status: ☐ Stop ☐ Auto

Detecting

Engage: Center

Algorithm: Blend

Tracking

Algorithm: Correlation

Target Size: Medium

Video Tracker 2 (Secondary Video)

Status: ☐ Stop ☐ Auto

Detecting

Engage: Center

Algorithm: Blend

Tracking

Algorithm: Contrast

Target Size: Medium

Camera

Main Video

Zoom: AUTO

Focus: AUTO

Iris: AUTO

Secondary Video

Zoom: AUTO

Focus: AUTO

Iris: AUTO

NEOS

Main Video

VIDEO 1: Camera VIS

VIDEO 2: Camera IR

Source

MANUAL STOP

VT MV VT SV

MSCCS NOMINAL

GEOPOINT P_sig

Events Manager

Tags	Events/Actions	Options
(E) T0		Delay [s]: 10
(E) Target Position		Azimuth [deg] >= 50.0000
Change Source		Source: Video Tracker 1
Command		Video Tracker: VT 2; Command: Eng

Start MissionBombScoring_2.3.5