

CSI-2001

12in Stabilized Gimbal

Overview

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Overview

The CSI-2001 stabilize sight is a compact and lightweight 12 inch diameter gimbal with high performance that delivery stable and high resolution thermal imagery. The systems compose of a 2-axis platform with numerous payload sensors, an Infrared camera viewing and recognition during conditions of total darkness and daylight, a TV viewing during day and dusk, and a Laser rangefinder for measuring distance to imaged objects.



- Compact 4 Axis Performance
- 100 Micro Radians Stability
- Three Options to chose for Infrared Imagers
- High Resolution TV
- Laser Range Finder
- Friendly Control Panel

Features

- 12 inch Diameter High Stabilized Platform
- Fully Programmable, DSP-based Servos
- High Performance, Solid State Rate Sensors
- Long or Mid Wave cooled or uncooled Infrared Imager
- 1/3" color-3CCD Sensor with 12xZoom Lens
- 570 Television Line Resolution

- RS-422 Bi-Directional Serial Interface
- Lightweight, Robust and Economical
- Environmentally Sealed

Specification

Gimbal	
Stabilization	2-axis Gyroscopic Line of Sight
Stability	100 microradian rms azimuth and pitch
Payload weight	Up to 22 pounds (10Kg)
Azimuth Slew Rate	100° per sec.
Pitch range	+25° to -90°
Pitch Slew Rate	100° per sec.
Weight (without payload)	33 pounds (15Kg)
Power	Dual Torque motors
Azimuth Drive	Direct drive torque motor
Pitch Drive	Dual Torque motor
Servo	Digital drive
Temperature Range	-20° C to +55° C operational -30° C to +70° C storage
Infrared Sensor Options	
Detector	320x240 8-14um FPA uncooled microbolometer
	320x256 Mid Wave 3-5um cooled FPA InSb or MCT sensor
	320x256 Long Wave 8-14um cooled FPA HgCdTe sensor
Lens	Large IR lens matched the gimbal housing
FOV	Dual optic, focus and shutter
RS-170/CCIR Compatible Video output	Yes
Functional interface	Display white/black, Focus near/far, Gain/Level mode automatic/manual, Freeze mode, Symbology, Gray scale, Auto NUC and BIT
TV	
Commercial TV	Available
Image Intensifier	Available
Laser Range Finder	
wavelength	1.54um
Range	300 to 9995 meters
Accuracy	5 meters
Distance resolution	30 meters
Echo Suppression	250 to 3500 meters

Further Detail Information as request

Applications

- Surveillance
- Search and Rescue
- Law Enforcement
- Traffic Control

