



## **ST-HD-IP10KLS**

**10 km Day, 5km Night Long  
Range Laser Camera**

ST-HD-IP10KLS System is a tactical, robust, Day/ Night and long-range surveillance system that provides military and law enforcement agencies with a 24/7 situational awareness. the system has been in house tested for MIL-810 standards to ensure the reliability and durability of the system during critical missions in all weather, environmental and operation conditions.

In addition to the military standards specifications and the IP67 protection rating, ST-HD-IP10KLS system has its upper electronics and mechanical components while providing the clearest image and smoothest movement possible under a wide range of environmental conditions



## Operational Capabilities

The Multi-Sensor ST-HD-IP10KLS System is composed of a laser illuminator with collimator and Day/Night Camera in the same enclosure, mounted on a pan-tilt unit. Day/Night camera allows observation under all weather conditions even in fog, rain or snow. the platform (Pan-Tilt unit) is able to turn cameras in all direction, both in azimuth and elevation and controlled from the operator place or remotely by the existing control room. Integrated Infra-red laser illuminator has synchronized beam with the cameras field of view enables the camera to see in total darkness without emitting any visible light. This makes this system the best low-cost day/night long range observation system without using a thermal camera

## Optical Capabilities

ST-HD-IP10KLS system is equipped with a top-class full HD motorized continuous zoom lens , the zoom power combined with the 2MP CMOS image sensor and the advanced image processing and improved image quality enables the user to monitor large areas efficiently during daytime up to 10Km for human detection.

At night time the powerful synchronized IR laser illuminator-supported by its 40w laser emitter and a 100mm zoom lens-enables clear surveillance in complete darkness up to 5km.





# Pan-Tilt Module

Simple and efficient is what describes the pan-tilt unit. In fully marinated body lies a single powerful motion control driver. it is capable of handling payloads up to 35Kg in full range of motion. Its compact design and low weight make it perfect for integration where space is limited. Multiple slip-ring options make it compatible with most payloads from high frequency antenna applications to Gigabit electro-optical head connections





## Day/Night camera Module

Sensor Type	1/1.9" CMOS
Field of view	40°~0.5°
Optical Zoom	85x Optical Zoom
Pixels (H x V)	1920 (H) x 1080 (V)
Automatic window defrost	Yes
Digital zoom	continuous
Sensitivity	Color 0.02 Lux @ (F2, 25 fps)
Day/Night	Yes, mechanical IR cut filter
Defog filter	Yes, optical and digital
Focus	Auto / Manual
Operating voltage	18-48 Vdc
Operating temperature range	-32°C to +60°C
Video output	Analog (NTSC / PAL) and / or digital (SDI)
Control	Serial, Ethernet
IP rating	IP67, built according to MIL-810

## Laser Illuminator Module

Input Power	< 70W
Output light Power	21±3W
Wavelength	808±3nm
Laser Beam Angle	0.3-50°
Spot Area	< φ16m
Longest Irradiation Distance	≥3000m
Service Life	>20000H



## Pan-Tilt Module

Load capacity / Torque	35 kg / 60 Nm
Pan axis range / angle	n x 360°
Pan axis speed	0.001°/s - 45 °/s
Tilt axis range / angle	± 90°
Tilt axis speed	0.001°/s - 45 °/s
Accuracy	0.02°
Backlash	None
Brake	Self-Locking
Communication to the unit	Eth 10/100 Base-T, RS-232, RS-485/422(optional)
Control protocol	DC-PT protocol

## Environmental

Weight	66 Kg
Dimensions (H x W x L)	323 x 220 x 336 mm
Materials	Aluminium
Operating temperature	-32°C to +65°C

## Electrical Specifications

Operating voltage	24 - 48 VDC
Maximum power	160 W

ALL PICTURES SHOWN ARE FOR ILLUSTRATION PURPOSE ONLY. ACTUAL PRODUCT MAY VARY DUE TO PRODUCT ENHANCEMENT





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