

Intelligent Surveillance

KARASU™ intelligent HD thermal cameras are compatible with a wide range of video surveillance systems such as border, port, coastal, airport protection; private security; marine, field, airborne & drone operations.

The high-tech skillset of the Karasu™ series include laser target designator & rangefinder, target tracking, target positioning, distance & coordinates calculations, image stabilization, weather, terrain and temperature awareness, auto zoom & focus, broadcasting and remote control.







KARASU





TECHNICAL SPECIFICATIONS

Thermal Imaging: SG-TCM06N2-M25225

Field of View; Continuous Optical Zoom: 2° (H) x 1.6° (V) to 17.5° (H) x 14° (V) with 25 x 225 mm lens

Spatial Resolution (IFOV): 0.48 mrad for 25 mm lens - 0.053 mrad for 275 mm lens

Thermal Sensitivity: 30 mK

Detector Type: Uncooled Vox

Array Format: 640x512

Spectral Range: 8 to 14 um

Field of View:

9x continuous zoom and four preset positions

One shot auto focus and manual focus

Continuous Digital Zoom: Yes, up to 16x

Image Processing: Tunable Digital Detail Enhancement (DDE), Histogram Equalization

SYSTEM FEATURES

Built-in Test (BIT)

Window Defrost

Auto Front Lens Cover When Parked

Remote Control:

RS-232, RS485-R422 and Ethernet

PHYSICAL CHARACTERISTICS

Camera Weight: 9 kg

Camera Size (L x W x H):

215x200x200

DAYLIGHT CAMERA

Image Sensor:

Type 1/2.8" CMOS Color Sensor 2.13 Megapixel digital video H.265/H.264/H.264B

Focal Length (Wide to tele) 4.7 mm to 141 mm

F-number (Wide to tele): 15 to 45

Field of View (H) digital video: 2.2°x61.2°

Optical Zoom: 30x Digital Zoom: 16x

Min. Sensitivity: Color: 0.005 Lux/F1.5

PAN & TILT UNIT

Az Range; Az velocity:

n x 360°; 0.05° - 75° /sec continuous

El Range; El velocity:

± 75°; 0.05° - 75° / sec

Accuracy: 1 mrad

Resolution: 0.1 mrad Parking Position: Yes

Programmable Search

Pan Axis Maximum Torque: 70Nm

Tilt Axis Maximum Torque: 70 Nm

Communication Protocols:

Ethernet, RS485, RS422, USB

Number of Sliding Lines: 24 channels

360 Degree Movement Ability Horizontally

Vertical -110/+110 Degree Movement Ability

Pan-tilt Mechanism Weight: Approx. 25 kg

IMAGE PRESENTATION

Video output (Optional) NTSC or PAL composite video

Connector types:: BNC

Video Over IP:

H.264. IR + TV digital videos / HD LR-TV option: Full HD 1080p digital video (H.264)

Power: DC 9-12(Recommend: 12V)

Input Voltage:

220 VAC veva 24-40 VDC

Power Consumption: ~50w

POWER

Input Voltage: 220 VAC veya 24-40 VDC

Power Consumption: ~140W

ENVIRONMENTAL

Operating Temperature Range:

Storage Temperature Range: -45°C to 70°C

PHYSICAL CHARACTERISTICS

System (camera, pan-tilt, tripod) Weight: Approx. 40 kg-50 kg

Automatic Window Defrost

EMC/EMD

CE tested (compliance with the following procedures) Emission: EN61000-6-4:2007 / Immunity: EN61000-6-2:2005 FCC 47 CFR part 15 Class B

Mil-Std-810F, 506.4 - procedure II

Humidity: Mil-Std-810F, 507.4

Sand/dust:

Mil-Std-810F, 510.4 - procedure II

Ice/ freezing rain:

Mil-Std-810F, 521.2 - procedure I

Shock:

Mil-Std-810F, 516.5 - procedure I

Mil-Std-810C, 514.2 - procedure VIII, Sinus Min. of 10 mm and 1.0 g, 1-5-1 Hz

Solar Radiation:

Mil-Std-810F, 505.4 - procedure I. cvcle A1

IP Rating: IP67

INTERFACES

Ethernet

RS-485/422

Bluetooth (Optional)

Wi-Fi (Optional)

RF (Optional)

OPTIONS AVAILABLE

Laser Range Finder (LRF): 100m - 11 km

Geo Positioning (GPS)

Digital Magnetic Compass (DMC)

Automatic Video Tracker including

Electronic Stabilization

Automatic Video Tracker including Electronic Stabilization

Humidity Sensor

Temprature Sensor

Anemometer (Optional)

Raven Compass: Al-Supported HD Visually

Integrated Relative Positioning System:

