

KARAKURT

ELECTRO-OPTIC SENSOR SYSTEM

LASER TARGET DESIGNATOR

HIGH RESOLUTION MID-WAVE IR SENSOR

HD COLOR DAY TV

CONTINUOUS ZOOM (IR AND DAY TV)

AUTO FOCUS (IR AND DAY TV)

NETWORK ENABLED

AUTO MOTION DETECTION

AUTO TARGET-TRACKER

HIGH PERFORMANCE STABILIZATION

STILL IMAGE CAPTURE/ VIDEO RECORD

DIGITAL COMMUNICATION INTERFACE





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ELECTRO-OPTIC SENSOR SYSTEM

Applications

- Border Surveillance
- Coastal Surveillance
- Reconnaissance
- Situational Awareness
- Laser Designation
- Long Range Surveillance
- Law Enforcement

Main Features

- High Resolution Thermal Camera
- Colour/ Continuous Zoom Day TV Camera
- Laser Target Designation
- Digital Video Output
- Automatic Motion Detection and Target Tracking
- High Performance Stabilization
- Advanced User Interface
- Eye Safe Laser Range Finder
- Synchronous Day TV and Thermal Video Output
- Target Location Calculation
- Laser Range Finding
- Automatic Image Optimization and Enhancement
- Continuous Zoom (IR And Day TV)
- Auto Focus (IR And Day TV)
- Built-In Test Capability
- Remote Control Capability

Environmental Conditions

- Operating Temperature : -32°C to +55°C
- Storage Temperature : -40°C to +65°C
- Environmental Spec : MIL-STD-810 G

Accessories

- Toughbook
- External Battery
- Battery Charger
- AC/DC Converter
- Optical Cleaning Kit
- Transportation Case
- Cable Set
- Monitor

Power Interface

- Power Input : 20V-32V (Nominal 28 VDC)

Video Interface

- Digital : Ethernet
- HD-SDI

Communication Interface

- 1 Gigabit Ethernet

Technical Specifications

Thermal Camera

- Sensor Type : Cooled, 1024x768 (3-5 μ m)
- Cool-Down Time : <7 min (Room Temperature)
- E-zoom : 2X
- Gain/Brightness Control : Auto or Manual
- Focus : Auto or Manual
- Continuous Zoom Capability
- Field of View
 - Horizontal x Vertical (\pm 10°)
 - Narrow : 1°x0.75°
 - Narrow - Mid : 3.0°x2.25°
 - Mid : 5.0°x3.75°
 - Mid - Wide : 10.0°x7.5°
 - Wide : 15.0°x11.25°

DayTV Camera

- Sensor Type : CCD or CMOS
- E-zoom : 12X
- Continuous Zoom Capability
- Field of View
 - Horizontal x Vertical (\pm 10°)
 - Narrow : 1.3°x0.73°
 - Narrow - Mid : 3.0°x1.7°
 - Mid : 5.0°x2.8°
 - Mid - Wide : 10.0°x5.6°
 - Wide : 15.0°x8.4°

Laser Range Finder

- Type : Class 1, Eye Safe, 1.54 μ m
- Wavelength : 1540 \pm 30 nm
- Range : Up to 20 km
- Accuracy : \pm 5m
- Measurement Frequency : 10 measurement/minute

Laser Target Designator

- Laser Wavelength : 1064 nm
- Pulse Energy : >80 mJ
- Coding : STANAG 3733, Band I and II, User Defined Coding

Designation Range

- 6 km for 2.3m x 2.3m targets
- 15 km for 10m x 10m targets

