





HomeLand Security Products & Solutions

Eagle Vision EV3000-D IR

Dual camera system for 24/7 surveillance Stainless Steel 316L enclosure and Pan/Tilt

Eagle Vision

24/7 security system

Day - Night - Dark

A World without Darkness

EAGLE VISION, A cutting-edge night surveillance camera for High Security Applications

Eagle Vision Day/Night Cameras Cameras Cameras Cameras

 A series of high resolution cameras meeting the imaging needs of all light levels With High performance zoom lenses made for middle and long range applications

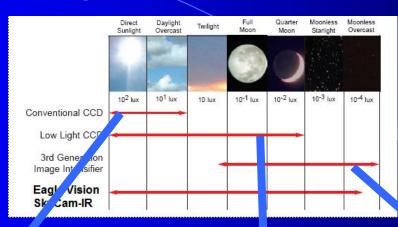


United Vision solutions, Co. info@unitedvisionsolutions.co

www.unitedvisionsolutions.com www.longrangecamera.com

10 Center St., Suite 401 &402, Chicopee, MA, USA 01013

What Is Eagle Vision Camera System?



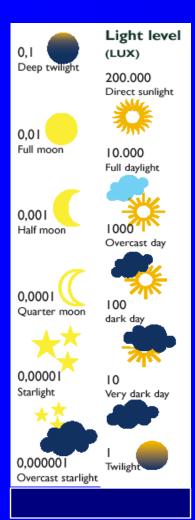


At day time color sensor is active 2 km with 2x1500mm At night-time auto switch to night sensor with sensitivity .00006 lux Image at 8:33 pm

User can active thermal sensor anytime using trigger button on the screen

Day/Night EV-3000 dual vision

Dual Sensors: Color Video Camera and IR Thermal Camera for Night Vision





High Resolution color video camera
Long Range Lenses 1000mm with 2X
IR Thermal Camera night Vision Sensor
Rugged Housing, Sealed and Pressurized
Control Board for Pan/Tilt/Zoom
Mil-Spec Connectors
RS232, RS485, and TCP/IP interface

EV-3000 cameras are a series of Dual Optics Sensors cameras providing high image quality, ultra low-light sensitivity at night and high color video resolution at day. The whole family performs extremely well in all environmental conditions. A wide spectral sensitivity range facilitates perfect images to be produced no matter whether the user operates on water, snow, desert, rocky and barren land, and even where the light conditions are down to heavily overcast starlight.

Key Features:

24/7 Long Range Surveillance System Color At Day Time Ultra Low Sensitivity EM-CCD at night time Thermal camera for total dark 0 lux Detection range up to 20 km Micro-step target tracking Motion Detector and Event Trigger Digital Video recording with Date/Time stamp Analogue and Digital Display

System Modules:

- Day/Night Camera.
- Thermal Camera.
- Micro-Step Pan/tilt unit.
- Video Stabilizer
- Video decoding.
- Power Supply .
- Software Management System.
- Target Tracking module.

System Highlights

System Highlights

Thermal Imager Tri-FOV

- 3-5 micron InSb detector
- 640X480 format
- DFOV
- 100/500 mm lenses

Pan/Tilt resolution

High performance, brushless, maintenance-free step motors provide very precise, extremely effective motion control with preset and 0-360 degree endless rotation

Day/Night Camera

- 1/2" High-Resolution EMCCD
- 0.00025 Lux Minimum Illumination
- Lens 10-500mm / 20-1000mm
- Reproduces full colour, full motion images in starlight conditions

Sensor Platform

- Heavy Duty, Stabilized Pan/Tilt
- Stainless Steel Enclosure,
- Explosive-proof

This product can be used where the explosive gas can be produced such as petroleum refining factory, Petro chemistry, Chemical Synthesis Plant and Power plant and it is apt to be corroded in salt such as shore or ship due to its material Stainless Steel 316 against corrosion.

Copyright © United vision solutions, 2007

System Highlights

REAL-TIME TARGET TRACKING

Enables end-user to track an object in motion, six tracking algorithms:

- 1) Dynamic Centroid,
- 2) Hottest Spot Tracking,
- 3) Dynamic Correlation,
- 4) Motion Detection,
- 5) Threshold tracking,
- Edge Tracking.

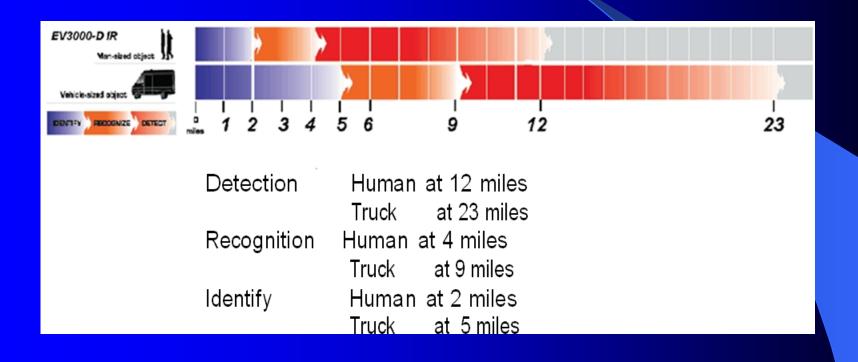
Video Stabilizer

- Digital Real Time Video Stabilization
- Sharp details for high quality video

CCTV software with TCP/IP

- Full control of Thermal / Day-Night / Pan/Tilt
- Using standard Protocol Pelco-D
- SDK software librarym for developing Control Software locally

EV3000 Range Chart



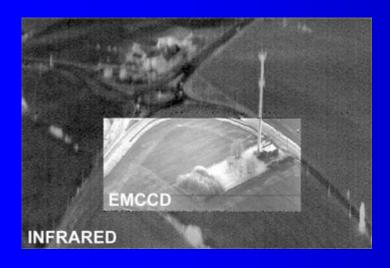
Day/Night Camera Highlights

A new 1/2 inch EM-CCD with electron multiplication is used to achieve exceptional sensitivity.

Color in full motion mode: 0.0009 lux Color Accumulation mode: 0.000015 lux

Monochrome in full motion mode: 0.00005 lux Monochrome Accumulation mode: 0.0000008 lux

Typical high sensitivity cameras use an Image Intensifier Tube that is subject to burn in, afterimage (lag) and short life span. These problems are eliminated with the use of the EM-CCD.



Flight trials compared the EMCCD with infrared modules under starlight conditions.

EMCCD Ultra Low Light CCD Color Camera



Reproduces full color, full motion images in starlight conditions

Thermal Camera Highlights

thermal imaging system built around a highly sensitive mid-wave infrared detector. The dual field-of-view telescope allows the system to track vehicles at ranges exceeding 20 km.

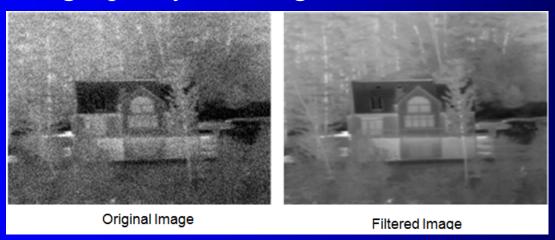
Sensor Type (InSb) with resolution 640x480

Pixel Pitch | 15µm

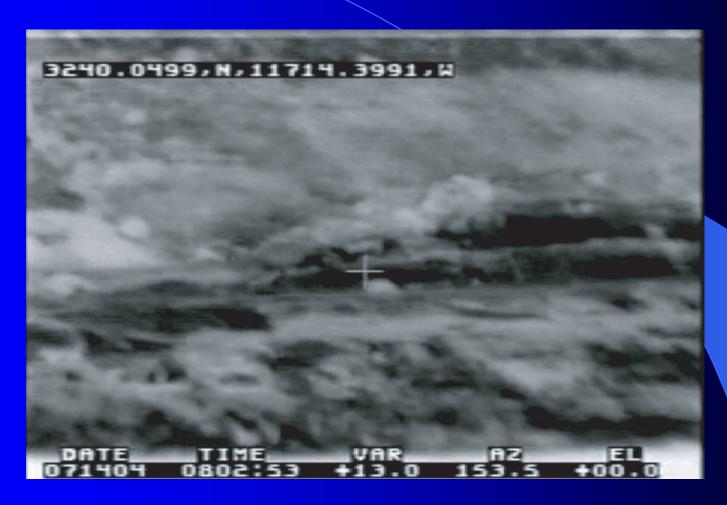
Spectral Range | 3.4 - 5.0µm

Lenses | 100-500mm

Unmatched image quality with Digital Detail Enhancement (DDE)



Long Range Thermal Camera 20+ KM detection



Truck at 22km

Lenses Highlights

24 hours surveillance for super long distance
Refocusing is not required on all focal length position
10-500mm/20-1000mm with 2x Extender
day & night with Super-Apochromat
High resolution
Focal Length 10 - 500 mm / 20 - 1000 mm (2x Ext.)
Angle Field of View

W: 35.5 x 27.0 / 35.5 x 27.0 (2x Ext.)

 $T: 0.7 \times 0.6 / 0.4 \times 0.3$ (2x Ext.)

Pan/Tilt Highlights

•Rotating angle Pan 0° ~Endless/Tilt - 70° ~+ 20° ± 5°

•Rotating speed Pan :0.1°~ 25°/sec, Tilt :0.1°~ 20°/sec

Motor Step motor

•Temperature -25°C to +50°C

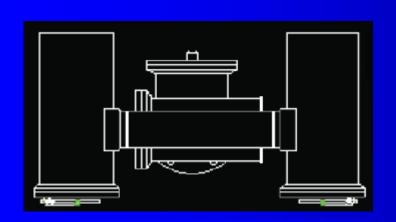
•Preset 000~127(128 Presets)

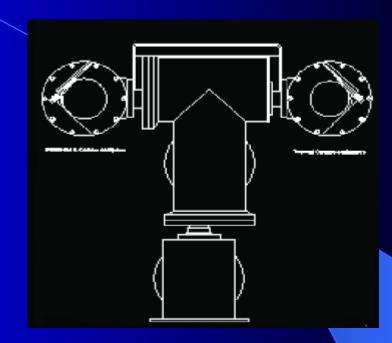
•Interface RS-485

•Receiver address 000~255(256 Addresses)

EV3000 can be used where the explosive gas can be produced such as petroleum refining factory, Petro chemistry, Chemical Synthesis Plant and Power plant and it is apt to be corroded in salt such as shore or ship due to its material Stainless Steel 316 against corrosion.

Forget rust and salt air corrosion



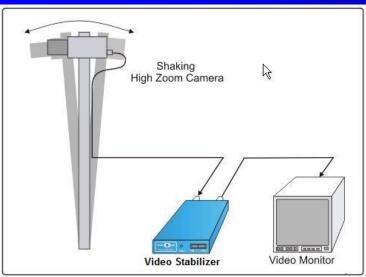


Heavy Duty Stainless Steel Enclosure, Stabilized Pan/Tilt Option (EXPLOSION PROOF Exd IIC T5)

This product can be used where the explosive gas can be produced such as petroleum refining factory, Petro chemistry, Chemical Synthesis Plant and Power plant and it is apt to be corroded in salt such as shore or ship due to its material Stainless Steel 316 against corrosion.

Video Stabilizer







Raw shaky video from Pole mounted camera



Steadied video coming from Video Stabilizer

Applications:

- > Town centre CCTV
- > Cross-border monitoring
- > Long-range covert surveillance
- > Mobile recording
- > Video post-processing

Video Server / Software

- View and record up to 50 cameras
- Live view of up to 16 cameras simultaneously in 4, 6, 9, 10,
 13, 16-split views, full screen 4, 9, 16-split view
- the viewer perceives full motion up to 30 fps
- video Scheduled and event driven recording and a powerful recording search
- High quality recordings in H.264, MPEG-4 and Motion JPEG
- Control of PTZ and EV3000-S camera functions, switch camera between day and night modes, increase night vision sensitivity, control wiper and washer
- Remote viewing and control
- Preset positions and Guard Tour functions
- Multilingual support for English, French, Italian, German and Spanish
 Copyright © United vision solutions, 2007

Video Server / Software

Minimum system requirements

Windows Vista Business, XP Professional, 2008 Server, 2003

Server, Windows Media Player 11 or later

Always use the latest service packs

Microsoft .NET runtime environment (included in installation package)

Minimum computer requirements -client

CPU: Intel P4 or higher, 2 GHz (Intel Core 2 Quad recommended for larger systems)

RAM: 1 GB (4 GB recommended for larger systems)

Screen: 1024x768

Graphics card with DirectX 9.0c or later and Real video memory

of 256 MB or more, use latest graphics card driver

Minimum computer requirements – server

CPU: Intel P4 or higher, 2 GHz (Intel Xeon recommended for larger systems)

1 GB RAM (4 GB recommended for larger systems)

Recommended network

100 Megabit network (Gigabit network recommended for larger systems)

Recommended hard disk configuration

At 30 fps in VGA: up to 15 cameras per hard disk

Special Functions

Motion Detection:

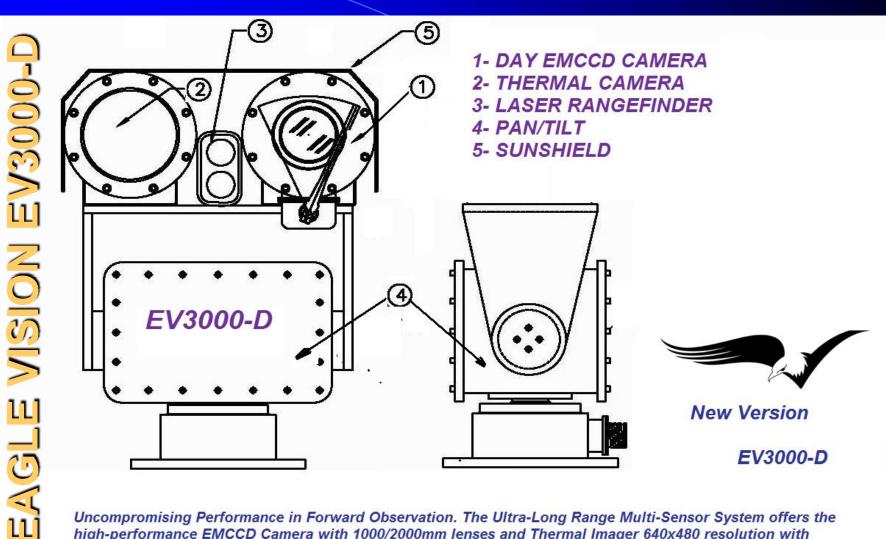
Motion can be detected by Camera Station. Recording only when motion is detected will save hard disk space compared to other options such as recording continuously. The advantage of having the camera trigger an alarm or recording is that it takes the processing load off the server.

Target Tracking:
 Real time tracking of selected targets using a choice of high performance algorithms.

Video Decoding:
 The Video Decoder is ideal when there is a need to display live video on an analog monitor as wall-screen

The Video Decoder can be configured to keep track of multiple events continuously, as well as to switch between video sources at given time intervals. With auto-connect on alarm for example when motion is detected, video can be displayed instantly, allowing the operator to take appropriate action. Large areas can be monitored anywhere the network goes, by switching between up to 128 different video sources. The Video Decoder is ideal when there is a need to display live video on an analog monitor,

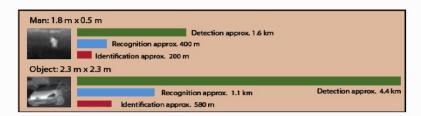




Uncompromising Performance in Forward Observation. The Ultra-Long Range Multi-Sensor System offers the high-performance EMCCD Camera with 1000/2000mm lenses and Thermal Imager 640x480 resolution with 100/500mm IR lens. Laser rangfinder upto 20km. The ruggedized Stainless Steel enclosure of the assembly is designed to be used in extreme harsh environments.

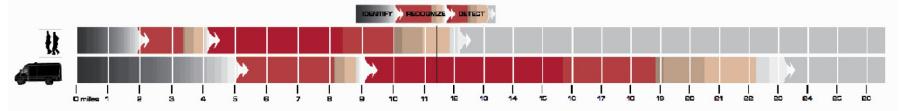


EV3000 with uncooled thermal IR 100mm and EMCCD 300mm for day/dark/night 24/7



United Vision Solutions, LLC

10 center St., suite 401&402, Chicopee, MA 01013 www.longrangecamera.com +1-413-592-8477 info@unitedvisionsolutions.com



EV3000 with cooled thermal IR camera 500mm, and EMCCD 500/1000mm day camera

EV3000 use thermal energy to penetrate the atmospheric obscurants better and farther than visible light, allowing you to see what's out there through haze, smoke, dust and even light fog. Day and night, through good weather and bad, close up and far away



Thermal IR, EMCCD high resolution Stainless Steel Enclosure and Pan/Tilt Pelco-D protocol, power 110/220VAC

Wiper, Washer, and Sunshield Anti-rust, anti-salt and anti-corrosion TCP/IP Interface, RS485 serial control Video Server Axis, and Video Stabilizer









Customer

U.S. Army Corps of Engineers **US** Air Force **US** coast Guard **US** central Command **NASA** Johns Hopkins University CA Police department Mexico Navy Mexico Oil Company Finland Navy

Applications

Military Bases

Government Buildings

Oil Refineries

Under Ground Garages

Nuclear Power Plants

Border Check Points

Coast Guard

Embassies

Prisons

Courthouses / Banks / Mints

Airports / Ports

Munitions Plants

Contact Us

- 10 Center Suite 401 & 402, Chicopee, MA 01013, USA
- +1-413-592-8477
- info@unitedvisionsolutions.com

www.longrangecamera.com www.unitedvisionsolutions.com