

UVSS

United Vision Security Solutions
Long Range IR Night-Vision Camera Systems

FST. 2000



UVSS

FST. 2000

EV3000

Off-Shore/Harbor/Border/Marine/Navy
Long Range Camera System





System Highlights

EV3000-EXD-IR100

Long Range Camera System for 24/7 surveillance
Meets NEMA Type 4X and IP66 Standards



EXPLOSION PROOF
 Class I, Zone 1, AEx d IIB, Ex d IIB

Forget rust and salt air corrosion

Day/Night Camera

- 1/2" High-Resolution EMCCD
- 0.0009/0.00005 Lux Minimum Illumination
- IR uncooled thermal night vision
- Reproduces full colour, full motion images in starlight conditions

Pan/Tilt resolution

The pan/tilt has been engineered to meet the rigorous requirements of explosionproof and dust-ignition-proof electrical equipment installed in Class I (Group C and D) and Class II, (Group E, F, and G) hazardous locations.

CCTV software with TCP/IP

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

Options

SunShield Video Stabilizer
 Fiber-Optics single/multi mode

Lenses

Day Camera 10-500mm

Night Thermo Vision 100mm

Sensor Platform

- The EV3000-EX Series is a long range explosionproof camera systems are used in explosive and hazardous atmospheres. They are designed to meet the rigorous requirements of explosionproof and dust-ignitionproof electrical equipment for installation and use in hazardous locations. These enclosures are also waterproof and dust tight.

CERTIFICATIONS/RATINGS

- CE
- UL/cUL
- Classified by Underwriters Laboratories Inc. as to explosion and fire hazard only
- Type 4X for use in hazardous locations
- Class I, Groups C and D – Class II, Groups E, F, and G
- Class I, Zone 1, AEx d IIB, Ex d IIB
- 03 ATEX 0318166U • 0539 Ex II 2 G EEx d IIB
- Ex II 2 D, IP 66
- Suitable for marine outside (saltwater) use, for vessels over 65 feet in length

IP66



US

United Vision Security Systems
a world without darkness

WWW.LongRangeCamera.com

10 Center St., Suite 401 & 402

Chicopee MA 01013 USA

413-592-8477

info@ev3000.com



SYSTEM SPECIFICATIONS

Imaging device	
Imaging device	1/2-inch interline EM-CCD
Total pixels	680(H) x 500(V)
Minimum subject illumination	0.0009 lx (Color in full motion) 0.00005 lx (Monochrome in full motion) 0.000015 lx (Color 64 time accumulation) 0.0000008 lx (Monochrome 64 time accumulation) Maximum Sensitivity setup, F1.2, 50 IRE

Lenses	
500mm	50X
100mm	IR

PAN/Tilt	
Pan 0-355° movement in horizontal plane	Speed 6°/sec ±1°
Tilt ±90° movement in vertical plane	Speed 3°/sec ±0.5°

Video Standard Real Time Compression	MPEG-4 @ 30 fps
Configuration	Via Web Browser
PTZ protocol	Pelco-D

ENVIRONMENTAL	
Operating Temperature	10° to +140°F-
Meets NEMA Type 4X Standards	
Explosionproof gland (supplied)	

Power	
24VDC/24VAC/110 VAC/ 220VAC	

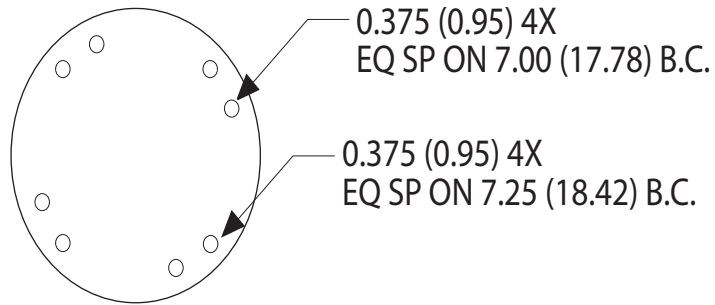
EV3000-EX

Automatic Day – Night - Dark - Fog

New ! EMCCD Sensor

Dual sensor 500mm/100mm

Zoom Lenses



Mounting Base

NOTE: VALUES IN PARENTHESES ARE CENTIMETERS; ALL OTHERS ARE INCHES.

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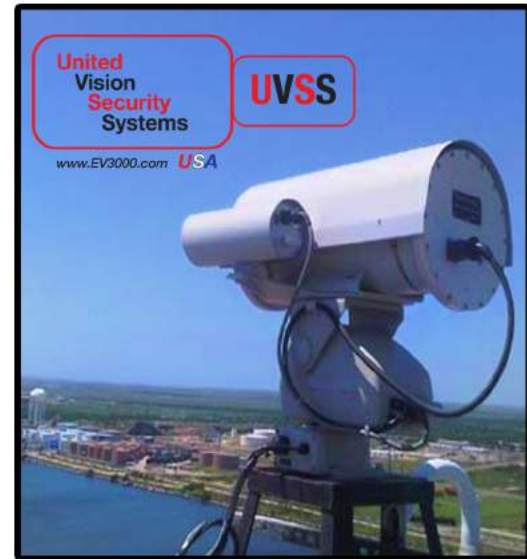
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IR Thermal / Color Cameras

- All Weather Rugged Housing resists high humidity, salt water, and rust
- Special cooling system to reduce heat by 15° C
- 128 preset positions for perimeter scanning
- Pelco-D protocols that can be integrated with any other pre-existing CCTV system or Radar.
- Enviromentally sealed
- Image overlay combines thermal and video image
- The EV3000 CCD or EMCCD color night vision camera provides high resolution full color images from full sunlight down to quarter moonlight, and thereafter monochrome images down to starlight.



IR Thermal Imager

- 640x480 or 320x240 Detector
- Un-cooled 7-14 Micron
- Auto-Focus
- 100mm Lenses
- Digital Detail Enhancement (DDE)

Day/Night Camera

- 1/2" (1.27 cm) High-Resolution CCD or EMCCD
- 0.03 lx / 0.000008 lx (Sensup on)
- Lens 12-660/30-1680mm - 55x Optical Zoom
- Reproduces full color, full motion images in fog and low light

Sensor Platform

- Heavy Duty, Stabilized Pan/Tilt
- Rugged housing for marine applications
- This product can be used in any marine applications and harsh environments
- Includes Anti-Rust and Anti-Corrosion with full sealed housing and Pan-Tilt
- Great for shores, sea ports or ships

Pan/Tilt Resolution

- High performance, brushless, maintenance-free step motors provide very precise and extremely effective motion control with presets and full 360° endless rotation

Options

- Digital Real-Time Video Stabilization
- TCP/IP Interface
- Washer and Wiper



Model Specifications

EV3000-D-IR100

Thermal Resolution

320 x 240

IR Focal Lenses

100mm

Day Lenses

10-330mm

Detection Range

1-4 km (~0.6-2.5 mi)

Day/Low Light ✓

Dark/Fog/Smoke ✓

Man: 1.8 m x 0.5 m



Detection approx. 1.6 km



Recognition approx. 400 m



Identification approx. 200 m

Object: 2.3 m x 2.3 m



Detection approx. 4.4 km



Recognition approx. 1.1 km



Identification approx. 580 m

Model Specifications

EV3000-D-IR100 H

Thermal Resolution

640 x 480

IR Focal Lenses

100mm

Day Lenses

10-330mm

Detection Range

3-6 km (~1.9-3.7 mi)

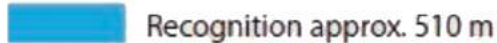
Day/Low Light ✓

Dark/Fog/Smoke ✓

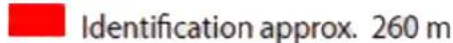
Man: 1.8 m x 0.5 m



Detection approx. 1950 m



Recognition approx. 510 m



Identification approx. 260 m

Object: 2.3 m x 2.3 m



Detection approx. 5000 m



Recognition approx. 1400 m



Identification approx. 720 m

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EV3000

Model D-IR-100, D-IR-100H

Eagle Vision Dual Sensors

FEATURES		EV3000-D-IR-100	EV3000-D-IR-100H
Thermal Imaging	Detector type	Focal Plane Array/ uncooled microbolometer	Focal Plane Array/ uncooled microbolometer
	Pixel Count (Resolution)	324 X 256	644 X 512
	Spectral Response	7.5 to 13 μ m	
	Image processing	Automatic Gain Control (AGC), Digital Detail Enhancement (DDE)	
	FOV (H X V) Digital Zoom Focal Length (mm)	7° (H) x 5° (V) 2X, 4X (100H model) 100 mm	
Video	Sensor	1/2 inch CCD High sensitivity color / monochrome camera or 1/2 inch EMCCD	
	Field of View	40.84° to 0.69° (12-660mm) 15.12° to 0.27° (30-1580mm)	
	Zoom	Optical: 55X 12-660mm/30-1680mm with 2.5 extender	
	Illumination	0.000008 lx with setup	
Pan & Tilt	Azimuth Control	360° continuous	
	Elevation Control	-90° +45°	
	Pan & Tilt Slew Rate	0 seconds to 60 seconds	
	Pointing Accuracy	Pan \pm 0.1° / Tilt \pm 0.1°	
Power	Power Source	10 - 28 VDC through supplied 110 /220 VAC power supply	
Environmental Characteristics	Operating Temperature	-40° C to 60° C	
	Environmental Sealing	Fully ruggedized IP66	

Thermal / Color Cameras

- **All Stainless Steel, Rugged Housing**
 - Anti-Corrosion, Anti Rust, High humidity and salt water resistant.
- **Special cooling system to reduce heat by 15° C**
- **128 preset positions for perimeter scanning with a tour function**
- **Pelco-D protocols that can be integrated with any other pre-existing CCTV system.**
- **Environmentally sealed**
- **Image overlay combines thermal and video image**
- **The EV3000 CCD or EMCCD color night vision camera provides high resolution full color images from full sunlight down to quarter moonlight, and thereafter monochrome images down to starlight.**



Thermal Imager

- 640 x 480
- Un-cooled 7-14 Micron
- DFOV, Zoom, Digital Zoom,
- 50/250mm Lens

Day/Night Camera

- 1/2" (1.27 cm) High-Resolution EMCCD
- Min. Illumination < 200µlux
- Lens 16.7mm-1000/33
- 2000mm Optical Zoom
- Reproduces full color, full motion images in fog and low light, and starlight conditions

CCTV with TCP/IP

- Full control of Thermal, Day-Night, Pan/Tilt using Standard Protocol Pelco-D

Sensor Platform

- Heavy Duty, Stabilized Pan/Tilt
- Stainless Steel Enclosure
- This product can be used in any marine applications and harsh environments
- Includes Anti-Rust and Anti-Corrosion with full sealed housing and Pan-Tilt
- Great for shores, sea ports or ships

Pan/Tilt Resolution

- High performance, brushless, maintenance-free step motors provide very precise and extremely effective motion control with presets and full 360° endless rotation

Options

- Digital Real-Time Video Stabilization
- Washer and Wiper
- 5 or 10 ITR

Model Specifications

EV3000-D-IR250

Thermal Resolution

640 x 480

IR Focal Lenses

50/250mm

Day Lenses

10-550mm

Detection Range

3-6 km (~1.9-3.7 mi)

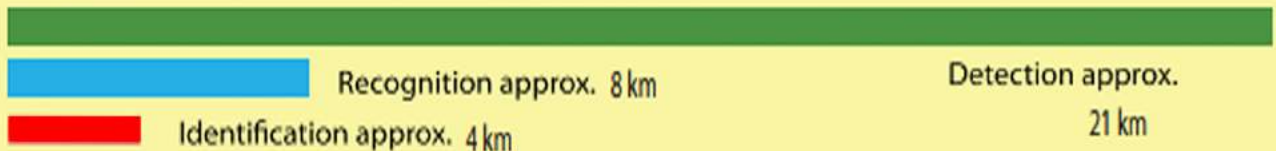
Day/Low Light ✓

Dark/Fog/Smoke ✓

Man: 1.8 m x 0.5 m



Object: 2.3 m x 2.3 m



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EV3000 Model D-IR-100, D-IR-250

Eagle Vision Dual Sensor

FEATURES		EV3000-D-IR-100	EV3000-D-IR-250
Thermal Imaging	Detector type	Focal Plane Array/ uncooled microbolometer	Indium Antimonide (InSb); 640x480 detector ,
	Pixel Count (Resolution)	320 X 240, 25µm micron pitch	15µm micron pitch, high-resolution has 4-times the picture clarity of cameras that use medium format 320x240
	Spectral Response	7.5 to 13 µm	3 - 5 µm
	Image processing	Automatic Gain Control (AGC), Digital Detail Enhancement (DDE)	Digital Detail Enhancement (DDE) On/Standby/Off, Auto & manual Level, manual Gain, Polarity, reticle on/off/select, Non-Uniformity Correction, Change FOV, Focus
	FOV (H X V)	7° (H) x 5° (V)	11.0° x 8.2° (WFOV) to 2.2° x 1.6° (NFOV)
	Digital Zoom	2X	2X, 4X
	Focal Length (mm)	100 mm	50x250mm
Video	Sensor	1/2 inch EM-CCD with electron multiplication High sensitivity color / monochrome camera	
	Field of View (D x H x V)	20° 53' x 15° 55' (WIDE) 0° 11' x 0° .08' (TELE)	
	Zoom	Optical: 60X 16.7-1000mm/33-2000mm 60X optical zoom	
	Illumination	Minimum illumination < 200µlux	
Pan & Tilt	Azimuth Control	360° continuous	
	Elevation Control	± 90 °	
	Pan & Tilt Slew Rate	0 seconds to 60 seconds	
	Pointing Accuracy	Pan ± 0.1° / Tilt ± 0.1°	
Power	Power Source	10 - 28 VDC through supplied 110 /220 VAC power supply	
Environmental Characteristics	Operating Temperature	-40° C to 60° C	
	Environmental Sealing	Fully ruggedized/Mil-STD-810E, NEMA 4 and IP68	

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EV3000 Series Demo

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Eagle Vision Dual Sensors



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Customers

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U.S ARMY CORPS OF ENGINEERS



EGYPTIAN AIR FORCE



U.S AIR FORCE



INDIAN AIR FORCE

U.S. AIR FORCE



U.S COAST GUARD



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MEXICAN NAVY



SAUDI ARAMCO OIL



FINNISH NAVY



EGYPTIAN NAVY



PEMEX OIL



Contact Us

EST. 2000

Office:

**10 Center Street #401, 402
Chicopee MA, 01013**

Telephone Inquiry/Sales:

**+1 (413) 592-8477 US & Canada
+1 (413) 591-8477 International**

Email:

info@ev3000.com

www.ev3000.com



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