

# UVSS

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

*FST. 2000*



# UVSS

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## EV3000

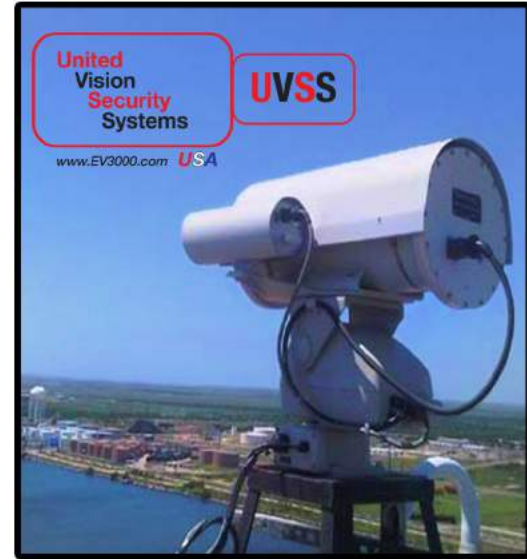
Off-Shore/Harbor/Border/Marine/Navy  
Long Range Camera System





### 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

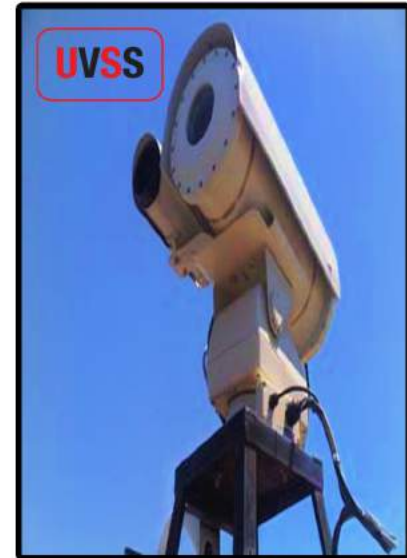
- Heavy Duty, Stabilized Pan/Tilt
- Rugged housing for marine applications
- This product can be used in any marine applications and harsh enviroments
- Includes Anti-Rust and Anti-Corrosion with full sealed housing and Pan-Tilt
- Great for shores, sea ports or ships

#### 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)

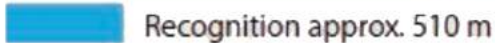
Day/Low Light ✓

Dark/Fog/Smoke ✓

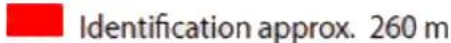
Man: 1.8 m x 0.5 m



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 $\mu$ 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)

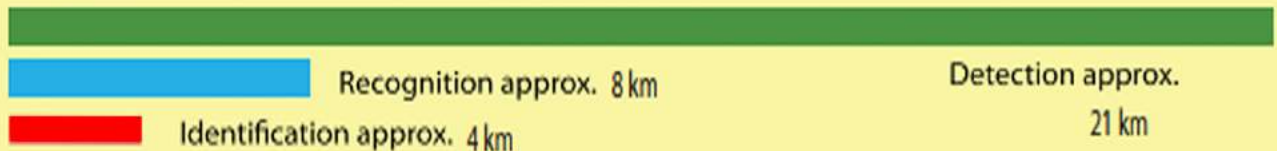
*Day/Low Light* ✓

*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 , 15µm micron pitch, high-resolution has 4-times the picture clarity of cameras that use medium format 320x240
	Pixel Count (Resolution)	320 X 240, 25µm micron pitch	
	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 COAST GUARD**



**CANADIAN ROYAL POLICE**



**U.S CENTRAL COMMAND**



**BROWNSVILLE TX PORT**



**NASA**



**NANTUCKET MA PORT**



**MEXICAN NAVY**



**SAUDI ARAMCO OIL**



**FINNISH NAVY**



**PEMEX OIL**



**EGYPTIAN NAVY**



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# **United Vision Security Systems**

*A world without darkness...*