

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





Long Range Surveillance System

Vision Surveillance Camera System that Never Sleeps

EV3000 EMCCD

With its built-in night vision Electron Multiplying CCD the Eagle Vision has a light sensitivity that is more than 100 times better than average. The fact that this camera has been selected as the solution for the unmanned surveillance needs of military front lines proves its capability.



CCD VISIBLE

EMCCD

2 AM with full moon





Eagle Vision EV3000-S
Carbon/Stainless Steel
Camera System

Stainless Steel Camera System, PTZ Color camera

- All Weather Carbon/Stainless Steel Rugged Housing
Anti-corrosion, Anti Rust, resist high humidity and salt water.
Special Reflective paint to reduce heat by 15 degree.
- 128 preset positions for perimeter scanning, Tour function
- Pelco-D protocols , can be integrated with any other CCTV system.
- Camera and pan/Tilt are fully sealed, Maintenance Free .
- Automatic-iris camera system with Backlight compensation to produce an optimum camera picture under a wide variation in light level
- The EV3000-S Ultra high sensitivity Day/Night Camera for 24 hours a day surveillance



Day/Night Camera

- 1/2" High-Resolution EMCCD
0.0009 lx (color)
- Lenses with optical zoom

10-330mm	33X	zoom
10-550mm/20-1100mm	55X	Zoom
25-750mm	30X	Zoom
12.5-750mm/25-1500mm	60X	Zoom
15-820mm	55X	Zoom
16.7-1000mm/33-2000mm	60X	Zoom
- Reproduces full colour, full motion images in starlight conditions

Sensor Platform

- Heavy Duty, Stabilized Pan/Tilt
- Carbon/Stainless Steel Enclosure,

This product can be used in any marine applications for harsh environment. Anti-rust, Anti-corrosion, full sealed camera, IR and Pan-Tilt. Great for shore, sea ports or ship due to its material Carbon/Stainless Steel.

Options

- * Wiper & Wassher
- * TCP/IP JPEG and MPEG-4 streams

CCTV software with TCP/IP

- Full control of Zoom/Focus/Pan/Tilt
25/30 fps, MPEG-4
Using standard Keyboard for PTZ
RS485 or TCP/IP

Pan/Tilt

0-355 Pan with 0-360 option
-90 to + 90 Tilt



United Vision Security Systems

A world without darkness...



Main Specifications

Imaging device	1/2-inch interline EM-CCD
Total pixels	680(H) x 500(V)
Effective pixels	658(H) x 489(V)
Imaging area	6.58(H) x 4.89(V) mm
Pixel pitch	10.0(H) x 10.0(V) μ m (Square pixel)
Scanning system	2: 1 Interlace
Scanning frequency	Horizontal 15.734 kHz Vertical 59.94 Hz
Synchronization	Internal
Video output	
VBS output	Video 0.7 Vp-p Plus terminal nature
Sync	0.3 Vp-p Negative polarity
Burst	0.3 Vp-p, More than 8 cycles
Impedance	75 Ω Un-balancing.
Signal-processing system	Digital processing (Input 10 bit)
Signal to noise ratio (S/N)	50 dB or more (luminosity signal, Gamma OFF, minimum gain, without detail boost)
Resolution	Horizontal: 480 lines Vertical: 350 lines (In the central part)
Minimum photographic	0.009 lx (Color in full motion, maximum sensitivity setup, F1.4, 50 IRE)
Sensitivity (Gain) setup	Auto or a manual (factory set-AUTO)
Electronic shutter	Shutter: 7 steps /AES (factory set-OFF) OFF(1/60), 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 sec
Accumulation magnification setup	Auto or a fixed change is possible. (factory set-OFF) 2, 4, 6, 8, 10, 16, 32, 64 times
Backlight compensation	An ON/OFF change is possible (factory set-OFF) Light-measurement area: Nine area to selection is possible.
The output for auto iris lenses	(Square shape 4 pin, JEITA conformity) A galvanometer system/video signal
White balance control	From the following three modes to selection (factory set-ATW) ATW: The mode which follows automatically AWC: The mode which holds a white balance after an automatic setup MANUAL: They are red and the mode which carries out blue gain adjustment and unites a white with manual operation
Camera title character display	A display is possible to 22 characters in an alphanumeric character and a sign A setup to either of two upper and lower sides of a screen is possible in the position of a character.
B/W Mode	OFF: The mode of fixation on a color image On: In high sensitivity monochrome image mode AUTO: With luminous intensity OFF of high sensitivity monochrome image, the mode where ON changes automatically In addition, it changes, as for luminous intensity from 3 stages of the HI, the MID and the LOW selective possibility
Picture quality adjustment menu	Following to the menu indication of the picture, various picture quality adjustments and mode selection are possible
DNR	Change of AUTO / MANU (8 steps) (factory set-AUTO)

Option IP version video Streaming with PC software

Video encoder	
Video compression	MPEG-4 Part 2 (ISO/IEC 14496-2) Motion JPEG
Resolutions	160x120 to 704x576
Frame rate MPEG-4	Up to 30/25 (NTSC/PAL) fps at 2CIF, 21/17 fps at 4CIF
Frame rate Motion JPEG	Up to 30/25 (NTSC/PAL) fps at 4CIF
Video streaming	Simultaneous MPEG-4 and Motion JPEG Controllable frame rate and bandwidth VBR/CBR MPEG-4
Image settings	Compression, color, rotation, aspect ratio correction, mirroring Text and image overlay Privacy mask De-interlace filter
Pan/Tilt/Zoom	Wide range of analog PTZ cameras supported (drivers available for download at www.axis.com) 20 presets/camera Guard tour PTZ control queue Supports Windows compatible joysticks
Network	
Security	Password protection, IP address filtering, HTTPS encryption, IEEE 802.1X network access control, digest authentication, user access log
Supported protocols	IPv4/v6, HTTP, HTTPS, QoS layer 3 DiffServ, FTP, SMTP, Bonjour, UPnP, SNMPv1/v2c/v3(MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS

Pan / Tilt

Pan	angle	0-360 (Endless)
	speed	0.1° ~ 60°/sec

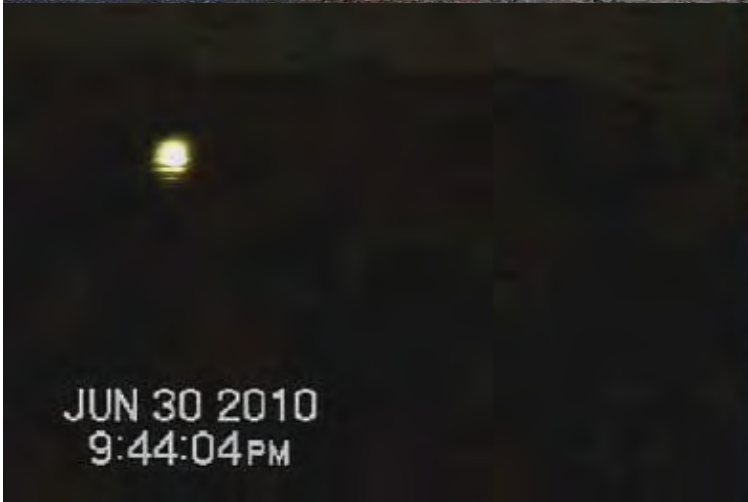
Tilt	angle	-60° ~ +30°
	speed	0.1° ~ 30°/sec

Electric Power	240W
Input Power	AC100~240V Free Voltage
Temperature	-20 ~ +60



EV3000-ST	FEATURES
EV3000-S-432 36X optical EV3000-S-264 22X optical EV3000-S-432-IR EV3000-S-264-IR IR integrated 50-100 meters	<ul style="list-style-type: none"> * CCD 1/4 type ExView HAD CCD * Resolution 530 TVL * Lens Zoom 36x Optical and 12 Digital, total 432X power zoom * S/N Ratio More than 50 dB * Min Illumination 1.5 / 0.5 lux * Viewing Angle 57.8° (wide) to 1.7° (tele zoom)
	<ul style="list-style-type: none"> * CCD 1/4 type ExView HAD CCD * Resolution 530TVL * Lens Zoom 22x Optical and 12 Digital, total 264X power zoom * S/N Ratio More than 50 dB * Min Illumination 0.1/.01 lux * Viewing Angle 48.0° (wide end) to 2.8° (tele zoom)
EV3000-S-CCD-XXXX XXX 330 for 33X 330mm lens XXX 550 for 55X 550/1100mm lens XXX 660 for 55X 660/1680mm lens XXX 750 for 25X 750mm lens XXX 750 for 60X 750/1500mm lens XXX 825 for 55X 825mm lens XXX 1000 for 60X 1000/2000mm lens	<ul style="list-style-type: none"> * CCD 1/2" CCD Sensor * Resolution 540 TVL * Min Illumination 0.09 lux (Color), 0.008 lux(B&W) * S/N Ratio More than 50dB * Cost effective Day/Night Camera System
EV3000-S-EMCCD-XXXX XXX 330 for 33X 330mm lens XXX 550 for 55X 550/1100mm lens XXX 660 for 55X 660/1680mm lens XXX 750 for 25X 750mm lens XXX 750 for 60X 750/1500mm lens XXX 825 for 55X 825mm lens XXX 1000 for 60X 1000/2000mm lens	<ul style="list-style-type: none"> * EMCCD 1/2" type EMCCD * Resolution 530TVL * Lens Zoom from 550/1100 to 1000/2000mm optical * Min Illumination 0.0009 / .000015 lux * Long Range Starlight Day/Night Camera System

Material	Stainless Steel	
Pan	0-355°	option 0-360°
Tilt	-90° +90°	
Pan & Tilt Slew Rate	upto 60 degrees per second	
Communication	RS485	option TCP/IP RJ45
Power Source	110 / 220 / 24 VAC	
Operating Temperature	-20° C to 55° C option -40° C to 60° C	
Environmental Sealing	Fully ruggedized IP66	



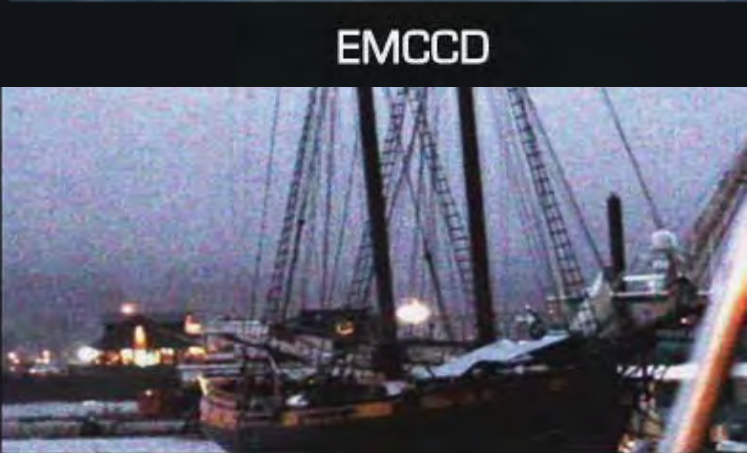
CCD VISIBLE



EMCCD



VISIBLE



EMCCD

United Vision Security Systems

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Eagle Vision EV3000
Camera System
Color EMCCD

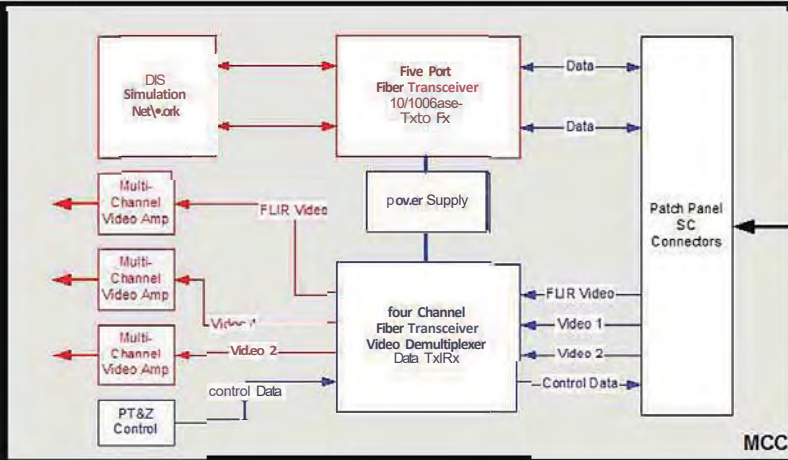


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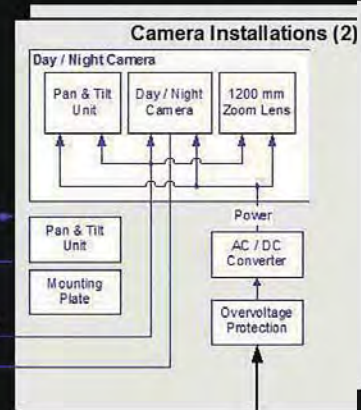
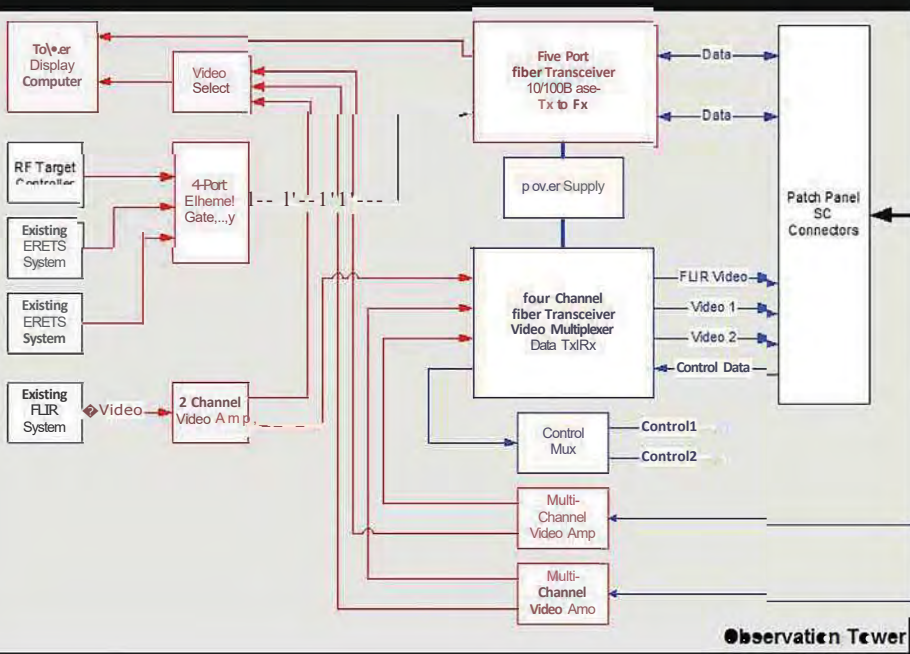
Off-Shore/Harbor/Border/Marine/Navy
Long Range Camera System



United Vision Solution, LLC
www.longrangecamera.com

USAirforce Long range Camera system.

Using Fiber Optics for communication and Integrated with FUR Thermal Camera System





Coastal, Ports, offshore, and Marine applications

4.0x Zoom from 20m to 80m (3x optical zoom) with 2x digital zoom

Resolution: 640x480 (VGA)

Frame rate: 30 FPS (1/30 sec)

Shutter: 1/500 sec

Exposure: 1/500 sec

ISO: 100 - 1600 (Auto)

White Balance: Auto

Video: 720p (1080i)

Power: 12VDC (5W)

Weight: 1.5kg

Dimensions: 100x100x100mm

The Eagle Hawk is equipped with Full Thermal Range

Temperature Range	Position Range
1500K - 2500K	1500m - 2500m
1000K - 1500K	1000m - 1500m
500K - 1000K	500m - 1000m
0K - 500K	0m - 500m

The contribution and position range of thermal cameras

Target & Distance

1000m - 2500m: 1500K - 2500K

500m - 1000m: 1000K - 1500K

0m - 500m: 500K - 1000K

1000m - 2500m: 1500K - 2500K

500m - 1000m: 1000K - 1500K

0m - 500m: 500K - 1000K

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United Vision Company Profile

Mexican Navy Long Range Surveillance System

In December 2007, we were asked by Mexican military through local company to deploy a surveillance system that could have the potential to perform surveillance in Mexican ports for long range targets in low light conditions, the required system shall be able to obtain a clear image of targets located within a radius of 10 to 15 km, in addition to long range it was required system can handle harsh environment as it will be installed near ocean, where corrosion is an issue.

The accepted system was based on the technology supplied by United Vision Solutions to install both the camera & the lens within a high grade stainless steel vandalism resistant Pan-Tilt & Zoom (PTZ) unit for marine use manufactured by United Vision, which allows end-user not only to control the Pan/Tilt/Zoom/Focus of the camera but also all the functionality of both the camera & the lens either in operation control room or inside main control room.

The first Long Range Surveillance System was successfully installed in May 2008. The last 3 systems were installed between November 2008 & January 2009. These systems are installed and fully operational today by Mexican Navy personal in 4 separate geographic locations in Mexico, two systems are in different ports in the Pacific coast and other two monitoring ports in the Atlantic coast.

Each system is controlled locally using computer via TCP/IP, in addition to control camera the computer is working as DVR for 30 days, an CCTV software installed in each operation control room allows only authorized hosts to view & control the system, and then each system is linked via a digital connection (fiber-optics) to central headquarters in Mexico City, where images received are displayed in a central control room, and authorized end users can control any of the systems & record the images obtained for further analysis.

This solution had two additional challenges: first, in the last 3 installations the systems had to be installed in facilities where the existing buildings did not have the necessary height to obtain a satisfactory surveillance of the ports; and second, in the proposed locations where a future system would be installed there were no TCP/IP connectivity.

The height challenge was solved by the construction of 2 stainless steel towers in the chosen location in 2 sites, at the top of which the full systems were installed and the 3rd installation the system was installed at the top of a water tank that had both the height & surface needed to support it. Actual heights of stainless steel towers are 35 and 35 meters (114 & 147 feet).

We provided a special mounting to reduce vibration effect when tele-zooming and system is very stable even operate during high wind weather, in addition to special mounting we are using Video stabilizer to illuminate vibration effects.

For the site where fiber optics was not available, we used TCP/IP wireless links to connect the Long Range Surveillance Systems to nearest fiber-optics point, In the last installation the distance between the System & nearest fiber-optics location where 24 km LOS.

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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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