

# UVSS

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

*FST. 2000*



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## EV3000

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





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## EV3000

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

### SkyCam-IP

Long Range 24/7 camera system  
Pressurized Outdoor Enclosure

#### FEATURES:

The SkyCam series is designed to be maintenance free and to meet stringent environmental standards.

Include High-Resolution Color 1/3" or 1/2" CCD camera

Minimum illumination 0.0003 lux B&W mode

Hi Speed- Outdoor Heavy duty Pan/Tilt with preset, tour and auto scan

Video Standard: NTSC or PAL

Motorized Lenses from 300mm to 1100mm, Motorized Zoom, Focus, and Auto IRIS

Outdoor Environmental Enclosure Meets NEMA 6, IP 67 standards

Live view in Motion JPEG or MPEG-2, 4



Comprehensive video management software for monitoring, recording, playback and event management with image improvement using Image Enhancer.

**Get the picture... Day/Night.**



## SkyCam IP day/night

IP-Surveillance

### Camera specifications

Image sensor	Diagonal 6mm (1/3") Sony DS CCD
Total Pixels	811(H) x 508(V) NTSC / 795(H) x 596(V) PAL
Effective Pixels	768(H) x 494(V) NTSC / 752(H) x 582(V) PAL
Filter	Automatic mechanical IR cut filter
Resolution	Color : 560 TV Lines B/W : 700 TV Lines
shutter Speed	1/60 ~ 1/120,000 sec
Synchronisation	Internal / Line Lock
Min. Illumination	0.001 Lux (Color Sens-up), 0.00004 Lux (B/W Sens-up)
Signal/Noise ratio	52 dB (AGC Off, Weight ON)
Back Light Compensation (BLC)	On/Off
White balance	ATW / AWC / Manual / Outdoor / Indoor (1800°K ~10,500°K)
Automatic Gain Control (AGC)	LOW / HIGH / OFF
IRIS Control	DC / Video
<b>Optical zoom module</b>	
Lens	300mm, 550mm, and 750mm
Zoom	motorized zoom 25X
Angle of view	from 11.8° (WIDE end) to 0.5° (TELE end)
Minimum illumination	0.01 lux and .0003 lux with sense-up
Zoom/Focus/IRIS	Motorized Zoom, and Focus Auto video IRIS

Oil Refineries

Military Bases

Border Check Points

Airports / Ports

### Pan/Tilt & Enclosure

Pan Rotation	0-355° (0-360° option)
Tilt Rotation	90° down from horizontal; 60° up from horizontal
Pan/Tilt Resolution	5° (0.1° option recommended for long range)
Ambient Temperature	-10°F to 140°F (-23°C to 60°C) Heater blanket (Option) Allows operation to -50°F (-45°C).
Environmental housing	pressurized enclosure with sun shroud and insulating rated IP66 and NEMA 4X, Construction of Aluminum. Finish Gray polyester powder coat

### Computer Software

#### Camera Control Software

The Camera Station is an IP-Surveillance software that works with SkyCam cameras to provide video monitoring, recording and event management functionalities.

High quality recordings in Motion-JPEG and MPEG-4

Enables control of PTZ

View and record live video from camera

Image Enhancer improves the clarity of images taken in poor conditions such as fog, smoke, rain or snow (Option)

#### Camera communication interface

RJ45 TCP/IP Interface

### Available Options

Power supply	220 VAC, 110VAC, 24 VAC, 24 VDC, and 12 VDC
Installed protocol	Pelco-D , other protocols are available upon request
Telemetry control interface	RS485 option TCP/IP
Mounting	Custom kits for pole, tower, and side building

### Models

SkyCam-IP-300  
SkyCam-IP-550  
SkyCam-IP-750

## SkyCam Day/Night Camera System

### FEATURES:

- 25x, 55X, and 110X Zooming capability
- Include low lux, super BLC and color 1/2" CCD camera
- Minimum illumination 0.002 lux
- Hi Speed- Outdoor Fast Pan/Tilt Hi Zoom with preset as options
- Video Standard: NTSC
- Optional Night Vision IR Gen II, Gen III and IR-Laser illuminator
- Outdoor Environmental Enclosure Heater blanket (option) Allows operation to -50°F (-45°C).
- Serial control support Pelco D/P Protocol



**Get the picture... Day/Night.**



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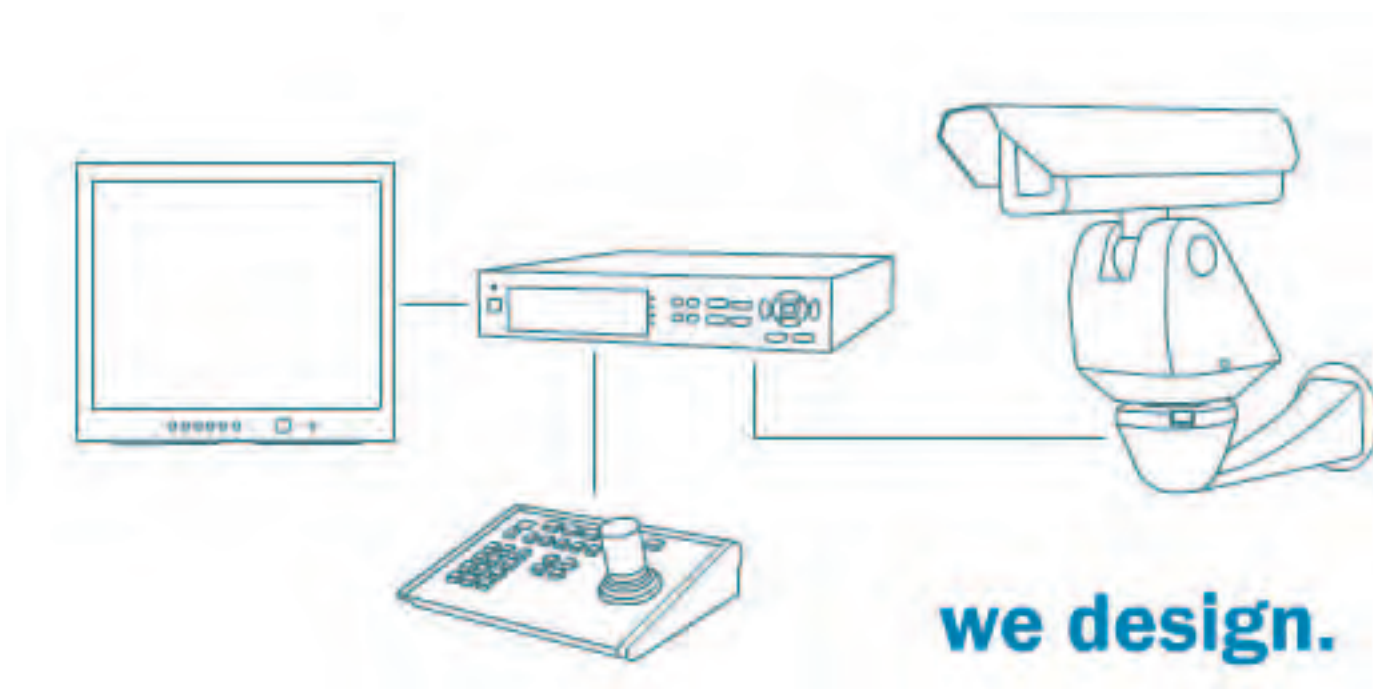
# **SkyCam-IP Day/Night Camera System**

## **Camera specifications**

Sensor Type	1/ 2" Exview Had CCD sensor
Resolution	480 TV Lines
Number of effective pixels	768 H X 494 V (NTSC) / 752 H X 582 V (PAL)
Optical zoom	25x, 55X, 110X models SkyCam 300/400/500
S/N ratio	better than 50 dB
Electronic shutter speed	off 1/50 PAL 1/60 NTSC, 1/125, 1/250, 1/500 1/1000, 1/2000, 1/4000, 1/10000 and CCD Iris
Sensitivity on sensor	0,000 6 lux with 30% video out. max AGC
Sensitivity on LENS	0,002 lux
Gain	fixed, AGC 0 to +12db or 0 to +24db
Video output	BNC Female
Spectral Response	400-950 nm
Expected Lifetime	min. 120.000 hours in operating
Power source	24/110/ 220 AVC

## **Pan/Tilt & Enclosure**

Pan Rotation	0-355° / 0-360° option
Tilt Rotation	90° down from horizontal; 60° up from horizontal
Ambient Temperature	-10°F to 140°F (-23°C to 60°C) Heater blanket (Option) Allows operation to -50°F (-45°C).
Environmental housing	Heater; window defroster; sun shroud and insulating blanket, rated IP66 and NEMA 4X







## 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 eliminate 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



**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**



**FINNISH NAVY**



**SAUDI ARAMCO OIL**



**EGYPTIAN NAVY**



**PEMEX OIL**





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# **United Vision Security Systems**

*A world without darkness...*