



Portable Long Range Camera System

Our camera system designed for long range surveillance 24/7 utilized the most advance optical sensors and lenses



EV3000-TriPod-EMCCD

Hi-Resolution EMCCD Camera that provides full-color, full-frame video images even at night.

Amazing long focal length of **16.7-1000mm 60X optical Zoom** that captures distant objects.

Daylight readable 12" TFT LCD Flat Screen Monitor in rugged outdoor case.

User friendly simple ergonomic front panel control

United Vision Solutions
A world without darkness

413-592-8477

WWW.LongRangeCamera.com
10 Center St., Suite 401 & 402
Chicopee MA 01013 USA
info@unitedvisionsolutions.com



Long Range Surveillance System

Vision Surveillance Camera System that Never Sleeps

EV3000-TriPod-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.

The ability to extend color imaging to 24-hour operation can greatly increase the effectiveness of your video security system and reduce the need for lighting resulting in significant cost savings and reduction of light pollution.

Specifications

Camera Model	
Image Presentation	Color or Monochrome
Resolution	640x 480
Pixel Size	10 μm x 10 μm
Active Pixels	326,368
Sensor Format	1/2 inch Frame Interline Transfe
Maximum Frame Rate	60 fps
Pixel Rate	25 MHz
Anti-Blooming	500:1
Full Well Capacity@ 30 fps	12 ke (minimum)
Sensitivity	0.0005 Lux (Color- 30 FPS) 0.0002 Lux (Monochrome- 30 F) 0.000008 Lux (Color- max expos 0.000003 Lux (Monochrome- max ex
Dynamic Range (w/ typical CMG gain)	64 dB (minimum)
Electronic Shutter	500 μsec- frame time
General	
Housing	Aluminum
Lens Mount	C/ CS-Mount
Weight	2.75 lb
Dimensions (L,W,H w/o lens)	3.15" x 3.15" x 4.51"
Power Requirements	12 Volts DC Operation +/- 2 Volts
Max Power Consumption	13 Watts Nominal
Operating Temperature	-40°C to +71°C †
Cooling	Integral TE cooler
Features	
Auto Iris	√
Automatic Gain Control	√
Automatic White Balance	√
Noise Filtering	√
Smear Reduction	√
Contrast Enhancement	√
AGC Region Of Interest	√
Analog output	√
Intelligent Power*	√



Long-range surveillance on starlit night.



Tank on overcast night with 1,064 Nd:YAG laser spot visible.



See colors and other recognition details in near total darkness.

Lenses 60X Optical zoom

16.7-1000 mm / 33.3 -2000mm !!!!!

Field of View FOV (16.7-1000mm)

22° to .25°

Extender on (33.3 -2000mm)

11° to 0.07°

- # Can see the actions of a person at a distance of 4km
- # Video Stabilizer
- # Rugged Camera Control Unit with LCD 12"
- # Pan/Tilt : Pan 0°~Endless/ Tilt -70° ~ +20° ±5° , Preset 0-127 positions
- # Operating Temperature : -10°C ~ +55°C with addition fan and Sunshield
- # Operating Humidity : 20 ~ 90% RH # Power Source : 24 VDC
- # Pelco-D protocol , BNC Video, Option IP with 25/30 fps
- # Environment **Rugged Construction** to be used in extreme environments
- # Weight :80 kg # Rugged Portable Case

Camera Control Unit

Features

- Lightweight, compact and mobile suitable for temporary and tactical receiver applications
- Quick setup and easy to use
- Durable wheeled case construction
- Daylight readable 12" TFT LCD Flat Screen Monitor in rugged outdoor housing
- User friendly simple ergonomic front panel control
- Military grade Lithium ION rechargeable battery with AC/DC shore power connectors and integrated charger
- DVR recording
Recording Media Solid State Drive (SSD)
Recording Media Capacity 32 GB or 64 GB (Removable)
Recording Time (Hours) 32 hours (32 GB) / 64 hours (64 GB) at 4CIF 30 fps
Supported Resolutions 4CIF (704 x 576 pixels), CIF (352 x 288 pixels)
Supported Frame Rates 30 / 15 / 7.5 fps
Compression H.264 (MPEG4 Part 10)



Camera Control Unit

Options

- * IR Thermal Camera
- * IR Laser Light highlight



Portable Case
with retractable
handle

- Packing List
- 1- TriPod Camera system
 - 2- Camera Control Unit
 - 3- Portable case

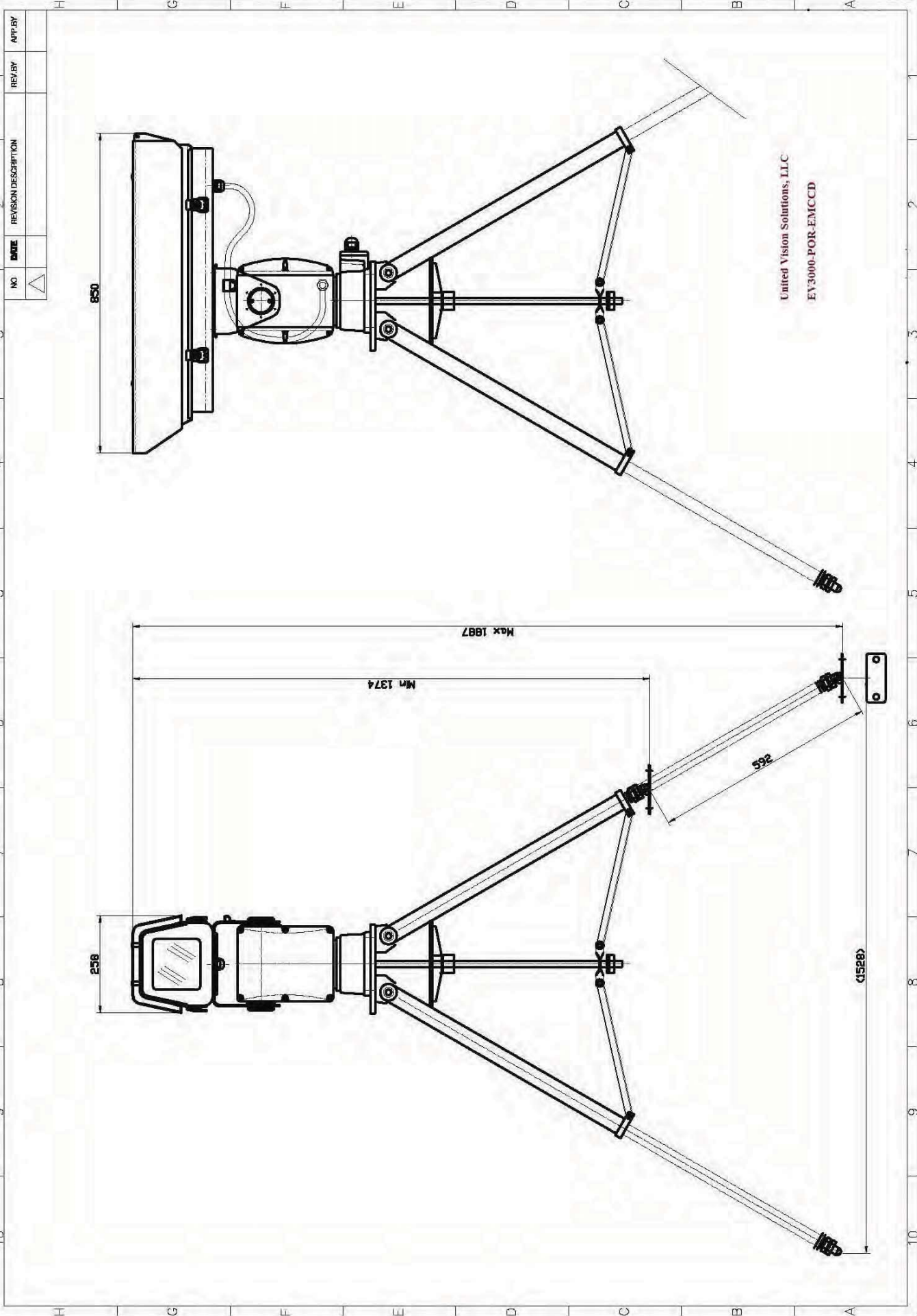


Order

EV3000-TriPod-EMCCD1000-Axx-Bxx

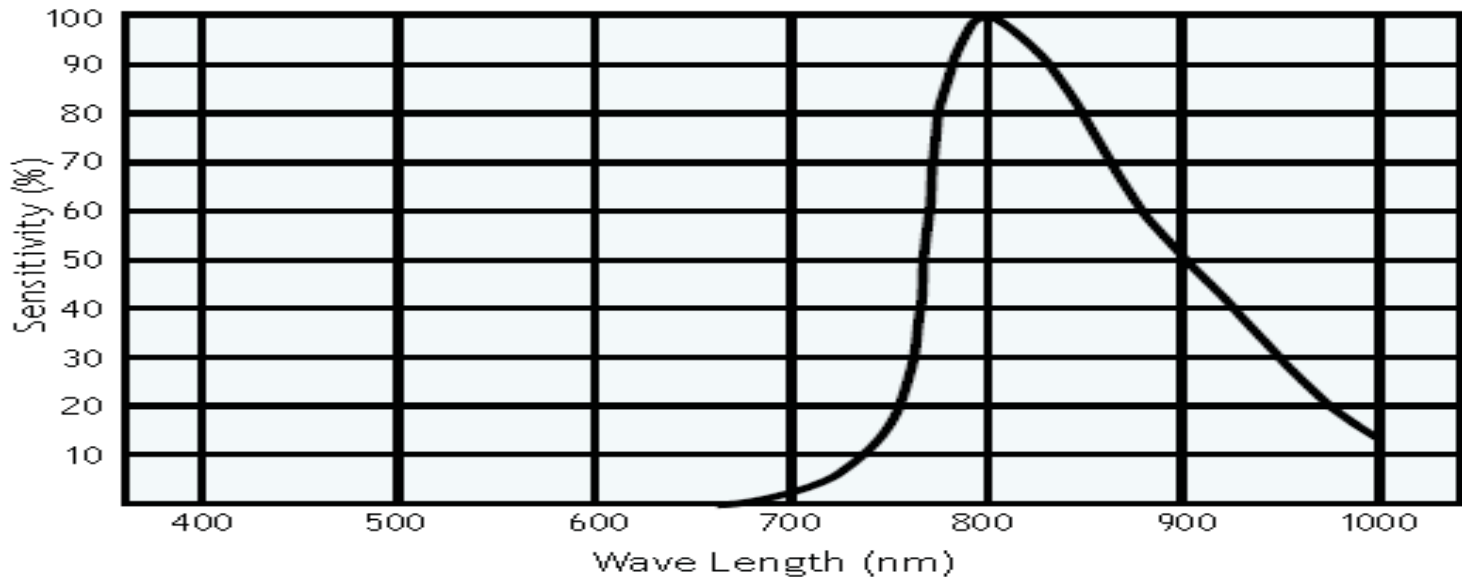
A=1 System with IR Thermal
A=0 System without Thermal

B=1 System with IR laser
B=0 System without laser



United Vision Solutions, LLC
EY3000-POR-EMCCD

NO	DATE	REVISION DESCRIPTION	REV BY	APP BY
1				



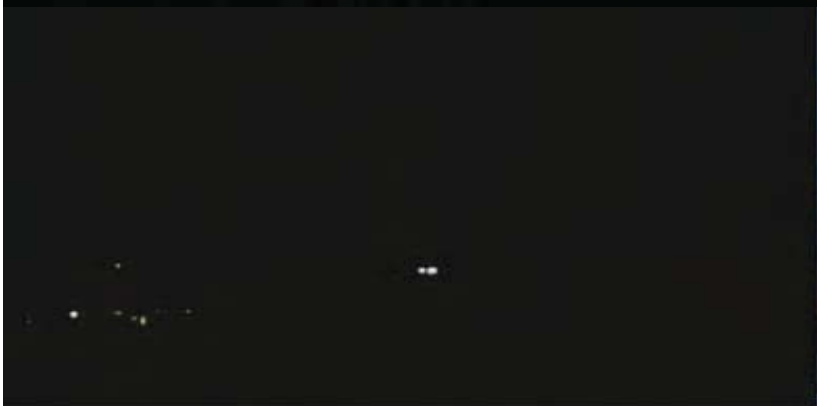
EV3000-TriPod-EMCCD1000 Spectral Sensitivity Curve



CCD VISIBLE



EMCCD



VISIBLE



EMCCD

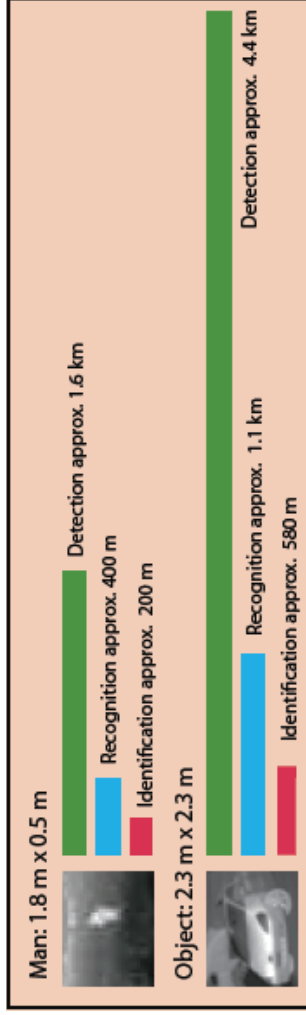
Long Range Surveillance System

Option A

IR Thermal Camera

Camera Performance

Sensor Type	640x480 Uncooled Microbolometer
Spectral Range	7.5-13.5µ
Lens Focal Length	100mm
Field-of-View	7° x 5°
Image Processing	AGC & DDE
Requirement	14-32VDC or 24VAC ±10%
Consumption	8W nominal, 36W peak



Range Chart This chart shows how far away the different SR-Series cameras can detect, recognize and identify human and vehicle targets.



Why IR Thermal Option is important to night operations?

They turn night into day, allowing you to see intruders invisible to the naked eye.

- Creates video images from heat, night and day, in good weather and bad
- High-quality 24/7 thermal video security coverage
- Digital Detail Enhancement (DDE) for optimal image quality
- High contrast imagery optimized to get the most out of video analytics software to create virtual perimeters
- No need for the expense and complication of added lighting infrastructure
- Clear vision in challenging conditions (lowlight, no light, backlight, haze, smoke, fog, etc)



United Vision Solutions
A world without darkness

WWW.LongRangeCamera.com
10 Center St., Suite 401 & 402
Chicopee MA 01013 USA
info@unitedvisionsolutions.com



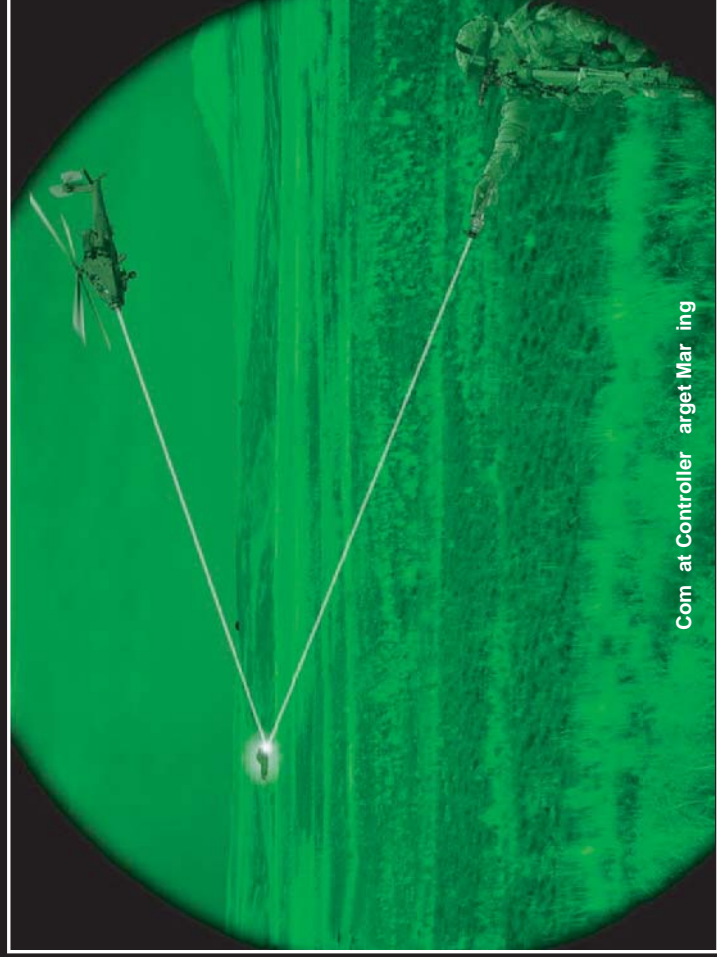
Airborne Lasers for Target Illumination

- UH-60
- A 10
- UAV Predator
- Apache
- F 18
- UAV Hunter
- F 16
- Cobra

Power Laser Specifications
 Output power up to 3.5 Watt
 Wavelength 1064nm

Laser Benefits

- Covert infrared pointers mark the exact location of ordnance delivery increasing mission effectiveness
- Infrared illuminators highlight the surrounding area for positive identification
- These lasers allow quick identification and marking of targets, resulting in reduced collateral damage and saving of lives
- Rugged high performance systems that provide the ultimate tactical advantage to war fighters
- Provides covert situational awareness for the war fighter, homeland security and other agencies



Communication between controller and target marking

Close the loop between combat controllers & aviators with precision marking lasers

Laser Features

- IR Light 1064nm
- High, low and pulse modes of operation
- Designed and tested for high shock and vibration environments
- Compact size is ideal for gimbals and sensor suites
- Wide operating temperature range of -40°C to +70°C
- Low power consumption (0.60W)
- 50mW – 4W output power available



Illumination



Apache