

# Video & Optical Systems Limited

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## Thermal PTZ Camera

### ERIC9736

#### Features

- Manufactured from aluminum alloy (5mm-15mm)
- Pelco P/D, VCL, FV protocols
- Resistant to small arms fire, bricks and stones
- High strength optically flat front window (5mm)
- 360° Pan rotation, 125° Tilt rotation
- Built-in high resolution 36x integrated camera
- Built-in high performance thermal infrared imager
- Available in black, white or green
- Meets CE & FCC standards
- IP67



#### Description

The Eric9736 Series of camera is another addition to our Eric9000 range of cameras and combines a FLIR thermal infrared imager, integrated high-zoom camera and high-performance pan/tilt mechanism. It uses the latest 50mm un-cooled FLIR thermal imager to provide a range of enhanced viewing options such as spectral heat variance and hot and cold spot highlights with a distance of over 780m.

The FLIR thermal imager has built-in sun protection that allows the camera to self-heal should it be pointed directly at the sun. The Eric9736 also uses unique technology in its drive, processing and display ensuring that the image output is clear and stable.

#### Typical Applications

- Town Centres
- Coastal Areas
- Prisons
- Navy
- Military
- Police Vehicles
- Armoured Vehicles
- High Crime Areas
- Nuclear Plants
- Seafronts
- Harbours
- Marine
- Embassies
- Vehicle Tracking
- Airports
- Government Research Laboratories

## Specifications

<b>Model</b>	<b>Eric9736</b>
<b>Thermal Imager</b>	
Lens	50mm
Type	Un-Cooled focal plane array (FPA)
Detector Material	Vanadium Oxide Micro Bolometer
Picture Resolution	320 x 240
Detection Range	780m for human detection 2.2km for vehicle detection
Spectral Response	7.5 to 13.5 $\mu$ m
Thermal Sensitivity	85mk atF1.6
Features	White Hot, Black Hot & False Colour
Target Temperature Range	-80°C-+500°C
<b>Camera</b>	
Sensor	¼" Ex-view HAD CCD
S/N Ratio	>50dB
Effective Pixel	752H x 582V
Shutter Speed	½ ~1/10,000s
Minimum Illumination	0.01 Lux
Sync System	Internal/External
Signal Output	1.0Vp-p/75 $\Omega$
Iris Control	Auto/Manual
White Balance	Auto/Manual
Focus Control	Auto/Manual
Scanning System	15.625KHz(H) 50Hz(V)
Zoom	36:1 f = 3.4 ~ 122.4mm
Horizontal Resolution	540TVL
<b>Electrical</b>	
Voltage Input	18VAC -24VAC/18VDC-24VDC
Working Temperature	-40°C ~ +55°C
Power Consumption	60W
<b>Pre-Set Target Speed</b>	
Pan Speed	90°/s
Tilt Speed	40°/s
Auto Scanning Speed	1°-40°/s (Adjustable)
3 Scanning Modes	Auto/Apple-Peel/Pre-set Tour
<b>Pan/Tilt</b>	
Stepper Motor which ensures steady rotation, accurate location and rapid response	
Manual Control Speed For Pan	0.1°-90°/s
Manual Control Speed For Tilt	0.1°-40°/s
Pre-set Target Speed	90°/s for pan 40°/s for Tilt
Variable Pan Auto Scan Speed	1°-40°/s (Adjustable)
Variable Apple Peel Scan Speed	1°-40°/s for pan; 1°-20°/s for Tilt
<b>Integrated Structure</b>	
Included	Wiper Heater
<b>Environmental</b>	
Built-In surge and lightning protector	
IP Rating	IP67
CE, ROHS, FCC standards	
<b>Camera Features</b>	
Built-In high-resolution and high-zoom integrated camera	
Backlight Compensation	

Wide Dynamic Range	
Video Stabilisation	
Privacy zone masking function, up to 24 privacy zones	
High-speed pre-set video freeze	
<b>OSD Menu Features</b>	
Built-In easy to use menu	
OSD password protect function	
Edit the title of user name, camera position and pre-set position	
Set, Run, Clear Pre-Sets, Pre-Set tours, Privacy zone by menu	
Internal temperature and Pan/Tilt orientation information display	
<b>Built-In Decoder Features</b>	
Pelco P/Pelco D/VCL Protocols	
Easy to use OSD menu to set the camera and Pan/Tilt parameters and functions	
Thermostatically controlled. Once the camera exceeds a set value, the fans will automatically activate	
Powering on function. Users can assign the camera's movements on powering up	
Proportional zoom function	
On-screen display option for Pan/Tilt position and camera zoom level	
With auto scan function the elevation angle can be set	
Virtual home position (adjustable)	
Apple peel scan function	
2 Pattern functions	
4 Pre-Set tours with adjustable dwell time	
255 Pre-Set positions with precision error less than $\pm 0.10^\circ$	
Camera Orientation Display Function (N,NE,E,SE,S,SW,W,NW Total 8 Orientations)	
2 Alarm Inputs, 1 AUX Output	