

## Features

### ✦ Mega-Pixel Zoom Camera

The **IP LUMEN Infrared Hammerhead** from **WECUSurveillance.com** comes equipped with the either 1.3MP (720P) or 2MP (1080P) Zoom camera modules and variable beam infrared LASER. The combination of Mega-Pixel image capture with LASER illumination provides industry leading image quality day and night.

### ✦ Multiple LASER Options

This industry first functionality eliminates both under exposure at long distance, and/or infrared “spot” at a short or medium distance. Unmatched flexibility ensures the best possible infrared exposure on any target. The **IP LUMEN** is available in four (4) models. 810nm light is invisible to the human eye, but the emitter glows red. Operational up to ¼ mile, the Lumen has been designed to meet the demanding needs of the military within the confines of a law enforcement budget.

### ✦ No blind spots

Continuous 360°Pan Rotation and 180° tilt provides unhindered directional tasking.

### ✦ Weather Resistant

IP66 compliant weather resistant design facilitates installation in the most remote security applications, under the harshest environmental conditions.

### ✦ Triple Voltage - Low Wattage Draw

Three available voltage options, 12VDC, 24VDC and 24VAC, and substantially lower wattage draw than other cameras, the LUMEN is uniquely positioned to accommodate off-grid solar or generator powered remote applications.

### ✦ Tough Construction

Designed to be vehicle mountable, the **LUMEN** boasts a heavy duty aluminum housing, scratch resistant mineral glass lens, and industrial grade motor assembly.

### ✦ Unparalleled Imagery

Utilizing a 36x Optical and 12x Digital high resolution imager coupled with a mechanical infrared cut filter, the **LUMEN** generates unparalleled optical clarity.

## IP LUMEN Series

### One Housing – Many Options

**VSCS0719** – 1.3MP, 18x Optical, 200 meter IR, 810nm

**VSCS0720** – 1.3MP, 18x Optical, 400 meter IR, 810nm

**VSCS0721** – 2MP, 20x Optical, 200 meter IR, 810nm

**VSCS0722** – 2MP, 20x Optical, 400 meter IR, 810nm




## Overview

**WECU Surveillance.com** offers an exclusive line of Laser infrared laser illuminator technology cameras. The **IP LUMENs's** variable infrared laser beam provides up to 400+ meter night-time visibility in conjunction with Mega-Pixel 1.3MP (720P) or 2MP (1080P) optical imagers. The HAMMERHEAD camera line has five major model groups. The base HAMMERHEAD has no illumination, the EXPONO has LED illumination, the **LUMEN** and **IP LUMEN** have variable beam infrared laser illumination and the NITOR is a combination of Optical and Thermal cameras. In total more than Six Hundred (600) model configurations are available, far exceeding the dynamics of any other product available in the market today. The HAMMERHEAD's common camera shell is made of high strength aluminum alloy, providing impact and corrosion resistance. The HAMMERHEAD line carries an IP66 rating for all weather application, and high shock resistance to accommodate vehicle mounting. Special considerations in design have made the HAMMERHEAD line suitable for installation in a wide variety of environments and configurations.

## Camera Configurations

VSCS0719	1.3MP, 18x Optical/12x Digital Zoom, 200 meter Laser Infrared, 810nm
VSCS0720	1.3MP, 18x Optical/12x Digital Zoom, 400 meter Laser Infrared, 810nm
VSCS0721	2MP, 20x Optical/12x Digital Zoom, 200 meter Laser Infrared, 810nm
VSCS0722	2MP, 20x Optical/12x Digital Zoom, 400 meter Laser Infrared, 810nm

## Options

PGAC0697	12VDC power input adaptor	
HMBM0726	Infrastructure Heavy Mount	
<b>Ordering Options to be Specified with Each Camera</b>		
Image format	NTSC or PAL	
Input Power	24VAC or 24VDC or 12VDC via power adaptor PGAC0697	
Application	Fixed Mount or Vehicle Mount	

## Specifications

IP LUMEN Series Standard Specifications				
Model	VSCS0719	VSCS0720	VSCS0721	VSCS0722
Backlight Compensation	BLC / HLC / DWDR			
Compression	H.264 / MJPEG			
Day/Night	Auto(ICR) / Color / B/W			
Digital Zoom	16x			
Effective Pixels	1280 (H) x 720(W)		1920 (H) x 1080(V)	
Electronic Shutter	1/1~1/10,000s			
Ethernet	RJ-45 (10/100Base-T)			
Field of View	H: 54.1°(wide) ~ 3.2°(tele)		H: 55.4°(wide) ~ 2.9°(tele)	
Focus Control	Auto/ Manual			
Focal Length	4.7-84.6mm(18x Optical Zoom)		4.7mm ~ 94.0mm(20x Optical zoom)	
Frame Rate - Main Stream	1280×960 or 1280×720 (1~25/30fps)		1920×1080 or 1280×720(1 ~ 25/30fps)	
Frame Rate - Sub stream	D1/CIF(1 ~ 25/30fps)			
Gain control	Auto / Manual			
Illuminator	Infrared LASER Illuminator			
Imager	1/3" CMOS		1/3" Exmor CMOS	
Shock	≥4G			
Infrared range	200 meter	400 meter	200 meter	400 meter
Iris	Automatic/Manual			
Laser IR MTBF	≥10000 hour			
Laser Power Consumption	3W			
Laser Wave Length	Near Infrared (NIR), 810nm			
Lighting Angle (Continuous)	2°~48°Electric Adjustment	1°~20°Electric Adjustment	2°~48°Electric Adjustment	1°~20°Electric Adjustment
Minimum illumination	Color: 0.05Lux /F1.4 ; B/W: 0.01Lux/F1.4		Color: 0.05Lux/F1.6; B/W:0.01 Lux/F1.6	
Max. Aperture	F1.6 to F3.2		F1.6 to F3.5	
Max Users	20 Users			
Operating temperature	-25C°~+60C°			
Pan Manual Speed	0°~80°/s			
Pan Preset Speed	80°/s			
Pan Range	360°			
Power Consumption	75W			
Power Inputs options	24VAC or 24VDC or 12VDC			
Pre-sets	128			
Protection Level	IP66			
Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour			
PTZ Control	ONVIF Ver. 2.0 conformance			
Relative Humidity	90%			
Resolution	1.3M(1280×960) / 720P(1280×720) / D1(704×576/704×480) / CIF(352×288/352×240)		1080P(1920×1080) / 720P(1280×720) / D1(704×576/704×480) / CIF(352×288/352×240)	
Scanning System	Progressive			
Salt-spray testing	Continuous Spray - 48 hours under PH6.5-7.2			
Signal-to- noise	≥50db			
Size	372*343*343			
Storage temperature	-40°C~+ 85 °C			
Synchronous system	Internal or External			
Tilt Manual Speed	0°~60°/s			
Tilt Preset Speed	60°/s			
Tilt Range	-90°~+90°			
Vibration resistance	150m/s 2 11ms			
Video Output	BNC (1.0Vp-p/75Ω), PAL/NTSC			
Weight	6KG			
White balance	Auto, ATW, Indoor, Outdoor, Manual			

- ❖ ALL LASERS CAN BE DANGEROUS IF USED IMPROPERLY.
- ❖ PLEASE CONTACT WECUSURVEILLANCE.COM FOR APPLICATION SPECIFIC GUIDELINES AND LIMITATIONS.
- ❖ REFER TO PRODUCT MANUAL PRIOR TO OPERATION AND/OR IMPLEMENTATION.