

## Features

- Variable Beam Infrared LASER**  
The **LUMEN Infrared Hammerhead** from **WECU Surveillance.com** comes equipped with the first variable beam infrared LASER. The **LUMEN** automatically adjusts the LASER beam dispersion angle from 48° at close range proportionally to 2° at extreme range. 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.
- Multiple LASER Options**  
The **LUMEN** is available in six (6) models. 808nm light is invisible to the human eye, but the emitter glows red, whereas at 940nm there is no visible light and the emitter does not give off any visible light, ideal for covert, airfield or military operations. 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**  
Two available voltage options, 12VDC 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.

## LUMEN Series

### One Housing – Many Options

- ✓ VSCS0327 – 18x Optical, 200 meter IR, 808nm
- ✓ VSCS0328 – 26x Optical, 300 meter IR, 808nm
- ✓ VSCS0329 – 36x Optical, 400 meter IR, 808nm
- ✓ VSCS0649 – 18x Optical, 150 meter IR, 940nm
- ✓ VSCS0650 – 26x Optical, 250 meter IR, 940nm
- ✓ VSCS0651 – 36x Optical, 350 meter IR, 940nm



## Overview

**WECU Surveillance.com** offers an exclusive line of Laser infrared laser illuminator technology cameras. The HAMMERHEAD camera line has five major model groups. The base HAMMERHEAD has no illumination, the EXPONO has LED illumination, the **LUMEN** has 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 **LUMEN's** variable infrared laser beam provides up to 400+ meter night-time visibility. The camera shell is made of high strength aluminum alloy, providing impact and corrosion resistance. The **LUMEN** carries an IP 66 rating for all weather application, and high shock resistance to accommodate vehicle mounting. Special considerations in design have made the **LUMEN** suitable for installation in a wide variety of environments.

### Camera Configurations

VSCS0327	18x Optical/12x Digital Zoom, 200 meter Laser Infrared, 808nm
VSCS0328	26x Optical/12x Digital Zoom, 300 meter Laser Infrared, 808nm
VSCS0329	36x Optical/12x Digital Zoom, 400 meter Laser Infrared, 808nm
VSCS0649	18x Optical/12x Digital Zoom, 150 meter Laser Infrared, 940nm
VSCS0650	26x Optical/12x Digital Zoom, 250 meter Laser Infrared, 940nm
VSCS0651	36x Optical/12x Digital Zoom, 350 meter Laser Infrared, 940nm

### 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
Protocol	RS485/Pelco P/D or RS-422/Extended Pelco D
Input Power	24VAC or 24VDC or 12VDC via power adaptor PGAC0697
Application	Fixed Mount or Vehicle Mount



Optical Zoom  
1X Zoom @ 50 yds.



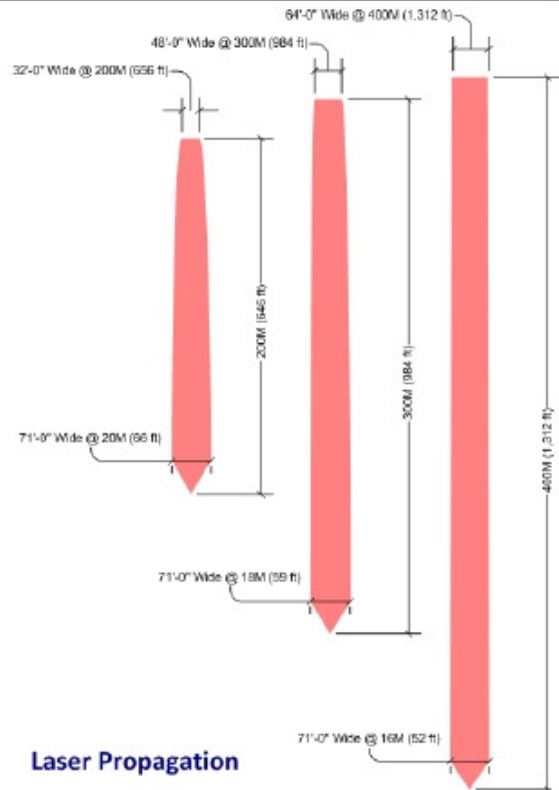
Optical Zoom  
18X Zoom @ 50yds.



Optical Zoom  
26X Zoom @ 50yds.



Optical Zoom  
36X Zoom @ 50yds.



## Specifications

LUMEN Series Specifications						
Model	VSCS0327	VSCS0328	VSCS0329	VSCS0649	VSCS0650	VSCS0651
Alarm Inputs	4					
Backlight Compensation	ON/OFF					
Cruise	6 cruising paths					
Electronic shutter	1/3~1/10,000s					
Focal length	4.1~73.8mm	3.8~98.8mm	3.4~122.4mm	4.1~73.8mm	3.8~98.8mm	3.4~122.4mm
Horizontal Resolution	480TVL					
Illuminator	Infrared LASER Illuminator					
Illuminator zoom control	Automatic/ Menu Manual Control					
Imager	1/4" IT Ex-View CCD					
Impact Resistance	≥4g					
Infrared range	200 meters	300 meters	400 meters	150 meters	250 meters	350 meters
Iris	Automatic/Manual					
Laser IR MTBF	≥10000 hour					
Laser Power Consumption	3W					
Laser Wave Length	Near Infrared (NIR), 808nm			Near Infrared (NIR), 940nm		
Lighting Angle	2°~48°Electric Adjustment (Continuous)					
Operating temperature	-25C°~+60C°					
Pan Manual Speed	1.2~80°/s					
Pan Preset Speed	80°/s					
Pan Range	360°					
Pixels	752Hx582V					
Power Consumption	≤70W					
Power Input	24VAC or 24VDC or 12VDC					
Pre-sets	128					
Protection Level	IP66					
Protocol	RS485/Pelco P/D or RS-422/Extended Pelco D					
PTZ Control	RS485					
Relative Humidity	90%					
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	1.5~60°/s					
Tilt Preset Speed	60°/s					
Tilt Range	-90°~+90°					
Vibration resistance	150m/s 2 11ms					
Video Output	VBS1.0VP-P/75Ω					
Weight	6KG					
White balance	Automatic					