

# TEREO HAMMERHEAD III CAMERA



+ **Optical with IR illuminator or optical with thermal**

+ **Wiper on optical camera**

+ **Worry-free IP66 weather resistance**

+ **11-18VDC for effortless vehicle integration**

+ **0°-60°/ second pan and 0°-40°/ second tilt**

+ **360° continuous rotation and 180° tilt**

## THE RUGGED, INTEGRATED SOLUTION

Nomad is proud to include the versatile Tereo Hammerhead III in our lineup of compact, mobile PTZ's. The camera's left side provides excellent video down to 0.01 lux illumination in color mode and 0.005 lux in black and white. The right side offers a range of options, including LED IR illuminator, variable beam laser IR illuminator, and thermal camera. The HammerHead III features IP66 construction and boasts an ultra-wide operating temperature (-35° to 55° C). It has an impact resistance of 4G, ideal for extreme outdoor and vehicle-mount applications. The camera is ONVIF 2.4 compliant for use with associated network video recording solutions.

### Industry-leading capabilities for challenging missions.

A built-in IR illuminator provides up to a 500 foot range. A variety of thermal options exist in CIF and 4CIF resolutions, with a range of lenses. Ideal picture performance is achieved through several advanced functions: *BLC* automatically and dynamically compensates for strong backlight. *WDR* evens out bright and dim areas. *AWB* resolves difficult lighting conditions. *AGC* optimizes the video signal. *DNR* dynamically reduces noise in the picture. *Contrast and Sharpness* enhance details in bright or misty scenes. Advanced H.265 compression reduces bandwidth by as much as 30% making these cameras an ideal choice where lower bandwidth consumption is required for longer retention or better streaming performance.



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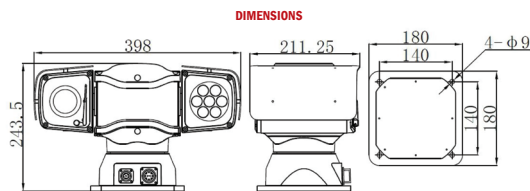
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# TEREO HAMMERHEAD III CAMERA

Model	Description
6061	33x, Laser IR-5w 37x, Laser IR-5w
8061	33x, 384* 240/25mm, NTSC, 8.3Hz 33x, 384* 240/35mm, NTSC, 8.3Hz
3861	55x, Laser IR-5w

Pan Tilt Housing Function	
Pan Preset Speed	100°/sec
Tilt Preset Speed	60°/sec
Pan Control Speed	0°~60°/sec
Tilt Control Speed	0°~40°/sec
Pan Range	360° endless rotation
Tilt Range	+90° ~ -90°
Presets, Tracking	256 positions, 8 tracks
Control Way	RS485, Built-in PELCO D/P 16 protocol
Relative Humidity	Less than 90%
IP Grade	IP66
Working Temperature	-35° ~ +55°
Impact Resistance	≥ 4G
Wiper	Supported, Activated by preset
Installation	Variety of installation options according to the environment
Input Voltage	11~18VAC
Weight	7kg

Illuminator Model	Laser 5W
Illuminating Distance	500m
Zoom Range	1-50° Auto-Zoom
Optical Power	5W
Wavelength	808nm
Full Light Effect	Excellent spot uniformity, uniform beam intensity, speckle-free
Stability	Lifetime up to 20,000 hrs



Thermal Camera and Vehicle Shock Mount

LED IR



Optical Camera Model	37x	55x
Image Sensor	1/1.8" Progressive CMOS	1/2.8" Progressive Scan CMOS
Effective Pixels	1920 x 1080	
Optical Zoom	37x, 5.7-210mm	55x, 6.5-363mm
Horizontal Field of View (Wide-tele)	60° - 2.0°	43.8° - 1°
Digital Zoom	12x	
Minimum Illumination	Color: 0.0005Lux @ (F1.2, AGC ON), B/W: 0.0001Lux @ (F1.2, AGC ON)	Color: 0.0001Lux @ (F1.2, AGC ON), B/W: 0.0001Lux @ (F1.2, AGC ON)
Aperture	F1.5-F4.8	F1.6-F6.0
Day / Night	IR-CUT, Auto, Color, B/W	
MOD	10mm - 1500mm (Wide-Tele)	300mm - 1500mm (Wide-Tele)
Zoom Speed	3 sec	4 sec
Main stream	50HZ: (1920 x 1080, 1280 x 720) 60HZ: 30fps (1920 x 1080, 1280 x 720)	
Sub stream	50HZ: 25fps (1280 x 1080, 720 x 576, 352 x 288) 60HZ: 30fps (1280 x 1080, 720 x 480, 352 x 288)	
Setting	Brightness, Contrast, Saturation, Sharpness, Chroma	
Anti-flicker	Supported	
Defogging	Supported	
Corridor mode	Supported	
Exposure compensations	Supported	
Digital image stabilization	Supported	
ROI	1 Area per stream	
Focus	Auto/Manual/One-time Focusing	
Exposure	Automatic exposure/Aperture Priority/Shutter Priority/Manual Exposure	
Electronic Shutter	1/3~1/100,000 sec	1/3~1/30,000 sec
Storage	MicroSD 128G	
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, RTP, RTSP, RTCP, NTP, SMTP, SNMP, 1Pv6	
System Compatibility	ONVIF (Profile S, Profile G), GB28181-2016, OBCP	
Video Compression	H.265/H.264	
Video Compression Code Rate	32 Kbps ~ 16Mbps	
Function	Password Protection, Heartbeat, Multiple User Access Control	

Thermal Camera Model	384 x 388	640 x 480						
Detector	Uncooled Microbolometer FPA (Amorphous Silicon)	Uncooled Amorphous Silicon FPA						
Array Format / Pixel Pitch	384 x 288/17 μm	640 x 480/17 μm						
Sensitivity	≤60mk @ f/1.0 300K							
Image Frame Rate - International	8.3Hz							
Image Frame Rate - USA	50Hz (PAL) / 60Hz (NSTC)	25Hz (PAL) / 30Hz (NSTC)						
Spectral Range	8~14 μm							
Shutter Calibration	Single-Point and Dual-Point							
Booting Time	<8 seconds							
Noise Reduction	Digital Filter							
Analog Output Image Resolution	720 x 576							
Lens Option	19mm, 25mm, 35mm, 50mm	25mm, 40mm, 50mm						
Polarity	White Hot/Black Hot/Pseudo Color							
Image Mode	High Dynamic Range (HDR): Normal Mode, Sky-Land Mode							
Image Status	IDE, Smoothing, Super-Smoothing							
Zoom	1~8x Continuous Zooming							
Brightness	Auto or Manual							
Contrast	Auto or Manual							
<b>384 x 288 Lens</b>	<b>19mm</b>	<b>25mm</b>	<b>35mm</b>	<b>50mm</b>	<b>640 x 480 Lens</b>	<b>25mm</b>	<b>40mm</b>	<b>50mm</b>
<b>Field of View</b>	19.5° x 14.7°	14.9° x 11.2°	10.6° x 8.0°	7.2° x 5.4°	<b>Field of View</b>	24.5° x 18.5°	15.5° x 11.6°	11.9° x 9.0°
<b>IFoV 2 (milliradians)</b>	0.89 mrad	0.68 mrad	0.48 mrad	0.33 mrad	<b>IFoV 2 (milliradians)</b>	0.68 mrad	0.42 mrad	0.33 mrad

NOTE: Detection Recognition and Identification (DRI) ranges are the same for 384 x 288 and 640 x 480 Thermal Imagers.

DRI	19mm	25mm	35mm	40mm	50mm	
Human	Identification	65m	90m	126m	180m	
	Recognition	130m	180m	252m	360m	
	Detection	550m	735m	1030m	1170m	1440m
Vehicle	Identification	320m	422m	590m	670m	840m
	Recognition	640m	845m	1180m	1350m	1685m
	Detection	2570m	3380m	4730m	5400m	6740m



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