

Features

Thermal Detection Distance

Thermal camera detects humans out to 1600 meters in all lighting conditions. Optical camera detects humans out to 4000 meters in daytime lighting.

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 **NITOR** is uniquely positioned to accommodate off-grid solar or generator powered remote applications.

Energy efficient

Un-cooled radiant heat focal plane array allows the lowest possible power consumption.

Tough Construction

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

Standardized housing

The **NITOR** Thermal/Optical Hammerhead vandal resistant housing is the first camera made which can be supplied with 18x, 26x or 36x optical camera and a thermal imager, IR infrared illuminator or VBL-LASER illuminator utilizing a low voltage power supply.

Unparalleled Imagery

Utilizing a 36x Optical and 12x Digital high resolution imager coupled with a mechanical infrared cut filter, and a Thermal Imager, the **NITOR** generates unparalleled optical clarity in all lighting conditions.

NITOR Series



20mm, 50mm and 65mm Thermal



20mm-100mm Continuous-Zoom Thermal

Overview

WECU Surveillance.com offers an exclusive combination thermal / optical camera solution. The **NITOR** Thermal camera enables passive infrared Detection day and night out to 1600 for humans and 4200 meters for vehicles. Longer range thermal optics available in the **NITOR-LR** models. The thermal imager displays in white hot, black hot or the color spectrum with high contrast to easily identify targets with in the field of view. The Sony optical camera provides 18x, 26x or 36x optical and 12x digital zoom for long range day and night operations. The optical camera provides excellent low light capabilities only needing limited light for night operations.

Camera Configurations

VSCD0652	Thermal Camera with 20mm Lens,
VSCD0653	Thermal Camera with 50mm Lens
VSCD0681	Thermal Camera with 65mm Lens
VSCD0682	Thermal Camera with 100mm Lens
VSCS0331	18x Optical/12x Digital Zoom, Thermal Camera with 20mm Lens, Single Switched Video Output
VSCS0339	26x Optical/12x Digital Zoom, Thermal Camera with 20mm Lens, Single Switched Video Output
VSCS0340	36x Optical/12x Digital Zoom, Thermal Camera with 20mm Lens, Single Switched Video Output
VSCS0325	18x Optical/12x Digital Zoom, Thermal Camera with 50mm Lens, Single Switched Video Output
VSCS0326	26x Optical/12x Digital Zoom, Thermal Camera with 50mm Lens, Single Switched Video Output
VSCS0342	36x Optical/12x Digital Zoom, Thermal Camera with 50mm Lens, Single Switched Video Output
VSCS0683	36x Optical/12x Digital Zoom, Thermal Camera with 65mm Lens, Single Switched Video Output
VSCS0685	36x Optical/12x Digital Zoom, Thermal Camera with 100mm Lens, Single Switched Video Output
VSCS0664	36x Optical/12x Digital Zoom, Thermal Camera with 20-100mm Lens, Single Switched Video Output
VSCS0657	18x Optical/12x Digital Zoom, Thermal Camera with 20mm Lens, Dual Video Output
VSCS0658	26x Optical/12x Digital Zoom, Thermal Camera with 20mm Lens, Dual Video Output
VSCS0659	36x Optical/12x Digital Zoom, Thermal Camera with 20mm Lens, Dual Video Output
VSCS0660	18x Optical/12x Digital Zoom, Thermal Camera with 50mm Lens, Dual Video Output
VSCS0661	26x Optical/12x Digital Zoom, Thermal Camera with 50mm Lens, Dual Video Output
VSCS0662	36x Optical/12x Digital Zoom, Thermal Camera with 50mm Lens, Dual Video Output
VSCS0684	36x Optical/12x Digital Zoom, Thermal Camera with 65mm Lens, Dual Video Output
VSCS0686	36x Optical/12x Digital Zoom, Thermal Camera with 100mm Lens, Dual Video Output
VSCS0665	36x Optical/12x Digital Zoom, Thermal Camera with 20-100mm Lens, Dual Video Output

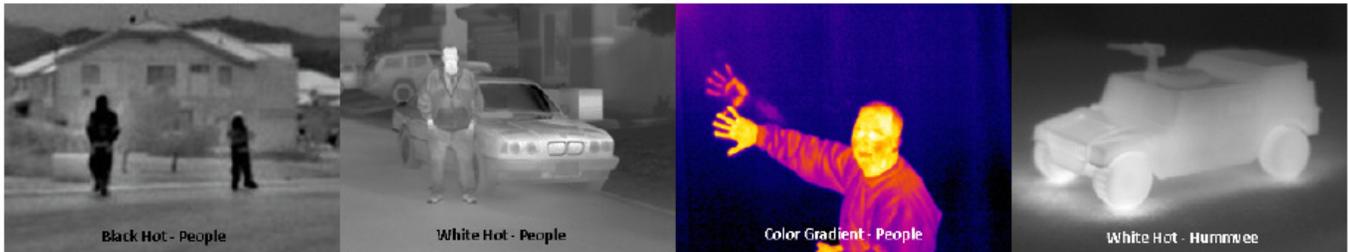
Options

PGAC0697	12VDC power input adaptor
HMBM0726	Infrastructure Heavy Mount



Ordering Options to be Specified with Each Camera	
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

Sample Images – Built-In Configurable Detection Display Formats



Specifications

NITOR Series Specifications													
Single Video Output	VSCS 0652	VSCS 0653	VSCS 0681	VSCS 0682	VSCS 0331	VSCS 0339	VSCS 0340	VSCS 0325	VSCS 0326	VSCS 0342	VSCS 0683	VSCS 0685	VSCS 0664
Dual Video output	NA	NA	NA	NA	VSCS 0657	VSCS 0658	VSCS 0659	VSCS 0660	VSCS 0661	VSCS 0662	VSCS 0684	VSCS 0686	VSCS 0665
Alarm Input	4												
Communication	RS-485												
Cruise	6 cruising paths												
Dimension	372x343x343												
Impact Resistance	≥4g												
Operating temperature	-25°C~+60°C												
Pan Speed	1.2~80°/s									1.2~60°/s			
Pan Preset Speed	80°/s									60°/s			
Pan Range	360°												
Power Consumption	≤30W (35W Heater On)												
Power Input	24VAC												
Pre-setting Points	128												
Protection Level	IP66												
Protocol	RS485/Pelco P/D or RS-422/Extended Pelco D												
PTZ Control	RS485												
Repeatability	0.1°												
Relative Humidity	90%												
Salt-spray testing	Continuous Spray - 48 hours under PH6.5-7.2												
Scan Speed	0.5~30°/s												
Storage temperature	-40°C~85°C												
Tilt Preset Speed	60°/s									40°/s			
Tilt Speed	1.5~60°/s									1.5~40°/s			
Tilt Range	-90°~+90°												
Weight	10kg												
Vibration Resistance	150m/s 2 11ms												
Optical Camera													
Backlight Compensation	ON/OFF												
Camera Detection Distance (to human)	2000 m	3000 m	4000 m	2000 m	3000 m	4000 m							
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							
Focus	automatic, one push, manual												
Horizontal Resolution	480TVL												
Image inductor	1/4" IT ExView HAD CCD												
Iris	Automatic/Manual												
Lowest illumination	0.01lx												
Scanning method	Scanning line-by-line												
Signal-to-noise	≥50db												
Simultaneous system	Internal and External												
Valid pixel	752 (H) x582 (V) 440,000												
Video output	VBS:1.0Vp-p (simultaneous negative), V/C output												
White balance	Automatic, broad dynamic, inside, outside, single key, manual												
Thermal Camera													
Thermal Detection Distance (human w/ Johnson Criteria)	300m	800m	1040 m	1600m	300m	800m	1040m	1600m	300m-1600m				
Thermal Detection Distance (vehicle w/ Johnson Criteria)	800m	2000 m	2730 m	4200m	800m	2000m	2730m	4200m	800m-4200m				
Field of View	36°x27°	14°x10.5°	10.6°x8.0°	7°x5.6°	36°x27°	14°x10.5°	10.6°x8.0°	7°x5.6°	36°x27°-7°x5.6°				
Focal Length	20mm	50mm	65mm	100mm	20mm	50mm	65mm	100mm	20-100mm				
Minimum Object Distance	10m												
Sensitive Components	Un-cooled infrared focal plane detector												
Thermal Control	Automatic / manual menu control												
Wave Length	8~14μm												

