ATLAS **Rugged**, Mobile Surveillance

The Atlas is a portable all-weather PTZ camera system featuring an impressive slate of day/night zoom camera options with both wide-angle and long-range imaging capabilities and 2 Megapixel or 8 Megapixel (4K) high resolution sensors. Night vision capabilities can be added with thermal sensors rated for up to 6km of detection or ZLID[™]/IR LED illumination which allows for HD nighttime performance up to 750m in complete darkness.

All of this comes in a rugged aluminum weather or marine-ready enclosure, with powerful PTZ capabilities, making the Atlas an excellent choice for marine and vehicle deployments by police, navy, militaries and more around the world.

Key Features:

- > Single-Sensor or Multi-Sensor Integrated PTZ System
- > 2MP HD or 8MP 4K High Resolution Sensors
- > Impressive Visible Zoom Options from 3X to 30X
- > Optical Field of View Options from 74° to 2.14°
- > 12µm 640×480 VOx Uncooled Thermal Imager or Optional 384×288 or 1024×768 Thermal Resolutions
- Active IR LED Illumination for 150m of Night Vision or Optional ZLID Illumination for up to 750m of Night Vision
- > Rugged Mobile-Ready Design
- > Military Connector Supplies Video, Power and Telemetry Over a Single Cable
- > Rugged IP67 and -40° to +65°C Weather Resistance

Optional Features:

- Magnetic Mount
- > GPS, WiFi, 4G Cellular Transmission
- > Vibration Mount
- > 940nm "Stealth" ZLID Illumination
- Internal Storage
- Nano Coating for Viewing Window



CO INFINITI

VISIBLE/NIR CAMERA OPTIONS Visible/NIR HD Zoom Camera

VIS/NIR Optical Camera

Infiniti's VIS/NIR zoom cameras utilize high-end CMOS sensors to offer excellent spectral sensitivity in the visible and near-infrared wavelengths of light to provide highquality images optimized for long-range surveillance. They are designed to provide industry-leading performance and quality, with image resolutions ranging from 2MP (HD/1080p) to 8MP (UHD/4K).



Continuous Zoom Lenses

The Atlas's precision engineered IR-corrected zoom lenses are built with high quality optical glass and feature integrated rapid auto focus. We offer a wide range of focal lengths with zoom factors from 3X up to 30X optical zoom. At full zoom, our longest range 30X lens option has the equivalent field of view of a "full-frame" DSLR camera with a 950mm lens.



Standard Color Visible Image (Optical Fog Filter Disabled)

NIR Image (Optical Fog Filter Enabled)

Optical Fog Filter (NIR Only Mode)

While all of our sensors offer a nighttime NIR + visible mode for optimized sensitivity in low light, the optional 2MP 36X camera features a NIR bandpass filter (also referred to as a "fog filter") to isolate the NIR (near-infrared) wavelength of light during the day for clearer long-range daytime imaging.

Long-range imaging needs to see through large amounts of atmosphere which often contains particulates like smoke, haze/fog, and other atmospheric distortions. Cutting out the visible wavelength and isolating the NIR can mitigate the effects of smoke, haze and light fog, producing an image with better contrast and less distortion. The 2MP 36X lens option incorporates a motorized filter that is used with the camera's monochrome mode and de-haze image processing to see through smoke, smog and haze.

NIGHT VISION OPTIONS ZLIDTM Illumination or Thermal Imaging





See in the Dark with ZLID[™]

IR illumination allows for detailed HD video when there isn't enough natural light, however common IR LED illuminators have very limited ranges. For long-range illumination, a laser is needed. Many laser illuminators overexpose the center of the screen and leave the edges dark. Infiniti's ZLID (Zoom Laser IR Diode) technology synchronizes the IR intensity and area illumination with the zoom lens for outstanding active IR performance, eliminating over-exposure, washout, and hot-spots for clear images in complete darkness.

Our optional 940nm "Stealth" ZLID offers covert illumination that is completely invisible to the human eye, with no red glow visible even at the light source (an 808nm IR illuminator will still have a visible red glow at the light source).

See Further with Thermal

Optional thermal imaging lets you see further than any other night vision technology. Unlike traditional visible cameras, thermal imaging uses radiated heat rather than reflected light to see objects. Humans, animals, and vehicles are warmer in contrast to most backgrounds, making trespassers hiding in shadows or bushes easy to spot. Thermal images are also unaffected by bright lights and have the ability to see through atmospheric obstructions such as smoke, dust, and light fog. This makes it an ideal technology for many applications, including surveillance and security, search and rescue, fire, marine and land navigation, wide area situational assessment and more.

The Atlas's LWIR sensor options use a cuttingedge 12µm VOx uncooled sensor, giving the camera a narrower field of view without changing the lens. The smaller 12µm pixel pitch achieves a 40% further range than 17µm sensors or 200% further range than older 25µm sensors. The high-sensitivity sensor detects differences in temperature as small as ±0.05°C, and its no-maintenance VOx design, unlike other thermal cores, is self-healing and resistant to solar damage.

Human DRI:

19mm Ge lens	752m 251m 125m
35mm Ge lens	1385m 462m 231m
55mm Ge lens	2613m 871m 435m
	Vehicle DRI:
19mm Ge lens	1742m 581m 290m
35mm Ge lens	3208m 1069m 535m
55mm Ge lens	2017m 1008m
	DETECTION* RECOGNITION* IDENTIFICATION*

*DRI detection ratings are based on industrywide standards (Johnson's Criteria) that can be misleading if not properly understood. For more information, please see our whitepaper about understanding DRI measurements at: www.infinitioptics.com/dri

ATLAS Visible Camera Options



		8MP 30X	4MP 30X	4MP 24X	2MP 30X	8MP 8X	12MP 3X Wide Angle						
Simulated FOV @ 1km		*	*										
Pixels Per I	Meter @ 1km	90ppm	72ppm	60ppm	50ppm	27.5ppm	9.4ppm						
DORI	D: 25ppm	3,600m Detection	2,873m Detection	2,394m Detection	1,982m Detection	1,101m Detection	390m Detection						
	O: 62ppm	1,452m Observation	1,158m Observation	965m Observation	799m Observation	444m Observation	157m Observation						
	R: 125ppm	720m Recognition	575m Recognition	479m Recognition	396m Recognition	220m Recognition	78m Recognition						
	l: 250ppm	360m Identification	287m Identification	239m Identification	198m Identification	110m Identification	39m Identification						
Output Resolution		8MP/4K @ 30fps (3840×2160)	4MP @ 30fps (2688×1520)	4MP @ 30fps (2688×1520)	2MP/1080p @ 30fps (1920×1080)	8MP/4K @ 30fps (3840×2160)	12MP/4K @ 20fps (4000×3000)						
Image Sensor		8.4 Megapixel 1/1.8" W CMOS	4.1 Megapixel 1/2.9" CMOS	4.1 Megapixel 1/2.9" CMOS	2.4 Megapixel 1/2.8" CMOS	8.4 Megapixel 1/2.8" CMOS	12.9 Megapixel 1/2.3" CMOS						
Lens*	Focal Length	6-180mm	4.7-141mm	5-120mm	4.8-144mm	5-40mm	3.9-14.5mm						
	Optical Zoom	30X Optical Zoom + 16X Digital	30X Optical Zoom + 16X Digital	24X Optical Zoom + 16X Digital	30X Optical Zoom + 16X Digital	8X Optical Zoom + 16X Digital	3.5X Optical Zoom + 16X Digital						
	Angle of View	65.2°-2.44° Horizontal (0.3° with 8X Digital Zoom)	67.9°-2.14° Horizontal (0.54° with 4X Digital Zoom)	56.6°–2.57° Horizontal (0.64° with 4X Digital Zoom)	69.8°–2.22° Horizontal (0.56° with 4X Digital Zoom)	58.3°-8.0° Horizontal (1.0° with 8X Digital Zoom)	74.6°-24.0° Horizontal (3.0° with 8X Digital Zoom)						
	Focus	Auto / Manual	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual/Semi-Auto	Auto/Manual/Semi-Auto						
Minimum Illumination		Color: 0.1 Lux @ f/1.5; Color: 0.005 Lux @ f/ B&W: 0.01 Lux @ f/1.5 B&W: 0.0005 Lux @ f/		Color: 0.005 Lux @ f/1.5; B&W: 0.0005 Lux @ f/1.5 B&W: 0.0005 Lux @ f/1.5		Color: 0.01 Lux @ f/1.5; B&W: 0.001 Lux @ f/1.5	Color: 0.5 Lux @ f/2.4; B&W: 0.05 Lux @ f/2.4						
Optical Fog Filter (NIR)		No	No	No	No	No	No						
Heatwave Mitigation		No	No	No	No	No	No						
NDAA Compliant		Yes Yes Yes Yes Yes Yes											
Video Compression		H.265/H.264/MJPEG											
Network	Protocol	ONVIF, HTTP, RTSP, RTP, TCP, UDP											
Image Stat	oilization	Electronic Image Stabilization (EIS)											
Image Enh	ancements	Auto White Balance, WDR, 2D/3D DNR, BLC, HLC, Digital Defog											
Edge Stora	ige	Supports MicroSD Card up to 256GB											

*Lens measurements and angle of view are accurate to ±10% due to back focus distances, sensor sizes, lens manufacturing, etc.

ZLID[™]/IR Illumination Options

	150m IR	300m ZLID	500m ZLID	500m Stealth* ZLID	750m ZLID	750m Stealth* ZLID
Illumination Distance	150m	300m	500m	500m	750m	750m
Wavelength	808nm	808nm	808nm	940nm	808nm	940nm
NOHD	Om (eye safe at any distance)	15m	18.4m	13.6m	26m	17.5m

*808nm IR light is invisible to the human eye, however the light source will still be visible as a faint red dot. Our optional 940nm "Stealth" ZLID offers covert illumination that is completely invisible to the human eye, with no red glow visible even at the light source.

ATLAS Thermal Camera Options



		9mm			13mm			19mm			25mm			35mm			55mm		
Image Sensor Uncooled Vanadium Oxide (VOx) Microbolometer, 30Hz or 9Hz upon request																			
Resolution 384×288, 640×512 or 1280×1024 pixels																			
Pixel Pitch		12µm (Ov	er 200% fi	urther rang	e than 25µ	ım sensors	, 40% furth	ner range t	han 17µm :	sensors)									
Lens		9mm f/1.2	2		25mm f/1.2			19mm f/1.0			25mm f/1.0		35mm f/1	.0		55mm f/1.0			
Focus		Athermal	ized																
Field of	384×288	28.7° Horizontal FOV			20.1° Horizontal FOV			13.8° Horizontal FOV			10.5° Horizontal FOV		7.53° Horizontal FOV			4.80° Horizontal FOV			
View	640×512	46.2° Horizontal FOV			32.9° Horizontal FOV			22.9° Horizontal FOV			17.5° Horizontal FOV			12.5° Horizontal FOV			7.99° Horizontal FOV		
	1280×1024	81° Horizontal FOV			61.1° Horizontal FOV			44° Horizontal FOV			34.2° Horizontal FOV			24.8° Horizontal FOV			15.9° Horizontal FOV		
Human DRI Ratings*		356 m	119 m	59 m	515 m	172 m	86 m	752 m	251m	125 m	990 m	330 m	165 m	1,385 m	462 m	231m	2,613 m	871m	435 m
Vehicle DRI Ratings*		825 m	275 m	138 m	1,192 m	397 m	199 m	1,742 m	581m	290 m	2,292 m	764 m	382 m	3,208 m	1,069 m	535 m	6,050 m	2,017 m	1,008 m
Spectral Range		7,000-14,000nm (LWIR)																	
Thermal Sensitivity		50mK																	
Image Displa	y Modes	White Hot																	

D R I DRI detection ratings are based on industry-wide standards (Johnson's Criteria) that can be misleading if not properly understood. For more information, please see our whitepaper about understanding DRI measurements at: www.infinitioptics.com/dri

Additional System Specifications

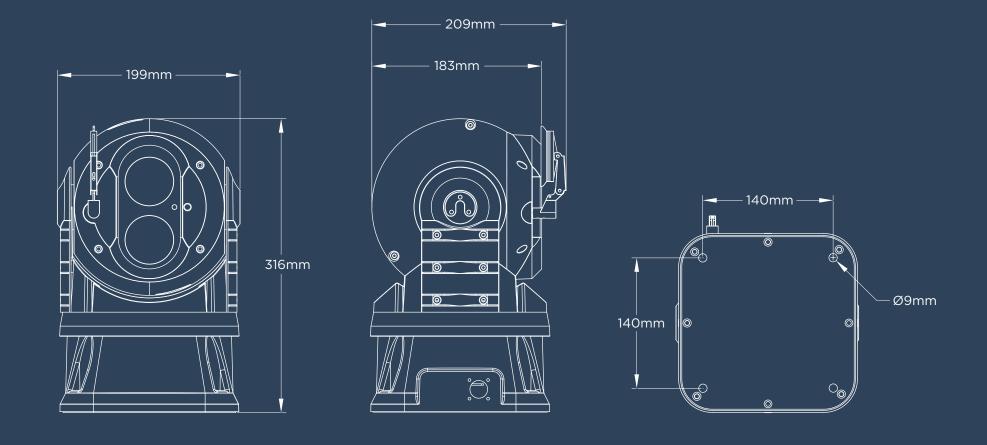
Pan/Tilt Mechanical

Pan Angle & Speed360° Continuous, 0.05°/sec to 50°/secTilt Angle & Speed-20° to +40°, 0.05°/sec to 50°/secAbsolute PositioningNot supportedPhysical-20° to +40°, 0.05°/sec to 50°/secConstructionHigh Strength Aluminum Alloy (optional anti-corrosive coating)Weight6.6kgDerational Temperature-40°C to +65°C, <90% Relative HumidityOperational Temperature-40°C to +65°C, <90% Relative HumidityEnvironmentalIP67 Weatherproof HousingEnvironmental1P67 Weatherproof HousingPhysical2VDC or 24VDCInput Voltage12VDC or 24VDCPower ConsumptionMax 60W (will change depending on configuration)						
Absolute Positioning Not supported Physical Construction High Strength Aluminum Alloy (optional anti-corrosive coating) Weight 6.6kg Deprational Temperature -40°C to +65°C, <90% Relative Humidity	Pan Angle & Speed	360° Continuous, 0.05°/sec to 50°/sec				
Physical Construction High Strength Aluminum Alloy (optional anti-corrosive coating) Weight 6.6kg Environmental Operational Temperature -40°C to +65°C, <90% Relative Humidity	Tilt Angle & Speed	-20° to +40°, 0.05°/sec to 50°/sec				
Construction High Strength Aluminum Alloy (optional anti-corrosive coating) Weight 6.6kg Environmental Operational Temperature -40°C to +65°C, <90% Relative Humidity	Absolute Positioning	Not supported				
Weight 6.6kg Environmental Operational Temperature -40°C to +65°C, <90% Relative Humidity	Physical					
Environmental Operational Temperature -40°C to +65°C, <90% Relative Humidity	Construction	High Strength Aluminum Alloy (optional anti-corrosive coating)				
Operational Temperature -40°C to +65°C, <90% Relative Humidity	Weight	6.6kg				
Environmental IP67 Weatherproof Housing Electrical Input Voltage 12VDC or 24VDC	Environmental					
Electrical Input Voltage 12VDC or 24VDC	Operational Temperature	-40°C to +65°C, <90% Relative Humidity				
Input Voltage 12VDC or 24VDC	Environmental	IP67 Weatherproof Housing				
	Electrical					
Power Consumption Max 60W (will change depending on configuration)	Input Voltage	12VDC or 24VDC				
	Power Consumption	Max 60W (will change depending on configuration)				

Brochure specifications subject to change.

Dimensions





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