

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 5km 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 640×512 VOx Uncooled Thermal Imager
- › 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

 **INFINITI** LITE

Note: As an Infiniti Lite system, the Atlas is built for hands-on manual control via joystick or mouse and does not support our Octagon API for network control. Step up to the Octagon-Enabled Rogue series when you need absolute positioning, radar slew-to-cue, or full API/network integration for control.



4.8mm-  
**144**  
30X 2MP

**13**  
mm  
LWIR

5mm-  
**120**  
24X 4MP

**150m**

**19**  
mm  
LWIR

6.6mm-  
**132**  
20X 8MP

**300m**  
ZLID™

**25**  
mm  
LWIR

4.7mm-  
**141**  
30X 4MP

**500m**  
ZLID™

**35**  
mm  
LWIR

6mm-  
**180**  
30X 8MP

**750m**  
ZLID™

**55**  
mm  
LWIR



Rugged  
& Mobile  
Ready

Remote Pan/  
Tilt/Zoom  
Control



**IP67**  
Weatherproof  
with Military  
Connectors

Multiple Zoom  
Lens Options  
up to 180mm

Optional IR  
Illumination  
up to 750m

Optional  
Thermal  
Imaging

View the Atlas on our website:



DAYLIGHT CAMERA OPTIONS

# Visible/NIR HD Zoom Camera & RDK Option

## 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 high-quality 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.

## Custom Rapid Deployment Kits

Our Rapid Deployment Kits allow for safe transportation and ultra fast setup and operation of Infiniti surveillance PTZ camera systems.

RDKs can be customized for a wide variety of applications, including basic configurations for transport cases only or a fully customized view-and-control kit with an integrated monitor, NVR/server for recording, WiFi/4G connectivity for remote viewing or control, tripods, and battery backups.

These kits are an excellent rapid deployment solution for military, law enforcement and other applications where every minute counts.



NIGHT VISION OPTIONS

# ZLID™ Illumination or Thermal Imaging

INFINITI



Thermal Image



ZLID Image

## 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.

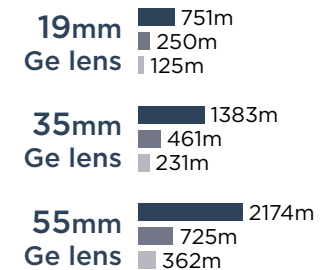
Our optional 940nm "Stealth" ZLID offers covert illumination that is completely invisible to the human eye, with no red glow visible even at the light source (an 808nm IR illuminator will still have a visible red glow at the light source).

## See Further with Thermal

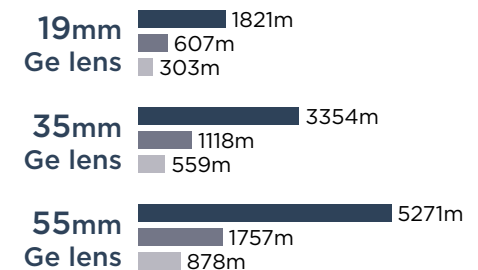
Optional thermal imaging lets you see further than any other night vision technology. Unlike traditional visible cameras, thermal imaging uses radiated heat rather than reflected light to see objects. Humans, animals, and vehicles are warmer in contrast to most backgrounds, making trespassers hiding 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 cutting-edge 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:



### Vehicle DRI:



■ DETECTION\*  
■ RECOGNITION\*  
■ IDENTIFICATION\*

\*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](http://www.infinitioptics.com/dri)

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# Visible Camera Options

		8MP 30X	4MP 30X	8MP 20X	4MP 24X	2MP 30X	12MP 3X Wide Angle**
Simulated FOV @ 1km							
Pixels Per Meter @ 1km		90ppm	72ppm	66ppm	60ppm	50ppm	9.4ppm
DORI	D: 25ppm	3,600m Detection	2,873m Detection	2,640m Detection	2,394m Detection	1,982m Detection	390m Detection
	O: 62ppm	1,452m Observation	1,158m Observation	1,065m Observation	965m Observation	799m Observation	157m Observation
	R: 125ppm	720m Recognition	575m Recognition	528m Recognition	479m Recognition	396m Recognition	78m Recognition
	I: 250ppm	360m Identification	287m Identification	264m Identification	239m Identification	198m Identification	39m Identification
Output Resolution		4K @ 30fps (3840x2160)	4MP @ 30fps (2688x1520)	4K @ 30fps (3840x2160)	4MP @ 30fps (2688x1520)	1080p @ 30fps (1920x1080)	12MP @ 20fps (4000x3000)
Image Sensor		8.4 Megapixel 1/1.8" W CMOS	4.1 Megapixel 1/2.9" CMOS	8.4 Megapixel 1/1.8" W CMOS	4.1 Megapixel 1/2.9" CMOS	2.4 Megapixel 1/2.8" CMOS	12.9 Megapixel 1/2.3" CMOS
Lens*	Focal Length	6-180mm	4.7-141mm	6.6-132mm	5-120mm	4.8-144mm	3.9-14.5mm
	Optical Zoom	30X Optical Zoom × 16X Digital Zoom	30X Optical Zoom × 16X Digital Zoom	20X Optical Zoom × 16X Digital Zoom	24X Optical Zoom × 16X Digital Zoom	30X Optical Zoom × 16X Digital Zoom	3.5X Optical Zoom × 16X Digital Zoom
	Angle of View	65.2°-2.44° Horizontal	67.9°-2.14° Horizontal	62.5°-3.3° Horizontal	56.6°-2.57° Horizontal	60.3°-2.22° Horizontal	74.6°-24.0° Horizontal
	1080p Equiv.†	60X, 1.22° HFOV	42X, 1.53° HFOV	40X, 1.65° HFOV	33X, 1.84° HFOV	30X, 2.22° HFOV	7X, 11.5° HFOV
	Focus	Auto / Manual	Auto/Manual	Auto/Manual/Semi-Auto	Auto/Manual	Auto/Manual	Auto/Manual/Semi-Auto
Minimum Illumination		Color: 0.1 Lux @ f/1.5; B&W: 0.01 Lux @ f/1.5	Color: 0.005 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: 0.005 Lux @ f/1.5; B&W: 0.0005 Lux @ f/1.5	Color: 0.005 Lux @ f/1.5; B&W: 0.0005 Lux @ f/1.5	Color: 0.5 Lux @ f/2.4; No dedicated B&W low-light
Optical Fog Filter (NIR)		No	No	No	No	No	No
Heatwave Mitigation		No	No	Optional	No	No	No
NDAA Compliant		Yes	Yes	Yes	Yes	Yes	Yes
Video Network	Compression	H.265/H.264/MJPEG					
	Protocol	ONVIF, HTTP, RTSP, RTP, TCP, UDP					
Image Stabilization		Electronic Image Stabilization (EIS)					
Image Enhancements		Auto White Balance, WDR, 2D/3D DNR, BLC, HLC, Digital Defog					
Edge Storage		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. \*\*Note that the 12MP 3X Wide Angle camera option does not work with IR or ZLID illumination. †Zoom ratio and FOV equivalent if zooming into a 1080p crop of the video output.

## 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	0m (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.

# Thermal Camera Options

	9TI	13TI			19TI			25TI			35TI			50TI				
Image Sensor	Uncooled Vanadium Oxide (VOx) Microbolometer, 30Hz or 9Hz upon request																	
Resolution	640x512 pixels																	
Pixel Pitch	12µm (Over 200% further range than 25µm sensors, 40% further range than 17µm sensors)																	
Lens	9mm f/1.0	25mm f/1.0			19mm f/1.0			25mm f/1.0			35mm f/1.0			50mm f/1.0				
Focus	Athermalized																	
Field of View	46.2° Horizontal FOV			32.9° Horizontal FOV			22.9° Horizontal FOV			17.5° Horizontal FOV			12.5° Horizontal FOV			8.78° Horizontal FOV		
Human DRI Ratings*	356m	119m	59m	514m	171m	86m	751m	250m	125m	988m	329m	165m	1,383m	461m	231m	1,976m	659m	329m
Vehicle DRI Ratings*	863m	288m	144m	1,246m	415m	208m	1,821m	607m	303m	2,396m	799m	399m	3,354m	1,118m	559m	4,792m	1,597m	799m
Spectral Range	8,000-14,000nm (LWIR)																	
Thermal Sensitivity	20-35mK																	
Image Display Modes	White Hot, Black Hot, Red Hot, other color palettes available upon request																	

\* **D R I** While DRI ratings are based on the industry-standard Johnson's Criteria, they represent theoretical maximums under ideal conditions that typically exceed real-world performance. Additionally, a "Detection" rating means that a target will appear only as a tiny speck of pixels, rather than as a clearly defined or recognizable object. For more info, please see our whitepaper about understanding DRI at: [www.infiniitioptics.com/dri](http://www.infiniitioptics.com/dri)

## Additional System Specifications

### Pan/Tilt Mechanical

Pan Angle & Speed	360° Continuous, 0.05°/sec to 50°/sec
Tilt Angle & Speed	-20° to +40°, 0.05°/sec to 50°/sec
Absolute Positioning	Not supported
Octagon Enabled	No

### Physical

Construction	High Strength Aluminum Alloy (optional anti-corrosive coating)
Weight	6.6kg

### Environmental

Operational Temperature	-40°C to +65°C, <90% Relative Humidity
Environmental	IP67 Weatherproof Housing

### Electrical

Input Voltage	12VDC or 24VDC
Power Consumption	Max 60W (will change depending on configuration)

Brochure specifications subject to change.

ATLAS  
**Dimensions**

