

TRI-30X-IR

THE TRITON

INFINITI

Ultra Mobile Rugged 30X PTZ Camera



The Triton is a rugged, all-weather portable turn-key PTZ camera system. Its 30X HD day/night zoom camera provides both wide angle and long range capabilities with a horizontal field of view ranging from 67.8 to 2.4 degrees. Its IP ONVIF S video output allows it to work over the internet with a VMS or NVR, or can optionally be ordered with HDX or SDI output* for use with legacy broadcasting and transmission equipment. It has integrated IR LED illumination allowing it to see up to 50m in complete darkness.

All of this comes in a rugged aluminum IP66 enclosure that is low profile and weighs under 2.5kg, making the Triton a clear choice for marine and vehicle rapid deployment for police, navy and militaries around the world.

Key Features:

- › SWaP—Low Size Weight and Power
- › Lightweight < 2.5kg Package (roughly 5 pounds)
- › 1920x1080 Progressive Scan CMOS Day/Night Network or SDI Camera
- › 30X Optical 4.5-135mm HD IR-Corrected Continuous Zoom Lens
- › Optical Field of View from 67.8° to 2.4°
- › User-Defined WDR, HLC, BLC, AWB, Dehaze/Defog via Web Client
- › Integrated Active IR LED Illumination for Night Vision
- › Micro-Step Technology for Quick, Accurate Pan/Tilt Better than 0.05°
- › Rugged IP66 Design with Optional Magnetic Mount System
- › Rated for Operation in Temperatures Ranging from -40° to +65°C
- › Military Connector Supplies Video, Power and Telemetry over a Single Cable
- › Integrated Magnetic Mount

Optional Features:

- › Vibration Mount
- › 4G Cellular Transmission
- › Integrated Battery Backup
- › Integrated Internal Storage



Waterproof



4.5-135mm
Zoom Lens



2MP Sensor



PTZ Controls



Military
Connectors



Mobile

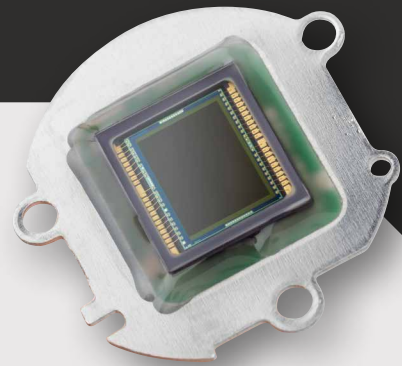
*HDX or SDI option must be specified at the time of order, SDI configuration requires a large quantity order.

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THE TRITON'S Optical HD Camera



Visible Optical Camera

The optical camera has been designed and optimized for long-range surveillance. It uses a 1/2.8" progressive scan CMOS sensor with an HD resolution of 1920x1080 and a fantastic signal to noise ratio of 55dB. The 1/2.8" sensor has excellent spectral sensitivity for both visible and NIR wavelengths and features an automatic IR cut filter, making it a true day/night camera providing clear color images by day and black and white images at night. The 1/2.8" sensor provides the best balance between light sensitivity and maximum zoom, making it particularly suited for long range surveillance. The Triton also integrates the latest technology in real-time image processing such as BLC, HLC, DWDR, EIS, 3D DNR, Defog/Haze, etc. Since the camera is native IP, all of these settings can be changed and configured remotely, along with remote pan, tilt and zoom control.



Approximate FOV at 1km

Versatile 30X Zoom Lens

The 30X Triton comes equipped with a precision engineered 4.5-135mm telephoto IR-corrected zoom lens offering continuous zoom from a wide 67.8° angle through to a narrow 2.4° field of view. The 1/2.8" sensor paired with the 135mm lens renders a field-of-view equivalent to a full-frame (35mm) DSLR camera with a 800mm lens. Infiniti's zoom optics are built with the highest quality Japanese fluorite ELD low dispersion glass, and the integrated rapid auto focus allows long range recognition and identification of targets without operator intervention. Infiniti's HD Zoom camera is a perfect synergy between precision craftsmanship, state of the art sensor hardware and the latest image processing for unparalleled range and performance.

Based on an average SUV length of 5.25m, at maximum zoom it would occupy the following percentage of the screen width at these specified distances.

6% of screen width at 2km



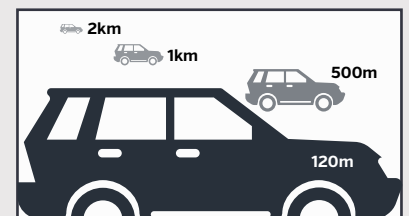
12% of screen width at 1km



25% of screen width at 500m



100% of screen width at 120m



IR LED Array Night Vision

The Triton's 3 IR LED arrays provide up to 50m (160ft) of IR illumination. The LEDs have integrated optical collimators that shape the IR light to eliminate hot spots and washouts, resulting in a more consistent and even illumination. An EPC (Electronic Photocell Control) automatically activates the IRs in low light, ensuring 24/7 day night imaging even in complete darkness. If required, The Triton can also be customized with military grade 940nm stealth that eliminates the red glow typically present with IR illumination for more covert surveillance and reconnaissance.

THE TRITON'S Other Features

Pan-Tilt Resolver

The heavy-duty PTZ driver is designed for extreme performance in the most demanding applications. It features endless 360° panning and micro-step technology for precise pan and tilt positioning with speeds of 0.5°-80°/sec. Additional features, such as presets and tours, are compatible with most existing equipment by means of Pelco-D and Pelco-P protocols with optional absolute positioning.

ONVIF IP PTZ Solution

Although the Triton is an extremely sophisticated piece of equipment, it is operated by an intuitive, user friendly interface with multiple control options such as touch screen and mouse. It can also be controlled by a 3-axis joystick via Pelco-D and is simple to operate without prior training.

The Triton is a IP network video camera system that utilizes the latest ONVIF Profile S protocol, allowing the video to be distributed over wired, wireless and cellular networks. ONVIF ensures integration with the widest range of NVRs, VMSs and video storage devices. IP allows for real time control and configuration of the cameras from anywhere in the world.

View all of your cameras remotely in real-time from anywhere in the world on a PC using Infiniti's VMS or web client, or on your mobile device with our iPhone or Android apps. In many security applications remote performance can be limited by cellular or satellite bandwidth. To combat this, Infiniti equips our IP PTZs with dual streaming technology. This allows an HD video stream to be used for local recording, while a lower resolution stream is used for remote viewing. H.264 and H.265 Ultrastream smart codecs allow for precise bitrate management to minimize throughput and recording requirements and work within the limitations of the network.

Designed for Mobile

The Triton is designed for maximum portability. It can be mounted upright or inverted, weighs under 5 pounds, and has a low power draw. It includes an integrated magnetic mount for quick and easy mounting on vehicles. It also can be built into a Rapid Deployment Kit (RDK) that includes, power, wireless networking, recording, display and tripod to create a complete integrated surveillance solution.

This camera is designed to be the ultimate mobile solution for marine, military, and law enforcement, and can be used both autonomously as well as part of a larger solution.



Rugged Military
Connector Cable



Included
Magnetic
Mount

OPTIONAL ACCESSORIES:



PTZ Controller



Mobile NVR with GPS



Vibration
Mount

TRI-30X-IR Specifications



Optical Camera Assembly

Image Sensor	1/2.8" Progressive Scan CMOS
Resolution	1920x1080 Full HD
Iris	Auto/Manual: f1.6-f4.4
Minimum Illumination (at f1.6)	Color: 0.005 Lux / B&W: 0 Lux with IR on
Shutter Speed	Auto/Manual: 1/6 - 1/10,000 Sec
Lens	4.5-135mm HD Continuous Zoom Lens
Field of View	67.8°-2.4° Horizontal FOV
Zoom	30X Optical
Focus Mode	Auto
Day/Night	IR Cut filter with auto switch (ICR)

IR Illumination

IR Distance	50m
IR Angle	Adjustable by zoom

Communication & Presets

Video Compression	H.264 Main Profile/MJPEG
Video Streaming	Triple Streams
Presets	Up to 255 presets, 6 preset tours
Patterns	Up to 4 patterns, less than 10 minutes
Serial Control	RS485, Pelco-P/D Standard
Ethernet	ONVIF Profile -S (others available)
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, UPnP, SNMP, FTP, 802.1x, QoS, HTTPS, IPv6

Pan/Tilt

Drive Unit	Integrated micro-step resolver
Pan/Tilt	360° Continuous Pan, up to 80°/sec / -25° to +90° Tilt, up to 60°/sec
Preset Accuracy	0.01° (Micro-Step) with closed loop control
Power Loss Recovery	Supported

Physical

Construction	High Strength Aluminum Alloy w/anti-corrosive coating
Weight	2.6kg
Dimensions	150mm x 150mm x 212mm (Standard Model)

Environmental

Operational Temperature	-40°C to +65°C
Environmental	IP 66

Electrical

Input Voltage	DC12V
Power Consumption	20W

*Specifications subject to change.

Optional Features: Vibration Mount,
4G Cellular Transmission,
Battery Backup

