Erdman

Kitefin TL

18MP Indoor Time Lapse Photography System

Photograph your indoor project with the stunning clarity of a Canon EOS Digital SLR camera

Mobile Broadband equipped and ready to capture, archive and upload anywhere in the United States

Powerful automated 7 day scheduler

Lightweight indoor enclosure

128GB+128GB redundant local storage

The Kitefin TL is the perfect tool for capturing mission critical time lapse footage. Utilizing an 18MP DSLR camera, this system is ready to photograph, archive and upload from anywhere. The system comes equipped with a cellular modem making it easy to tweak and configure any settings remotely as well as giving you critical operational alerts. The package is outdoor ready utilizing an impact resistant polycarbonate enclosure that is impervious to water penetration. All of this combined makes the Mako TL system a complete package able to deliver time lapse photography from anywhere.

The EOS SL1 from Canon is the smallest and lightest DSLR available on the market today. Sighting in at 18MP, it has the resolution necessary to produce time-lapse frames that are over 8x larger than 1080p HD video and over 2x larger than 4K(2160p) video. When combined with Canon optics, it is able to capture your project in amazing clarity and detail. When true photographic quality is necessary you can rely on the optical and digital quality that a professional Canon camera can provide.

Canon 10-18mm Lens

- Horizontal Angle of View - 97° to 64°
- Vertical Angle of View - 74° to 45°
- Aperture - f/4.5-5.6 to f/22-29
- Construction - 14 elements in 11 groups
- Focus Motor - STM with remote focus capability

Your Choice

Canon 18-55mm Lens

- Horizontal Angle of View - 64° to 23°
- Vertical Angle of View - 45° to 15°
- Aperture - f/3.5-5.6 to f/22-36
- Construction - 13 elements in 11 groups
- Focus Motor - STM with remote focus capability

Robust, Web Enabled, Time Lapse Photography Systems

TL Series are suitable for a wide range of applications, including construction site monitoring & documentation, timelapse for marketing purposes, scientific, and other documentary uses.
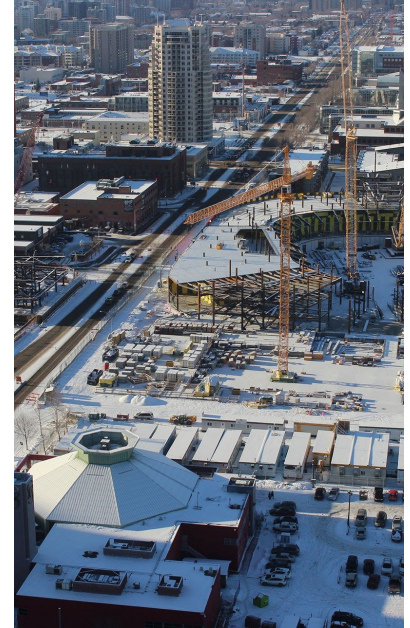
Plug it in, call us, and we do the rest
Installation is easy as the camera comes web enabled out of the box. If you can find a place to put the camera simply power it up and call us and we can help you the rest of the way. Within just 15 minutes we can have your website up and running and available to view from your smartphone, tablet ,PC or Mac.

Easy access to your image archive history
Our TL series offers cameras suitable for a range of documentation applications, including live construction site monitoring via our website. Authorized users can download the entire image archive via FTP at anytime or use the web based image viewers to browse the image archive, view timelapse movie playback, compare one image to another using easy overlay controls, email an image, and more.

A Turnkey solution
Our cameras save installation time and costs since they are ready out of the box for mounting outdoors. The IP66 system has protection against dust, rain, snow and sunlight, and can operate in temperatures as low as -40 °C (-40 °F) when upgraded with our cold weather package. The cameras are powered by low voltage DC, which provides install flexibility and easy conversion to solar power. Standard mounts available include pedestal, wall and pole. Specialized mounts such as Non-Penetrating Roof Mounts are available for an additional surcharge.
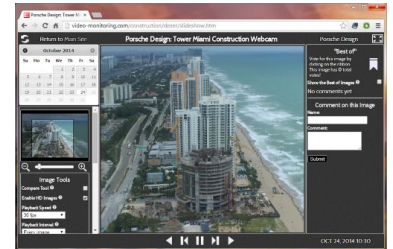
Upload

Browse

One or more cameras on AC or Solar Power

Erdman Server Platform

View online in Erdman's HTML5 Slideshow for desktop and mobile

EVS Center protection to watch over the entire shoot from beginning to end
The camera system continually communicates with our EVS Central Alert system to keep your system running reliably. When an issue arises that requires outside assistance the camera station sends an alert to the EVS Center which is then re-broadcast in the form of smartphone text messages or emails to designated persons on a contact list.

A mature system developed over 25 years and thousands of projects
Our core technology is the result of over 25 years experience deploying timelapse systems in rough outdoor conditions across the globe. With a built in solar mode of operation and it's integrated cell modem the device comes web enabled out of the box for easy installation on almost any project site.

Configure your system in our [online quotation form](#)!

Get [more information](#) about the Mako TL system.

[Find out more](#) about Erdman Video Systems, where we've been and where we are headed

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Technical Specifications - Kitefin TL

Canon EOS SL1 Spec	
Image sensor	22.3mm x 14.9mm APS-C
Image format	18.0MP resolution 5184px x 3456px picture size 3:2 image ratio JPEG or JPEG+RAW
Camera settings	ISO 100 to 6400, 6 White balance settings, TTL maximum aperture metering with 63-zone metering sensor Evaluative metering(linked to all AF points), ±5 stops exp compensation
Camera features	EF and EF-S lens mount, DIGIC 5 Image processor

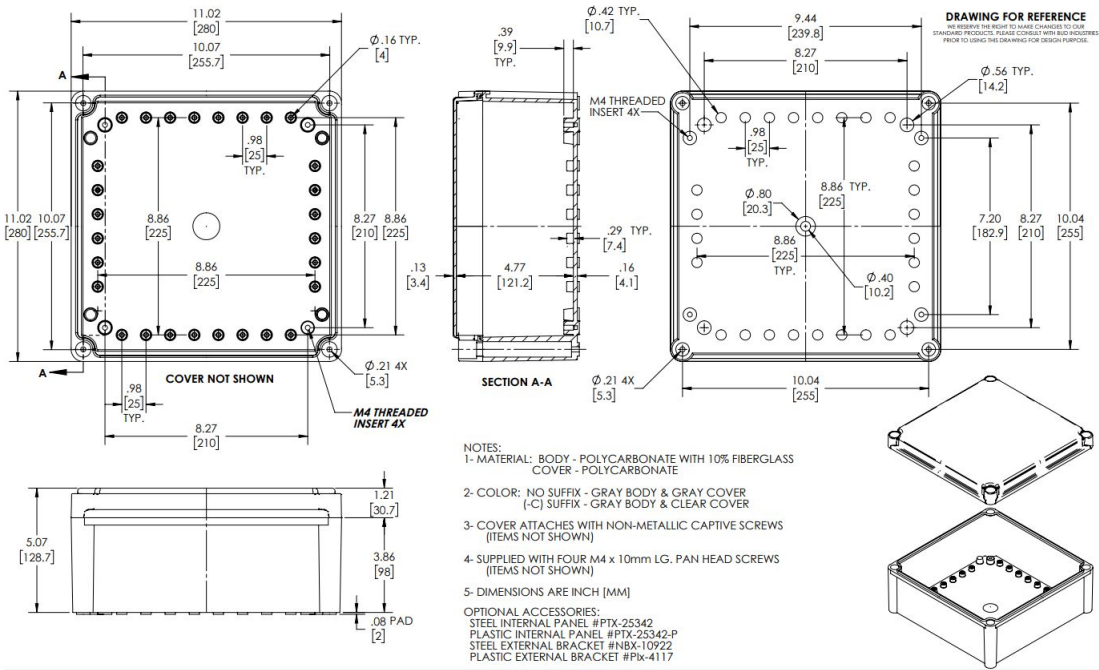| Tiger Embedded Module Specs	
Processor	CPU: 64 bit Intel Atom E3825 Frequency: 1.33GHz Cores: 2 Threads per core: 2
Memory	Type: DDR3L Speed: 1066MHz Capacity: 4GB
Hard Drive	OS: 8GB SSD mSATA -40°C to +85°C Images: 2x 128GB removable USB flash storage **Upgrades:** 2x 258GB removable USB flash storage
OS	Microsoft Windows Embedded Standard 8
Micro-controller	Erdman Proprietary Watchdog Firmware
PC Ports	1x Gigabit Ethernet 3x USB 2.0 1x USB 3.0 1x VGA 2x RS232
Input	12-30v DC 7.08W typical power consumption
Output	3 switched outputs: Input V fused at 5A Camera: 8v fused at 3A PC: 12v fused at 3A
Environmental	Temp spec for inside enclosure: Regular: 0°C to +60°C (+32°F to +140°F)
Dimensions	2.5" Pico ITX (100 x 72mm)

Overall System Spec	
Housing	Dim: 11.5"(L) x 11.1"(W) x 5.2"(H) Material: Fiberglass reinforced Polycarbonate Weatherproofing: NEMA 4X Color: Painted Black
Mount	Ceiling or Surface mount with 360° manual swivel adjustment
Power Input	100-240v AC input @ 0.25A 3 prong plug with 8ft cord
Connectivity	Connectivity includes: 1GbE or Internal WiFi Client or Verizon 4g LTE internal modem

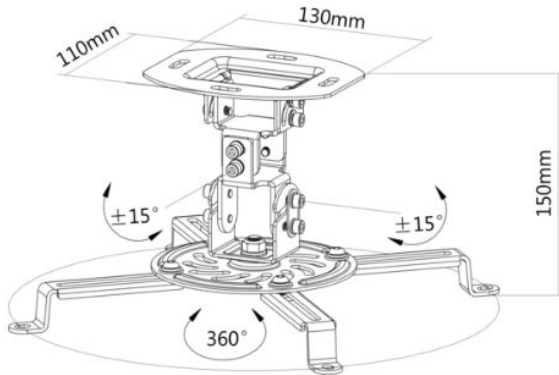| VM95 Software Spec					
Programming	80 programmable "scenes" Programmable scenes include: image capture, uploading, image manipulation, compositing, sensor sampling, rebooting, sleeping	Image Capture Settings	Resolution, ISO, Exposure, Aperture, Exp. Compensation, White Balance, Quality, JPEG compression	Solar Mode	System can go into low power sleep state for operation utilizing batteries and/or solar. Sleep intervals from 3 min to 1 day.
Sample Interval	1 sec to 1 week Day of week selectable Start and stop time selectable "on-the-minute" capable	Image manipulation	Timestamp, resize, rotate, crop, brightness, contrast, thumbnail creation	Archiving	Set up to 4 separate archive drives System manage archive size will keep drives from filling up.

Drawings and Dimensions
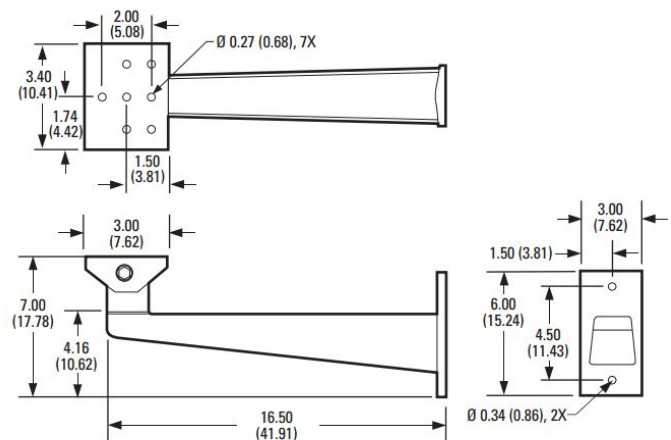
Camera housing	Housing Certifications

NOTES:
1- MATERIAL: BODY - POLYCARBONATE WITH 10% FIBERGLASS
   COVER - POLYCARBONATE

2- COLOR: NO SUFFIX - GRAY BODY & GRAY COVER
   (-C) SUFFIX - GRAY BODY & CLEAR COVER

3- COVER ATTACHES WITH NON-METALLIC CAPTIVE SCREWS
   (ITEMS NOT SHOWN)

4- SUPPLIED WITH FOUR M4 x 10mm LG. PAN HEAD SCREWS
   (ITEMS NOT SHOWN)

5- DIMENSIONS ARE INCH [MM]

OPTIONAL ACCESSORIES:
   STEEL INTERNAL PANEL #PTX-25342
   PLASTIC INTERNAL PANEL #PTX-25342-P
   STEEL EXTERNAL BRACKET #NBX-10922
   PLASTIC EXTERNAL BRACKET #Plx-4117

Standard camera ceiling mount	Standard wall mount

min⌀54mm-max⌀320mm

NOTE: VALUES IN PARENTHESES ARE CENTIMETERS;
ALL OTHERS ARE INCHES.