



CAM-LTZ-400MP

18x PTZ 1.3Megapixel Camera with Patent Pending Long Range Laser Infrared Illumination Technology
2000 Feet Day and 1300 Feet Night

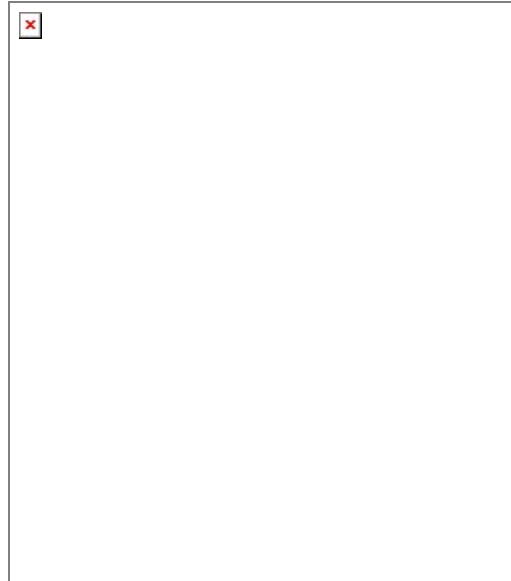
The LTZ Series of cameras from Aventura, is an exciting revolutionary advancement in surveillance solutions. Long-range infra-red imaging using laser technology allows observation, detection and auto-tracking of detailed images and objects up to miles away. The patent pending independent laser zooming technology allows the user to control the concentration and direction of the light array ("Searchlight Technology"). The dual-head, multi-sensor cameras feature a rugged design meant to withstand extreme environments and rotate at a rapid 360° per second. A 18x Wide Dynamic Range optical zoom with image stabilization is placed alongside a laser camera utilizing a 20 mm lens. Standard configurations feature electronic zooms and communicate RS-485 with support for Pelco-D protocol. Optional video content analytics adds a proactive element deterring threats before they occur.

PRODUCT FEATURES

Design	Integrated zooming laser illuminator, CCTV camera, pan tilt shield, decoder, with the combined function of a dome camera and long distance night vision capable of glass penetration and facial recognition
Visibility	Eliminate blind spots, 0°~80°/s shift speed, 360° continuous rotating horizontally, +90°~-90° both up and down
Intelligence	128 presets, 6 tracking paths, scanning, auto-cruise, 30s self patrolling, baud rate 2400-19200, Pelco D/P protocol control, OSD function menu adjustment
Decoder	Utilizes digital circuitry design based on an FPGA platform
Technology	Adopts multi-quanta array laser coupling technology with lens wave guide fiber homogenization, smart laser spot removal for illumination uniformity
Intelligent Dual Function Zooming	Real-time lens focus analysis and control information, laser light can be zoomed simultaneously and independently from camera focus (patent pending), preset with phasing, 0.1s
Electric Light Zoom	Adopts long distance wide area infrared laser zoom illumination technology, light angle varies from 1°~17° and can achieve wide area observation focus with near distance searching (patent pending)
Micro Mechanical Adjustment	Precision mechanical light axis aiming adjustments, Precision: 0.02° (patent pending)
Optional	Stealth Mode (Elimination of Red Illumination), Explosion-Proof
Applications	Airports, Oil fields, Borders, Power Plants, Nuclear, Chemical, Harbors, Military, Police, Citywide, Highways

SPECIFICATIONS

CAMERA	
Style	Laser Night Vision PTZ camera
Signal System	NTSC/PAL
Image Sensor	1/3" Progressive Scan CCD
Compression	H.264
Pixel	1.3 Megapixel
Resolution	15 FPS(1280x960), 30 FPS(1280x720), 30 FPS(640x480)
Bitrate	64Kbps~4Mbps
Framerate	1~30 FPS
Lens	f = 4.7 mm (wide) to 84.6 mm (tele), F1.6 to F2.8
Optical Zoom	18x
Digital Zoom	4x (72x with optical zoom)
Field of View (H)	48° (wide end) to 2.8° (tele end)
Minimum Illumination	1.5 lx (50 IRE)
Signal-to-Noise Ratio	≥50 dB
Electronic Shutter	1/50 to 1/10,000 s, 16 steps
Wide Dynamic Range	On/Off
Backlight Compensation	On/Off
LASER	
Effective Distance	600 m daylight, 400 m night mode (200 m stealth)
Laser Power	Dual circuit drive, regulated voltage and current, power up 1s, photosensitive outside control, 6 W maximum power consumption
Laser Lens	15x20 mm laser telephoto lens f2.0, multilayer plating near infrared, laser coupling >95%
Laser Light	Power: 2 W, wave length: 810 nm, illumination angle: 2-17°, uniform light, nitrogen-filled
MECHANICAL (Pan-Tilt-Zoom Head)	
Field-of-Regard	360° Pan; +/- 90° Tilt



- 2000 Feet Day Light and 1300 Feet Night Mode
- 18x Optical 4x Digital
- Independently Zoom IR Laser From PTZ
- Subject Identification/Sees Thru Glass
- 1.3 Megapixel High Definition
- IP66
- Stealth Illumination (optional)
- Significant Savings Over Thermal

AVAILABLE MODELS

Part number	Description
CAM-LTZ-400MP	18x 1.3 Megapixel IP PTZ With Patent Pending Long Range Laser Infrared Illumination Technology. 1300 feet Day/1300 feet Night

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CAM-LTZ-400MP

Rev: 030211

Pan/Tilt Rate of Speed	1.5~40°/s Pan, 1.2~60°/s Tilt
Position Accuracy	1 mrad
SYSTEM FEATURES	
Remote Control	RS-485
Automatic Heater	Built-In
Programmable Search	Pelco D pan/tilt/zoom controls/128 presets/6 paths
Pelco D Compliance	Full commands
INTERFACES	
Network Protocol	TCP/IP, ARP, ICMP, FTP, RTP/RTCP, NTP, DNS, DDNS, SNMP, PPPoE, RTSP
Network interface	1×10 Base-T/100 Base-TX, RJ45 interface
Standard Equipment	Hot Shoe with 6 m cable, break-out cable to standard connector, lab power supply, user interface, Operator Manual
ENVIRONMENTAL	
Operating Temperature	-13°F~131°F (-25°C~55°C)
Storage Temperature	-40°F~149°F (-40°C~ 65°C)
Automatic Window Defrost	Yes
MIL-Std 810E	Rain, sand/dust, shock, vibration
Operating Humidity	Up to 90%
Ingress Protection Rating (IEC 60529)	IP66
Weatherproof	Yes
Impact Resistance	4 G
Other	Anti salt fog, spraying 48 hours under PH6.5-7.2
ELECTRICAL	
Input Voltage	24 VDC
Current Draw	2.5 A
Power Consumption	60 Watts
PHYSICAL	
Weight	14.3 lb (6.5 kg)
Dimensions (W x H x D)	18.1 x 18.9 x 13 in (460 x 480 x 330 mm)
Housing Material	Shell: Precision aluminum alloy, Glass: optical microlite, Coating: anti-reflective film
Housing Color	Beige
Camera Mounting	4-hole pattern, diameter 0.354 in (9 mm)
REGULATORY	
Regulatory Type	CE, FCC, UL
Warranty (Effective Jan 1, 2009)	
1 Year	