

Thermal Imaging Intelligent Camera Series



Security Solutions by Design






The Aventura TI-Series Thermal Imaging camera provides the ability to detect threats even in zero-visibility conditions. With thermal imaging, the camera has the ability to detect minute heat signatures at enormous ranges in complete darkness and even through smoke or fog. Paired with Aventura's video content analytics and C4 Management Platform this provides the ultimate enterprise perimeter surveillance solution.

Features

- Visibility in Complete Darkness
- Visibility through Fog, Smoke, & Dust
- Threat Detection in Excess of 2km
- Wide Dynamic Range Thermal Imagery
- Standalone or Network Control
- Auto-Tracking
- High-Speed Pan/Tilt/Zoom
- Rangefinder/GPS/Compass
- On-board Recording & Analytics
- Satellite/Cellular/Wireless
- Solar & Wind Power
- Rapidly Deployable

Aventura Thermal Imaging Intelligent Camera Systems

MODEL	CAM-TI Series	CAM-TIVL Series	CAM-TIVL-MP Series																																												
PHOTO																																															
THERMAL CAMERA																																															
Style	Standalone Thermal Imaging Camera	Thermal Imaging / Visible-Light Camera	Thermal Imaging / Visible-Light IP Camera																																												
Sensor Type	320x200 or 640x480 pixel resolution 4th Generation uncooled VOx FPA detector High Sensitivity NETD ≤ 35mk	320x200 or 640x480 pixel resolution 4th Generation uncooled VOx FPA detector High Sensitivity NETD ≤ 35mk	640x480 pixel resolution 4th Generation uncooled VOx FPA detector High Sensitivity NETD ≤ 35mk																																												
Image Processing	Digital Detail Enhancement (DDE) Automatic Gain Control (AGC)	Digital Detail Enhancement (DDE) Automatic Gain Control (AGC)	Digital Detail Enhancement (DDE) Automatic Gain Control (AGC)																																												
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VISIBLE-LIGHT CAMERA																																															
Imager	-	1/4" Ex-View super CCD (~440,000 pixels)	1/3" Progressive Scan CCD (1.3 Megapixel)																																												
Field-of-View	-	57.8° ~ 1.7°	48° ~ 2.8°																																												
MECHANICAL																																															
Pan/Tilt Functionality	Optional	Integrated	Integrated																																												
Field-of-Regard	355° pan, +6° ~ -90° tilt	360° pan, +/- 90° tilt	360° pan, +/- 90° tilt																																												
Pan/Tilt Rate of Speed	7.5°/s pan, 6°/s tilt	1.5 ~ 40°/s pan, 1.2 ~ 60°/s tilt	1.5 ~ 40°/s pan, 1.2 ~ 60°/s tilt																																												
Position Accuracy	1 mrad	1 mrad	1 mrad																																												
SYSTEM FEATURES																																															
Remote Control	RS-485 (RS-232 optional)	RS-485 (RS-232 optional)	TCP/IP																																												
Programmable Search	Yes	Yes	Yes																																												
Protocol	Selected Pelco D Commands	Selected Pelco D Commands	Selected Pelco D Commands																																												
IMAGE PRESENTATION																																															
Video Format	NTSC or PAL composite video	NTSC or PAL composite video	H.264 compression, 64Kbps~4Mbps																																												
Connectors	Mil	Mil	Mil																																												
POWER																																															
Input Voltage	24VAC	24VAC	24VAC																																												
Power Consumption	36W peak @ startup, <8 W nominal @ 77°F	<30 W nominal @ 77°F	<30 W nominal @ 77°F																																												
ENVIRONMENTAL																																															
Operating Temperature	-13°F~-131°F (-25°C~55°C)	-13°F~-131°F (-25°C~55°C)	-13°F~-131°F (-25°C~55°C)																																												
Storage Temperature	-40°F~-149°F (-40°C~ 65°C)	-40°F~-149°F (-40°C~ 65°C)	-40°F~-149°F (-40°C~ 65°C)																																												
MIL-STD 810E	Rain, Sand/Dust, Shock, Vibration	Rain, Sand/Dust, Shock, Vibration	Rain, Sand/Dust, Shock, Vibration																																												
Ingress Protection (IEC 60529)	IP66 Weatherproof	IP66 Weatherproof	IP66 Weatherproof																																												
PHYSICAL																																															
Weight	9.9 lb (4.5 kg)	14.3 lb (6500 g)	14.3 lb (6500 g)																																												
Dimensions (W x H x D)	13 x 6.8 x 6.3 in (330 x 172 x 160mm)	14.6 x 9.6 x 8.6 in (372 x 243 x 218 mm)	14.6 x 9.6 x 8.6 in (372 x 243 x 218 mm)																																												
Standard Equipment	Hot Shoe with 6 m cable, break-out cable to standard connector, lab power supply, user interface, Operator Manual	Hot Shoe with 6 m cable, break-out cable to standard connector, lab power supply, user interface, operator manual	Hot Shoe with 6 m cable, break-out cable to standard connector, lab power supply, user interface, Operator Manual																																												
REGULATORY & WARRANTY																																															
Regulatory Type	CE, FCC, UL	CE, FCC, UL	CE, FCC, UL																																												
Warranty	1 Year	1 Year	1 Year																																												

Standard Features (Models with Motorized Pan & Tilt only)	
Auto-Tracking	Track, follow, and record moving objects in the camera's field of view without operator interaction
Video Analytics	Automatic object detection, object classification, object count, tripwire, wrong direction monitoring, speed detection and more.
IP Encoders	Converts camera to transmit video across a local area network
Image Stabilization	Corrects for minor camera movement due to vibration or sway
Built-in Recording	On-board DVR for portable or remote camera installations
Options and Accessories	
Laser Range-Finder	Reports distance between camera and observed objects
Gyroscope	Reports relative direction and angle camera is facing
Compass	Reports absolute direction camera is facing
GPS	Reports physical location of camera (for use with mobile applications)
Wireless	Converts camera to transmit video wirelessly
Wind / Solar	Power camera with wind or solar energy
Tripod	Portable mounting options
Carrying Case	For safe transport of camera
Keyboard Controller	Pan-Tilt-Zoom controller with 3d joystick
Rapid Deployment Kit	Portable command and control for Aventura Intelligent Camera Systems