



CAM-TIVL

36x Pan, Tilt, Zoom Visible-Light / Thermal Imaging Security Camera

Aventura's TIVL-Series of cameras offer superior quality thermal imaging at affordable prices. The dual-head, multi-sensor cameras feature a rugged design meant to withstand extreme environments and rotate at a rapid 360° per second. A 36x Wide Dynamic Range optical zoom with image stabilization is placed alongside a thermal camera head utilizing the latest thermal imaging technologies. TIVL cameras can detect and analyze threats at over 6 km and auto-track objects. Standard thermal configurations feature electronic zooms and communicate RS-232 and RS422 with support for Pelco D protocol.

SPECIFICATIONS

CAMERA	
Style	Thermal imaging PTZ camera
Signal System	NTSC/PAL
F-stop	F1.0
Focus	Automatic
THERMAL CAMERA SPECS	
Array Format	320 x 240 or 640 x 480
Detector Type	Fourth generation of uncooled focal array VOx microbolometer
Spectral Range	7.5 - 13.5 μ m
Lens	6 mm to 250 mm F1.0 GE lens
Field of View	61° x 46° to 1.4° x 1.1°
Min. Illumination (day)	Color (day) 0.1 lux f1.4
Min. Illumination (night)	B/W (night) 0 lux f1.4
Max. Detection Range	Vehicles: 11.9 mi (19.8 km), People: 7.2 mi (12 km)
Electronic Zoom	2x
Image Processing	Digital Detail Enhancement (DDE); Automatic Gain Control (AGC)
Noise Equivalent Temperature Difference	50 mK
VISIBLE-LIGHT CAMERA PROCESSOR	
Resolution	768 x 575 pixel
Image Sensor	1/4" Ex-View super CCD
Lens	f=3.4~122.4mm, F1.6~F4.5;
Field of View	1.7° ~ 57.8°
Field of View Range	50° (h) to 1.4° (h) at f3.8
Min. Illumination	Color 0.1 lux f1.6
Electronic Zoom	12x
Optical Zoom	36x Wide Dynamic Range with image stabilization
PTZ FEATURES	
Field-of-Regard	360° pan; +/- 90° tilt
Pan/Tilt Rate of Speed	1.5 ~ 40°/s pan, 1.2 ~ 60°/s tilt
Position Accuracy	1 mrad
Built-In Protocols	Pelco-D, Pelco-P
Image Stabilization	Yes
Privacy Mask	Up to 6
Alarm	- - -
Pattern Tour	1 with PTZ function
Presets	80
ID	0-255
Password Protection	Yes
Baud Rate	2400/4800/9600/19200 bps
Heater & Blower	Yes
INTERFACES	
TCP/IP	Optional
RS-232	Command and control
RS-422	Optional; Command and control
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%



- Visibility in pitch darkness, fog, smoke, dust
- Threat detection in excess of 2km
- Standalone or Network Control
- Auto-Tracking
- High-Speed PTZ
- Rugged Construction
- Wide-Dynamic-Range/Thermal Imagery

AVAILABLE MODELS

Part number	Description
CAM-TIVL-3033	36x Pan, Tilt, Zoom Visible-Light / Thermal Security Camera with 33 mm Lens and 320 x 240 Sensor
CAM-TIVL-3050	36x Pan, Tilt, Zoom Visible-Light / Thermal Security Camera with 50 mm Lens and 320 x 240 Sensor
CAM-TIVL-320X100	36x Pan, Tilt, Zoom Visible-Light / Thermal Security Camera with 20~100 mm Lens and 320 x 240 Sensor
CAM-TIVL-6033	36x Pan, Tilt, Zoom Visible-Light / Thermal Security Camera with 33 mm Lens and 640 x 480 Sensor
CAM-TIVL-6050	36x Pan, Tilt, Zoom Visible-Light / Thermal Security Camera with 50 mm Lens and 640 x 480 Sensor
CAM-TIVL-620X100	36x Pan, Tilt, Zoom Visible-Light / Thermal Security Camera with 20~100 mm Lens and 640 x 480 Sensor

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CAM-TIVL

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Page 1 of 2

Ingress Protection Rating (IEC 60529)	IP66
Weatherproof	Yes
ELECTRICAL	
Video Out	Composite signal 1.0Vp-p/75ohm
Signal Connector	Special navigation outlet
Input Voltage	24 VDC
Current Draw	1250 mA
Power Consumption	<30 W nominal @ 77°F
PHYSICAL	
Weight	14.3 lb (6500 g)
Dimensions (W x H x D)	14.6 x 9.6 x 8.6 in (372 x 243 x 218 mm)
Housing Material	Zinc
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)	
3 Years	