

Visible-Light / Thermal IP Security Camera

- Network-Ready Dual-Head IP Camera
- 1.3 megapixel Visible-Light Camera
- Visibility in pitch darkness, fog, smoke, dust
- Threat detection in excess of 2km
- Standalone or Network Control
- High-Speed PTZ
- Wide-Dynamic-Range/Thermal Imagery



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 18x 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	f = 4.7 mm (wide) to 84.6 mm (tele), F1.6 to F2.8
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	
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	\geq 50 dB
Electronic Shutter	1/50 to 1/10,000 s, 16 steps
Wide Dynamic Range	On/Off
Backlight Compensation	On/Off
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%
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

3 Years