



# CAM-TIVL-MP

36x PTZ 1.3 megapixel Visible-Light / 640 x 480 Thermal IP 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 $\mu$ 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          |  |
| 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   |
| 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 |

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- 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

## AVAILABLE MODELS

| Part number         | Description  |
|---------------------|--|
| CAM-TIVL-MP-6033    | 36x PTZ 1.3 megapixel Visible-Light / 640 x 480 Thermal IP Security Camera with 33 mm Lens     |
| CAM-TIVL-MP-6050    | 36x PTZ 1.3 megapixel Visible-Light / 640 x 480 Thermal IP Security Camera with 50 mm Lens     |
| CAM-TIVL-MP-620X100 | 36x PTZ 1.3 megapixel Visible-Light / 640 x 480 Thermal IP Security Camera with 20-100 mm Lens |

manual

| <b>ENVIRONMENTAL</b>                    |  |
|---|--|
| 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                                      |
| <b>ELECTRICAL</b>                       |  |
| 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                     |
| <b>PHYSICAL</b>                         |  |
| 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) |
| <b>REGULATORY</b>                       |  |
| Regulatory Type                         | CE, FCC, UL                              |
| <b>Warranty (Effective Jan 1, 2009)</b> |  |
| 3 Years                                 |  |