

AV8180

8 Megapixel 180° IP camera sensitive to 1 lux @ F2.0 Panoramic camera with four 2 Megapixel imagers

The AV8180 camera is based on SurroundVideo® technology and offers panoramic views and cinema compatible high frame rates to allow real time high definition digital video surveillance with 24 times the resolution of the best analogue surveillance cameras.

Features:

GREAT HIGH RESOLUTION & FULL MOTION

AV8180 network camera delivers full motion progressive scan 1600 x 1200 video at 22 fps per channel featuring massively-parallel MegaVideoR image processing architecture capable of sustaining over 6 billion operations per second.

GREAT COST EFFICIENCY

High resolution and crystal clear imagery allows the AV8180 to substitute up to 24 analogue cameras; thereby reducing the total cost of installation. No need to supply a separate power source since the power can be drawn from a low cost Power-over-Ethernet switch.

GREAT FORENSIC ZOOMING

AV8180 surveillance system has the ability to zoom after the event from high resolutions digital archives and the simultaneous viewing of zoomed and full field of view images.

EXCELLENT MOTION DETECTION

Onboard real-time motion detection with size and sensitivity controls for up to 64 separate motion detection zones per channel.



AV8180 Camera Specification

Imaging

- Four 2 Megapixel CMOS Image Sensors
- 1600 (H) x 1200 (V) pixel array each sensor
- ½ " optical format
- 4.2 µm pixel pitch
- Bayer mosaic RGB filter
- Sensitivity 1 lux @ F2.0
- Dynamic Range 60 dB
- Maximum SNR 45 dB

Data Transmission

- Data Rate up to 55Mbps
- Video Frame Rate (all 4 channels in parallel):
- 88 fps @ 800 x 600
- 22 fps @ 1600 x 1200
- Motion JPEG with 21 levels of quality
- TFTP and HTTP Transmission Protocol
- 100Base-T Ethernet Network Interface

Programmability

- Auto Exposure (AE) and Gain Control (AGC) >120 dB
- Auto Backlight Compensation
- Auto Multi-Matrix White Balance
- 50/60Hz selectable Flicker Control
- Electronic Zoom, Pan & Tilt (PTZ)
- Electronic Image Rotation—up-side down image turn (mirror)
- Resolution windowing down to 32 x 32 pixels window
- Programmable Motion Blurring Control for Low-Light Mode
- Programmable Resolution, Brightness, Saturation, Gamma, Sharpness, Tint
- Picture-in-Picture: Simultaneous delivery of full field of view and zoomed images
- On-Camera Motion Detection with 64 detection zones per channel



Electrical

- Power over Ethernet (POE) or DC Input
- Compatible with IEEE 802.3af POE equipment
- 9V—12VDC (2.1mm x 5.5mm, centre positive)
- Power Consumption 8 Watts maximum

Regulatory Approvals

- FCC Part15, Class A
- CE compliant

Mechanical

- 4lb or 1800 grams
- M12 x 0.5 Lens Mount

Environmental

- Operating Temperature 0°C to +50°C
- Storage Temperature -20°C to +60°C
- Humidity 0% to 90% (non condensing)

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