

CAM4365 Megapixel Color Camera

Bid-Spec

1.0 Description

CAM4365 is a professional IP network camera utilizing Internet Protocol (IP) to transmit video streams and control signals over networks. Capable of operating over both LANs and WANs, CAM4365 provides a complete budget-conscious remote surveillance solution that is ultra clear and highly integrated. The CAM4365 combines a user-friendly interface and simplified installation with a powerful feature set, including Motion Detection and Tampering Detection to provide users an easy upgrade path to new digital surveillance system in a virtual environment. These highlights make CAM4365 an ideal choice for environments that require remote surveillance or video transmission.

2.0 Bid Specification

- The camera shall utilize a high sensitivity 3 Megapixel SONY CMOS sensor with 1/2.8" optical format
- The camera shall have 3 - 10 mm motorized lens, with maximum aperture of F1.3, supporting autofocus.
- The camera shall have WDR capabilities
- The camera shall have Day/Night ICR capabilities
- The camera shall have Built-in IR illumination, effective up to 25m
- The camera shall have a dome enclosure
- The camera shall be IP66 compliant
- The camera shall be H.264 (MPEG4,Part 10) compliant
- The camera shall have triple standard compression support with simultaneous streaming of H.264, MPEG-4, and MJPEG formats
- The camera shall have multi-streaming support of up to 2 non-identical concurrent streams (different frame rate, bit rate, resolution, quality, and compression format)
- The camera shall have bit rate control for full view, multi view, and archiving
- The camera's bit rate control shall be selectable from 32 Kbps to 10 Mbps for each independent stream
- The camera shall have Real Time Streaming Protocol (RTSP) support allowing for compatibility with media players such as RealPlayer, Apple QuickTime, VLC Player and others
- The cameras H.264 implementation shall maintain full real time video frame rates
- It shall be possible to program the camera to output a variety of lower resolution images. For example 1920(H) x 1080 (V) pixels at 30fps, 1280(H) x 720(V)

- pixels at 30 FPS, or 640(H) x 480(V) pixels at 30 FPS.
- The camera shall be equipped with a 100 Mbps LAN connector
 - The camera shall support a minimum HTTP, and RTSP/RTP network protocols
 - The cameras shall feature precision motion detection with a minimum of 3 detection zones
 - The camera shall feature automatic exposure, automatic white balance, shutter speed control, programmable brightness, saturation, contrast, instantaneous digital zoom, and electronic image mirror and flip
 - The camera shall support a minimum illumination of 0 lux.
 - The camera's primary power source shall be Power over Ethernet (PoE) complying with the IEEE 802.3af standard or 12V DC power supply.
 - The camera's operating ambient temperature shall be : -20°C~ 50°C (-4°F~122°F) warm start conditions
 - The camera shall be FCC Part 15, Class A and CE compliant
 - The camera shall have total unit dimensions of ø144mm x 116mm(H) ø5.67" x 4.57"(H)
 - The camera shall have a total unit weight of: Net: 1260g (2.78 lb)

Quick-Spec

3.0 Minimum Performance Specification

Megapixel camera must meet the following operating requirements

Imaging

- 3 megapixel CMOS image sensor
- 2048x1536 pixel array
- 1/2.8" optical format
- Bayer mosaic RGB filter
- Minimum illumination of: 0 Lux (IR Illuminators on)

Full Field of View (FOV) Resolutions

- 2048x1536 3 MP

Cropped Field of View Resolutions

- 1920x1080 HDTV-1080p
- 1280x1024 SXGA
- 1280x720 HDTV-720p
- 640x480 VGA
- 320x240 SIF

Data Transmission

- Data rate
 - bit rate control available for full view, multi view, and archive
 - bit rate control from 32 Kbps to 10 Mbps
 - Video frame rate up to 15fps @ 2048x1536
- Compression type
 - H.264 (MPEG4, Part 10)
 - Motion JPEG
 - MPEG-4
- HTTP, RTSP image transmission protocols
- 100Base-T Ethernet Network Interface

Programmability

- Auto Exposure (AE), Auto Focus, and Gain Control (AGC)
- Programmable backlight compensation
- Auto white balance
- Electronic image flip - 180 degree rotation
- Programmable shutter speed to help control motion blur
- Proprietary noise cancellation
- Programmable resolution, brightness, saturation, contrast
- Bandwidth & storage savings by running at 1/4 resolution

Electrical

- Power over Ethernet (PoE): PoE 802.3af
- DC input: auxiliary 12V DC
- Power consumption 9 Watts maximum without heater, 24W with heater

Regulatory Approvals

- FCC, Class A
- CE and RoHS compliant

Environmental

- Operating temperature: -20°C ~ 50°C (-4°F ~ 122°F)
- Storage temperature Storage: -30 ~ 60 °C (-22 ~ 140°F)
- Humidity 5% to 95% (non condensing)

Mechanical

- Die-cast aluminum chassis
- Total unit dimensions: ø144mm x 116mm(H) ø5.67" x 4.57"(H)
- 1260g (2.78 lb)

Lens

- 3 - 10 mm motorized lens, F1.4

Related Documentation

- CAM4365 Network Camera User Manual
- Network Camera SDK HTTP/RTSP, ActiveX and DLL control editions
- CAM4365 Network Camera Hardware Manual

4.0 Model Numbers

The camera shall be Surveon model CAM4365, 3 megapixel network camera

5.0 Warranty

Minimum 3 Year parts and labor