

AV8185/AV8365

8 Megapixel H.264 180° or 360° Panoramic SurroundVideo® IP camera

Arecont Vision
megapixel technology...
beyond imagination

AV8185CO 180° Panoramic Color
AV8185DN 180° Panoramic Day/Night
AV8365CO 360° Panoramic Color
AV8365DN 360° Panoramic Day/Night

AV8185CO-HB 180° Panoramic Color with Heater & Blower
AV8185DN-HB 180° Panoramic Day/Night with Heater & Blower
AV8365CO-HB 360° Panoramic Color with Heater & Blower
AV8365DN-HB 360° Panoramic Day/Night with Heater & Blower



Arecont Vision Advantages:

- All-in-one H.264 SurroundVideo® Solution
- Color and Day/Night Options
- IP66 and Vandal resistant Dome, IK-10 Rated
- Easily adjustable 2-axis camera gimbal with 360° pan and 90° tilt
- Hard ceiling mount and Surface mount with optional pendant mount, wall mount, etc.
- +/- 5° Electrical Vertical Alignment to Locate Each Sensor Position (AV8185 Series)
- +/- 10° Mechanical tilt Adjustment to Locate Each Sensor Angle (AV8365 Series)
- Binned Mode to Increase Sensitivity
- Dual Encoder H.264/MJPEG
- Bit Rate Control
- Privacy Mask
- Multi-Streaming
- Forensic Zooming
- Reduced Overall System Cost
- True Day/Night Functionality with removeable IR Cut Filter

Specification sheets subject to change without notice



World's **First** 8MP H.264 180° and 360°
Panoramic Megapixel Cameras

The **Fastest** MegaPixel
Image Rates on the Market: **6fps @ 8MP**

Unparalleled High Definition
Resolution Substitute up to
twenty-four Analog Cameras

Model Numbers:

AV8185CO	180° Panoramic Color
AV8185DN	180° Panoramic Day/Night
AV8365CO	360° Panoramic Color
AV8365DN	360° Panoramic Day/Night
AV8185CO-HB	180° Panoramic Color w/ Heater & Blower
AV8185DN-HB	180° Panoramic Day/Night w/ Heater & Blower
AV8365CO-HB	360° Panoramic Color w/ Heater & Blower
AV8365DN-HB	360° Panoramic Day/Night w/ Heater & Blower

Imaging

- Four 2 megapixel CMOS image sensors
- 1600(H) x 1200(V) pixel array each sensor
- 1/2" optical format
- 4.2 μ m pixel pitch
- Progressive Scan
- Minimum illumination of:
 - Color(non-binned): 0.1 Lux @ F1.8
 - Day/Night: 0 Lux, IR sensitive (D/N Version only)
- Dynamic range 61 dB
- Maximum SNR 50 dB

Full Field of View (FOV) Resolution

- 6400(H) x 1200(V)=1600(H) x 4 x 1200 (V)
8 megapixel total
- 3200(H) x 600(V)=800(H) x 4 x 600(V)
2 megapixel total (1/4 Resolution)

Data Transmission

- Video frame rate up to:
 - 6fps @ 6400x1200
 - 20fps @ 3200x600
 - 22fps @ 1600x1200
- Compression type:
 - H.264 (MPEG4, Part 10)
 - Motion JPEG
 - 21 levels of quality
- Support Protocols:
 - TFTP, HTTP, RTSP, RTP/TCP, RTP/UDP
- 100Base-T Ethernet Network Interface
- Data rate: bit rate control from 100Kbps to 10Mbps
- Multi-streaming: 8 non-identical streams

Programmability

- +/- 5° Electrical Vertical Alignment to adjust sensors (AV8185)
- Binned Mode
- Privacy Mask
- Flexible Cropping
- Shutter Speed = 1ms - 500ms
- Auto Exposure (AE) and Gain Control (AGC) >120dB
- On-camera real-time motion detection with 1024 detection zones
- Auto backlight compensation
- Auto multi-matrix white balance
- 50/60Hz selectable flicker control
- Electronic pan, tilt, zoom (PTZ)
- Electronic image flip - 180 degree rotation
- Resolution windowing down to 1x1 pixel for JPEG and 2x2 pixels for H.264
- Programmable shutter speed to help control motion blur
- MoonLight™ mode - extended exposure and proprietary noise cancellation
- Programmable resolution, brightness, saturation, gamma, sharpness, tint
- Picture-in-Picture: simultaneous delivery of full field of view and zoomed images
- Bandwidth & storage savings by running at 1/4 resolution

Compliance Information

- Compliance:
 - Class A FCC, Part 15; EN55022 Class A, EN55024, EN6100-3-2, EN6100-3-3, EN60950-1 RoHS, REACH, IK-10 (EN62262), IP66 (EN60529)
- Marks: cULus, CE Mark

Electrical

- General purpose opto-coupled input and output
- Power over Ethernet (PoE): PoE 802.3af for camera
- Auxiliary power 12-48V DC, 24V AC
- Power consumption: 9 watts maximum

Mechanical

- Casing:
 - Die-cast aluminum chassis with 5.5" vandal resistant polycarbonate dome bubble, IK-10 rated
 - Conduit 3/4" NPT standard
- +/- 10° tilt adjustment to locate sensor angle (AV8365)
- Easily adjustable 2-axis camera gimbal with 360° pan and 90° tilt
- Hard ceiling mount and surface mount embedded
- Total Unit dimensions:
 - \varnothing 6.9 x 6.55 in (H), bubble only: \varnothing 5.5 x 3.4 in (H)
 - \varnothing 175 x 166 mm (H), bubble only: \varnothing 140 x 87 mm (H)
 - 3.81 lbs (1.75 kg)

Heater & Blower Electrical

- Voltage Input: 12V to 20V DC/24VAC (separate power required)
- Power Output: 11W Max (DC12V); 13W Max (AC24V)
- Heater Switch: On: 17C° (62.6 °F), Off: 30 °C (86 °F)
- Blower Switch: On: 10C° (50°F), Off: 15 °C (59 °F)
- Blower Switch: On: 50C° (122 °F), Off: 45 °C (113°F)

Environmental

- IP66 weatherproofing standard
- Operating temperature:
 - No Heater: 0°C (32 °F) to +55°C (131 °F)
 - With Heater: -30°C (-22 °F) to +55°C (131°F)
- Stable image temperature: 0°C (32 °F) to +50°C (122 °F)
- Storage temperature: -30 °C (-22 °F) to 60 °C (140 °F)
- Humidity 0% to 90% (non condensing)

Accessories:

- SV-WMT - Wall Mount (Fit 1.5NPT)
- SV-CMT - Ceiling Mount (Fit 1.5NPT)
- SV-FMA - Flush Mount Adapter
- SV-JBA - Junction Box Adapter
- SV-EBA - Electrical Box Adapter
- MD-PMA - Pole Mount Adapter
- MD-CRMA - Corner Mount Adapter

Optics:

- AV8365
4mm, F1.8, HFOV=96°
- AV8185
8mm, F1.8, HFOV=47°

