

AV20185/AV20365

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

Arecont Vision
megapixel technology...
beyond imagination

AV20185CO 180° Panoramic Color
AV20185DN 180° Panoramic Day/Night
AV20365CO 360° Panoramic Color
AV20365DN 360° Panoramic Day/Night

AV20185CO-HB 180° Panoramic Color with Heater & Blower
AV20185DN-HB 180° Panoramic Day/Night with Heater & Blower
AV20365CO-HB 360° Panoramic Color with Heater & Blower
AV20365DN-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, IK6 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 (AV20185)
- +/- 10° Mechanical tilt Adjustment to Locate Each Sensor Angle (AV20365)
- Binned Mode to Increase Sensitivity
- Dual Encoder H.264/MJPEG
- Bit Rate Control
- Privacy Mask
- Multi-Streaming
- Forensic Zooming
- Reduced Overall System Cost

World's **First** 20MP H.264 180° and 360° Panoramic Megapixel Cameras

The **Fastest** MegaPixel Image Rates on the Market: **3.5fps @ 20MP and 11fps @ 5MP**

Unparalleled High Definition Resolution to Compared to **Sixteen 1.3MP** Cameras



Specification sheets subject to change without notice

Model Numbers:

- AV20185CO** 180° Panoramic Color
- AV20185DN** 180° Panoramic Day/Night
- AV20365CO** 360° Panoramic Color
- AV20365DN** 360° Panoramic Day/Night
- AV20185CO-HB** 180° Panoramic Color w/ Heater & Blower
- AV20185DN-HB** 180° Panoramic Day/Night w/ Heater & Blower
- AV20365CO-HB** 360° Panoramic Color w/ Heater & Blower
- AV20365DN-HB** 360° Panoramic Day/Night w/ Heater & Blower

Imaging

- Four 5 megapixel CMOS image sensors
- 2592(H) x 1944(V) pixel array each sensor
- 1/2.5" optical format
- 2.2 μm pixel pitch
- Bayer mosaic RGB filter
- Minimum illumination of:
 - Color(non-binned): 0.3 Lux @ F1.8
 - Color(binned): 0.15 Lux @ F1.8
 - Day/Night: 0 Lux, IR sensitive (D/N Version only)
- Dynamic range 70.1 dB
- Maximum SNR 44.1 dB

Full Field of View (FOV) Resolution

- 10240(H) x1920(V)=2560(H) x 4 x 1920 (V)
20 megapixel total
- 5120(H) x960(V)=1280(H) x 4 x 960(V)
5 megapixel total (1/4 Resolution)

Data Transmission

- Video frame rate up to: Video frame in binned mode:
- 3.5 fps @ 10240x1920 • 13 fps @ 5120x960
 - 4.2 fps @ 10240x1600 • 27 fps @ 1280x960
 - 11 fps @ 5120x960
 - 11 fps @ 2560x1920
 - 11 fps @ 2560x1600
- Compression type:
- H.264 (MPEG4, Part 10)
 - Motion JPEG
 - 21 levels of quality
- Support Protocols:
- TFTP, HTTP, RTSP, RTP over TCP, RTP over UDP
- 100Base-T Ethernet Network Interface
- Data rate:
- bit rate control from 100Kbps to 10Mbps
 - unthrottled data rate up to 50Mbps
- Multi-streaming: 8 non-identical streams

Programmability

- +/- 5 ° Electrical Vertical Alignment to adjust sensors (AV20185)
- Binned Mode
- Privacy mask
- 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

Regulatory Approvals/Listings

- FCC, CE, RoHS, UL

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

- +/- 10 ° tilt adjustment to locate sensor angle (AV20365)
- Easily adjustable 2-axis camera gimbal with 360° pan and 90° tilt
- Hard ceiling mount and surface mount embedded
- Die-cast aluminum chassis with 5.5" vandal resistant polycarbonate dome bubble
- Conduit 3/4" NPT standard
- Total Unit dimensions:
 - Ø6.9 x 6.55 in (H), bubble only: Ø5.5 x 3.4 in (H)
 - Ø175 x 166 mm (H), bubble only: Ø140 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, IK6 Rated
- Operating temperature:
 - No Heater: 0°C (32 °F) to +60°C (140 °F)
 - With Heater: -30°C (-22 °F) to +60°C (140 °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 1.5 NPT)
- SV-CMT - Ceiling Mount (Fit 1.5 NPT)
- SV-FMA - Flush Mount Adapter
- MD-PMA - Pole Mount Adapter
- MD-CRMA - Corner Mount Adapter
- MV-EBA - Electrical Box Adapter
- SV-JBA - Junction Box Adapter
- SV-EBA - Electrical Box Adapter

Optics:

- AV20365
3.5mm, F1.8, HFOV=96°
- AV20185
6.2mm, F1.8, HFOV=47°

