AV3155

3 Megapixel H.264 IP MegaDome™ Camera

AV3155 (Color)	AV3155-1HK	AV3155DN (Day/Night)	AV3155DN-1HK
AV3155-16 (Color)	AV3155-16HK	AV3155DN-16 (Day/Night)	AV3155DN-16HK

Arecont Vision
megapixel technology...
beyond imagination

MegaDome™ Series

Arecont Vision Advantages:

All-in-one H.264 MegaDome™ Solution
- Integrated megapixel camera, IR corrected lens (AVxx55: 4.5-10mm lens; AVxx55-16: 8-16mm lens), and IP66 dome housing
- Vandal resistant aluminum chassis with 4″ polycarbonate dome bubble
- Easily adjustable 3-axis camera gimbal with 360° pan, 90° tilt and 360° z-axis
- Available in 1.3, 2, 3, and 5 MP sensor configurations with color only or Day/Night versions
- Supports both H.264 and MJPEG at full resolutions and full frame rates
- Heater kit versions for cold climate environments
- Surface mount with optional pendant mount, wall mount, pole mount, corner mount or electrical box adapter
- IP66 weatherproofing standard

H.264 (MPEG4 Part 10) Compression Standard
- Simultaneous support of both H.264 and MJPEG
- 10x average bandwidth and storage reduction over MJPEG

Multi-Streaming
- Up to 8 concurrent non-identical streams with different frame rates, bit rates, resolutions and picture quality

Bit Rate Control
- Maintain desired bandwidth and storage size

Real Time Streaming Protocol (RTSP)
- Allows for compatibility with media players such as Apple QuickTime, Windows Media Player, VLC Player, etc.

Superior Low Light Performance
- 1/2″ CMOS Sensor

Unparalleled High Definition Resolution - 2048 x 1536
- Ten times the resolution of IP VGA or analog cameras

Fastest MegaPixel Image Rates
- Up to 15fps in 3 megapixel mode

Forensic Zooming
- Zoom live or after-event while recording full field of view in HD … replace PTZ devices

Reduced Overall System Cost
- Less cameras to install, less wiring, no external power (POE), less NVR licensing fees

Full or 1/4 Resolution
- Can be used for either live viewing or archiving purposes

Other key features:
- Simultaneous full field of view and Region-of-Interest (ROI)
- Image cropping allows streaming of full density partial images
- On-camera motion detection
- Assembled 10W heater versions or separate heater module for retrofit
- Motorized IR Cut Filter (DN Version) and more

The AV3155/3155-16 MegaDome™ series network camera is part of Arecont Vision's full line of H.264 megapixel cameras. This fully compliant implementation of H.264 (MPEG 4, Part 10) provides full 2048 x 1536 megapixel resolution at full video frame rates of 15fps. The MegaDome™ camera line provides an all-in-one solution with integrated megapixel camera, lens, and vandal resistant dome enclosure. Using MegaVideo® technology, these cameras offer bandwidth and storage efficiency of up to 10X on average over traditional megapixel counterparts.

Model Numbers:

AV3155 - Color
AV3155-1HK - Color w/Heater
AV3155DN - Day/Night
AV3155DN-1HK - Day/Night w/Heater

AV3155-16 - Color
AV3155-16HK - Color w/Heater
AV3155DN-16 - Day/Night
AV3155DN-16HK - Day/Night w/Heater

Imaging

- 3 megapixel CMOS image sensor
- 2048(H) x 1536(V) pixel array
- 1/2" optical format
- 3.2 µm pixel pitch
- Bayer mosaic RGB filter
- Minimum illumination of:
  - Color: 0.2 Lux @ F1.4
  - Day/Night: 0 Lux, IR sensitive
- Dynamic range 61 dB
- Maximum SNR 49 dB

Full Field of View (FOV) Resolutions

- 2048(H)x1536(V)   3 megapixel
- 1024(H)x768(V)   1/4 resolution

Cropped Field of View Resolutions

- 1920x1200   WUXGA
- 1920x1080   HDTV-1080p
- 1600x1200   2MP
- 1280x1024   1.3MP
- 1280x720   HDTV-720p
- 1024x768   XGA
- 800x600   SVGA
- 704x570   PAL
- 704x480   NTSC
- 640x480   VGA
- 352x288   CIF
- 320x240   SIF

Data Transmission

- Video frame rate up to:
  - 15fps @ 2048x1536
  - 20fps @ 1920x1200
  - 22fps @ 1920x1080
  - 24fps @ 1600x1200
  - 32fps @ 1280x1024
- Compression type:
  - H.264 (MPEG4, Part 10)
  - Motion JPEG
  - 21 levels of quality
- TFTP, HTTP, RTSP, RTP/TCP, RTP/UDP image transmission protocols
- 100Base-T Ethernet Network Interface
- Data rate:
  - bit rate control from 100Kbps to 10Mbps
  - bit rate control available for full view, multi view, and archive
  - unthrottled data rate up to 55Mbps
- Multi-streaming: 8 non-identical streams

Programmability

- Auto Exposure (AE) and Gain Control (AGC) >120dB
- On-camera real-time motion detection with 64 detection zones
- Programmable 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 32x32 pixels window
- 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

Made in USA

Camera Electrical

- General purpose opto-coupled input and output
- Power over Ethernet (PoE): PoE 802.3af
- Auxiliary power: 12-48VDC and 24VAC
- Power consumption 5 Watts maximum

Heater Electrical

- Voltage Input: 10V to 50V DC (separate power required)
- Power Output: 10W Max
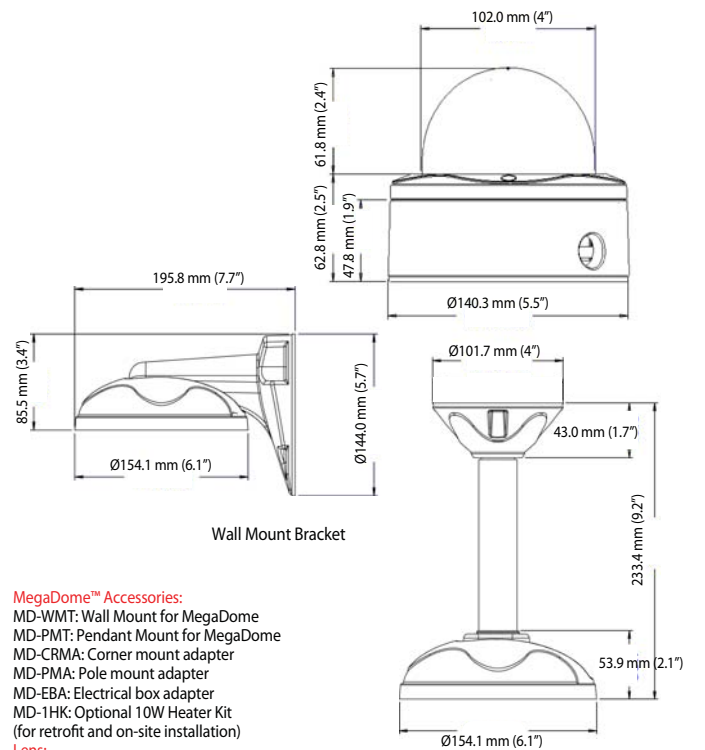- Switch: On: 17C° (62.6 °F), Off: 30 °C (86 °F)

Regulatory Approvals

- FCC, Class A
- CE and RoHs compliant

Environmental

- IP66 weatherproofing standard
- Operating temperature:
  - No heater: 0˚C (32°F) to +50˚C (122°F)
  - With heater: -30˚C (-22°F) to +50˚C (122°F)
- Storage temperature: -20˚C (-4°F) to +60˚C (140°F)
- Humidity: 0% to 90% (non condensing)

Mechanical

- Easily adjustable 3-axis camera gimbal with 360° pan, 90° tilt and 360° z-axis
- Die-cast aluminum chassis with 4" polycarbonate dome bubble
- Total Unit dimensions:
  - Ø5.5 x 4.9 in (H), bubble only: Ø4.0 x 2.4 in (H)
  - Ø140.3 x 124.6 mm (H), bubble only: Ø102 x 61.8 mm (H)
- 2.0 lbs (0.91 kg)

102.0 mm (4")
61.8 mm (2.4")
62.8 mm (2.5")
47.8 mm (1.9")
Ø140.3 mm (5.5")
195.8 mm (7.7")
85.5 mm (3.4")
Ø154.1 mm (6.1")
Ø144.0 mm (5.7")
Ø101.7 mm (4")
43.0 mm (1.7")
233.4 mm (9.2")
53.9 mm (2.1")
Ø154.1 mm (6.1")

Wall Mount Bracket

Ø - Diameter
Pendant Mount Bracket

MegaDome™ Accessories:
MD-WMT: Wall Mount for MegaDome
MD-PMT: Pendant Mount for MegaDome
MD-CRMA: Corner mount adapter
MD-PMA: Pole mount adapter
MD-EBA: Electrical box adapter
MD-1HK: Optional 10W Heater Kit
(for retrofit and on-site installation)

Lens:
Integrated 4.5-10mm IR corrected Megapixel Varifocal Lens (AVxx55 models)
Integrated 8-16mm IR corrected Megapixel Varifocal Lens (AVxx55-16 models)

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