**AV3256PM 3 Megapixel WDR H.264 Day/Night IP MegaDome® 2 Camera w/**

 **Remote Zoom, Remote Focus and P-Iris**

**AV3256PM-A 3 Megapixel WDR H.264 Day/Night IP MegaDome® 2 Camera w/**

 **Remote Zoom, Remote Focus, P-Iris and Audio**

**AV3256PMIR 3 Megapixel WDR H.264 Day/Night IP MegaDome® 2 Camera w/**

 **Remote Zoom, Remote Focus, P-Iris and IR LEDs**

**AV3256PMIR-A 3 Megapixel WDR H.264 Day/Night IP MegaDome® 2 Camera w/**

 **Remote Zoom, Remote Focus, P-Iris, IR LEDs and Audio**

**AV3256DN 3 Megapixel WDR H.264 Day/Night IP MegaDome® 2 Camera w/**

 **3.4-10.5mm Manual Lens**

This A&E specification is written according to Construction Specifications Institute (CSI) 3-Part Format, based on MasterFormat™ (2009 Edition) and The Project Resource Manual – CSI Manual of Practice. [www.csinet.org/masterformat](http://www.csinet.org/masterformat).

Manufacturer is responsible for the accuracy of the technical data included in this specification.

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**Division 28 – Electric Safety and Security**

**Section 28.23.29 – Video Surveillance – Remote Devices and Sensors**

**Part 1 General**

## 1.1 General Requirements

The camera shall be of manufacturer’s official product line, designed for continuous commercial or industrial use.

The camera shall be based on standard parts and components and utilize proven technology using open and published protocols.

All camera installation, configuration, setup, programming and all related work shall be performed by electronic technicians thoroughly trained in the installation and service of the equipment provided and in complete compliance with all local codes and regulations.

All equipment provided shall be backed by a three-year manufacturer warranty.

##  Certifications and Standards

1. European Community Directives:

2004/108/EC (EMC Directive);

2006/95/EC (Low Voltage Directive);

2011/65/EU (RoHS Directive)

 1907/2006/EC (REACH Directive)

 2002/96/EC (WEEE Directive)

1. European EMC Standards to which conformity is declared:

 EN 55022:2010 Class A

 EN 55024:2010

 EN 61000-3-2:2006+A1:2009+A2:2009

 EN61000-3-3: 2008

 EN60950-1:2006+A11:2009+A1:2010+A12:2011

 

1. UL Listing

CB Test Report (IEC 60950-1 (ed. 2) and IEC 60950-22 (ed. 1))

 

1. FCC Standard Compliance:

 Title 47, Part 15 (47 CFR 15) Subpart B Class A

1. Mechanical Standards:

ANSI/IEC 60529-2004 - IP66 dust/water Ingress protection rating

EN62262:2002 – IK-10 impact rating

1. Video Compression Technology

H.264 MPEG-4, Part 10 ISO/IEC 14496-10 AVC

1. Networking Standard:

 IEEE 802.3af-2003 PoE Standard, Class 3

 IPv4

1. Interoperability Standard

ONVIF and PSIA compliant

1. Country of Origin

FTC “Made in USA” standard compliant

## Part 2 Products

**2.1 Manufacturer**

**Arecont Vision, LLC**

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**2.2 General**

The AV3256 MegaDome® 2 series network camera is part of Arecont Vision’s full line of H.264 MegaDome® series 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 21fps. The AV3256PM camera line provides an all-in-one solution with integrated 3 megapixel WDR (wide dynamic range) camera, remote focus, remote zoom, P-iris lens, and IP66 and vandal resistant dome enclosure; the AV3256PM camera line provides an all-in-one solution with integrated 3.4-10.5mm lens.

With the features of binning mode, PSIA and ONVIF compliance, privacy masking, extended motion detection and flexible cropping, the AV3256PM is a high sensitivity, PoE (IEEE 802.3af) compliant camera with optional IR LEDs, audio and manual lens configurations. Built with Arecont Vision’s massively-parallel MegaVideo® technology, this camera offers over ten times the resolution of standard resolution IP cameras with the ability to output full real-time frame rates and deliver the high quality megapixel imaging for both indoor and outdoor applications.

**2.3 Hardware**

* The camera shall utilize a high sensitivity 3 Megapixel CMOS sensor with 1/3.2” optical format, 2.2um x 2.2um pixel size, progressive scan and Active Pixel Count: 2048(H) x 1536(V) pixel array.
* The camera shall have and integrated 3-9mm, Ф14mm Mount, megapixel IR corrected vari-focal lens with F1.2 P-Iris lens and horizontal field of view of 87°-29°.(PM Models)
* The camera shall have an integrated 3.4-10.5mm, CS mount, megapixel IR corrected vari-focal lens with 1/2.5" optical format, F1.6 and horizontal field of view of 72°-28°. (DN models)
* The camera shall have die-cast aluminum chassis with IK-10 vandal resistant dome. Entire enclosure to be rated minimum IP66 for water and dust protection.
* The camera shall have a 3-axis gimbal with 360˚ pan, 90˚ tilt and 180˚ Z-rotation for easy and accurate positioning.
* The camera shall contain an IR LED board with 24 pcs 850nm IR LEDs, 15 meter IR distance, 40° IR angle without any external power input. (IR version).

**2.4 Imaging**

* The camera shall have dual standard compression support with simultaneous streaming of both H.264 and MJPEG formats.
* The camera shall feature automatic exposure, automatic multi-matrix white balance, shutter speed control to minimize motion blur, programmable resolution, brightness, saturation, gamma, sharpness and tint.
* The camera’s shutter speed shall be 1ms - 500ms.
* The camera shall feature selectable 50/60 Hz flicker control, windowing, simultaneous delivery of full-field view and zoomed images at video frame rate, instantaneous electronic zoom, pan and tilt, and electronic image rotation by 180 degrees
* The camera shall have multi-streaming support of up to 8 non-identical concurrent streams (different frame rate, bit rate, resolution, quality, and compression format).
* The camera shall have wide dynamic range up to 100dB and a maximum SNR of 49dB.
* The camera shall have privacy masking, the ability to select multiple regions of an arbitrary shape to block the video.
* The camera shall have Real Time Streaming Protocol (RTSP) support allowing for compatibility with media players such as Apple QuickTime, VLC Player and others.
* The camera shall have Casino Mode to maintain 30fps or higher under any condition.
* The camera shall have extended motion detection grid, a higher granularity grid of 1024 distinct motion detection zones. User can select between 64 zone based motion detection and extended motion detection to provide backward compatibility with the existing Video Management System (VMS) integration.
* The camera shall feature streaming of the full field of view (FOV) and simultaneous multiple regions of interest (ROI) for forensic zooming.
* The camera shall provide 21 levels of compression quality for optimal viewing and archiving.
* The cameras H.264 implementation shall maintain full real time video frame rates.
* The camera shall output at a maximum resolution of 2048(H) x 1536(V) pixels at a maximum frame rate of 21 frames per second (FPS).
* It shall be possible to program the camera to output a variety of lower resolution images, i.e. 1920(H) x 1080(V) pixels at 30 FPS.
* It shall be possible to program the camera at binning mode to improve low light performance and output a variety of lower resolution image, i.e. 1024(H) x 768(V) pixels at 21 FPS, or 960(H) x 540(V) pixels at 31 FPS.
* The camera shall provide flexible cropping (Resolution windowing down to 1x1 pixels for JPEG and 2x2 pixels for H.264)
* The camera shall be able to save bandwidth & storage by running at 1/4 full resolution
* The camera shall have an Auto Exposure (AE), Gain Control (AGC), Bit Rate and Bandwidth Limit Control
* The camera shall feature MoonLight™ mode - extended exposure and noise cancellation
* The camera shall be able to support Picture-in-Picture: simultaneous delivery of full field of view and zoomed images

**2.5 Video**

Video frame rate (up to):

21fps @ 2048x1536

30fps @ 1920x1080

41fps @ 1280x1024

Video frame rate in binned mode (up to):

21fps (1024 x 768)

27fps (800 x 600)

31fps (960 x 540)

32fps (640 x 512)

**2.6 Protocols**

* The camera shall have Real Time Streaming Protocol (RTSP) support allowing for compatibility with media players such as Apple QuickTime, VLC Player and others.
* The camera shall support both unicast and multicast communication protocol.
* The camera shall support RTSP, RTP over TCP, RTP over UDP (Unicast/Multicast), HTTP1.0, HTTP1.1, TFTP
* 100 Base-T Ethernet Network Interface
* Multi-streaming: 8 non-identical streams

**2.7 Electrical**

General purpose opto-coupled input and output

Power over Ethernet (PoE): PoE 802.3af

Auxiliary Power 12-48V DC, 24VAC

Power consumption: PoE – Class 3;

6.6 Watts maximum for DN Model

10.1 Watts maximum for PM Model

12.1 Watts maximum for AMIR Model

**2.8 Networking**

The camera shall be equipped with a 100 Mbps LAN connector.

**2.9 Environmental**

Operating temperature :

No Heater: -20°C (-4°F) to +50°C (122°F)

With Heater: -40°C (-40°F) to +50°C (122°F)

Stable image temperature 0˚C (32 °F) to +50˚C (122 °F)

Storage temperature -40˚C (-40°F) to +60˚C (140 °F)

Humidity 0% to 90% (non-condensing)

**2.10 Minimum Illumination**

Color (Day Mode): 0.3 Lux @ F1.2

Color Binning (Day Mode): 0.15 Lux @ F1.2

B/W (Night Mode): 0 Lux, IR sensitive (IR models or with additional IR light source)



[www.megapixelvideo.com](http://www.megapixelvideo.com) info@arecontvision.com © 2005 Arecont Vision

**2.11 Packaging**

Unit Dimensions (H x Dia) 4.9”H (125 mm) x 5.5” dia. (140 mm) Weight: 2.25 lbs (1.02 kg)

Packaged Dimensions (H x W x L) 6” (150mm) x 7.5” (190mm) x 8” (200mm) Weight: 2.8 lbs (1.27kg)

**2.12 Compatible Accessories**

MD-WMT2 – Wall Mount

MD-CMT – Pendant Mount

MD-CRMA – Corner Mount Adapter

MD-PMA – Pole Mount Adapter

MD-FMA – Flush Mount Adapter

SV-EBA – Electrical Box Adapter

SV-JBA – Junction Box Adapter

**2.13 Related Documents**

AV MegaDome® 2 Datasheet

AV MegaDome® 2 Installation Manual



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