

AV2556DN-S-NL 1080P MICRODOME® G2, WDR, DAY/NIGHT, 1920X1080, 30 FPS, MJPEG/H.264, REMOTE FOCUS, SURFACE MOUNT, INDOOR/OUTDOOR, IP66, IK10, POE, 3 AXIS GIMBAL, NO 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.
Manufacturer is responsible for the accuracy of the technical data included in this specification.

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.

1.2 Certifications and Standards

- a) 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)
- b) 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



- c) FCC Standard Compliance:
 - Title 47, Part 15 (47 CFR 15) Subpart B Class A
- d) Mechanical Standards:
 - ANSI/IEC 60529-2004 - IP66 dust/water Ingress protection rating
 - ANSI/IEC 62262- IK-10 vandal resistant dome

- e) Video Compression Technology
H.264 MPEG-4, Part 10 ISO/IEC 14496-10 AVC
- f) Networking Standard:
IEEE 802.3af-2003 PoE Standard, Class 3
IPv4, IPv6
- g) Interoperability Standard
ONVIF Profile S and PSIA compliant
- h) Country of Origin
FTC “Made in USA” standard compliant
- i) UL Listing
 - a) CB Test Report (IEC 60950-1 (ed. 2) and IEC 60950-22 (ed.2))



Part 2 Products

2.1 Manufacturer

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2.2 General

The AV2556DN-S-NL MicroDome® G2 1080p WDR (wide dynamic range) series network camera (no lenses, ordered separately) is part of Arecont Vision’s full line of H.264 MicroDome® G2 cameras. This fully compliant implementation of H.264 (MPEG 4, Part 10) provides 1920x1080megapixel resolution at full video frame rates of 30 frames per second (fps). The AV2556DN-S-NL camera line provides an all-in-one solution with integrated 1080p full HD camera, mechanical true day/night IR cut filter, a remote focus module, and IK-10 vandal resistant aluminum dome enclosure with IP66 weatherproofing standard. With the features of ONVIF Profile S and PSIA compliance, auto adjustment between WDR and LDR modes, unlimited privacy mask, extended motion detection and flexible cropping, the AV2556DN-S-NL is a high sensitivity, PoE (IEEE 802.3af) compliant true Day/Night camera. Built with Arecont Vision® massively-parallel MegaVideo® processing technology, this camera offers more than 6-times the resolution of standard resolution IP cameras with the ability to output full real-time frame rates and deliver high-quality megapixel imaging for indoor/outdoor applications.

2.3 Hardware

- The camera shall utilize a high sensitivity 1080p Megapixel CMOS sensor with 1/3.2” optical format, 2.2um x 2.2um pixel size, progressive scan and Active Pixel Count: 1920(H) x 1080(V) pixel array.

- The camera shall have a 3-axis easily adjustable gimbal with 359° pan and 90° tilt for easy and accurate positioning.
- The camera shall have an integrated Remote Focus module.
- The camera shall have an IK-10 rated vandal resistant dome enclosure with IP66 weatherproofing standard.
- The camera's power source shall be Power over Ethernet (PoE) complying with the IEEE 802.3af standard.
- The camera shall be utilized for indoor and outdoor applications.
- The camera's lens shall be ordered separately.
- Alarm Input/Output: General purpose opto-coupled, 1 Input/1 Output.

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 unlimited 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 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 have a tamper-resistant housing of surface mount with die-cast aluminum cover and 2" polycarbonate dome bubble.
- 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 camera's H.264 implementation shall maintain full real time video frame rates.
- The camera shall output at a maximum resolution of 1920(H) x 1080(V) pixels up to frame rate of 30 frames per second (FPS).
- It shall be possible to program the camera to output a variety of lower resolution image and increase frame rate, i.e. 1280(H) x 1024(V) pixels at 41 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.
- The Camera shall have CorridorView™ (90°, 180°, and 270° image rotation).

2.5 Video

Video frame rate (up to):

30FPS @ 1920 x 1080

Video frame rate in cropped mode up to:

41FPS @ 1280 x 1024

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, DHCP, QoS, IPv4 and IPv6.
- 100 Base-T Ethernet Network Interface.
- Multi-streaming: 8 non-identical streams.

2.7 Electrical

General purpose opto-coupled 1 input and 1 output

Power over Ethernet (PoE): PoE 802.3af

Power consumption: PoE – Class 3:

AV2556DN-S-NL: 5.59 Watts max PoE Class 3

2.8 Networking

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

2.9 Environmental

Operating temperature: -40°C (40 °F) to +50°C (122 °F)

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

Storage temperature -20°C (-4°F) to +60°C (140 °F)

Humidity 0% to 90% (non-condensing)

2.10 Minimum Illumination

Color (Day Mode): 0.2 Lux

B/W (Night Mode): 0.02 Lux, IR sensitive

2.11 Packaging

Total Unit Dimensions:

- ϕ 2" (52mm) Bubble (ϕ 4" (100mm) Cover) x 1.5" (38mm) H Installed (3" H total)

Weight: 1.2lbs (0.58kg)

Packaged Dimensions: 5.6" W (142mm) x 5.6" L (142mm) x 3.5" H (90mm), Weight of 1.3lbs (0.6kg)

2.12 Compatible Accessories

MCD-WMT Wall Mount with Junction Box

MCD-CMT Pendant Mount with Junction Box

AV-EBA Electrical Box Adapter Plate

MCD-4S Electrical Box Adapter Cover For MicroDome® (Fits Common 4S Junction Box)

AV-CRMA Corner Mount Adapter

AV-PMA Pole Mount Adapter

2.13 Compatible Lenses

MPM2.1	2.1mm M12-mount, Fixed iris, IR corrected
MPM2.8A	2.8mm M12-mount, Fixed iris, IR corrected
MPM4.0A	4mm M12-mount; Fixed iris, IR corrected
MPM6.0	6mm M12-mount; Fixed iris, IR corrected
MPM8.0	8mm M12-mount; Fixed iris, IR corrected
MPM12.0A	12mm M12-mount, Fixed iris, IR corrected
MPM16.0	16mm M12-mount; Fixed iris, IR corrected

2.14 Related Documents

MicroDome® G2 Datasheet

MicroDome® G2 Installation Manual

2.15 Warranty

Limited 3-Year Parts and Labor

Arecont Vision reserves the right to change products or specifications without notice.