**D4S-AV3115-3312 3 Megapixel H.264 Color Indoor Dome w/ Integrated 3.3-12mm Lens**

**D4S-AV3115DN-3312 3 Megapixel H.264 Day/Night Indoor Dome w/ Integrated 3.3-12mm Lens**

**D4S-AV3115-04 3 Megapixel H.264 Color Indoor Dome w/ Integrated 4mm Lens**

**D4S-AV3115DN-04 3 Megapixel H.264 Day/Night Indoor Dome w/ Integrated 4mm Lens**

**D4F-AV3115-3312 3 Megapixel H.264 Color Indoor Flush Dome w/ Integrated 3.3-12mm Lens**

**D4F-AV3115DN-3312 3 Megapixel H.264 Day/Night Indoor Flush Dome w/ Integrated 3.3-12mm Lens**

**D4F-AV3115-04 3 Megapixel H.264 Color Indoor Flush Dome w/ Integrated 4mm Lens**

**D4F-AV3115DN-04 3 Megapixel H.264 Day/Night Indoor Flush Dome w/ Integrated 4mm Lens**

***Bid-Spec***

1. **Description**

The D4S-AV3115 and D4F-AV3115 indoor low cost dome camera series is a dual encoder (H.264 & MJPEG), 3 Megapixel resolution, IP addressable dome camera. The D4S-AV3115 and D4F-AV3115 camera line provides an all-in-one solution with integrated a high sensitivity 3 megapixel sensor, 3.3-12mm or 4mm lens and either surface mount, D4S, or in-ceiling mount, D4F, dome configurations.

With the features of Binned mode, PSIA compliance, privacy masking, extended motion detection and flexible cropping, the D4S-AV3115 or D4F-AV3115 is a high sensitivity, PoE (IEEE 802.3af) compliant camera with color and Day/Night 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 at very competitive price points for price sensitive applications.

1. **Bid Specification**

* The camera shall utilize a high sensitivity 3 Megapixel CMOS sensor with 1/2.5” optical format.
* The camera shall have and integrated 3.3-12mm, CS Mount, megapixel IR corrected vari-focal lens with 1/2.5" optical format, F1.6 and Horizontal Field of View 25°- 75°. (-3312 version only)
* The camera shall have and integrated 4mm, CS Mount, megapixel IR corrected fixed focal lens with 1/2" optical format, F1.8 and Horizontal Field of View 74°. (-04 version only)
* The camera shall have an indoor dome enclosure w/ Acrylic (PMMA) Bubble.
* The camera’s dome chassis material shall be Acrylonitrile Butadiene Styrene (ABS) Plastic.
* The camera shall have a 2-axis gimbal with 360˚ pan 90˚ tilt for easy and accurate positioning. (D4S version only)
* The camera shall have a 2-axis gimbal with 360˚ pan 70˚ tilt for easy and accurate positioning.

(D4F version only)

* The camera shall be surface mount with optional pendant mount, D4S-CMT, or wall mount, D4S-WMT. (D4S version only)
* The camera shall be in-ceiling mount (D4F version only)
* The camera shall have dual standard compression support with simultaneous streaming of both H.264 and MJPEG formats.
* The camera is fully compatible with PSIA industry standard and passes PSIA conformance tests.
* The camera shall have privacy masking, the ability to select multiple regions of an arbitrary shape to block the video. This feature will be supported both in HTTP and TFTP protocols, as well as the on-camera web interface.
* The camera shall have extended motion detection grid, a higher granularity grid of 1024 distinct motion detection. 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. This feature will be supported both in HTTP and TFTP, as well as the on-camera web interface.
* The camera shall be able to be cropped to any resolution divisible by 2 and maintain H.264 compression.
* 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 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. 1600(H) x 1200(V) pixels at 31 FPS, or 1920(H) x 1080(V) pixels at 29 FPS.
* It shall be possible to program the camera at binned mode to output a variety of lower resolution image and increase frame rate, i.e. 1024(H) x 768(V) pixels at 47 FPS, or 800(H) x 600(V) pixels at 64 FPS.
* The camera’s bit rate control shall be selectable from 100 Kbps to 10 Mbps for each independent stream.
* The camera’s shutter speed shall be 1/1000 s to 1/2 s.
* 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 be equipped with a 100 Mbps LAN connector.
* The camera shall provide 21 levels of compression quality for optimal viewing and archiving.
* The camera shall support a minimum HTTP, RTSP, RTP over TCP, RTP over UDP and TFTP network protocols.
* The camera shall feature automatic exposure, automatic multi-matrix white balance, shutter speed control, 50/60Hz selectable flicker control, programmable brightness, saturation, gamma, sharpness, windowing and decimation, 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 incorporate necessary algorithms and circuits to detect motion in low light with clarity.
* The camera shall support a minimum illumination of 0.3 Lux @ F1.4 in color non-binned mode and 0.15 Lux @ F1.4 in color binned mode.
* The camera shall support an IR sensitive minimum illumination of 0 Lux in B/W mode (DN version only).
* The camera’s primary power source shall be Power over Ethernet (PoE) complying with the IEEE 802.3af standard and provide at least 4.5W of power.
* The camera shall have the alternative option to be powered from between a 12V DC up to 48V DC or 24V AC power source.
* The camera shall be utilized for indoor use.
* The camera’s operating ambient temperature is -5˚C (23 °F) to 45ºC (113ºF); stable image temperature is 0˚C (32 °F) to +45˚C (113 °F); storage temperature -20˚C (-4 °F) to +60˚C (140 °F).
* The camera shall be FCC Part 15, Class B, CE, RoHS and REACH compliant.
* The camera shall be UL listed.
* The camera shall have dimensions of: Ø6”(156mm) x 4.9”H (124mm), Bubble only: Ø4.0 (101mm) x 2” H(51.7mm) , weighing 1.16lbs (0.525kg) with lens. (D4F version only).
* The camera shall have dimensions of: Ø4.7”(118.5mm) x 3.8”H (95.4mm), Bubble only: Ø4.0 (101mm) x 2.9” H(51.7mm) , weighing 0.98lbs (0.445kg) with lens. (D4S version only).

#### Quick-Spec

1. **Minimum Performance Specification**

Megapixel camera must meet the following operating requirements

**Operational**

Imaging 3 megapixel CMOS image sensor

1/2.5” optical format

Bayer mosaic RGB filter

Active Pixel Count 2048(H) x 1536(V) pixel array

Minimum illumination Color (non-binned): 0.3 Lux @ F1.4

Color (binned): 0.15 Lux @ F1.4

Day/Night: 0 Lux, IR sensitive

Dynamic range 70.1 dB

Maximum SNR 44.1 dB

**Full Field of View (FOV) Resolutions**

2048x1536 (HxW) 3 megapixel

1024x768 (HxW) 1/4 resolution

**Cropped Field of View Resolutions**

1920x1200 WUXGA

1920x1080 HDTV-1080p

1600x1200 2 MP

1280x1024 1.3 MP

1280x720 HDTV - 720p

1024x768 XGA

800x600 SVGA

704x570 PAL

704x480 NTSC

640x480 VGA

352x288 CIF

320x240 SIF

**Data Transmission**

Video frame rate up to

21fps @ 2048x1536

29fps @ 1920x1080

31fps @ 1600x1200

41fps @ 1280x1024

Video frame rate in binned mode up to

47fps @ 1024x768

64fps @ 800x600

64fps @ 860x540

64fps @ 640x512

Compression type

H.264 (MPEG4, Part 10)

Motion JPEG

21 levels of quality

Transmission protocols

HTTP, RTSP, TRP over TCP, RTP over UDP, TFTP

100 Base-T Ethernet Network Interface

100 Base-T Ethernet Network Interface

Multi-streaming: 8 non-identical streams

**Programmability**

Flexible cropping

Privacy masking

Binned Mode

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 pixels for JPEG and 2x2 pixels for H.264

Programmable shutter speeds to minimize 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

**Electrical**

General purpose opto-coupled input and output

Power over Ethernet (PoE): PoE 802.3af

Power consumption 3 Watts maximum

Auxiliary Power 12-48V DC, 24VAC

**Mechanical**

D4F:

Dimensions(Ø xH)………. Ø6”(156mm) x 4.9”H (124mm), Bubble only: Ø4.0 (101mm) x 2” H(51.7mm)

Weight…………………………..1.16lbs (0.525kg) with lens

D4S:

Dimensions(Ø xH)……. Ø4.7”(118.5mm) x 3.8”H (95.4mm), Bubble only: Ø4.0 (101mm) x 2.9” H(51.7mm)

Weight………………………….. weighing 0.98lbs (0.445kg) with lens

**Compatible Lens:**

• MPL33-12: (-3312 version)

F1.6, 3.3-12mm, 1/2.5”, HFOV=25°-75°

• MPL4.0: (-04 version)

F1.8, 4mm, 1/2”, HFOV=74°

**Environmental**

Operating temperature -5˚C (23 °F) to +45˚C (113°F)

Stable image temperature 0˚C (32 °F) to +45˚C (113°F)

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

Humidity 0% to 90% (non condensing)

**Regulatory Approvals / Listings**

FCC, Class B

CE

RoHS and REACH compliant

UL Listed

**Industry Standard**

PSIA compliance

**Accessories:**

D4S-CMT: Pendant Mount ( Fit ¾” NPT)

D4S-WMT: Wall Mount ( Fit ¾” NPT)

D4S-EBA: Junction Box Adapter

**Related Documentation**

D4S/D4F Installation Manual

D4S/D4F Camera Specification

**4.0 Model Numbers**

The camera shall be Arecont Vision model D4S-AV3115-3312, 3 Megapixel H.264 Color Indoor Dome w/ Integrated 3.3-12mm Lens

The camera shall be Arecont Vision model D4S-AV3115DN-3312, 3 Megapixel H.264 Day/Night Indoor Dome w/ Integrated 3.3-12mm Lens

The camera shall be Arecont Vision model, D4S-AV3115-04,3 Megapixel H.264 Color Indoor Dome w/ Integrated 4mm Lens

The camera shall be Arecont Vision model, D4S-AV3115DN-04, 3 Megapixel H.264 Day/Night Indoor Dome w/ Integrated 4mm Lens

The camera shall be Arecont Vision model, D4F-AV3115-3312, 3 Megapixel H.264 Color Indoor Flush Dome w/ Integrated 3.3-12mm Lens

The camera shall be Arecont Vision model, D4F-AV3115DN-3312, 3 Megapixel H.264 Day/Night Indoor Flush Dome w/ Integrated 3.3-12mm Lens

The camera shall be Arecont Vision model, D4F-AV3115-04, 3 Megapixel H.264 Color Indoor Flush Dome w/ Integrated 4mm Lens

The camera shall be Arecont Vision model, D4F-AV3115DN-04, 3 Megapixel H.264 Day/Night Indoor Flush Dome w/ Integrated 4mm Lens

**5.0 Warranty**

Minimum 1 Year parts and labor

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

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