**D4SO-AV1115-3312 1.3 Megapixel H.264 Color Outdoor Dome w/ Integrated**

**3.3-12mm Lens**

**D4SO-AV1115DN-3312 1.3 Megapixel H.264 Day/Night Outdoor Dome w/**

**Integrated 3.3-12mm Lens**

***Bid-Spec***

1. **Description**

The D4SO-AV1115-3312 low cost outdoor dome camera series is a dual encoder (H.264 & MJPEG), 1.3 Megapixel resolution, IP addressable dome camera. The D4SO-AV1115-3312 line provides an all-in-one solution with integrated a high sensitivity 1.3 megapixel sensor, 3.3-12mm lens and rated IP66 vandal resistant dome enclosure. With the features of Casino mode, PSIA compliance, privacy masking, extended motion detection and flexible cropping, the D4SO-AV1115-3312 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 four 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 1.3 Megapixel CMOS sensor with 1/2.7” 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 21°- 61°.
* The camera shall have vandal resistant dome enclosure with rated IP66 for water and dust protection.
* The camera shall dome chassis shall be vandal resistant constructed of aluminum with a 4” polycarbonate dome bubble with IK10 rated.
* The camera shall have a 2-axis gimbal with 360˚ pan 90˚ tilt for easy and accurate positioning.
* The camera shall be surface mount with optional pendant mount, MD-CMT, wall mount, D4S-WMT2, wall mount cap, MD-CAP, junction box adapter, SV-JBA, electrical box adapter, SV-EBA, flush mount adapter, MD-FMA, heater kit, MD-1HK, corner mount adapter, MD-CRMA, and pole mount adapter, MD-PMA.
* The camera shall have dual standard compression support with simultaneous streaming of both H.264 and MJPEG formats.
* The camera shall have Casino Mode to maintain 30fps or higher under any condition.
* 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’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 have Real Time Streaming Protocol (RTSP) support allowing for compatibility with media players such as Apple QuickTime, VLC Player and others.
* The cameras H.264 implementation shall maintain full real time video frame rates.
* The camera shall output at a maximum resolution of 1280(H) x 1024(V) pixels at a maximum frame rate of 42 frames per second (FPS).
* It shall be possible to program the camera to output a variety of lower resolution image and increase frame rate.
* 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 0.1 Lux @ F1.4 in color mode.
* The camera shall support an IR sensitive minimum illumination of 0 Lux in B/W mode (D/N 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’s operating ambient temperature shall be -30˚C (-22°F) to 50ºC (122ºF); stable image temperature is 0˚C (32 °F) to +50˚C (122°F); storage temperature -30˚C (-22°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 total unit dimensions of Ø5.5” (140.3mm) x 4.9” (124.6mm)H, Bubble only: Ø4.0” (102mm) x 2.4”(61.8mm) H.
* The camera shall have a total unit weight of: 2.0 lbs (0.91 kg).

#### Quick-Spec

1. **Minimum Performance Specification**

Megapixel camera must meet the following operating requirements

**Operational**

Imaging 1.3 megapixel CMOS image sensor

Optical format: 1/2.7”

Pixel Size: 3 um x 3 um

Bayer mosaic RGB filter

Active Pixel Count 1280(H) x 1024(V) pixel array

Minimum illumination Color: 0.1 Lux @ F1.4

Day/Night: 0 Lux, IR sensitive

Dynamic range 69 dB

Maximum SNR 45 dB

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

1280x1024 (HxW) 1.3 megapixel

640x512 (HxW) 1/4 resolution

**Cropped Field of View Resolutions**

Flexible Cropping: Crop to 2 pixels in H.264 and 1 pixel in JPEG

1280x720 HDTV - 720p

1024x768 XGA

800x600 SVGA

704x570 PAL

704x480 NTSC

640x480 VGA

352x288 CIF

320x240 SIF

**Data Transmission**

Data rate

Bit rate control from 100Kbps to 10Mbps

Video frame rate up to

42fps @ 1280x1024

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

Multi-streaming: 8 non-identical streams

**Programmability**

Casino mode

Flexible cropping

Privacy masking

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 4.5 Watts maximum

Auxiliary Power 12-48V DC, 24VAC

**Mechanical**

2-axis camera gimbal with 360˚ pan 90˚ tilt

Die-cast aluminum chassis with 4” polycarbonate dome bubble, IK10 rated

Total unit dimensions: Ø5.5 x 4.9 H (in), Bubble only: Ø4.0 x 2.4 H (in)

Total unit dimensions: Ø140.3 x 124.6 H (mm), Bubble only: Ø102 x 61.8 H (mm)

2.0 lbs (0.91 kg)

**Compatible Lens:**

MPL33-12:

F1.6, 3.3-12mm, 1/2.5”, HFOV=21°-61°

**Environmental**

Rated IP66 for water and dust protection

Operating temperature -5˚C (23 °F) to +50ºC (122ºF);

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

Storage temperature -30˚C (-22°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:**

MD-WMT2: Wall Mount (1.5” NTP)

MD-CAP: Wall Mount Cap (1.5” NTP)

MD-CMT: Pendant Mount

MD-JBA: Junction Box Adapter for MegaDome® and MD-CMT

MD-CRMA: Corner mount adapter

MD-PMA: Pole mount adapter

MD-EBA: Electrical box adapter for MegaDome® and MD-CMT

MD-1HK: Optional 10W Heater Kit

SV-EBA: Electrical Box Adapter for MD-WMT2

SV-JBA: Junction Box Adapter for MD-WMT2

D4-FT: Focus Tool for D4 Series

**Related Documentation**

D4SO Installation Manual

D4SO Camera Specification

**4.0 Model Numbers**

The camera shall be Arecont Vision model D4SO-AV1115-3312, 1.3 Megapixel H.264 Color Outdoor Dome w/ Integrated 3.3-12mm Lens

The camera shall be Arecont Vision model D4SO-AV1115DN-3312, 1.3 Megapixel H.264 Day/Night Outdoor Dome w/ Integrated 3.3-12mm 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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