**AV1115v1 1.3-Megapixel Compact H.264 Color Camera**

**AV1115DNv1 1.3-Megapixel Compact H.264 Day/Night Camera**

**AV1115DNAIv1 1.3-Megapixel Compact H.264 Day/Night and**

**Auto-Iris Camera**

***Bid-Spec***

1. **Description**

The AV1115v1 1.3-Megapixel compact H.264 network camera is part of Arecont Vision’s full line of H.264 MegaVideo® cameras. This fully compliant implementation of H.264 (MPEG-4, Part 10) provides full 1280 x 1024 megapixel resolution at full video frame rates of 42 frames per second (fps). With the features of PSIA and ONVIF conformance, privacy masking, extended motion detection and flexible cropping, the AV1115v1 is a high sensitivity, PoE (IEEE 802.3af) compliant camera with color, Day/Night and Day/Night with Auto-Iris configurations. Built with Arecont Vision’s massively-parallel MegaVideo® processing technology, this camera offers more than 4-times the resolution of standard resolution IP cameras with the ability to output full real-time frame rates and deliver high-quality megapixel imaging.

1. **Bid Specification**

* The camera shall utilize a high sensitivity 1.3-Megapixel effective CMOS sensor with 1/2.7” optical format.
* The camera shall have dual standard compression support with simultaneous streaming of both H.264 and MJPEG formats.
* The camera shall be fully conformant with PSIA and ONVIF industry-standards and pass conformance tests.
* The camera shall have privacy masking, the ability to select multiple regions of an arbitrary shape to block the video.
* The camera shall have an 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.
* 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 be able to be cropped to any resolution divisible by 2 and maintain H.264 compression. It shall be possible to crop the camera to output a variety of lower resolution images.
* 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).
* 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’s shutter speed shall be 1ms - 500ms.
* The camera shall provide 21 levels of compression quality for optimal viewing and archiving.
* The camera shall support at minimum RTSP, RTP over TCP, RTP over UDP, HTTP and TFTP network 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 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 in color mode.
* The camera shall support an IR sensitive minimum illumination of 0 Lux in black and white (B/W) mode with an additional IR light source.
* The camera’s primary power source shall be Power over Ethernet (PoE) complying with the IEEE 802.3af standard and provide at least 5.1W 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.
* This camera shall feature a durable aluminum housing that minimizes fire hazards. Camera should be mounted using a 1/4” x 20 threaded hole at the bottom of the housing.
* The camera shall support a DC auto-iris lens when equipped with the auto-iris feature (DNAIv1 version only). Megapixel resolution optics recommended.
* The camera shall be utilized for indoor use but can be used in outdoor applications with an appropriate enclosure.
* The camera’s operating ambient temperature is -5˚C (23 °F) to 50ºC (122ºF); stable image temperature is 0˚C (32 °F) to +50˚C (122 °F); storage temperature -20˚C (-4 °F) to +60˚C (140 °F).
* The camera shall be compliant with EMI and EMC requirements, following European Standards EN55022 (Class A limits), EN55024 (IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11), EN61000-3-2 and EN61000-3-3, EN60950-1.
* The camera shall be compliant with RoHS Directive 2002/95/EC.
* The camera shall be compliant with REACH Directive EC1907/2006.
* The camera shall be compliant with FTC "Made in USA" standard.
* The camera shall have CE marking and UL listed.
* The camera shall have dimensions of: 3” (76mm) W x 2.5” (63.5mm) H x 1.25” (31.7mm) D weighing 5.8oz (164g) without lens.
* The camera shall use a wide variety of C/CS mount 1/3” for larger lenses. (Note that some CS lenses maybe require a washer and all C-mount lenses require a C/CS adaptor ring and maybe a washer. Megapixel quality lenses are the preferred choice for Arecont Vision’s entire camera line.)

#### Quick-Spec

1. **Minimum Performance Specification**

Megapixel camera must meet the following operating requirements

**Operational**

Imaging 1.3-Megapixel effective CMOS image sensor

Optical format: 1/2.7”

Pixel Size: 3 um x 3 um

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 any resolution that is divisible by 2 pixels in H.264 and 1 pixel in MJPEG up to the maximum resolution of the camera. Example resolutions include but not limited to the following:

1280x720 HDTV - 720p

1024x768 XGA

800x600 SVGA

704x570 PAL

704x480 NTSC

640x480 VGA

352x288 CIF

320x240 SIF

**Data Transmission**

Video frame rate up to 42fps @ 1280x1024

Compression type

H.264 (MPEG-4, Part 10)

Motion JPEG (MJPEG)

21 levels of quality

Transmission protocols

HTTP1.0, HTTP1.1, RTSP, TRP over TCP, RTP over UDP, TFTP

100 Base-T Ethernet Network Interface

Multi-streaming: 8 non-identical streams

**Programmability**

Flexible Cropping

Privacy Masking

Low-Light Noise Filter Control

Bit-Rate and Bandwidth Limitation Control

On-camera real-time motion detection with 1024 detection zones or 64 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 MJPEG 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 and Storage Savings by Running at 1/4 Resolution

**Electrical**

General purpose opto-coupled input and output

Power over Ethernet (PoE): PoE 802.3af for camera

Auxiliary power 12–48V DC, 24V AC

Power consumption: 5.1 Watts maximum

Optional DC AI connection (DNAIv1 models only)

**Mechanical**

Dimensions(H x W x D)……….3”W (76 mm) x 2.5”H (63.5 mm) x 1.25”D (31.7mm) (w/o lens)

Weight…………………………..5.8oz (164g) (w/o lens)

Lens.……………………………C/CS lens mount

**Environmental**

Operating temperature -5˚C (23 °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)

**Compliance Information**

Class A FCC, Part 15; EN55022 Class A, EN55024, EN61000-3-2 and EN61000-3-3, EN60950-1

RoHS, REACH, CE Mark, UL Listed

**Industry Standard**

PSIA and ONVIF Conformance

**Housing Accessories:**

D4S: Indoor 4" Surface Mount Dome

D4F: Indoor 4" In-Ceiling Flush Mount Dome

D4SO: Outdoor 4" IP66, IK-10, Dome Housing

Dome 4-I: Indoor 4" Vandal Dome

Dome 4-O: Outdoor 4" Vandal Dome

Dome 5-I: Indoor 5" Recessed Dome

HSG2: Outdoor Ip67 Housing with Heater and Dual Fans

**Lenses:**

MPL1.55

MPL3.5 (1.3MP only)

MPL4.0

MPL6.0

MPL6.2 (1.3MP only)

MPL8.0

MPL4-10

MPL4-12

MPL8-16

MPL12-40

MPL33-11

MPL33-12

LENS4-13

LENS4-10AI (DNAIv1 models only)

**Related Documentation**

AV1115v1 Camera Specification

Installation Manual

**4.0 Model Numbers**

The camera shall be Arecont Vision model AV1115v1, 1.3-Megapixel Compact H.264 Color Camera

The camera shall be Arecont Vision model AV1115DNv1, 1.3-Megapixel Compact H.264 Day/Night Camera

The camera shall be Arecont Vision model AV1115AIDNv1, 1.3-Megapixel Compact H.264 Auto-Iris Camera

**5.0 Warranty**

Minimum 3-Year Parts and Labor

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

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