AV2825

1080p H.264 IP MegaView™ Camera

AV2825IR (IR Illuminator Day/Night)   AV2825DN (Day/Night)

Arecont Vision
megapixel technology...
beyond imagination

MegaView™ Series

Arecont Vision Advantages:

All-in-one H.264 MegaView™ Solution
- Integrated megapixel camera, 4.5-10mm IR corrected vari-focal len IR Illuminator and easy adjustable 3-axis bracket
- Available in 1.3, 1080p, 3, and 5 MP sensor configurations with IR Illuminator or Day/Night versions
- Vandal resistant aluminum cylindrical (Bullet-style) housing
- IP66 weatherproofing standard
- Supports both H.264 and MJPEG at full resolutions and full frame rates
- Heater and blower for cold climate environments
- Optional corner mount, pole mount, junction box and electrical box adapter

H.264 (MPEG4 Part 10) Compression Standard
- Simultaneous support of both H.264 and MJPEG
- 10x average bandwidth and storage reduction over MJPEG

Plug-n-play
- No need to open camera for installation!
- All lens adjustments, including iris, zoom and focus, are external the camera

IR LED configuration exceeds the market standard
- 48 IR LEDs, 25 meter IR distance and 45 degree IR angle

PSIA Compliance
- Fully compliant with PSIA industry standards

Privacy Mask
- Multiple regions of arbitrary shape to block video
- Supports both in HTTP and TFTP protocols, as well as the on-camera web interface

Extended Motion Detection Grid
- 1024 distinct motion detection zones vs. 64 in previous versions
- Supports both in HTTP and TFTP protocols, as well as the on-camera web interface

Flexible Cropping
- No restriction on any image size cropping

Bit Rate Control
- Maintain desired bandwidth and storage size

Superior Low Light Performance
- 1/2.7" CMOS Sensor

Unparalleled High Definition Resolution - 1920x1080
- Six times the resolution of IP VGA or analog cameras

Fastest MegaPixel Image Rates
- Up to 24fps in 1080p mode

Reduced Overall System Cost
- Less cameras to install, less wiring, no external power (POE), less NVR licensing fees

Other key features:
- Simultaneous full field of view and Region-of-Interest (ROI)
- On-camera motion detection
- Motorized IR Cut Filter (DN Version) and more

The AV2825 MegaView™ series network camera is part of Arecont Vision's full line of H.264 megapixel cameras. This fully compliant implementation of H.264 (MPEG 4, Part 10) provides full 1920 x 1080 megapixel resolution at full video frame rates of 24fps. The MegaView™ camera line provides an all-in-one solution with integrated megapixel camera, lens, IR illuminator, and vandal resistant cylindrical enclosure. Using MegaVideo® technology, these cameras offer bandwidth and storage efficiency of up to 10X on average over traditional megapixel counterparts.

PSIA

Model Numbers:

AV2825IR - IR Illuminator Day/Night
AV2825DN - Day/Night

Imaging
• 2.07 megapixel CMOS image sensor
• Full resolution: 1920 (H) x 1080 (V) pixel array
• 1/2.7" optical format
• 3 μm pixel pitch
• Bayer mosaic RGB filter
• Minimum illumination of:
    • 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
• 1920 (H)x1080(V)   HDTV-1080p
• 960 (H) x540 (V)   1/4 resolution

Cropped Field of View Resolution
Flexible Cropping - Crop to 2 pixels in H.264 and 1 pixel in JPEG
• 1280x1024   1.3MP
• 1280x720   HDTV - 720p
• 1024x768   XGA
• 800x600   SVGA
• 704x570   PAL
• 704x480   NTSC
• 640x480   VGA
• 352x288   CIF
• 320x240   SIF

Data Transmission
• Video frame rate up to:
    • 24fps @1920x1080 maximum
    • 32fps @1280x1024 maximum
• Compression type
    • H.264 (MPEG4, Part 10)
    • Motion JPEG
    • 21 levels of quality
• TFTP, HTTP, RTSP, RTP over TCP, RTP over UDP image transmission protocols
• 100Base-T Ethernet Network Interface
• Data rate:
    • bit rate control from 100Kbps to 10Mbps
    • unthrottled data rate up to 50Mbps
• Multi-streaming: 8 non-identical streams

Programmability
• Privacy mask
• Flexible cropping
• 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 pixel for JPEG and 2x2 pixels for H.264
• Programmable shutter speed to help control 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 (DN version only)
• General purpose opto-coupled input (IR version only)
• Power over Ethernet (PoE): PoE 802.3af for camera
• Auxiliary power 12-48V DC, 24V AC for IR illuminator, heater and blower
• Power consumption:
    4.9 Watts maximum (DN version)
    7.9 Watts maximum (IR version)

Heater and Blower Electrical
• Voltage Input: 12V to 48V DC or 24V AC (separate power required)
• Power Output:
    10W Max (DC12V)
    28.8 W Max (AC24V)
• Switch: On: 4C° (39.2 °F), Off: 7°C (44.6 °F)

Regulatory Approvals
• FCC, CE, RoHS

Industry standard
• PSIA compliance

Environmental
• IP66 weatherproof standard
• Operating temperature -30˚C (-22 °F) to +55˚C (131 °F)
• Storage temperature -60˚C (-76 °F) to +55˚C (131 °F)
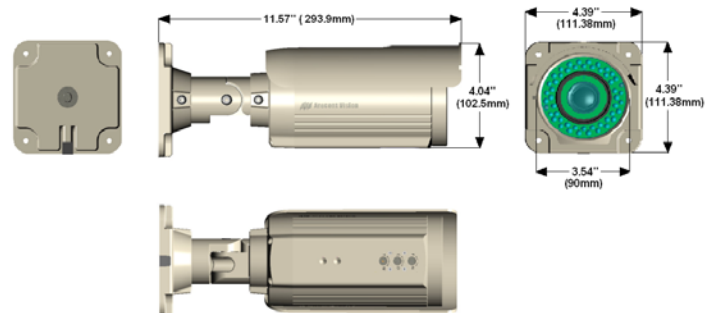• Humidity 0% to 90% (non-condensing)

IR Illuminator
• Voltage Input: 12V to 48V DC or 24V AC (separate power required)
• 48 pcs 850nm LEDs
• 25 meter IR distance (max)
• 45° IR angle
• 3 watts power consumption

Mechanical
• Easily adjustable 3-axis bracket
• Vandal resistant aluminum cylindrical (Bullet-style) housing
• External lens adjustment including zoom, iris and focus
• 4"W (102 mm) x 4.3"H (111 mm) x 11.5"D (293mm)
• 4.4 lbs (2 kg)

Lens
• 4.5 - 10 mm vari-focal lens with IR corrected
    • Max Aperture: F1.6
    • Horizontal F.O.V. = 34˚-73˚

Accessories:
• MV-EBA - Indoor/Outdoor Electrical Box Adapter
• MD-PMA - Indoor/Outdoor Pole Mount Adapter
• MD-CRMA - Indoor/Outdoor Corner Mount Adapter

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Made in USA

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