AV3145/AV5145

3-Megapixel or 5-Megapixel H.264 IP MegaBall™ Camera

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3MP MegaBall™ Color Series

AV3145-04-W	4mm Lens, Wall Mount
AV3145-3310-W	3.3–10mm Lens, Wall Mount
AV3145-04-D	4mm Lens, Dome
AV3145-3310-D	3.3–10mm Lens, Dome

5MP MegaBall™ Color Series

AV5145-04-W	4mm Lens, Wall Mount
AV5145-3310-W	3.3–10mm Lens, Wall Mount
AV5145-04-D	4mm Lens, Dome
AV5145-3310-D	3.3–10mm Lens, Dome

3MP MegaBall™ Day/Night Series

AV3145DN-04-W	4mm Lens, Wall Mount
AV3145DN-3310-W	3.3–10mm Lens, Wall Mount
AV3145DN-04-D	4mm Lens, Dome
AV3145DN-3310-D	3.3–10mm Lens, Dome

5MP MegaBall™ Day/Night Series

AV5145DN-04-W	4mm Lens, Wall Mount
AV5145DN-3310-W	3.3–10mm Lens, Wall Mount
AV5145DN-04-D	4mm Lens, Dome
AV5145DN-3310-D	3.3–10mm Lens, Dome

Dome Model

Wall Mount Model

All-in-One Indoor 3" Ball Shape Solution:
Integrated H.264 Megapixel Camera,
3.3–10mm or 4mm Lens and
Wall Mount Bracket or Dome Solutions

Fast Frame Rates:
21fps @ 3MP, 14fps @ 5MP

Binned Mode to Increase Sensitivity and
Low-Light Performance

H.264 Addresses Cost-Sensitive Market

Arecont Vision Advantages:

- All-in-One H.264 MegaBall™ Indoor Solution
- Color and Day/Night Versions
- Fixed Focal and Varifocal Lens Options
- Wall Mount Bracket and Dome Configurations
- Dome Version Accommodates In-Ceiling and Surface Mounting
- Installer Friendly:
  - External Lens Adjustment
  - Cable Management
  - 3-Axis Adjustment
  - Bubble Option
- Dual Encoder H.264/MJPEG
- PSIA and ONVIF Conformant
- New User-Friendly Webpage
- 1024-Zone Motion Detection and Privacy Mask
- Bitrate Control, Multi-Streaming and Forensic Zooming
- PoE and Auxiliary Power: 12–48V DC/24V AC
- True Day/Night Functionality with Removable IR Cut Filter

PSIA ONVIF

Specification sheets subject to change without notice.

Made in the USA

CE c UL us

www.arecontvision.com avsales@arecontvision.com +1.818.937.0700 877.CAMERA.8

AV3145/AV5145

Model Numbers

AV3145-04-W	3MP Color, 4mm Lens, Wall Mount
AV3145-3310-W	3MP Color, 3.3–10mm Lens, Wall Mount
AV3145-04-D	3MP Color, 4mm Lens, Dome
AV3145-3310-D	3MP Color, 3.3–10mm Lens and Dome
AV3145DN-04-W	3MP D/N, 4mm Lens, Wall Mount
AV3145DN-3310-W	3MP D/N, 3.3–10mm Lens, Wall Mount
AV3145DN-04-D	3MP D/N, 4mm Lens, Dome
AV3145DN-3310-D	3MP D/N, 3.3–10mm Lens, Dome
AV5145-04-W	5MP Color, 4mm Lens, Wall Mount
AV5145-3310-W	5MP Color, 3.3–10mm Lens, Wall Mount
AV5145-04-D	5MP Color, 4mm Lens, Dome
AV5145-3310-D	5MP Color, 3.3–10mm Lens, Dome
AV5145DN-04-W	5MP D/N, 4mm Lens, Wall Mount
AV5145DN-3310-W	5MP D/N, 3.3–10mm Lens, Wall Mount
AV5145DN-04-D	5MP D/N, 4mm Lens, Dome
AV5145DN-3310-D	5MP D/N, 3.3–10mm Lens, Dome

Imaging

- 3-megapixel effective CMOS image sensor (AV3145)
- 5-megapixel CMOS image sensor (AV5145)
- Progressive Scan
- 1/2.5" optical format, 2.2 µm pixel pitch
- Minimum illumination of:
  - Color (non-binned): 0.3 Lux
  - Color (binned): 0.15 Lux
  - Day/Night: 0 Lux, IR sensitive
- Dynamic range 70.1 dB
- Maximum SNR 45 dB

Full Field-of-View (FOV) Resolution

Mode Numbers	Full FOV Resolution	1/4 Resolution
AV3145	2048 (H) x 1536 (V)	1024 (H) x 768 (V)
AV5145	2592 (H) x 1944 (V)	1296 (H) x 972 (V)

Lens

- 4mm, F1.6 (-04 models)
  - H-FOV: 71° (AV3145)/90° (AV5145)
- 3.3–10mm, F1.6 (-3310 models)
  - H-FOV: 25–75° (AV3145)/32–95° (AV5145)

Cropped (FOV) Resolution

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

- 2560x1600 QWXGA (AV5145)
- 2048x1536 3MP (AV5145)
- 1920x1080 HDTV – 1080p
- 1280x1024 1.3MP
- 1280x720 HDTV – 720p
- 640x480 VGA

Data Transmission

- Video frame rate up to:
  - 14fps @ 2592x1944
  - 21fps @ 2048x1536
  - 29fps @ 1920x1080
  - 41fps @ 1280x1024
- In Binned Mode up to:
  - 34fps @ 1296x972
  - 46fps @ 1024x768
  - 64fps @ 960x540
- Compression type:
  - H.264 (MPEG-4, Part 10)/Motion JPEG
  - 21 levels of quality
- RTSP, RTP/TCP, RTP/UDP, HTTP, TFTP protocol
- 100Base-T Ethernet Network Interface
- Multi-streaming: 8 non-identical streams

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

- Class A FCC, Part 15; EN55022 Class A, RoHS, REACH EN55024, EN61000-3-2, EN61000-3-3, EN60950
- CE Mark, UL Listed

Programmability

- Binned Mode
- Flexible cropping and low-light noise filter control
- Shutter Speed: 1ms–500ms
- Backlight compensation and multi-matrix white balance
- On-camera motion detection and privacy mask w/1024 detection zones
- 50/60Hz selectable flicker control
- Electronic pan, tilt, zoom (PTZ) and image flip: 180° rotation
- MoonLight™ Mode: extended exposure and proprietary noise cancellation
- Programmable resolution, brightness, saturation, gamma, sharpness, tint
- Bitrate and bandwith limitation control

Electrical

- General purpose opto-isolated input and output
- Power over Ethernet (PoE): PoE 802.3af for camera
- Auxiliary power 12–48V DC, 24V AC
- Power consumption: 5.59 Watts

Industry Standard

- PSIA and ONVIF Conformant

Mechanical

- Casing:
  - Die-cast aluminum 3" metal ball and mount (-W models)
  - Plastic surface/in-ceiling dome w/polycarbonite bubble (-D models)
- Embedded in-ceiling mount (-D models)
- External lens adjustment for zoom, focus and iris (-3310 models)
- External lens adjustment for focus (-04 models)
- Easy 3-axis camera adjustment w/360° pan, 90° tilt and 360° z-axis
- Total Unit Dimensions:
  - Ø 3" (76.2mm) x 5.76" H (146.2mm) (-04-W models)
  - Ø 3" (76.2mm) x 6.15" H (156.2mm) (-3310-W models)
  - Ø 5.1" (130mm) x 1.74" H (44mm) (-D models in-ceiling)
  - Ø 5.1" (130mm) x 3.85" H (98mm) (-D models, surface w/bubble)
- Weight: 1.2lbs (0.54kg)

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