

# MegaDynamic® Megapixel IP Cameras

True Wide Dynamic Range: The Perfect Balance of Bright and Dark

**WDR**

Wide Dynamic Range



## A Full Family of Wide Dynamic Range (WDR) Megapixel IP Cameras

Arecont Vision® megapixel technology delivers superior image quality and reduces overall system costs by covering larger areas with fewer cameras. Now, our industry-leading multi-megapixel cameras offer the added benefit of true wide dynamic range (WDR) performance at full resolution and without lowering frame rates. By combining long and short exposures in the same field-of-view, WDR maximizes the amount of detail in both bright and dark areas of a scene.

Arecont Vision WDR cameras are available in resolutions of 1080p, 3-megapixels and 12-megapixel panoramic. Our WDR technology delivers a dynamic range of up to 100dB. The WDR performance of Arecont Vision cameras represents an up to 50dB improvement (300x) in dynamic range compared to non-WDR cameras. WDR models are available in six camera series.



Megapixel image without WDR



Megapixel image with WDR

## What is Wide Dynamic Range?

Arecont Vision® wide dynamic range technology is designed for high contrast surveillance applications that require high resolution, low bandwidth images at an affordable price point. Non-WDR megapixel cameras provide a dynamic range up to 70dB. In surveillance applications such as a building lobby with large windows or on a loading dock with bright sunlight shining through the open doors, cameras will typically be adjusted for either the bright or dark areas of the scene. By widening the dynamic range to 100dB with technology that maximizes both the bright and dark areas in the field-of-view, Arecont Vision WDR cameras deliver clear images of the entire scene.



Megapixel image without WDR



Megapixel image with WDR



Megapixel image without WDR



Megapixel image with WDR



### SurroundVideo® Highlighted Features:

- 12-Megapixel 180° and 360° Field-of-View
- Wide Dynamic Range up to 100dB at Full Resolution
- All-in-One H.264 180° and 360° Panoramic Dome Solution
- True Day/Night Functionality with Mechanical IR Cut Filter
- Outdoor Rated IP66 and IK-10 Impact-Resistant Housing
- Integrated Four 3-Megapixel Cameras, IR Corrected Lenses
- Binning Mode for Strong Low Light Performance

## SurroundVideo® WDR

The 12MP SurroundVideo® WDR 180° and 360° panoramic cameras (AV12186DN and AV12366DN) provide a wide field-of-view with ample resolution to zoom-in for details in live or recorded video. SurroundVideo® delivers the fastest frame rates in the industry and integrates four sensors with IR corrected lenses into an IP66 environmental rated/IK-10 impact-resistant dome housing (the size of our single-sensor MegaDome® 2 cameras). Includes an adjustable 2-axis gimbal with 360° pan and 90° tilt. Choose PoE (Power over Ethernet) or auxiliary power: 12–48V DC/24V AC. Additional features include 1024-zone motion detection and flexible privacy masking.

## MicroDome® WDR



Megapixel image without WDR



Megapixel image with WDR

### MicroDome® Highlighted Features:

- Wide Dynamic Range up to 100dB at Full Resolution
- Very Easy Installation / Factory Focused
- Ultra Low Profile Design / Small Size
- True Day/Night Functionality with Mechanical IR Cut Filter
- Outdoor Rated IP66 and IK-10 Impact-Resistant Housing (-S Models)
- Integrated Microphone (-F Models)
- Multiple Lens Options Available



Arecont Vision introduces MicroDome® WDR IP megapixel cameras. These ultra low-profile solutions integrate a 1080p or 3-megapixel camera with the fastest frame rates in the industry. MicroDome® is available in both flush and surface mount configurations. An innovative spring arm design makes recessed installation a snap: simply slide the camera through the hole and secure the magnetized cover ring with a single screw. Every model comes equipped with a mechanical day/night switcher. Pixel binning on 3-megapixel models further delivers excellent low light capabilities. Choose PoE (Power over Ethernet) or auxiliary power: 12–48V DC/24V AC.

## MegaDynamic® Megapixel IP Cameras



## MegaBall® / MegaBall® 2 WDR

The stylish MegaBall® WDR multi-megapixel cameras deliver high-resolution images to capture forensic detail in recorded and live video. These indoor all-in-one solutions integrate a 1080p or 3-megapixel camera with the fastest frame rates in the industry and a choice of a P-iris motorized lens with remote focus and zoom or an IR corrected 3.3–10mm vari-focal lens, with an adjustable wall mount or flush and surface mount dome housing. Pixel binning on 3-megapixel models deliver excellent low light capabilities. Additional features include 1024-zone motion detection and flexible privacy masking. Choose PoE (Power over Ethernet) or auxiliary power: 12–48V DC/24V AC.



Megapixel image without WDR



Megapixel image with WDR

### MegaBall® and MegaBall® 2 WDR Highlighted Features:

- All-in-One H.264 3" Ball Shape Solution with Integrated Lens, Cable Management and 3-Axis Adjustment
- Remote Focus/Zoom P-Iris Lens or Vari-Focal Manual Lens
- P-Iris Control to Get Best Depth of Field and Image Clarity (PM Models)
- Wide Dynamic Range up to 100dB at Full Resolution
- Tamper-Resistant Housing
- True Day/Night Functionality with Mechanical IR Cut Filter
- Wall Mount Bracket and Dome Configurations

## MegaDome® 2 WDR

Clear, sharp images and forensic zooming from live and recorded video are key benefits of MegaDome® 2 multi-megapixel WDR cameras. Remote Focus and Remote Zoom make MegaDome® 2 easy to install. These indoor/outdoor all-in-one solutions integrate a 1080p or 3-megapixel camera with the fastest frame rates in the industry and an IR corrected motorized 3–9mm or 8–22mm vari-focal P-iris lens into an IP66 environmental rated/IK-10 impact-resistant dome housing. Pixel binning on 3-megapixel models delivers excellent low light capabilities. An easily adjustable 3-axis gimbal with 360° pan, 90° tilt and 360° Z-axis further simplifies installation. Choose PoE (Power over Ethernet) or auxiliary power: 12–48V DC/24V AC. Additional features include 1024-zone motion detection and flexible privacy masking.



Motorized Lens with IR Illuminator

### MegaDome® 2 Highlighted Features:

- All-in-One H.264 Dome Solution with Wide Angle and Telephoto Motorized Lens Options
- Remote Focus/Zoom P-Iris Lens
- P-Iris Control to Get the Best Depth of Field and Image Clarity
- Wide Angle or Telephoto Lens Options
- Wide Dynamic Range up to 100dB at Full Resolution
- Outdoor Rated IP66 and IK-10 Impact-Resistant Housing

## MegaView® 2 WDR

MegaView® 2 WDR multi-megapixel cameras provide ample resolution to zoom-in for details in live or recorded video. These indoor/outdoor all-in-one solutions integrate a 1080p or 3-megapixel camera with the fastest frame rates in the industry and an IR corrected motorized 3–9mm vari-focal P-iris lens into an IP66 environmental rated, tamper-resistant bullet-style housing. H.264 compression reduces bandwidth and storage requirements while delivering full frame rates and full resolution without sacrificing image quality. Pixel binning on 3-megapixel models delivers excellent low light capabilities. Choose PoE (Power over Ethernet) or auxiliary power: 12–48V DC/24V AC.



Junction Box Included

Wide Angle Lens

### MegaView® 2 Highlighted Features:

- All-in-One H.264 Bullet-Style Solution with Wide Angle and Telephoto Motorized Lens Options and IR LEDs
- Remote Focus/Zoom P-Iris Lens
- P-Iris Control to Get Best Depth of Field and Image Clarity
- Wide Dynamic Range up to 100dB at Full Resolution
- Outdoor Rated IP66 and Tamper-Resistant Housing

## MegaVideo® Compact WDR

The high-resolution images from MegaVideo® Compact WDR cameras, live and recorded, make forensic zooming a reality. These box camera solutions are available in 1080p and 3-megapixel (MP) resolutions, and in our unique Dual Sensor 1.3MP monochrome/3MP WDR camera, all with fast frame rates. MegaVideo® Compact WDR cameras are built-to-order, offering the flexibility to select the best lens for specific applications (sold separately). The camera's small size is easily accommodated by a variety of housings or can be used alone with wall and ceiling mounts (not included). Pixel binning on 3-megapixel models delivers excellent low light capabilities. Choose PoE (Power over Ethernet) or auxiliary power: 12–48V DC/24V AC. (PoE available on dual sensor camera only.)



Dual Sensor: WDR Sensor



Dual Sensor: Monochrome Sensor

### MegaVideo® Compact Highlighted Features:

- Small Size for Flexible Mounting Options
- Many Lenses to Choose From
- New 3MP WDR + 1.3MP B/W Dual Sensor Camera
- Wide Dynamic Range up to 100dB at Full Resolution
- Multiple Dome and Cylindrical (Bullet-Style) Housing Options



Dual Sensor

Single Sensor



# MegaDynamic® Megapixel IP Cameras

## WDR Megapixel IP Camera Models

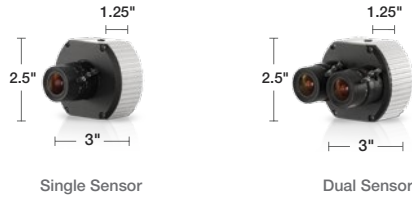
### SurroundVideo® WDR

AV12186DN  
AV12366DN



### MegaVideo® Compact WDR

AV2116DNv1  
AV3116DNv1  
AV3236



### MegaBall® WDR / MegaBall® 2 WDR

AV2146DN-3310-W  
AV2146DN-3310-D  
AV2146DN-3310-D-LG  
AV3146DN-3310-W  
AV3146DN-3310-WA  
AV3146DN-3310-D  
AV3146DN-3310-DA  
AV3146DN-3310-D-LG  
AV3146DN-3310-DA-LG

AV2146PM-W  
AV2146PM-D  
AV2146PM-D-LG  
AV3146PM-W  
AV3146PM-D  
AV3146PM-D-LG



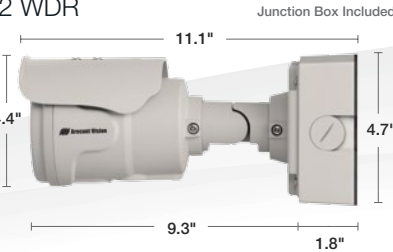
### MicroDome® WDR

AV2456DN-F  
AV2456DN-S  
AV3456DN-F  
AV3456DN-S



### MegaView® 2 WDR

AV2256PMIR  
AV3226PMIR  
AV3226PMIR-A  
AV2256PMTIR  
AV3226PMTIR



### MegaDome® 2 WDR

AV2256DN  
AV2256DNIR  
AV2256PM  
AV2256PMIR  
AV3256DN  
AV3256DNIR

AV3256PM-A  
AV3256PMIR  
AV3256PMIR-A  
AV2256PMTIR  
AV3256PMTIR



## Global Sales and Support

Arecont Vision is the leading manufacturer of high-performance megapixel IP cameras and associated software. All Arecont Vision cameras are made in the USA.

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