

MegaBall® G2 IP Megapixel Cameras

1.2–5MP H.264 All-in-One Motorized P-Iris or Panomorph Lens True Day/Night Indoor IP Adjustable IR Cameras with WDR (Wide Dynamic Range) and STELLAR™ (Spatio Temporal Low Light Architecture) Models



* Junction box sold separately
 ** Dome models can be configured with or without a dome bubble



Wide Field of View



Zoom-In Detail

The MegaBall G2 megapixel camera series fuses optimum performance with outstanding aesthetics. These stylish indoor cameras feature a choice of 1.2-, 1080p-, 3-, or 5-megapixel (MP) resolution options.

True Day/Night

Regardless of time-of-day, this camera is ideal for applications with challenging lighting conditions. The series combines a day/night mechanical IR cut filter with an integrated P-iris lens for precise, optimal image quality.

Wide Dynamic Range

For applications with poor lighting conditions due to strong backlighting, shadows, reflections from wet flooring/ puddles, or contrast due to fog, mist, or glare, optional wide dynamic range is available on some 1080p and 3MP models.

Adjustable Infrared Illumination

MegaBall G2 IR models are integrated with an Adjustable Infrared Illuminator, providing clear images in extreme, low-light scenes at a viewing distance up to 15 m (50 ft).

Pixel Binning

Binning Mode is the process of combining a cluster of pixels into a single pixel resulting in an improved signal-to-noise ratio for increased low light sensitivity.

STELLAR

For challenging low-light applications, the 1.2MP STELLAR, “Spatio Temporal Low Light Architecture” model offers best-in-class light sensitivity capturing details in near complete darkness.

Reduced Network Strain

Multi-streaming enables the MegaBall G2 to deliver eight non-identical streams to facilitate bandwidth-efficient viewing and recording options as well as integration with third-party video management systems.

The MegaBall G2 is designed on a powerful H.264 encoding platform. The H.264 compression reduces network bandwidth and storage requirements while delivering full frame rates and full resolution without sacrificing image quality. The camera offers advanced streaming capabilities and is designed on an efficient H.264 encoding platform capable of delivering high quality video without straining the network.

Edge Recording

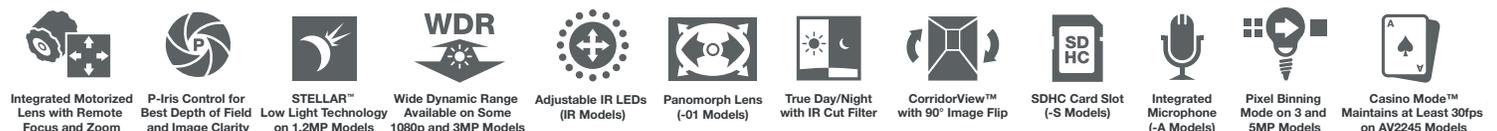
The SD card slot supports up to 32GB of storage capacity for convenient onboard storage. The camera’s power can be supplied via a Power-over-Ethernet compliant network cable connection or with power from a 12-48V DC/24V AC power supply.

Ease of Setup

The camera’s interface allows for an intuitive, fast, and easy configuration; while the Free AV IP Utility tool allows users to quickly configure multiple cameras at one time.

System Integration

The MegaBall G2 is ONVIF Profile S (Open Network Video Interface Forum) and PSIA (Physical Security Interoperability Alliance) compliant, providing interoperability between network video products regardless of manufacturer.



Ease of Installation

Arecont Vision® designed the MegaBall G2 with ease of installation in mind. We understand that the easier our cameras are to install the higher return on your investment. Whether it is a first time install or a maintenance call, the remote focus feature allows an installer to quickly focus a camera off-site. No more hassles with focus shift or manually focusing lenses from a ladder or bucket truck. In fact, this feature can save up to 10 minutes per camera compared to any conventional camera without remote focus.

Panomorph Lens Option

MegaBall G2 offers an optional close proximity panoramic view through the use of an ImmerVision Enables® panomorph lens and software system. Available with a 5MP sensor, the elliptical panomorph image is dewarped to provide 180° or 360° views with impressive resolution. In comparison, images from fisheye lenses lose more resolution when dewarped. MegaBall G2 with the panomorph system is an alternative to Arecont Vision SurroundVideo® 180° and 360° models when the camera will be mounted close to the subject.



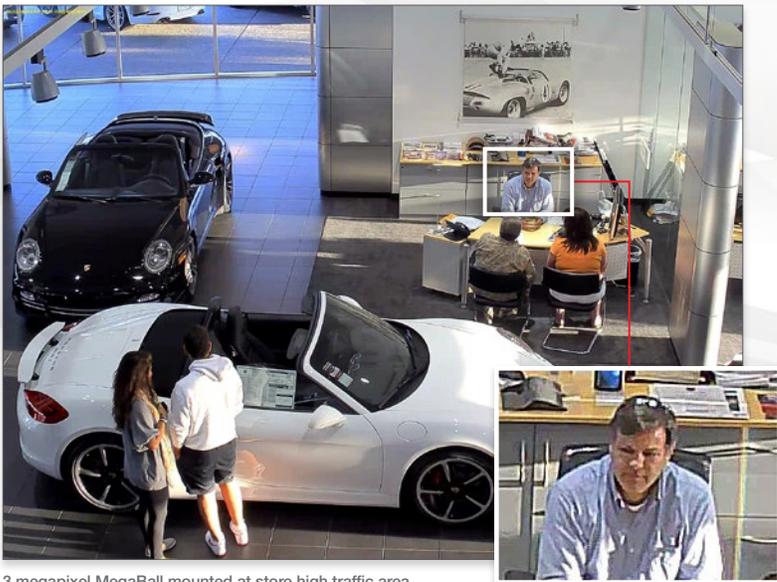
Original Fisheye Panomorph Image



Dewarped Panomorph Image

See Every Detail with Forensic Zooming

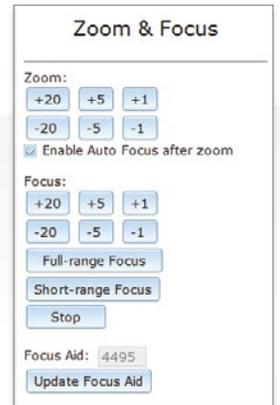
Arecont Vision megapixel cameras deliver outstanding resolution to capture every detail whether viewing live or recorded/archived video. With the ability to digitally Pan-Tilt-Zoom (PTZ) images, you can forensically zoom for license plate, face, and object details.



3 megapixel MegaBall mounted at store high traffic area.

P-Iris Control for Image Clarity

MegaBall G2 IP megapixel cameras feature a varifocal P-iris lens to ensure the best possible depth of field and image clarity for precise performance from the sensor. Short or full range focus scans analyze the local or full scene for an optimal focus position. The P-iris lens provides an automatic, precise iris control for applications with varying lighting conditions.



Features and Benefits

Features	Benefits
Ultra High Resolution 1.2-5MP Models	Covers a large area for identifying objects at a great distance. Offers the level of detail perfect for a detailed and effective retrospective analysis.
True Day/Night	Delivers color images during the day and automatically switches to monochrome mode when the illumination level drops.
Adjustable IR*	Manually Adjustable Infrared illuminator provides clear images in extreme low-light environments.
CorridorView™*	Allows the camera's image to be rotated 90 degrees to reduce capturing unnecessary data. This works great for narrow hallways where pixels are often wasted due to capturing the surrounding walls.
Privacy Masking	Protects areas for maintaining sensitive information.
Multi-Streaming	Provides eight non-identical streams for efficient viewing, recording, and integrating third-party video management systems.
ONVIF and PSIA conformance	Seamless integration with third-party products.
Motorized Remote Focus/Zoom*	Makes installation easier so the installer can accurately focus the camera remotely.
P-iris Control*	Optimizes the image for the best video clarity under different lighting conditions.
STELLAR™ Technology*	STELLAR Low Light Technology reduces motion blur, noise and storage requirements. The technology enhances contrast and produces color imaging in near complete darkness on 1.2MP models.
True Wide Dynamic Range*	Captures all the important details in a scene with both bright and dark areas.
Pixel Binning*	Provides strong low light performance.
Non-integer Scaling*	Provides the ability to scale images to different resolutions down to 128x96. This flexibility allows users to tailor their system for their specific need; reducing system bandwidth and storage costs.
Casino Mode*	Guarantees continuous 30fps frame rate required by gaming industry regulations on 1080p models.
MicroSD card slot for edge recording*	Provides an easy back-up or stand-alone solution for data storage.

* Select models

Adjustable IR

MegaBall® G2 IR models are integrated with an Adjustable Infrared Illuminator, providing clear images in extreme, low-light scenes. Infrared camera models offer the ability to manually adjust the IR's level of intensity, providing the flexibility to ensure the scene is illuminated uniformly. The integrated infrared LEDs provide a 15 m (50 ft) viewing distance in extreme, low-light scenes.

STELLAR™ Technology with Enhanced Low Light Performance

MegaBall G2 features a 1.2MP model with Spatio Temporal Low Light Architecture (STELLAR) technology, which allows for color imaging in near complete darkness. Arecont Vision® STELLAR technology utilizes a patented algorithm that reduces noise, motion blur, bit rate and storage requirements. Along with adaptive contrast enhancement, MegaBall G2 with STELLAR has superior low light sensitivity, making it capable of covering areas where very little light is present.



Color image without STELLAR at 0.02 Lux



Color image with STELLAR at 0.02 Lux

MegaDynamic® Wide Dynamic Range (WDR)



Megapixel image without WDR

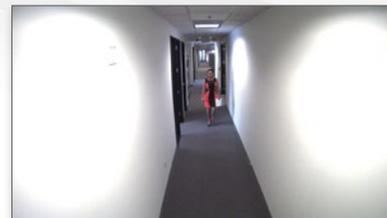


Megapixel image with WDR

Users can achieve clear images in extreme lighting conditions with MegaBall G2 WDR cameras in resolutions of 1080p and 3MP. Wide Dynamic Range up to 100dB at full resolution balances light and dark areas in the same scene, such as in the lobby of an office building with large windows, the loading dock at a distribution facility or many retail environments.

CorridorView™

With CorridorView, MegaBall G2 can rotate or flip pixels in 90° increments. This works great for narrow hallways where pixels are often wasted capturing the surrounding walls.



Standard view



CorridorView

Base Model Comparison



Model	Resolution		Minimum Illumination	Max Frame Rate @ Full Resolution	H.264/MJPEG	True Day/Night	P-Iris Compatible	STELLAR™	IR LEDs*	True WDR	Binning Mode	Casino Mode™	Panomorph
AV1245	1.2MP	1280 x 960	Color: 0.02 Lux B/W: 0.002 Lux, IR Sensitive	37fps	•	•	•	•	•				
AV2245	2.07MP	1920 x 1080	Color: 0.1 Lux B/W: 0 Lux, IR Sensitive	30fps	•	•	•	•				•	
AV2246	2.07MP	1920 x 1080	Color: 0.3 Lux B/W: 0 Lux, IR Sensitive	30fps	•	•	•	•	•				
AV3245	3MP	2048 x 1536	Color: 0.1 Lux Color Binning: 0.05 Lux B/W: 0 Lux, IR Sensitive	21fps	•	•	•	•			•		
AV3246	3MP	2048 x 1536	Color: 0.3 Lux Color Binning: 0.15 Lux B/W: 0 Lux, IR Sensitive	21fps	•	•	•	•	•	•	•		
AV5245	5MP	2592 x 1944	Color: 0.3 Lux Color Binning: 0.15 Lux B/W: 0 Lux, IR Sensitive	14fps	•	•	•	•			•		
AV5245DN	5MP	2592 x 1944	Color: 0.3 Lux Color Binning: 0.15 Lux B/W: 0 Lux, IR Sensitive	14fps	•	•	•	•			•		•

* PMIR models

Configuration



PM-B-LG



PMIR-B-LG



PM-D-LG¹



01-D-LG¹

¹ Can be configured as a surface mount or flush mount

² Works with MB2-JBA. Not compatible with AV-SPMJB or AV-SWMJB.

Accessories



AV-EBA²
Light gray electrical box adapter



AV-SPMJB
Light gray ceiling mount with 1/2" NPT standard



AV-SWMJB
Light gray wall mount with 1/2" NPT standard



MB2-JBA
Light gray junction box adapter for MegaBall G2 Bell Mount



Global Sales and Support

Arecont Vision is the leading manufacturer of high-performance megapixel IP cameras and associated software.

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