

MegaBall® 2

1.3–5MP H.264 All-in-One Manual Lens or Motorized P-Iris Lens Day/Night Indoor IP Cameras
(WDR option in 1080p and 3MP)

MegaBall® Cameras

1080p	1080p WDR	3Megapixel	3Megapixel WDR	5Megapixel
AV2245PM-D	AV2246PM-D	AV3245PM-D	AV3246PM-D	AV5245PM-D
AV2245PM-D-LG	AV2246PM-D-LG	AV3245PM-D-LG	AV3246PM-D-LG	AV5245PM-D-LG
AV2245PM-W	AV2246PM-W	AV3245PM-W	AV3246PM-W	AV5245PM-W



Stylish **MegaBall® 2** multi-megapixel cameras provide ample resolution to zoom-in for details in live or recorded video. These indoor all-in-one solutions integrate a 1080p, 3 or 5-megapixel camera with fast frame rates and an IR corrected motorized vari-focal P-iris lens with an adjustable wall mount or flush and surface mount dome housing. H.264 compression reduces network

bandwidth and storage requirements while delivering full frame rates and full resolution without sacrificing image quality. Day/Night functionality allows for 24-hour surveillance. Wide Dynamic Range (WDR) up to 100dB at full resolution balances light and dark areas in the same scene (AV2246 and AV3246). Binning mode for increased low-light sensitivity is available for 3MP and 5MP cameras.



Integrated Motorized Lens
with Remote Focus
and Zoom



P-Iris Control for
Best Depth of Field
and Image Clarity



All-in-One Ball
Solution



True Day/Night
with IR Cut Filter



Pixel Binning Mode
on 3 and 5MP Models



Wide Dynamic Range
Available on AV2246 and
AV3246 Models



Casino Mode™
Maintains at Least 30fps
on AV2245 Models



Dual Encoder
H.264/MJPEG

Features:

- Remote Focus/Zoom P-Iris Lens (-PM Models)
- P-Iris Control to Get Best Depth of Field and Image Clarity (-PM Models)
- Optional True WDR up to 100dB at Full Resolution Available on Some 1080p and 3MP Models: See Clearly in Shaded and Bright Light Conditions Simultaneously
- Light Gray and Black Dome Options
- Casino Mode™ Guarantees Continuous 30fps Frame Rate Required by Gaming Industry Regulations (AV2145 & 2245 Models)
- Binning Mode for Strong Low-Light Performance on 3MP and 5MP Resolutions
- True Day/Night Functionality with Mechanical IR Cut Filter (DN Models)
- Tamper-Resistant Housing
- Installer Friendly Cable Management, 3-Axis Adjustment, In-Ceiling and Surface Mount Dome
- PoE and Auxiliary Power: 12–48V DC/24V AC
- Dual Encoder H.264/MJPEG
- Privacy Mask, 1024 Zone, Motion Detection, Flexible Cropping, Bit Rate Control, Multi-Streaming and Forensic Zooming
- Fast Frame Rates
- PSIA Conformant
- New User-Friendly Webpage
- Reduced Overall System Cost
- Made in the USA



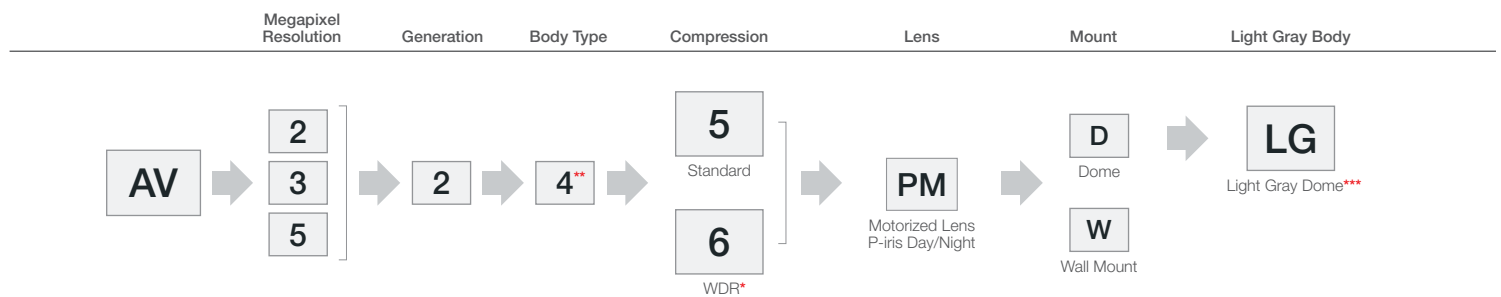
Model Specific Features

Model	Resolution	Frame Rate	Features		
AV2245	1080p	31fps	-	Casino Mode™	-
AV2246	1080p	30fps	WDR	-	-
AV3245	3MP	21fps	-	-	Binning
AV3246	3MP	21fps	WDR	-	Binning
AV5245	5MP	14fps	-	-	Binning

Build-to-Order Options

-W	Wall Mount Model
-D	Dome or Recessed Dome Model
-LG	Light Gray Dome

Create Your Model (Example: AV3246-PM-D-LG)



* WDR for AV2246 and AV3246 only.

** "4" Represents MegaBall product line—which are then defined by "W" or "D"

*** LG only available on Dome version

Camera Imaging Specifications

		WDR			WDR	
Model		AV2245	AV2246	AV3245	AV3246	AV5245
Image Sensor (CMOS)		1080p	1080p*	3MP*	3MP	5MP
Optical Format		1/2.7"	1/3.2"	1/2.5"	1/3.2"	1/2.5"
Pixel Pitch		3µm	2.2µm	2.2µm	2.2µm	2.2µm
Minimum Illumination	Color (day mode)	0.1 Lux	0.3 Lux	0.3 Lux	0.3 Lux	0.3 Lux
	Color Binning (day mode)	-	-	0.15 Lux	0.15 Lux	0.15 Lux
	B/W (night mode)	0 Lux, IR sensitive	0 Lux, IR sensitive	0 Lux, IR sensitive	0 Lux, IR sensitive	0 Lux, IR sensitive
Full FOV Resolution		1920 H x 1080 V	1920 H x 1080 V	2048 H x 1536 V	2048 H x 1536 V	2592 H x 1944 V
1/4 Resolution		960 H x 540 V	960 H x 540 V	1024 H x 768 V	1024 H x 768 V	1296 H x 972 V
Dynamic Range		69dB	WDR up to 100dB	70.1dB	WDR up to 100dB	70.1dB
Maximum SNR		45dB	49dB	45dB	49dB	45dB
Frame Rates	At Max Resolution	31fps (1920 x 1080)	30fps (1920 x 1080)	21fps (2048 x 1536)	21fps (2048 x 1536)	14fps (2592 x 1944)
	Cropped	42fps (1280 x 1024)	41fps (1280 x 1024)	29fps (1920 x 1080) 41fps (1280 x 1024)	30fps (1920 x 1080) 41fps (1280 x 1024)	21fps (2048 x 1536) 29fps (1920 x 1080) 41fps (1280 x 1024)
	Binning Mode	-	-	46fps (1024 x 768) 64fps (960 x 540)	21fps (1024 x 768) 27fps (800 x 600) 31fps (960 x 540) 32fps (640 x 512)	34fps (1296 x 972) 46fps (1024 x 768) 64fps (960 x 540)
Lens	Motorized Lens	3-10mm, 1/2.7", F1.3 RZ, RF, P-iris H-FOV = 117°-36°	3-10mm, 1/2.7", F1.3 RZ, RF, P-iris H-FOV = 81°-26°	3-10mm, 1/2.7", F1.3 RZ, RF, P-iris H-FOV = 86°-28°	3-10mm, 1/2.7", F1.3 RZ, RF, P-iris H-FOV = 86°-28°	3.4-10mm, 1/2.5", F1.4 RZ, RF, P-iris H-FOV = 102°-35°

*effective

Data Transmission	Compression Type	H.264 (MPEG-4, Part 10)/Motion JPEG
		21 levels of quality
	Transmission Protocols	RTSP, RTP/TCP, RTP/UDP, HTTP, DHCP, TFTP
		100Base-T Ethernet Network Interface
	Multi-Streaming	8 non-identical streams

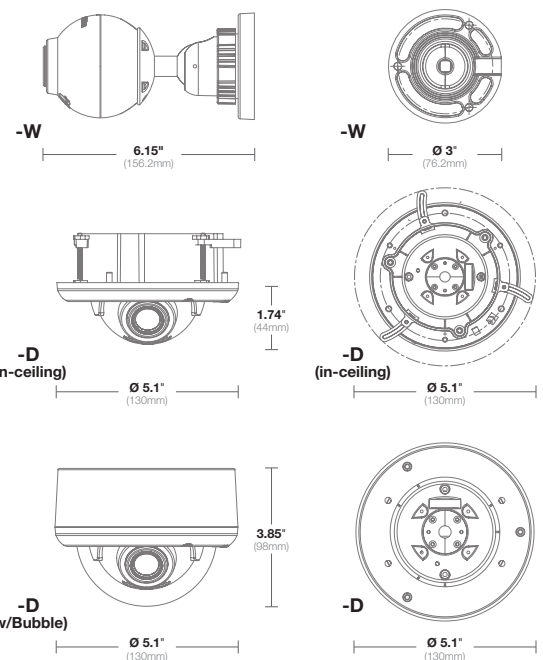
Programmability	Remote focus, remote zoom and P-iris control
	Motion Detection and privacy mask with 1024 detection zones
	Auto adjustment between WDR and LDR modes (WDR models only)
	Programmable shutter speed to help control motion blur
	Pixel Binning Mode (3MP and 5MP)
	Casino Mode™ maintains 30fps (AV2245 model)
	Flexible Cropping (resolution windowing down to 1x1 pixel for JPEG and 2x2 pixels for H.264)
	Low light noise filter control
	Bit rate and bandwidth limitation control
	Backlight compensation and multi-matrix white balance
	50/60Hz selectable flicker control
	Electronic pan, tilt, zoom (PTZ) and image flip 180°
	Programmable resolution, brightness, saturation, gamma, sharpness, tint

Compliance	Industry Standard	PSIA Conformant
	Listings	UL (CB)
	FCC Compliance	47 CFR 15 Class A
	Environmental	RoHS, REACH, WEEE
	Markings	(CE) EN55022 Class A, EN55024, EN61000-3-2, EN61000-3-3, EN60950

Environmental	Operating temperature	-5°C (-23°F) to +50°C (122°F)
	Humidity	0% to 90% (non-condensing)
	Stable image temperature	0°C (32°F) to +50°C (122°F)
	Storage temperature	-20°C (-4°F) to +60°C (140°F)

General Electrical	Alarm Input/Output	General purpose opto-coupled
	Power Over Ethernet	PoE 802.3af, Class 2
	Auxiliary Power	12–48V DC, 24V AC
	Max Power Consumption	AV2245 5.9 Watts DC Power
		AV3245 / AV5245 6.3 Watts DC Power
		AV2246 / AV3246 6.8 Watts DC Power

Mechanical	Casing	-W	Die-cast aluminum 3" metal ball and mount	
		-D	Plastic surface/in-ceiling dome w/ Acrylic bubble	
	Gimbal		Easy 3-axis camera adjustment w/360° pan, 90° tilt and 360° z-axis	
	Dimensions	-W	Ø 3" (76.2mm) x 6.15" H (156.2mm)	
		-D (in-ceiling)	Ø 5.1" (130mm) x 1.74" H (44mm)	
		-D (surface mount w/ bubble)	Ø 5.1" (130mm) x 3.85" H (98mm)	
			Camera Unit	Packaged
	Weight	-W	1.2lbs (0.54kg)	2.0lbs (0.9kg)
		-D	1.2lbs (0.54kg)	1.9lbs (0.86kg)
	Dome Color	-LG	Light Gray Dome	



Accessories	D4S-WMT-B	Black wall mount with 3/4" NPT standard
	D4S-CMT-B	Black ceiling mount with 3/4" NPT standard
	D4S-WMT	Light Gray Wall mount with 3/4" NPT standard
	D4S-CMT	Light Gray Ceiling mount with 3/4" NPT standard
	SV-EBA	Light Gray Electrical box adapter
	SV-JBA	Light Gray Junction box adapter