

MegaDome® 2

H.264 All-in-One Motorized P-Iris Lens Day/Night IR Indoor/Outdoor Dome IP Cameras with Optional Wide Dynamic Range (WDR)

Camera Models

1.3 Megapixel	1080p	1080p WDR	3 Megapixel	3 Megapixel WDR	5 Megapixel	10 Megapixel
AV1255AM	AV2255AM	AV2256PM	AV3255AM	AV3256PM	AV5255AM	AV10255AMIR
AV1255AM-H	AV2255AM-A	AV2256PMIR	AV3255AM-H	AV3256PM-A	AV5255AM-A	AV10255AMIR-H
AV1255AMIR	AV2255AM-H	AV2256PMTIR	AV3255AMIR	AV3256PMIR	AV5255AM-H	AV10255PMTIR-H
AV1255AMIR-H	AV2255AM-AH	AV2256DN	AV3255AMIR-H	AV3256PMIR-A	AV5255AM-AH	
AV1255DN	AV2255AMIR		AV3255PMTIR-H	AV3256PMTIR	AV5255AMIR	
AV1255DN-H	AV2255AMIR-A		AV3255DN	AV3256DN	AV5255AMIR-A	
	AV2255AMIR-H		AV3255DN-H		AV5255AMIR-H	
	AV2255AMIR-AH				AV5255AMIR-AH	
	AV2255PMTIR-H				AV5255PMTIR-H	
	AV2255DN				AV5255DN	
	AV2255DN-H				AV5255DN-H	



MegaDome® 2 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 1.3-, 1080p, 3-, 5- or 10-megapixel (MP) camera with fast frame rates and an IR corrected motorized wide angle or telephoto vari-focal lens into an IP66 environmental rated and IK-10 impact-resistant dome housing. Remote focus and remote zoom make MegaDome® 2 easy to install and manage. MegaDome® 2 cameras are also available in manual lens models.

Integrated Motorized Lens with Remote Focus and Zoom (AM/PM Version)

P-Iris Control for Best Depth of Field and Image Clarity (PM Models)

Wide Angle or Telephoto Lens Option

All-in-One Dome Solution

True Day/Night with IR Cut Filter

Impact / Weather Resistant IK-10 and IP66 Rated

Audio Input/Output (-A Models)

10MP 80P
Dual Mode: 1080p/10MP on 10MP Models

Pixel Binning Mode on 3, 5, and 10MP Models

IR LEDs (IR Models)

WDR
Wide Dynamic Range Available on Some 1080p and 3MP Models

Heater Option on Non-WDR Models

Casino Mode™ Maintains at Least 30fps on AV2255 Models

Dual Encoder H.264/MJPEG

Features:

- Remote Focus/Zoom Motorized Auto-Iris or P-Iris Lens (AM/PM Models)
- P-Iris Control to Get Best Depth of Field and Image Clarity (PM Models)
- Wide Angle or Telephoto Lens Options
- 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
- Optional Audio, IR LEDs and Heater (No Heater Required for WDR Models)
- Casino Mode™ Guarantees Continuous 30fps Frame Rate Required by Gaming Industry Regulations (AV2255 Models)
- Binning Mode for Strong Low Light Performance on 3MP, 5MP and 10MP Resolutions
- True Day/Night Functionality with Mechanical IR Cut Filter and Optional IR LEDs
- Outdoor Rated IP66 and IK-10 Impact-Resistant Housing
- Total PoE Solution (No External Power Required for Heater and IR LEDs)
- PoE and Auxiliary Power: 12–48V DC/24V AC
- Easily Adjustable 3-Axis Gimbal
- Dual Encoder H.264/MJPEG
- Privacy Mask, 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	
AV1255	1.3MP	42fps		
AV2255	1080p	31fps	Casino Mode™	
AV2256	1080p	30fps	WDR	
AV3255	3MP	21fps		Binning
AV3256	3MP	21fps	WDR	Binning
AV5255	5MP	14fps		Binning
AV10255	10MP	7fps		Binning

Options

Option	Description
AM	Remote Focus/Zoom, Auto-Iris, Day/Night
PM	Wide Angle Lens w/ Remote Focus/Zoom, P-Iris, Day/Night
PMT	Telephoto Lens w/ Remote Focus/Zoom, P-Iris, Day/Night
DN	Manual Lens, Day/Night
IR	IR LEDs
-H	Heater (Non-WDR Models Only)
-A	Audio



Camera Imaging Specifications

		WDR			WDR			
Model		AV1255	AV2255	AV2256	AV3255	AV3256	AV5255	AV10255
Image Sensor (CMOS)		1.3MP*	1080p	1080p*	3MP*	3MP	5MP	10MP
Optical Format		1/2.7"	1/2.7"	1/3.2"	1/2.5"	1/3.2"	1/2.5"	1/2.3"
Pixel Pitch		3µm	3µm	2.2µm	2.2µm	2.2µm	2.2µm	1.67µm
Minimum Illumination	Color (Day Mode)	0.1 Lux	0.1 Lux	0.3 Lux	0.3 Lux	0.3 Lux	0.3 Lux	0.42 Lux
	Color Binning (Day Mode)	-	-	-	0.15 Lux	0.15 Lux	0.15 Lux	0.21 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	0 Lux, IR sensitive	0 Lux, IR sensitive
Full FOV Resolution		1280 H x 1024 V	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	3648 H x 2752 V
1/4 Resolution		640 H x 512 V	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	1824 H x 1376 V
Dynamic Range		69 dB	69 dB	WDR up to 100dB	70.1 dB	WDR up to 100dB	70.1 dB	57.2dB
Maximum SNR		45 dB	45 dB	49 dB	45 dB	49 dB	45 dB	40 dB
Frame Rates	At Max Resolution	42fps (1280x1024)	31fps (1920x1080)	30fps (1920x1080)	21fps (2048x1536)	21fps (2048x1536)	14fps (2592x1944)	7fps (3648x2752)
	Cropped	-	42fps (1280x1024)	41fps (1280x1024)	29fps (1920x1080) 41fps (1280x1024)	30fps (1920x1080) 31fps (1600x1200) 41fps (1280x1024)	21fps (2048x1536) 29fps (1920x1080) 41fps (1280x1024)	12fps (2592x1944) 18fps (2048x1536) 25fps (1920x1080) 37fps (1280x1024)
	Binning Mode	-	-	-	46fps (1024x768) 64fps (960x540)	21fps (1024x768) 27fps (800x600) 31fps (960x540) 32fps (640x512)	34fps (1296x972) 46fps (1024x768) 64fps (960x540)	29fps (1920x1080) 26fps (1824x1376) 43fps (1296x972) 54fps (1024x768)
Lens	Wide Angle Motorized (AM/PM/PMIR Models)	3-9mm, 1/2.7", F1.2, RZ, RF, Auto-iris H-FOV = 77°-25°	3-9mm, 1/2.7", F1.2, RZ, RF, Auto-iris H-FOV = 115°-37°	3-9mm, 1/2.7", F1.2, RZ, RF, P-Iris lens H-FOV = 82°-27°	3.6-9mm, 1/2.5", F1.8, RZ, RF, Auto-iris H-FOV = 76°-28°	3-9mm, 1/2.7", F1.2, RZ, RF, P-Iris lens H-FOV = 87°-29°	3.6-9mm, 1/2.5", F1.8, RZ, RF, Auto-iris H-FOV = 96°-36°	4.7-9mm, 1/2.3", F2.8, RZ, RF, Auto-iris H-FOV = 78.8°-37°
	Telephoto Motorized (PMTIR Models)	-	8-22mm, 1/2.7", F1.6, RZ, RF, P-Iris, Telephoto, H-FOV = 42°-16°	8-22mm, 1/2.7", F1.6, RZ, RF, P-Iris, Telephoto, H-FOV = 30°-12°	8-22mm, 1/2.7", F1.6, RZ, RF, P-Iris, Telephoto, H-FOV = 29°-12°	8-22mm, 1/2.7", F1.6, RZ, RF, P-Iris, Telephoto, H-FOV = 32°-12°	9-22mm, 1/2.5", F2.0, RZ, RF, P-Iris, Telephoto, H-FOV = 38°-16°	12-22mm, 1/2.3", F2.2, RZ, RF, P-Iris, Telephoto, H-FOV = 30°-17°
	Manual Lens (DN Models)	3.3-10.5mm, 1/2.5", F1.6, H-FOV = 62°-24°	3.3-10.5mm, 1/2.5", F1.6, H-FOV = 93°-36°	3.3-10.5mm, 1/2.5", F1.6, H-FOV = 68°-26°	3.3-10.5mm, 1/2.5", F1.6, H-FOV = 73°-28°	3.3-10.5mm, 1/2.5", F1.6, H-FOV = 72°-28°	3.3-10.5mm, 1/2.5", F1.6, H-FOV = 92°-36°	-

* 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 auto-iris or P-iris (AM or PM models)
	Motion detection and privacy mask with up to 1024 detection zones
	Auto adjustment between WDR and LDR modes (WDR models Only)
	Programmable shutter speed to help control motion blur
	Pixel Binning Mode (3, 5 and 10MP)
	Casino Mode™ maintains 30fps (AV2255 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, EN60950-1
	Mechanical	IK-10 (EN62262), IP66 (EN60529)

Environmental	Operating temperature	-40°C (-40°F) to +50°C (122°F) w/ Heater or WDR Models w/o Heater -20°C (-4°F) to +50°C (122°F) w/o Heater
	Humidity	0% to 90% (non-condensing)
	Stable image temperature	0°C (32°F) to +50°C (122°F)
	Storage temperature	-40°C (-40°F) to +60°C (140°F)

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 (Watts DC Power)

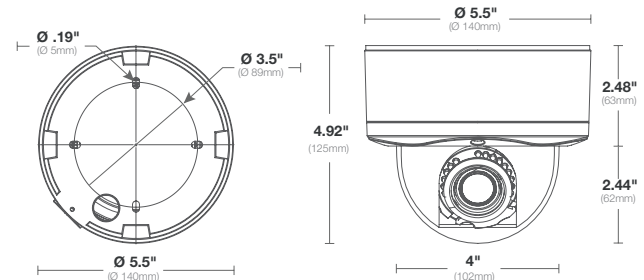
	DN	AM / PM	AMIR / PMIR	PMTIR	DN-H	AM-H	AMIR-H	PMTIR-H
AV1255/AV2255	6.1	9.7	11.6	-	10.2	10.2	12.3	14.5
AV2256/AV3256	6.6	10.1	12.1	14.2	-	-	-	-
AV3255/AV5255	6.1	9.7	11.9	-	10.3	10.3	12.4	14.4
AV10255	-	-	11.6	-	-	-	12.3	13.8

IR Illuminator (IR Models)	AMIR/PMIR	24 pcs 850nm LEDs / 50ft (15m) IR distance (max) / 40° IR angle
	PMTIR	24 pcs 850nm LEDs / 120ft (36m) IR distance (max) / 30° IR angle
	Total PoE Solution (No external power requirement)	

Audio Electrical (-A and -AH Models)	Streaming	Two-way
	Compression	G.711 PCM 8 kHz
	Input/output	Microphone in or line in / line output

Heater Electrical (-H and -AH Models)	Power Consumption	2.28 W Max
	Switch	On: 4°C (32.9°F), Off: 6.5°C (43.7°F)
	Total PoE Solution (No external power requirement)	

Mechanical	Casing	Die-cast aluminum chassis with 4" polycarbonate dome bubble IP66 weather proof standard Impact resistant, IK-10 rated	
	Gimbal	Easily adjustable 3-axis camera gimbal w/360° pan, 90° tilt and 360° z-axis	
	Total Unit	Unit Ø 5.5" (140mm) x 4.9" H (125mm)	
	Dimensions	Packaged 8" W (203mm) x 7.5" L (190mm) x 6" H (152mm)	
	Weight	Unit	2.25 lbs (1.02kg)
		Packaged	2.85 lbs (1.27kg)



Accessories	SV-JBA	Junction Box Adapter
	SV-EBA	Electrical Box Adapter
	MD-PMA	Pole Mount Adapter
	MD-CRMA	Corner Mount Adapter
	MD-WMT2	Wall Mount (Fit 1.5" NPT)
	MD-CMT	Ceiling Mount (Fit 1.5" NPT)
	MD-FMA	Flush Mount Adapter
	MD-CAP	Wall Mount Cap Only w/ 1.5" NPT