

MegaDome® 2

H.264 All-in-One Motorized P-Iris Lens Day/Night IR Indoor/Outdoor Dome IP Cameras with WDR Options

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-H	AV2256PMIR	AV3255AM-H	AV3256PMIR	AV5255AM-H	AV10255AMIR-H
AV1255AMIR	AV2255AM-A	AV2256DN	AV3255AMIR	AV3256PM-A	AV5255AM-A	AV10255PMTIR
AV1255AMIR-H	AV2255AM-AH	AV2256PMTIR	AV3255AMIR-H	AV3256PMIR-A	AV5255AM-AH	AV10255PMTIR-H
AV1255DN	AV2255AMIR		AV3255DN	AV3256DN	AV5255AMIR	
AV1255DN-H	AV2255AMIR-H		AV3255DN-H	AV3256PMTIR	AV5255AMIR-H	
	AV2255AMIR-A		AV3255PMTIR		AV5255AMIR-A	
	AV2255AMIR-AH		AV3255PMTIR-H		AV5255AMIR-AH	
	AV2255PMTIR				AV5255DN	
	AV2255PMTIR-H				AV5255DN-H	
	AV2255DN				AV5255PMTIR	
	AV2255DN-H				AV5255PMTIR-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 the fastest frame rates in the industry and an IR corrected motorized wide angle or telephoto vari-focal lens (auto-iris/P-iris with WDR) into an IP66 environmental rated and IK-10 impact resistant dome housing. Remote focus and remote zoom make MegaDome 2 the easiest to install cameras in our product line. MegaDome 2 are also available in manual lens models.

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

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

Wide Angle or Telephoto Lens
Options

All-in-One Dome Solution

True Day/Night
with IR Cut Filter

Vandal and Weather Proof
IK-10 and IP66 Rated

Audio Input/Output
(-A Models)

10MP
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 AV2256 and AV3256 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 IR LEDs (DN Models)
- Outdoor Rated IP66 and IK-10 Vandal-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, 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	
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

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	0.42 Lux	
	Color Binning (Day Mode)	-	-	-	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	
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, Auto-iris, 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
	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)

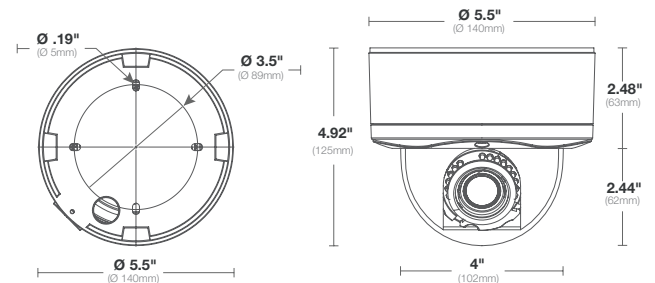
	DN	DN-H	AM/PM	AMIR/PMIR	AM-H/PM-H AMIR-H/PMIR-H
AV1255/AV2255	6.1	10.2	9.7	11.6	12.3
AV2256/AV3256	6.6	-	10.1	12.1	-
AV3255/AV5255	6.1	10.3	9.7	11.9	12.4
AV10255	-	-	-	11.6	12.3

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

IR Illuminator (-IR models only)	24 pcs 850nm LEDs / 15 meter IR distance (max) / 40° IR angle
	No external power required

Heater Electrical (-H models only) (Non-WDR models only)	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 Vandal 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)



Accessory	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