

MegaDome® 2

All-in-One Indoor/Outdoor Day/Night Dome Camera with Remote Focus/Zoom Lens or Manual Lens Options

MegaDome®2 Cameras

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	
AV1255AMIR-H	AV2255AM-AH		AV3255AMIR-H	AV3256PMIR-A	AV5255AM-AH	
AV1255DN	AV2255AMIR		AV3255DN	AV3256DN	AV5255AMIR	
AV1255DN-H	AV2255AMIR-H		AV3255DN-H		AV5255AMIR-H	
	AV2255AMIR-A				AV5255AMIR-A	
	AV2255AMIR-AH				AV5255AMIR-AH	
	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 the fastest frame rates in the industry and an IR corrected motorized vari-focal lens (auto-iris/P-iris with WDR) into an IP66 environmental rated / IK10 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.

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

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

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/80P

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

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

IR LEDs (IR Models)

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:

- All-in-One H.264 Dome Solution
- Optional True WDR up to 100dB at Full Resolution: See Clearly in Shaded and Bright Light Conditions Simultaneously (AV2256 and AV3256)
- Manual or Motorized Lens Options
- Remote Focus/Zoom with Auto-Iris or P-Iris Lens (AM/PM Models)
- P-Iris Control to Get Best Depth of Field and Image Clarity (PM Models)
- IP66 and IK-10 Vandal-Resistant Dome
- Total PoE Solution (No External Power Required for Heater and IR LEDs)
- True Day/Night Functionality with Mechanical IR Cut Filter
- ONVIF and PSIA Conformant
- New User-Friendly Webpage
- Easily Adjustable 3-Axis Gimbal
- Dual Encoder H.264/MJPEG
- Optional Audio, IR LEDs and Heater (No Heater Required for WDR Models)
- Casino Mode™ to Maintain 30fps or Better (AV2255 Models)
- Binning Mode for Strong Low-Light Performance on 3MP, 5MP and 10MP Resolutions
- Privacy Mask, Motion Detection, Flexible Cropping and Forensic Zooming

Model Specific Features

Model	Resolution	Frame Rate	Features			
AV1255	1.3MP	42fps	Auto-Iris			
AV2255	1080p	31fps	Auto-Iris		Casino Mode™	
AV2256	1080p	30fps	P-Iris	WDR		
AV3255	3MP	21fps	Auto-Iris			Binning
AV3256	3MP	21fps	P-Iris	WDR		Binning
AV5255	5MP	14fps	Auto-Iris			Binning
AV10255	10MP	7fps	Auto-Iris			Binning

Options

AM	Remote Focus, Remote Zoom, Auto-iris, Day/Night
PM	Remote Focus, Remote Zoom, P-iris, Day/Night
DN	Manual Lens, Day/Night
IR	IR LEDs, Day/Night
-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*	2.07(1080p)	2.07(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 MegaDome 2	Motorized Lens (AM/PM)	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°
Lens MegaDome 2 Manual	Manual Lens (DN)	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	ONVIF and 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 -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	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

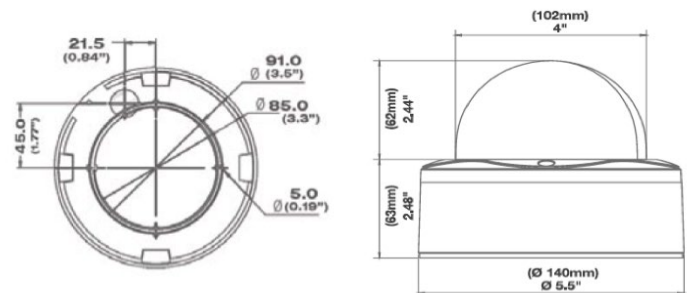
Heater Electrical

(-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)
	Unit 2.25 lbs (1.02kg)
Weight	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