

Leading the Way in Megapixel Video™

## MicroDome® IP Megapixel Cameras

H.264 All-in-One Ultra Low Profile True Day/Night Indoor or Indoor/Outdoor Dome IP Cameras with WDR (Wide Dynamic Range) Models



Made in the USA

## MicroDome® IP Megapixel Cameras

## **Camera Imaging Specifications**

Model		AV1455DN	AV2455DN	AV2456DN	AV3455DN	AV3456DN	AV5455DN
Image Sensor (CMOS)		1.3MP	1080p	1080p 1080p 3M		3MP	5MP
Optical Format		1/2.7"	1/2.7" 1/3.2"		1/2.5"	1/3.2"	1/2.5"
Pixel Pitch		3µm	3μm 2.2μm		2.2µm	2.2µm	2.2µm
Minimum	Color	0.1 Lux	0.1 Lux	0.3 Lux	0.3 Lux	0.5 Lux	0.5 Lux
Illumination	Color Binning	-	-	-	0.15 Lux	0.15 Lux	0.15 Lux
	Day/Night	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
1/4 Resolution		640 H x 512 V	960 H x 540 V	960 H x 540 V 960 H x 540 V 1024 H x 76		1024 H x 768 V	1296 H x 972 V
Dynamic Range		69dB	69dB	WDR up to 100dB 70.1dB		WDR up to 100dB	70.1dB
Lens*		4mm Integrated, 1/2.5", F/1.6, H-FOV = 53°	4mm Integrated, 1/2.5", F/1.6, H-FOV = 81°	4mm Integrated, 1/2.5", F/1.6, H-FOV = 59°	4mm Integrated, 1/2.5", F/1.6, H-FOV = 63°	4mm Integrated, 1/2.5", F/1.6, H-FOV = 63°	4mm Integrated, 1/2.5", F/1.6, H-FOV = 80°
Frame Rates At Max Res.		42fps (1280 x 1024)	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)

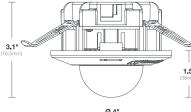
Data	Compression Type	H.264 (MPEG-4, Part 10)/Motion JPEG	Mechan
Transmission		21 levels of quality	
	Transmission Protocols	RTSP, RTP/TCP, RTP/UDP, HTTP, TFTP, DHCP	
	Data Rate	Bit rate control from 100Kbps-10Mbps	
		100Base-T Ethernet Network Interface	
	Multi-Streaming	8 non-identical streams	

Programmability	Motion Detection and privacy mask with 1024 detection zones				
riogrammability	Shutter Speed: 1ms – 500ms				
	Pixel Binning Mode (3MP and 5MP models)				
	Auto adjust between WDR and LDR modes (WDR models)				
	Casino Mode <sup>™</sup> maintains 30fps (AV2455 model)				
	MoonLight <sup>™</sup> Mode: extended exposure and proprietary noise cancellation				
	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 $180^\circ$				
	Programmable resolution, brightness, saturation, gamma, sharpness, tint				

Compliance	Industry Standard	ONVIF Profile S 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 (-S Model)	IP66 (EN60529)			
Environmental	Operating Temperature	-F Model	-5°C (23°F) to +50°C (122°F)		
		-S Model	-40°C (-40°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)		
Electrical	Input/Output	General purpose opto-coupled		
	Power Over Ethernet	PoE 802.3af, Class 3		
	Max Power Consumption	5.59 Watts		

Casing	IK-10 Impact-resistant and tamper-resistant housing				
	-F Model	In-ceiling mount with die-cast aluminum cover and 2" polycarbonate dome bubble			
	-S Model	Surface mount with die-cast aluminum housing and 2" polycarbonate dome bubble			
		IP66 weather proof standard			
		3/8" NPT w/ 1/2" NPT Adapter included			
Lens*	4mm board r	nount (M12), fixed iris, F/1.6			
Gimbal	Easy 2 axis c	camera adjustment w/ 359° pan and 90° tilt			
Dimensions	Ø 4" (100mm	I) x 3.1" H (78.5mm)			
Weight	Unit	0.7lbs (0.3kg)			
	Packaged	1.3lbs (0.6kg)			
	Lens* Gimbal Dimensions	Lens* 4mm board r Gimbal Easy 2 axis c Dimensions Ø 4" (100mm Weight Unit			



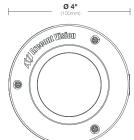
-F



-S







Ø 2" (52mm) \_\_\_\_

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Lens Options								
Focal Length		2.8mm	4mm	6mm	8mm	12mm	16mm	
Horiz.	1.3MP	75	53	36	28	18	13	
FOV	1080p	114	81	56	42	28	20	
	1080p WDR	83	59	40	30	20	15	
	3MP	89	63	43	33	22	16	
	3MP WDR	89	63	43	33	22	16	
	5MP	113	80	55	40	28	20	
Option	Option		Standard*	Ordered Separately	Ordered Separately	Ordered Separately	Ordered Separately	
Part Nu	Part Number		MPM4.0A	MPM6.0	MPM8.0	MPM12.0A	MPM16.0	

\* Except for -NL Models

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