

# MegaVideo® D4 IP Megapixel Cameras

1.3, 1080p, 3, and 5 Megapixel (MP) H.264 True Day/Night Indoor Box-Style Compact IP Cameras Inside an Indoor/Outdoor Surface Mounted Dome Housing with SNAPstream™ (Smart Noise Adaptation and Processing) and WDR (Wide Dynamic Range) Models



MegaVideo® D4 series multi-megapixel cameras provide ample resolution to zoom-in for details in live or recorded video. These all-in-one dome camera solutions consist of a MegaVideo Compact box camera, at 1.3- 1080p, 3-, or 5-megapixel resolution, inside a D4SO dome housing with an integrated

Arecont Vision® MPL33-12A lens. All MegaVideo D4 series cameras feature True Day/Night, SNAPstream (Smart Noise Adaptation and Processing), and CorridorView™. Wide Dynamic Range is available on select 1080p and 3MP models and Casino Mode™ is available on select 1080p models.



## Series Features

- 1.3, 1080p, 3, or 5MP Models
- Integrated 3.3–12mm Vari-Focal Lens (Accepts Additional Lenses)
- SNAPstream™ Capability to Reduce Bandwidth without Impacting Image Quality
- True WDR up to 100dB at Full Resolution Available on Select 1080p and 3MP Models
- True Day/Night Functionality with Mechanical IR Cut Filter
- Binning Mode for Strong Low Light Performance on 3MP and 5MP Models
- Casino Mode™ Guarantees Continuous 30fps Frame Rate Required by Gaming Industry Regulations (Select 1080p Models)
- CorridorView™ Allows 90° Image Rotation for Better Coverage in Hallways and Corridors
- Privacy Mask, Motion Detection, Flexible Cropping, Bit Rate Control, Multi-Streaming, Multicasting, and Forensic Zooming
- Dual Encoder H.264/MJPEG
- Network Protocols Include 802.1x, DHCP, QoS, IPv6, and More
- All-in-One PoE and Auxiliary Power: 12–48V DC/24V AC
- Outdoor Rated IP66 and IK-10 Impact-Resistant Housing
- Easily Adjustable 2-Axis Gimbal

## All-in-One Solution



Camera Imaging Specifications

Model	AV1115	AV2115	AV2116	AV3115	AV3116	AV5115	
Image Sensor	1.3MP*	1080p	1080p*	3MP*	3MP	5MP	
Day/Night	True Day/Night with automatic removable IR cut filter						
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 Illumination	Color (Day Mode)	0.1 Lux	0.1 Lux	0.2 Lux	0.3 Lux	0.3 Lux	
	Color Binning (Day Mode)	-	-	-	0.15 Lux	0.15 Lux	
	B/W (Night Mode)	0.01 Lux, IR sensitive	0.01 Lux, IR sensitive	0.02 Lux, IR sensitive	0.03 Lux, IR sensitive	0.02 Lux, IR sensitive	0.03 Lux, IR sensitive
Full FOV Resolution	1280 H x 960 V	1920 H x 1080 V	1920 H x 1080 V	2048 H x 1536 V	2048 H x 1536 V	2560 H x 1920 V	
1/4 Resolution	640 H x 480 V	960 H x 540 V	960 H x 540 V	1024 H x 768 V	1024 H x 768 V	1280 H x 960 V	
Dynamic Range	69dB	69dB	WDR up to 100dB	70.1dB	WDR up to 100dB	70.1dB	
Maximum SNR	45dB	45dB	49dB	45dB	49dB	45dB	
Frame Rates†	At Max Resolution	42fps (1280x960)	30fps (1920x1080)	30fps (1920x1080)	21fps (2048x1536)	21fps (2048x1536)	14fps (2560x1920)
	Cropped	-	42fps (1280x1024)	30fps (1280x1024)	30fps (1920x1080) 41fps (1280x1024)	30fps (1920x1080) 30fps (1280x1024)	21fps (2048x1536) 29fps (1920x1080) 41fps (1280x1024)
	Binning Mode	-	-	-	46fps (1024x768) 64fps (960x540)	21fps (1024x768) 21fps (800x600) 21fps (960x540) 21fps (640x512)	34fps (1296x972) 46fps (1024x768) 64fps (960x540)
Lens	Model	MPL33-12A 3.3–12mm, 1/2.5", F1.4, CS-mount					
	H-FOV	64°–22°	98°–32°	68°–26°	75°–25°	75°–25°	95°–32°

\* Effective † Maximum with H.264 compression

Programmability

Low Light Performance	Pixel Binning Mode	3 and 5MP models
Picture-in-Picture	Simultaneous delivery of full field-of-view and zoomed images	
Programmable Shutter Speed	Controls motion blur, 1ms–500ms	
Motion Detection	Real-time, 1024 detection zones	
Privacy Masking	Unlimited	
Casino Mode™	Maintains 30fps or higher (AV2115 model)	
MoonLight™ Mode	Extended exposure and noise cancellation	
Flexible Cropping	Resolution windowing down to 1x1 pixel for JPEG and 2x2 pixels for H.264	
Backlight Compensation	Auto multi-matrix white balance	
Flicker Control	5Hz–255Hz adjustable	
Image Rotation	180° image flip or CorridorView™ (90°, 180° and 270° image rotation)	
Wide Dynamic Range	Auto adjustment between WDR and LDR modes (WDR models only)	
Noise Reduction	Low light noise filter control	
Efficiency	SNAPstream™ (Smart Noise Adaptation and Processing)	
	Bit rate and bandwidth limitation control	
	Bandwidth and storage savings by running at 1/4 resolution	
Sharpness	Selectable enhancement level	
Miscellaneous	Programmable resolution, brightness, saturation, gamma, tint	
	Electronic pan, tilt, zoom (PTZ)	

Data Transmission

Compression Type	H.264 (MPEG-4, Part 10) / Motion JPEG	
	21 levels of quality	
Network Protocols	RTSP, RTP/TCP, RTP/UDP, HTTP, DHCP, TFTP, QoS, IPv4, IPv6, 802.1x	
Network Interface	100Base-T Ethernet	
Multi-Streaming	1.3–5MP Models	8 non-identical streams

Compliance

Industry Standard	ONVIF Profile S
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
CoO	Made in the USA

Environmental

Operating temperature	-5°C (23°F) to +40°C (104°F)
Humidity	0% to 90% (non-condensing)
Storage temperature	-20°C (-4°F) to +60°C (140°F)

Electrical

<b>Alarm Input/Output</b>	1 input/1 output
<b>Power Over Ethernet</b>	PoE 802.3af, Class 3
<b>Auxiliary Power</b>	12-48V DC, 24V AC

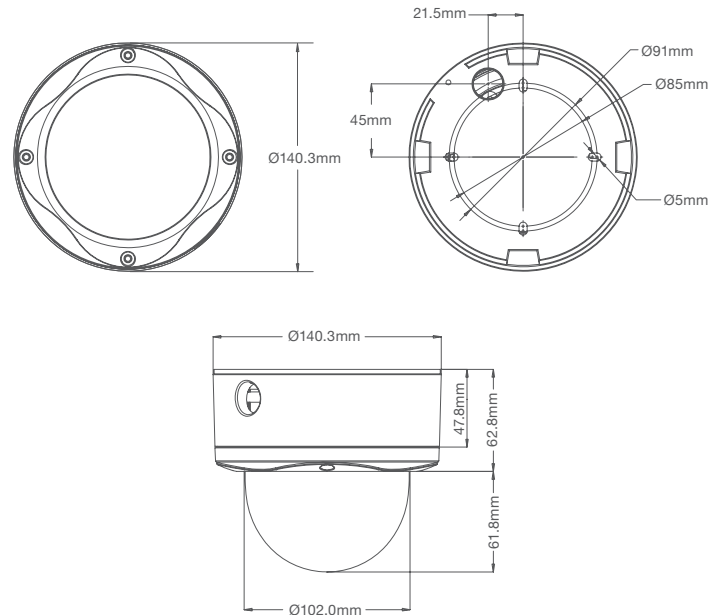
Max Power Consumption (Watts DC Power)

Model	Watts (Includes lens)
AV1115 / AV2115	5.0W
AV2116 / AV3116	6.0W
AV3115 / AV5115	5.3W

Mechanical

<b>Casing</b>	Die-cast aluminum chassis	
	Polycarbonate Dome	
<b>Dimensions</b> <i>(See Dimensions)</i>	<b>Unit</b>	Ø 5.5" (140.3mm) x 4.9" H (124.6mm)
	<b>Packaged</b>	8" W (203mm) x 7.5" L (190mm) x 6" H (152mm)
<b>Weight</b>	<b>Unit</b>	2.0lbs (0.91kg) w/o camera      2.4lbs (1.09kg) w/ camera
	<b>Packaged</b>	3.1lbs (1.406kg)

Dimensions



See Next Page for Ordering Information

# Ordering Information



## Configuration



## Model Specific Features

Model	Resolution	Frame Rate <sup>†</sup>	Features		
AV1115	1.3MP	42fps	-	-	-
AV2115	1080p	30fps	-	Casino Mode™	-
AV2116	1080p	30fps	WDR	-	-
AV3115	3MP	21fps	-	-	Binning
AV3116	3MP	21fps	WDR	-	Binning
AV5115	5MP	14fps	-	-	Binning

## Kit Components

Camera	Lens	Housing
AV1115DNv1	MPL33-12A	D4SO
AV2115DNv1	MPL33-12A	D4SO
AV2116DNv1	MPL33-12A	D4SO
AV3115DNv1	MPL33-12A	D4SO
AV3116DNv1	MPL33-12A	D4SO
AV5115DNv1	MPL33-12A	D4SO

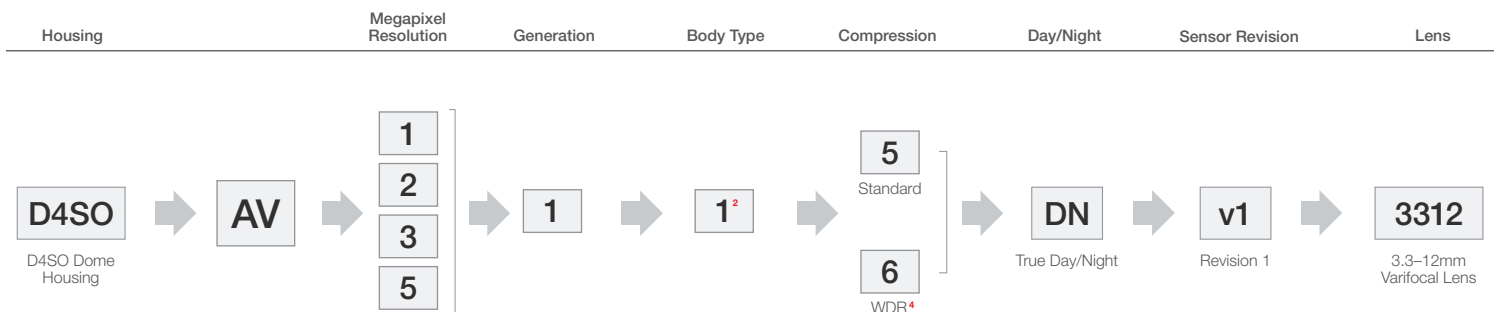
## Model Numbers

<b>1.3MP</b>	D4SO-AV1115DNv1-3312
<b>1080p</b>	D4SO-AV2115DNv1-3312
	D4SO-AV2116DNv1-3312 <span style="float: right;">WDR</span>
<b>3MP</b>	D4SO-AV3115DNv1-3312
	D4SO-AV3116DNv1-3312 <span style="float: right;">WDR</span>
<b>5MP</b>	D4SO-AV5115DNv1-3312

## D4SO Housing Accessories (Sold Separately)

<b>AV-CRMA</b>	Corner Mount Adapter
<b>AV-EBAR</b>	Round Electrical Box Adapter
<b>AV-EBAS</b>	Square Electrical Box Adapter
<b>AV-FMA</b>	Flush Mount Adapter
<b>AV-JBA</b>	Standard Junction Box
<b>AV-PMA</b>	Pole Mount Adapter
<b>AV-PMJB</b>	Pendant Mount with Junction Box <i>(Fits Cap 1.5" NPT, Box Fits 3/4" NPT)</i>
<b>AV-WMJB</b>	Wall Mount with Junction Box <i>(Fits Cap 1.5" NPT, Box Fits 3/4" NPT)</i>
<b>MD-CAP</b>	Mounting Cap for MegaDome® Series and SurroundVideo® G5 Mini
<b>MD-JBA</b>	Junction Box for MegaDome Series and SurroundVideo G5 Mini

## Create Your Model (Example: D4SO-AV5115DNv1-3312)



<sup>†</sup> Maximum with H.264 compression  
<sup>2</sup> "1" represents MegaVideo product line  
<sup>4</sup> WDR for AV2116 and AV3116 models only