

MegaVideo® Compact IP Megapixel Cameras

1.3, 1080p, 3, 5, and 10 Megapixel (MP) H.264 True Day/Night Indoor Box-Style Compact IP Cameras with SNAPstream™ (Smart Noise Adaptation and Processing) and WDR (Wide Dynamic Range) Models



MegaVideo® Compact multi-megapixel cameras provide ample resolution to zoom-in for details in live or recorded video. These box camera solutions are available at 1.2-, 1.3- 1080p, 3-, 5- or 10-megapixel resolutions with the fastest

frame rates in the industry. MegaVideo Compact cameras are “build to order” solutions: select the best lens, auto-iris, True Day/Night, Wide Dynamic Range (WDR), color-only and enclosures for specific applications (sold separately).



Customizable Lens and Housing Options



SNAPstream™ Technology



Wide Dynamic Range Available on Select 1080p and 3MP Models



Dual Sensor (AV3236)



True Day/Night with IR Cut Filter



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



Casino Mode™ Maintains at Least 30fps on Select 1080p Models



CorridorView™ with 90° Image Flip

10M
80P

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

Series Features

- 1.3, 1080p, 3, 5, or 10MP Models
- SNAPstream™ Capability to Reduce Bandwidth without Impacting Image Quality
- True WDR up to 100dB at Full Resolution Available on Select 1080p and 3MP Models
- 3MP WDR + 1.2MP B/W Dual Sensor Camera Offers Strong Performance in Low Light and High Contrast Lighting Conditions
- True Day/Night Functionality with Mechanical IR Cut Filter (DN Models)
- Binning Mode for Strong Low Light Performance on 3MP, 5MP, and 10MP 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
- Dual Mode Allows 10MP Models to Switch Between 10MP and 1080p
- 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
- PoE and Auxiliary Power: 12–48V DC/24V AC (Auxiliary Power Not Available for Dual Sensor Model)
- Many Lenses to Choose From (Sold Separately)
- Small Size for Flexible Mounting Options
- Use with Arecont Vision Housings, or as a Standalone Camera (Dual Sensor Model is Incompatible with D4 Series Housings)

Camera Imaging Specifications

Model	AV1115		AV2115		AV2116	AV3115		AV3116	AV3236		AV5115		AV10115	
	v1	DNv1	v1	DNv1	DNv1	v1	DNv1	DNv1	DN		v1	DNv1	v1	DNv1
Image Sensor	1.3MP*		1080p		1080p*	3MP*		3MP	3MP Color 1.2MP B/W		5MP		10MP	
Day/Night	-	Yes	-	Yes	Yes	-	Yes	Yes	Yes		-	Yes	-	Yes
Optical Format	1/2.7"		1/2.7"		1/3.2"	1/2.5"		1/3.2"	3MP	1/3.2"	1/2.5"		1/2.3"	
									1.2MP	1/3"				
Pixel Pitch	3µm		3µm		2.2µm	2.2µm		2.2µm	3MP	2.2µm	2.2µm		1.67µm	
									1.2MP	3.75µm				
Minimum Illumination	Color (Day Mode)		0.1 Lux		0.1 Lux	0.2 Lux		0.3 Lux	0.2 Lux	0.2 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)		0.01 Lux, IR sensitive		0.01 Lux, IR sensitive	0.02 Lux, IR sensitive		0.03 Lux, IR sensitive	0.02 Lux, IR sensitive	0.01 Lux, IR sensitive		0.03 Lux, IR sensitive		0.04 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	3MP	2048 H x 1536 V	2592 H x 1944 V		3648 H x 2752 V	
									1.2MP	1280 H x 1024 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	3MP	1024 H x 768 V	1296 H x 972 V		1824 H x 1376 V	
									1.2MP	640 H x 512 V				
Dynamic Range	69dB		69dB		WDR up to 100dB	70.1dB		WDR up to 100dB	WDR up to 100dB		70.1dB		57.2dB	
Maximum SNR	45dB		45dB		49dB	45dB		49dB	45dB		45dB		40dB	
Frame Rates†	At Max Resolution	42fps (1280x1024)		30fps (1920x1080)		30fps (1920x1080)	21fps (2048x1536)		21fps (2048x1536)	3MP	18fps (2048x1536)	14fps (2592x1944)		7fps (3648x2752)
										1.2MP	40fps (1280x960)			
	Cropped	-		42fps (1280x1024)		30fps (1280x1024)	29fps (1920x1080) 41fps (1280x1024)		30fps (1920x1080) 30fps (1280x1024)	-		21fps (2048x1536) 29fps (1920x1080) 41fps (1280x1024)		12fps (2592x1944) 18fps (2048x1536) 25fps (1920x1080) 37fps (1280x1024)
	Binning Mode	-		-		-	46fps (1024x768) 64fps (960x540)		21fps (1024x768) 21fps (800x600) 21fps (960x540) 21fps (640x512)	-		34fps (1296x972) 46fps (1024x768) 43fps (1296x972) 64fps (960x540)		29fps (1920x1080) 26fps (1824x1376) 43fps (1296x972) 54fps (1024x768)
	Upscaled	-		-		-	-		-	1.2MP	18fps (2048x1536)	-		-
	Dual Stream	-		-		-	-		-	3MP	11fps @ 2048x1536	-		-
										1.2MP	1280x960			
Dual Stream Upscaled	-		-		-	-		-	3MP	8fps @ 2048x1536	-		-	
									1.2MP	2048x1536				

* Effective † Maximum with H.264 compression

See MPL Megapixel Lenses and Ultra HD Megapixel Lenses specification sheets for lens options

Programmability

Low Light Performance	Pixel Binning Mode	3, 5, and 10MP 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
	10MP Models	4 non-identical streams

Compliance

Industry Standard	ONVIF Profile S 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
CoO	Made in the USA

Environmental

Operating temperature	-5°C (23°F) to +45°C (113°F)
	-5°C (23°F) to +40°C (104°F) in D4SO housings
Humidity	0% to 90% (non-condensing)
Storage temperature	-20°C (-4°F) to +60°C (140°F)

Electrical

Alarm Input/Output	1 input/1 output
Power Over Ethernet	PoE 802.3af, Class 3
Auxiliary Power	12–48V DC, 24V AC (AV3236 is PoE only)

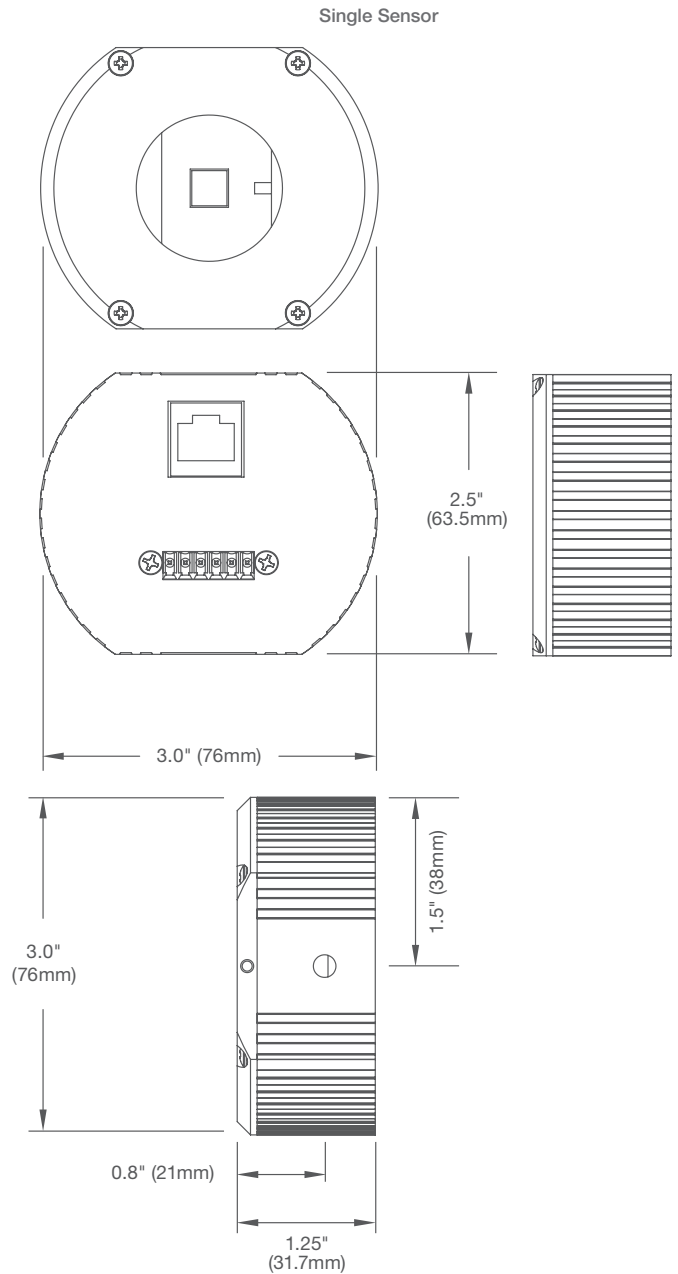
Max Power Consumption (Watts DC Power)

Model	Watts (Includes lens)
AV1115 / AV2115	5.0W
AV2116 / AV3116	6.0W
AV3115 / AV5115	5.3W
AV3236	PoE power only
AV10115	5.4W

Mechanical

Casing	Die-cast aluminum chassis	
	C/CS lens mount	
Dimensions <small>(See Dimensions)</small>	Unit	3" W (76mm) x 1.25" D (31.7mm) x 2.5" H (63.5mm) (w/o lens)
	Packaged	4" W (102mm) x 4" L (102mm) x 3.7" H (94mm)
Weight	Unit	0.6lbs (0.272kg) w/o lens
	Packaged	0.7lbs (0.318kg)

Dimensions



See Next Page for Ordering Information

Ordering Information



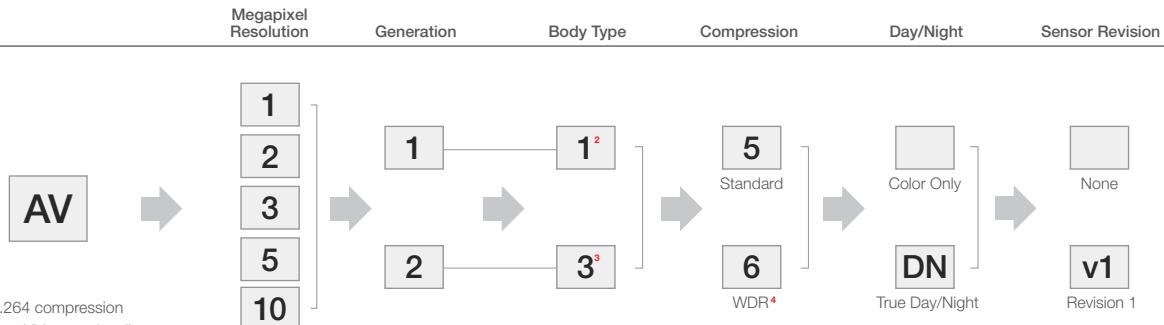
Model Specific Features

Model	Resolution	Frame Rate†	Features		
AV1115	1.3MP	42fps	-	-	-
AV2115	1080p	30fps	-	Casino Mode™	-
AV2116	1080p	30fps	WDR	-	-
AV3115	3MP	21fps	-	-	Binning
AV3116	3MP	21fps	WDR	-	Binning
AV3236	3MP/1.2MP	18fps/40fps	WDR	Dual Sensor	Binning
AV5115	5MP	14fps	-	-	Binning
AV10115	10MP	7fps	-	-	Binning

Model Numbers

1.3MP	AV1115v1	
	AV1115DNv1	
1080p	AV2115v1	
	AV2115DNv1	
	AV2116DNv1	WDR
3MP	AV3115v1	
	AV3115DNv1	
	AV3116DNv1	WDR
	AV3236DN	Dual Sensor WDR
5MP	AV5115v1	
	AV5115DNv1	
10MP	AV10115v1	Dual Mode
	AV10115DNv1	Dual Mode

Create Your Model (Example: AV5115DNv1)



† Maximum with H.264 compression
 ² "1" represents MegaVideo product line
 ³ "3" represents Dual Sensor sub-product line
 ⁴ WDR for AV2116, AV3116, and AV3236 models only

Configuration



Single Sensor



Dual Sensor

Lens Options (Sold Separately)

Manual Vari-Focal	MPL4-10 (4.5–10mm)	1.2MP	1.3MP	1080p	3MP	5MP	
	MPL4-12 (4–12mm)	1.2MP	1.3MP	1080p	3MP	5MP	
	MPL8-16 (8–16mm)	1.2MP	1.3MP	1080p	3MP	5MP	
	MPL12-40 (12–40mm)	1.2MP	1.3MP	1080p	3MP	5MP	
	MPL33-12A † (3.3–10.5mm)	1.2MP	1.3MP	1080p	3MP	5MP	
	UHD45-10 (4.5–10mm)					5MP	10MP
Manual Fixed Focal	MPL1.55 (1.55mm)	1.2MP	1.3MP	1080p	3MP	5MP	
	MPL3.5 † (3.5mm)	1.2MP	1.3MP	1080p	3MP	5MP	
	MPL4.0 (4mm)	1.2MP	1.3MP	1080p	3MP	5MP	
	MPL6.0 (6mm)	1.2MP	1.3MP	1080p	3MP	5MP	
	MPL6.2 † (6.2mm)	1.2MP	1.3MP	1080p	3MP	5MP	
	MPL8.0 (7.8mm)	1.2MP	1.3MP	1080p	3MP	5MP	
	UHD7.2 (7.2mm)					5MP	10MP
	JHF25M (25mm)					5MP	10MP
	JHF35M (35mm)					5MP	10MP

† Recommended for WDR models

Compatible Housings (Sold Separately)

D4F	Indoor Flush Mount Housing
D4SO	Outdoor 4" Dome Housing
HSG2	11" Outdoor PoE Bullet-Style Housing

HSG2 Housing Accessories (Sold Separately)

AV-PMA	Pole Mount Adapter
AV-CRMA	Corner Mount Adapter
AV-EBAS	Square Electrical Box Adapter
AV-JBA	Standard Junction Box
HSG2-WMT	Wall Mount for HSG2 Housing

(See MegaVideo D4 specifications for D4SO housing compatible accessories)