Arecont Vision®

Leading the Way in Megapixel Video™

MegaVideo® G5 IP Megapixel Cameras

1.2, 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), WDR (Wide Dynamic Range), and STELLAR™ (Spatio Temporal Low Light Architecture) Models

GEN5

The MegaVideo® G5 multi-megapixel, indoor compact camera series delivers 1.2-, 1080p, 3-, 5-, or 10-megapixel resolutions (lens sold separately). Regardless of time-of-day, this camera is ideal for applications with challenging lighting conditions. The series combines a day/night mechanical IR cut filter with an optional P-iris lens on "PM" models for precise, optimal image quality. For applications with poor lighting conditions due to strong backlighting, reflections from wet flooring/puddles, or contrast due to fog, mist, or glare, optional wide dynamic range is available on select 1080p and 3MP models.

Select 1080p models provide 30 images-per-second for optimum performance in fast action scenes such as casino and banking applications. For challenging low-light applications, the 1.2MP STELLAR™ model offers best-in-class light sensitivity capturing details in extreme low-light (0.002 lux in monochrome) at

an incredibly high frame rate of 37 frames per second. The SD card slot on "-S" models supports up to 32GB of storage capacity for convenient onboard storage. MegaVideo G5 "DN" models feature SNAPstream™ (Smart Noise Adaptation and Processing) technology to reduce bandwidth without impacting image quality.

The camera's power can be supplied via a Power-over-Ethernet compliant network cable connection or with power from a 12-48V DC/24V AC power supply. The camera's interface allows for an intuitive, fast, and easy configuration. The MegaVideo G5 is ONVIF Profile S (Open Network Video Interface Forum) compliant, providing interoperability between network video products regardless of manufacturer.
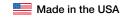
| Motorized Remote Focus/Zoom and Manual Lens Options and Housing Options | P-Iris Control for BestDepth of Field and Image Clarity | SNAPstream™ Technology (DN models) | Wide Dynamic Range Available on Select 1080p and 3MP Models | STELLAR™ Low Light Technology on 1.2MP Models | True Day/Night with IR Cut Filter | Pixel Binning Mode on 3, 5, and 10MP Models | CorridorView™ with 90° Image Flip | Casino Mode™ Maintains at Least 30fps on Select 1080p Models | Dual Mode: 1080p/10MP | Non-Integer Scaling | SDHC Card Slot |

Series Features

- 1.2, 1080p, 3, 5, or 10MP Models
- P-Iris Control for Best Depth of Field and Image Clarity
- SNAPstream™ Capability to Reduce Bandwidth without Impacting Image Quality‡
- True WDR up to 100dB at Full Resolution Available on Select 1080p and 3MP Models
- STELLAR (Spatio Temporal Low Light Architecture) Reduces Motion Blur, Noise and Storage Requirements, While Enhancing Contrast and Allowing Color Imaging in Near Complete Darkness on 1.2MP Models
- True Day/Night Functionality with Mechanical IR Cut Filter
- Binning Mode for Strong Low Light Performance on 3MP, 5MP, and 10MP Models
- CorridorView™ Allows 90° Image Rotation for Better Coverage in Hallways and Corridors

- Casino Mode™ Guarantees Continuous 30fps† Frame Rate Required by Gaming Industry Regulations on Select 1080p Models
- 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
- Non-Integer Scaling for 1080p and Higher Megapixel Resolution Models (-S models)
- Dual Encoder H.264/MJPEG
- Network Protocols Include 802.1x, DHCP, QoS, IPv6, and More
- PoE and Auxiliary Power: 12–48V DC/24V AC
- SDHC Card Slot for Onboard Storage (-S models)
- Many Lenses to Choose From Including Remote Focus/Zoom Motorized P-Iris Lenses (Sold Separately)§
- Small Size for Flexible Mounting Options
- Use with Arecont Vision Housings, or as a Standalone Camera

† Maximum with H.264 compression
‡ SNAPstream not available on "-S" models
§ P-Iris motorized lenses are only compatible with PM models

ONVIF | S

Camera Imaging Specifications

Model	AV1215	AV2215		AV2216		AV3215		AV3216		AV5215		AV10215	
	PM-S	PM-S	DN	PM-S	DN	PM-S	DN	PM-S	DN	PM-S	DN	PM-S	DN
Image Sensor	1.2MP*	1080p**		1080p**		3MP		3MP		5MP		10MP	
Day/Night	True Day/Night with automatic removable IR cut filter												
Optical Format	1/3"	1/3"		1/3.2"		1/3"		1/3.2"		1/2.5"		1/2.3"	
Pixel Pitch	3.75µm	2.2µm		2.2µm		2.2µm		2.2µm		2.2µm		1.67µm	
Minimum Illumination — Color (Day Mode)	0.02 Lux	0.2 Lux		0.2 Lux		0.2 Lux		0.2 Lux		0.3 Lux		0.42 Lux	
Color Binning (Day Mode)	-	-		-		0.1 Lux		0.1 Lux		0.15 Lux		0.21 Lux	
B/W (Night Mode)	0.002 Lux IR sensitive	0.02 Lux IR sensitive		0.02 Lux IR sensitive		0.02 Lux IR sensitive		0.02 Lux IR sensitive		0.03 Lux IR sensitive		0.04 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		3648 H x 2752 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		1824 H x 1376 V	
Scaling	-	Yes	-	Yes	-	Yes	-	Yes	-	Yes	-	Yes	-
Dynamic Range	83.5dB	69.5dB		WDR up to 100dB		69.5dB		WDR up to 100dB		70.1dB		57.2dB	
Maximum SNR	54dB	44dB		49dB		44dB		49dB		45dB		40dB	
Frame Rates† — At Max Resolution	37fps (1280x1024)	30fps (1920x1080)		30fps (1920x1080)		21fps (2048x1536)		21fps (2048x1536)		14fps (2560x1920)		7fps (3648x2752)	
Cropped	-	42fps (1280x1024)		30fps (1280x1024)		29fps (1920x1080) 41fps (1280x1024)		30fps (1920x1080) 30fps (1280x1024)		21fps (2048x1536) 29fps (1920x1920) 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) 64fps (960x540)		29fps (1920x1080) 26fps (1824x1376) 43fps (1296x972) 54fps (1024x768)	
Lens *(Sold separately)*	See MPL Megapixel Lenses and Ultra HD Megapixel Lenses specification sheets for lens options												

* STELLAR™ Model   ****** Effective

Programmability

Optics	Remote focus, remote zoom, and P-iris control (when remote focus/zoom lens is used) (PM models only)
Low Light Performance	**STELLAR Technology** — 1.2MP models
	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 (AV2215 models)†
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)
Scaling	Non-integer scaling down to 128x96 (1080p, 3MP, 5MP, and 10MP "-S" models only) *(See Scaling Resolution Chart on page 3)*
Wide Dynamic Range	Auto switch control adjustment between WDR and LDR modes (WDR models)
Noise Reduction	SNAPstream™ (Smart Noise Adaptation and Processing) (DN models)
Efficiency	Bit rate and bandwidth limitation control
	Bandwidth and storage savings by running at 1/4 resolution
Sharpness	Selectable enhancement level
SDHC Card Slot	Supports micro SDHC cards up to 32GB (-S models only)
Miscellaneous	Programmable resolution, brightness, saturation, gamma, tint
	Electronic pan, tilt, zoom (PTZ)

† Maximum with H.264 compression

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	**1.2–5MP 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 +50°C (122°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 2
Auxiliary Power	12–48V DC, 24V AC

Max Power Consumption (Watts DC Power - Includes Lens)

Model	PM-S	DN
AV1215	6.2W	-
AV2215	6.9W	5.0W
AV2216	7.8W	6.0W
AV3215	6.9W	5.0W
AV3216	7.8W	6.0W
AV5215	7.1W	5.3W
AV10215	6.6W**	5.4W

** Without motorized lens

Scaling Resolution Chart***

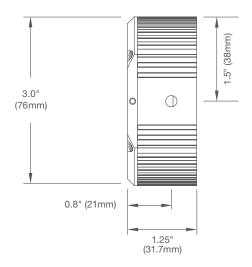| Scaled Resolution	H	V	Pixel Count
720p	1280	720	921600
XVGA	1024	768	786432
DVGA (16:9)	1136	640	727040
DVGA (3:2)	960	640	614400
SVGA	800	600	480000
D1 (PAL)	720	576	414720
4CIF (PAL)	704	576	405504
D1 (NTSC)	720	480	345600
4CIF (NTSC)	704	480	337920
VGA	640	480	307200
2CIF (PAL)	704	288	202752
HVGA (4:3)	480	360	172800
2CIF (NTSC)	704	240	168960
HVGA (8:3)	640	240	153600
HVGA (3:2)	480	320	153600
HVGA (16:9)	480	272	130560
CIF (PAL)	352	288	101376
CIF (NTSC)	352	240	84480
QVGA (SIF)	320	240	76800
QCIF (PAL)	176	144	25344
QCIF (NTSC)	176	120	21120
SQCIF	128	96	12288

*** All scaled resolutions are available on all cameras that support scaling

Mechanical

Casing		Die-cast aluminum chassis
		C/CS lens mount
Dimensions (See Dimensions)	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

Connections are for motorized P-Iris lenses (PM models only)

2.5" (63.5mm)

Card Storage on -S models only

3.0" (76mm)

3.0" (76mm)

1.5" (38mm)

0.8" (21mm)

1.25" (31.7mm)

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Ordering Information

Model Specific Features

Model	Resolution	Frame Rate†	Features		
AV1215	1.2MP	37fps	-	-	STELLAR™
AV2215	1080p	30fps	-	Casino Mode™	-
AV2216	1080p	30fps	WDR	-	-
AV3215	3MP	21fps	-	-	Binning
AV3216	3MP	21fps	WDR		Binning
AV5215	5MP	14fps			Binning
AV10215	10MP	7fps	-		Binning

Model Numbers

1.2MP	AV1215PM-S	STELLAR		
1080p	AV2215PM-S		AV2215DN	
	AV2216PM-S	WDR	AV2216DN	WDR
3MP	AV3215PM-S		AV3215DN	
	AV3216PM-S	WDR	AV3216DN	WDR
5MP	AV5215PM-S		AV5215DN	
10MP	AV10215PM-S	Dual Mode	AV10215DN	Dual Mode

Compatible Housings (Sold Separately)

HSG3 [1]	16" Outdoor PoE Bullet-Style Housing
HSG2	11" Outdoor PoE Bullet-Style Housing

[1] HSG3 housing is required when using UHD30-120MPI lens for outdoor and impact-resistant applications

Configuration

PM-S

DN

Lens Options (Sold Separately)

Motorized P-Iris	MPL2.8-8.5MPI [2] (2.8–8.5mm)	1.2MP 1080p 3MP
	MPL3.3-8.5MPI (3.3–8.5mm)	5MP
	MPL9-36MPI (9–36mm)	1.2MP 1080p 3MP 5MP
	UHD4.0-10MPI (4–10mm)	5MP 10MP
	UHD12-50MPI (12–50mm)	5MP 10MP
	UHD30-120MPI [1] (30–120mm)	5MP 10MP
Manual Vari-Focal	MPL4-10 (4.5–10mm)	1.2MP 1080p 3MP 5MP
	MPL4-12 (4–12mm)	1.2MP 1080p 3MP 5MP
	MPL8-16 (8–16mm)	1.2MP 1080p 3MP 5MP
	MPL12-40 (12–40mm)	1.2MP 1080p 3MP 5MP
	MPL33-12A [2] (3.3–12mm)	1.2MP 1080p 3MP 5MP
	UHD45-10 (4.5–10mm)	5MP 10MP
Manual Fixed Focal	MPL1.55 (1.55mm)	1.2MP 1080p 3MP 5MP
	MPL3.5 [2] (3.5mm)	1.2MP 1080p 3MP 5MP
	MPL4.0 (4mm)	1.2MP 1080p 3MP 5MP
	MPL8.0 (7.8mm)	1.2MP 1080p 3MP 5MP
	JHF25M (25mm)	5MP 10MP
	JHF35M (35mm)	5MP 10MP

[2] Recommended for WDR models

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

Create Your Model   (Example: AV3226PMIR-SA)

Megapixel Resolution	Generation	Body Type	Compression	Lens	Onboard Storage

AV → [1 / 2 / 3 / 5 / 10] → 2 → 1[3] → [5 Standard / 6 WDR[4]] → [PM Motorized P-Iris Lens, True Day/Night / DN Day/Night] → S SDHC Card Slot

[3] "1" represents MegaVideo product line
[4] WDR for AV2216 and AV3216 models only
† Maximum with H.264 compression

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