MegaVideo® Flex IP Megapixel Cameras

1.2, 1080p, 3, and 5 Megapixel (MP) H.264 Remote Focus True Day/Night Indoor/Outdoor Tethered IP Camera with WDR (Wide Dynamic Range) Models and Optional IR LEDs

MegaVideo Flex

Optional
IR LED Units*

Main Unit

Sensor Unit

* Sold separately

MegaVideo Flex camera series offers a cost-effective security solution for installations that require a flexible, compact design. Due to its small footprint, the MegaVideo Flex easily fits into leading automated teller machines and small areas. These indoor/outdoor cameras feature a choice of 1.2MP, 1080p, 3MP, and 5-megapixel (MP) resolution options.

Regardless of time-of-day, this true day/night camera is ideal for applications with variable lighting conditions. For challenging low-light applications, the MegaVideo Flex 1.2MP model features NightView™, making it capable of covering areas where very little light is present. Applications with bright or over saturated lighting conditions can be overcome with the optional wide dynamic range feature (available on select models).

The MegaVideo Flex comprises of the camera sensor, metal mounting bracket, USB cable, and the main unit. Installing the MegaVideo Flex is simple. The camera can be surface mounted via the supplied mounting bracket or flush mounted to a ceiling or wall with the two (2) fastening nuts. No additional mounting accessories required. For added flexibility, the USB cable allows the camera to be mounted in one area while the main unit is mounted up to 12m (40ft) away. Additionally, this camera includes both a white and a black trim ring so it easily blends into the environment.

For easy identification of events or intruders in dark applications, the main unit features two (2) USB ports to combine optional infrared illumination (sold separately). Each IR illuminator includes six (6) infrared 850nm LEDs providing up to 15m (49ft) of night vision.

These cameras are enhanced with the added convenience of remote focus to facilitate ease of set-up and future adjustments, reducing time spent at the job-site. The ability to interchange the lenses, make the flexibility of this camera unsurpassed. Lens options include: 2.1mm, 2.8mm, 4mm, 6mm, 8mm, 12mm, and 16mm.

The MegaVideo Flex camera series offers advanced streaming capabilities and are designed on an efficient H.264 encoding platform for delivering high quality video without straining the network. Power can be supplied via a single Power-over-Ethernet compliant network cable 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 Free AV IP Utility tool allows users to quickly configure multiple cameras at one time.

| Interchangeable Lenses with Remote Focus Module | Ultra Low Profile Design | Tethered Camera | SNAPstream™ Technology | NightView™ on 1.2MP Models | Wide Dynamic Range Available on Some 1080p and 3MP Models | True Day/Night with Mechanical IR Cut Filter | Water Resistant from Front | CorridorView™ with 90° Image Flip | SDHC Card Slot | Pixel Binning Mode on 3 and 5MP Models | Optional IR LEDs |

Series Features

- 1.2, 1080p, 3, or 5MP Models
- Camera Sensor and Main Unit can be Connected via a USB Cable up to 40ft in Length
- SNAPstream™ (Smart Noise Adaptation and Processing) capability to reduce bandwidth without impacting image quality
- True Day/Night Functionality with Mechanical IR Cut Filter
- CorridorView™ Allows 90° Image Rotation for Better Coverage in Hallways and Corridors
- Dual Encoder H.264/MJPEG
- Privacy Mask, Motion Detection, Flexible Cropping, Bit Rate Control, Multi-Streaming and Forensic Zooming
- Multiple Lens Options Available (Sold Separately)
- Remote Focus Module

- All-in-One H.264 Total Power Over Ethernet (PoE) Solution
- Ultra Low Profile Design / Small Size
- IK-10 Impact-Resistant Housing
- Strong Low Light Performance via NightView™ for 1.2MP Cameras and Binning Mode for 3MP and 5MP Cameras
- True WDR up to 100dB at Full Resolution Available in 1080p and 3MP WDR Models
- Optional IR LEDs
- Onboard Storage
- Weather Resistant from Front
- Casino Mode™ Maintains 30fps or Higher Required by Gaming Industry Regulations (1080p model)

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Camera Imaging Specifications

Model		AV1195DN	AV2195DN	AV2196DN	AV3195DN	AV3196DN	AV5195DN
Image Sensor (CMOS)		1.2MP	1080p	1080p	3MP	3MP	5MP
Optical Format		1/3"	1/3"	1/3.2"	1/3"	1/3.2"	1/2.5"
Pixel Pitch		3.75µm	2.2µm	2.2µm	2.2µm	2.2µm	2.2µm
Minimum Illumination	Color (Day Mode)	0.03 Lux	0.2 Lux	0.2 Lux	0.2 Lux	0.2 Lux	0.3 Lux
	Color Binning (Day Mode)	-	-	-	0.1 Lux	0.1 Lux	0.15 Lux
	B/W (Night Mode)	0.003 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
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	2592 H x 1944 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	1296 H x 972 V
Dynamic Range		83.5dB	69.5dB	WDR up to 100dB	69.5dB	WDR up to 100dB	70.1dB
Frame Rates	At Max Res.	37fps (1280 x 960)	30fps (1920 x 1080)	30fps (1920 x 1080)	21fps (2048 x 1536)	21fps (2048 x 1536)	12fps (2592 x 1944)
	Cropped	-	42fps (1280 x 1024)	41fps (1280 x 1024)	30fps (1920 x 1080) 41fps (1280 x 1024)	30fps (1920 x 1080) 41fps (1280 x 1024)	16fps (2048 x 1536) 24fps (1920 x 1080) 44fps (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)	27fps (1296 x 972) 37fps (1024 x 768) 48fps (960 x 540)
Lens*		2.8mm Integrated, 1/2.5", F/2.0, H-FOV = 95°	2.8mm Integrated, 1/2.5", F/2.0, H-FOV = 83°	2.8mm Integrated, 1/2.5", F/2.0, H-FOV = 83°	2.8mm Integrated, 1/2.5", F/2.0, H-FOV = 89°	2.8mm Integrated, 1/2.5", F/2.0, H-FOV = 89°	2.8mm Integrated, 1/2.5", F/2.0, H-FOV = 113°

***** 2.8mm standard lens

Situational**Plus**™

Model	Lens	View Angle	Distance to pixel density (ft.)(m)		
			30ppf (98ppm)	60ppf (197ppm)	90ppf (295ppm)
AV1195DN	MPM2.8A	95°	19' (5.8m)	9.5' (2.9m)	6' (1.8m)
AV1195DN-NL	MPM2.1	130°	-	-	-
	MPM4.0A	67°	32' (9.8m)	16' (4.9m)	10.5' (3.2m)
	MPM6.0	46°	49.5' (15.1m)	25' (7.6m)	16' (4.9m)
	MPM8.0	35°	65.5' (20m)	34' (10.4m)	22' (6.7m)
	MPM12.0A	23°	105' (32m)	50' (15.2m)	35' (10.7m)
	MPM16.0	17°	145' (44.2m)	70' (21.3m)	47' (14.3m)
AV2195DN	MPM2.8A	83°	35' (10.7m)	16.5' (5m)	9' (2.7m)
AV2195DN-NL	MPM2.1	113°	17.5' (5.3m)	-	-
	MPM4.0A	59°	55' (16.8m)	27' (8.2m)	17' (5.2m)
	MPM6.0	40°	85' (25.9m)	43' (13.1m)	28' (8.5m)
	MPM8.0	30°	120' (36.6m)	59' (18m)	39' (11.9m)
	MPM12.0A	20°	180' (54.9m)	90' (27.4m)	60' (18.3m)
	MPM16.0	15°	240' (73.2m)	122' (37.2m)	81' (24.7m)
AV2196DN	MPM2.8A	83°	35' (10.7m)	16.5' (5m)	9' (2.7m)
AV21956N-NL	MPM2.1	113°	17.5' (5.3m)	-	-
	MPM4.0A	59°	55' (16.8m)	27' (8.2m)	17' (5.2m)
	MPM6.0	40°	85' (25.9m)	43' (13.1m)	28' (8.5m)
	MPM8.0	30°	120' (36.6m)	59' (18m)	39' (11.9m)
	MPM12.0A	20°	180' (54.9m)	90' (27.4m)	60' (18.3m)
	MPM16.0	15°	240' (73.2m)	122' (37.2m)	81' (24.7m)
AV3195DN	MPM2.8A	89°	34' (10.4m)	15.5' (4.7m)	8' (2.4m)
AV3195DN-NL	MPM2.1	121°	15' (4.6m)	-	-
	MPM4.0A	63°	55' (16.8m)	26.5' (8.1m)	16.5' (5m)
	MPM6.0	43°	86' (26.2m)	42.5' (13m)	27.5' (8.4m)
	MPM8.0	33°	114.5' (34.9m)	56' (17.1m)	37.5' (11.4m)
	MPM12.0A	22°	174.5' (53.2m)	87' (26.5m)	58' (17.7m)
	MPM16.0	16°	243' (74.1m)	121' (36.9m)	81' (24.7m)
AV3196DN	MPM2.8A	89°	34' (10.4m)	15.5' (4.7m)	8' (2.4m)
AV31956N-NL	MPM2.1	121°	15' (4.6m)	-	-
	MPM4.0A	63°	55' (16.8m)	26.5' (8.1m)	16.5' (5m)
	MPM6.0	43°	86' (26.2m)	42.5' (13m)	27.5' (8.4m)
	MPM8.0	33°	114.5' (34.9m)	56' (17.1m)	37.5' (11.4m)
	MPM12.0A	22°	174.5' (53.2m)	87' (26.5m)	58' (17.7m)
	MPM16.0	16°	243' (74.1m)	121' (36.9m)	81' (24.7m)
AV5195DN	MPM2.8A	113°	27' (8.2m)	12' (3.7m)	5' (1.5m)
AV5195DN-NL	MPM2.1	-	-	-	-
	MPM4.0A	80°	51' (15.5m)	24.5' (7.5m)	15' (4.6m)
	MPM6.0	56°	80' (24.4m)	40' (12.2m)	26' (7.9m)
	MPM8.0	42°	114' (34.7m)	56' (17.1m)	36' (11m)
	MPM12.0A	28°	175' (53.3m)	86' (26.2m)	57' (17.4m)
	MPM16.0	20°	245' (74.7m)	122' (37.2m)	81' (24.7m)

Programmability

Optics	M12 lens and remote focus module	
Low Light Performance	NightView™ Mode	1.2MP models
	Pixel Binning Mode	3MP 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 (AV2195 model)	
SNAPstream™	Smart Noise Adaptation and Processing	
Flexible Cropping	Resolution windowing down to 1x1 pixel for JPEG and 2x2 pixels for H.264	
Backlight Compensation	Custom white balance	
Flicker Control	50/60Hz selectable	
Image Rotation	CorridorView™ (90°, 180° and 270° image rotation)	
Wide Dynamic Range	Auto switch control adjustment between WDR and LDR modes (WDR models)	
Noise Reduction	Low light noise filter control	
Efficiency	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	8 non-identical streams

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	IK-10
CoO	Made in the USA

Environmental

Operating temperature	-20°C (-4°F) to +50°C (122°F)
Humidity	0% to 90% (non-condensing)
Storage temperature	-20°C (-4°F) to +60°C (140°F)

Electrical

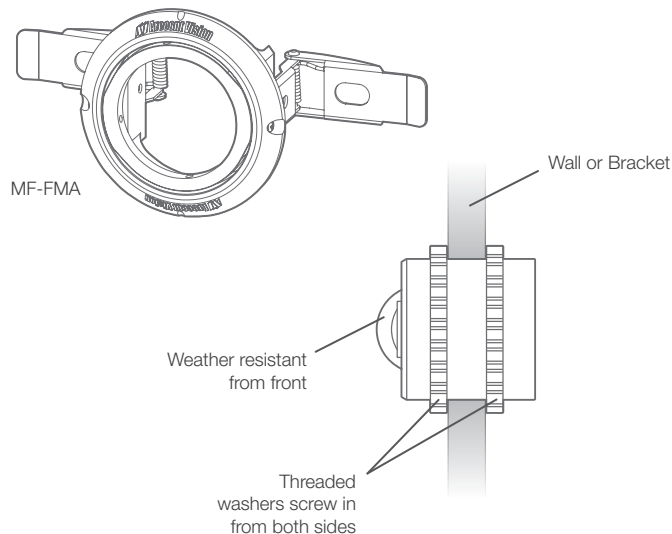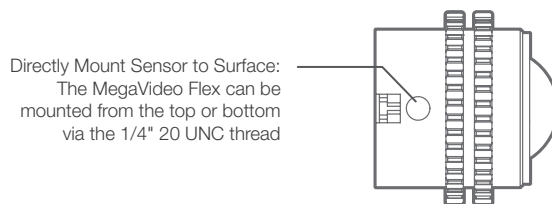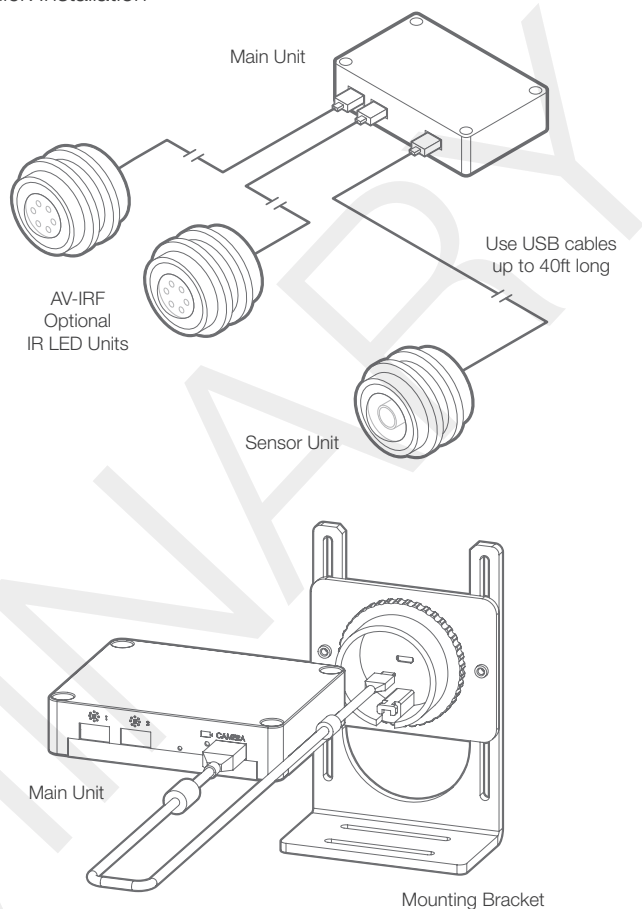|	
Alarm Input/Output	General purpose opto-coupled, 1 input / 1 output
Power Over Ethernet	PoE 802.3af, Class 3
Power Consumption	X.XX Watts DC Power
Auxiliary Power	12-48V DC/24V AC (Barrel Plug, 2.1mm I.D. x 5.5mm O.D. x 9.5mm)

Mechanical

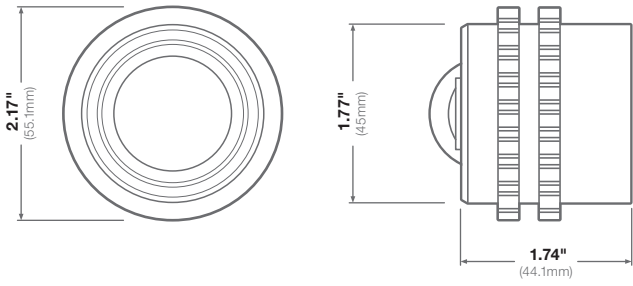|		
Casing		Tamper-resistant housing, IK-10 Impact-resistant
		Weather resistant from front
Lens		2.8mm board mount (M12), fixed iris, F/2.0 (except -NL models)
Dimensions *(See Dimensions)*	**Main Unit**	0.94" H (24mm) x 3.23" W (82mm) x 4.09" L (104mm)
	Sensor Unit	Ø 1.77" (45mm) x 1.74" W (44.1mm)
	Packaged	4.5" H (114mm) x 5.8" W (147mm) x 5.9" L (150mm)
Weight	**Unit**	0.7lbs (0.3kg)
	Packaged	1.3lbs (0.6kg)
USB Cables	5ft	
	40ft	

Accessories

AV-IRF	Single IR illuminator includes 6 pcs 850nm LEDs / 15 meter IR distance (max) / 80° IR angle, for use with MegaVideo Flex only
MF-FMA	In-ceiling flush mount for MegaVideo Flex

Quick Installation

Main Unit

Use USB cables up to 40ft long

AV-IRF Optional IR LED Units

Sensor Unit

Main Unit

Mounting Bracket

Directly Mount Sensor to Surface: The MegaVideo Flex can be mounted from the top or bottom via the 1/4" 20 UNC thread

MF-FMA

Wall or Bracket

Weather resistant from front

Threaded washers screw in from both sides

Dimensions

Sensor Unit

2.17"
(55.1mm)

1.77"
(45mm)

1.74"
(44.1mm)

Main Unit

0.94"
(24mm)

3.23"
(82mm)

4.09"
(104mm)
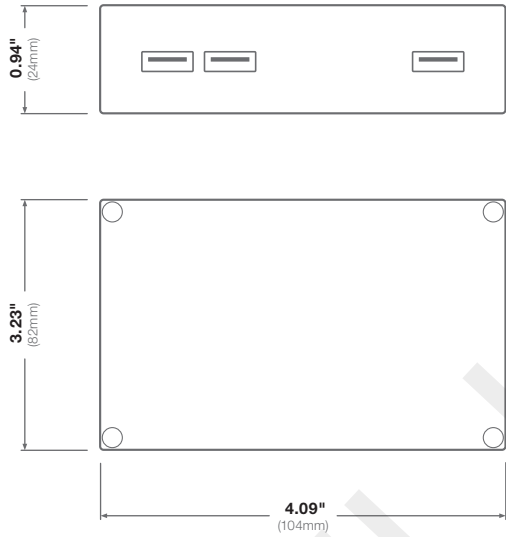
Ordering Information

IR LEDs
Sold Separately

Model Numbers*

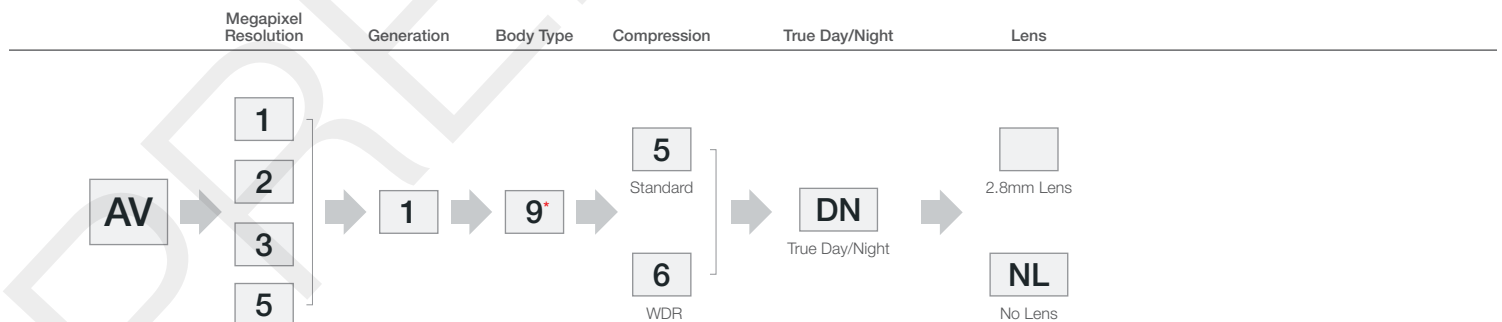| 1.2MP	AV1195DN	NightView™
	AV1195DN-NL	NightView™
1080p	AV2195DN	
	AV2195DN-NL	
	AV2196DN	WDR
	AV2196DN-NL	WDR
3MP	AV3195DN	
	AV3195DN-NL	
	AV3196DN	WDR
	AV3196DN-NL	WDR
5MP	AV5195DN	
	AV5195DN-NL	

* All parts include a main unit, 40ft and 5ft USB 2.0 to micro USB 28/24 AWG, shielded twisted pair cable, and a mounting bracket.

Model Specific Features

Model	Resolution	Frame Rate	Features		
AV1195DN	1.2MP	37fps	-	-	NightView™
AV2195DN	1080p	30fps	-	Casino Mode™	-
AV2196DN	1080p	30fps	WDR	-	-
AV3195DN	3MP	21fps	-	-	Binning
AV3196DN	3MP	21fps	WDR	-	Binning
AV5195DN	5MP	12fps	-	-	Binning

Lens Options (Sold Separately)

Model	Focal Length	Horizontal Field of View					
		1.2MP	1080p	1080p WDR	3MP	3MP WDR	5MP
MPM2.1	2.1mm	130°	113°	113°	121°	121°	-
MPM2.8A*	2.8mm	95°	83°	83°	89°	89°	113°
MPM4.0A	4mm	67°	59°	59°	63°	63°	80°
MPM6.0	6mm	46°	40°	40°	43°	43°	56°
MPM8.0	8mm	35°	30°	30°	33°	33°	42°
MPM12.0A	12mm	23°	20°	20°	22°	22°	28°
MPM16.0	16mm	17°	15°	15°	16°	16°	20°

* Standard Lens for MegaVideo Flex Except on "-NL" Models

Create Your Model (Example: AV3196DN-NL)

Megapixel Resolution	Generation	Body Type	Compression	True Day/Night	Lens

AV → 1 / 2 / 3 / 5 → 1 → 9* → 5 (Standard) / 6 (WDR) → DN (True Day/Night) → 2.8mm Lens / NL (No Lens)

* "9" represents MegaVideo Flex product line
** True Day/Night with WDR for No Lens models only

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