MicroDome® G2 IP Megapixel Cameras

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

Flush Mount (-F)

Surface Mount (-S)

The MicroDome® G2 multi-megapixel camera series delivers 1.2-, 1080p, 3-, or 5-megapixel resolutions. These true day/night cameras are available with a choice of lenses 2.8mm, 4mm, 6mm, 8mm, 12mm, and 16mm options. With a day/night mechanical IR cut filter this camera is ideal for applications with challenging lighting conditions, regardless the time of day.
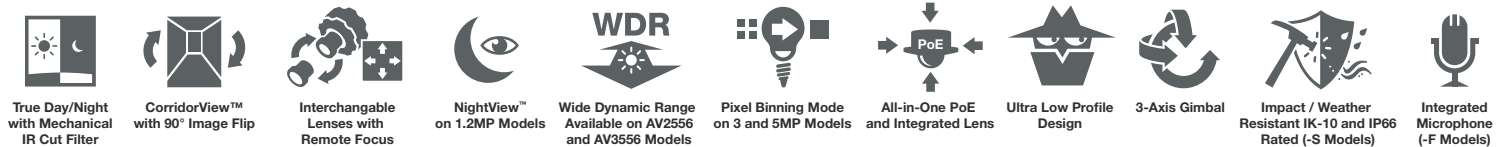
The MicroDome® G2 megapixel IP camera series is available in an indoor, in-ceiling housing or in a surface mount IP66 rated version for indoor and outdoor applications. Surface and flush mount models feature a vandal resistant, IK-10 rated cast-aluminum housing with a polycarbonate bubble making it capable of withstanding the equivalent of 55 kg (120 lbs) of force.

MicroDome® G2 megapixel IP cameras deliver professional surveillance, with ease of installation and set-up, for a variety of network surveillance requirements. The remote focus module allows users to simply click "Short-range Focus" or "Full-range Focus" saving installers time and end users money—an easy return on investment. The three-axis lens adjustment

provides users with more camera placement options, allowing the cameras to be easily mounted on a wall or ceiling so they can pan, tilt, and rotate the lens in a variety of directions for a precise field of view. An innovative spring arm design makes in-ceiling F-model installations a snap: simply slide the camera through the hole and secure the magnetized cover ring with a single screw. No additional hardware is required.

For challenging low-light applications, the 1.2MP model features NightView™, making it capable of covering areas where very little light is present. For applications with strong backlighting, reflections from wet flooring/puddles, or contrast due to fog, mist, or glare, optional wide dynamic range is available on some 1080p and 3MP models.

The MicroDome® G2 is ONVIF Profile S (Open Network Video Interface Forum) and PSIA (Physical Security Interoperability Alliance) compliant, providing interoperability between network video products regardless of manufacturer.

| True Day/Night with Mechanical IR Cut Filter | CorridorView™ with 90° Image Flip | Interchangable Lenses with Remote Focus | NightView™ on 1.2MP Models | Wide Dynamic Range Available on AV2556 and AV3556 Models | Pixel Binning Mode on 3 and 5MP Models | All-in-One PoE and Integrated Lens | Ultra Low Profile Design | 3-Axis Gimbal | Impact / Weather Resistant IK-10 and IP66 Rated (-S Models) | Integrated Microphone (-F Models) |

Series Features

- 1.2–5MP Models
- 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
- Easily Adjustable 3-Axis Gimbal
- All-in-One H.264 Total Power Over Ethernet (PoE) Solution
- Ultra Low Profile Design / Small Size
- IK-10 Impact-Resistant Housing

Model Dependent Features

- 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
- Outdoor Rated IP66 (-S Models)
- Integrated Microphone (-F Models)
- Casino Mode™ Maintains 30fps or Higher Required by Gaming Industry Regulations (AV2555 Models)

ONVIF | **S**   **PSIA**

Camera Imaging Specifications

Model		AV1555DN	AV2555DN	AV2556DN	AV3555DN	AV3556DN	AV5555DN
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)	14fps (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)	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)
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

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 (AV2555 model)
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
Microphone	Integrated (-F models)
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)

Audio Electrical

Compression	G.711 PCM 8 kHz
Input	Microphone in (integrated on F-models)

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
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	IP66 (EN60529) (-S Model), IK-10
CoO	Made in the USA

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)
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	5.59 Watts DC Power

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Mechanical

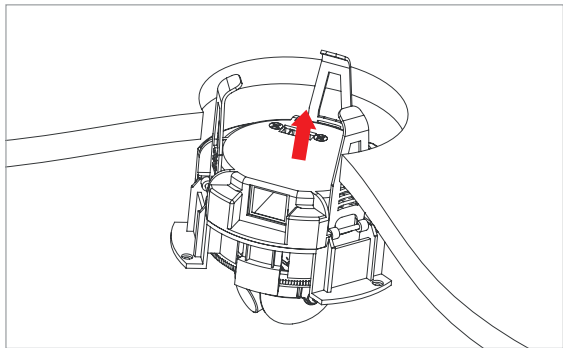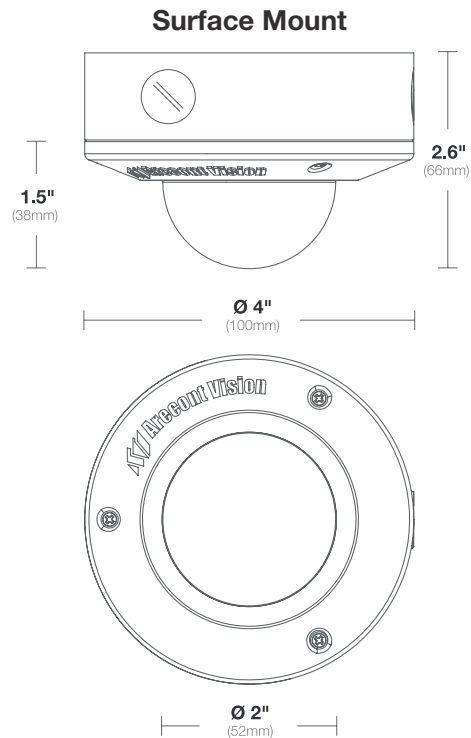|		
Casing	Tamper-resistant housing, IK-10 Impact-resistant	
	-F Model	In-ceiling mount with die-cast aluminum cover and 2" polycarbonate dome bubble
	-S Model	Surface mount with die-cast aluminum housing and 2" polycarbonate dome bubble
		IP66 weather proof standard
		3/8" NPT w/ 1/2" NPT adapter included
Lens	2.8mm board mount (M12), fixed iris, F/2.0 (except -NL models)	
Gimbal	Easy 3-axis camera adjustment w/ 359° pan and 90° tilt and 360° z-axis	
Dimensions *(See Dimensions)*	**Unit**	Ø 4" (100mm) x 3.1" H (78.5mm)
	Packaged	5.6" W (142mm) x 5.6" L (142mm) x 3.5" H (90mm)
Weight	**Unit**	0.7lbs (0.3kg)
	Packaged	1.3lbs (0.6kg)
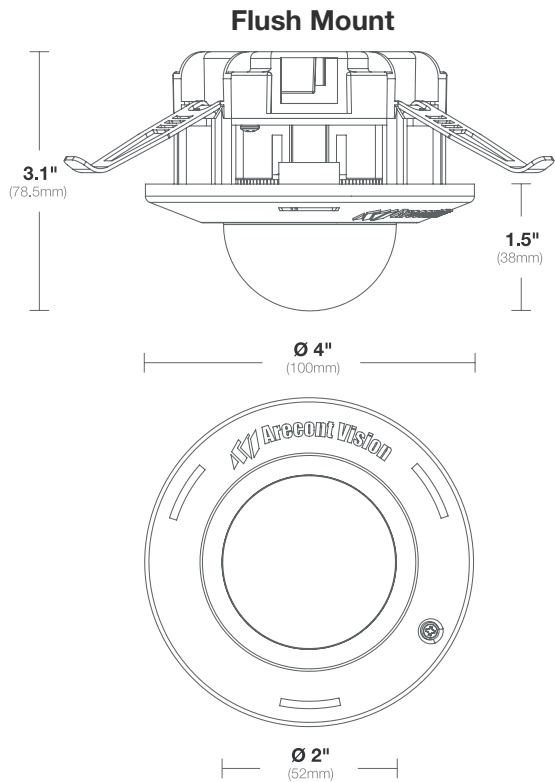
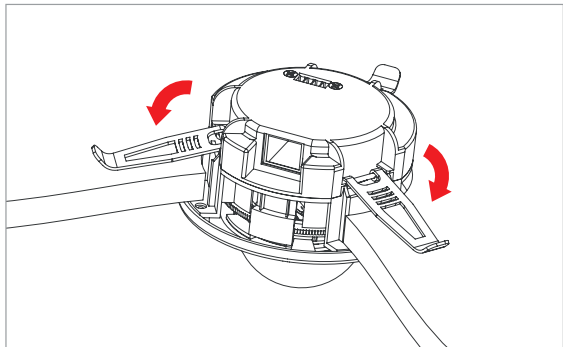## Quick Installation (Flush Mount Models)

1 Push the three spring actuated retention arms in the upward position.

2 The retention arms lock into place.

Dimensions

Flush Mount

3.1" (78.5mm)

1.5" (38mm)

Ø 4" (100mm)

Ø 2" (52mm)

Surface Mount

2.6" (66mm)

1.5" (38mm)

Ø 4" (100mm)

Ø 2" (52mm)

See Next Page for Ordering Information

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Ordering Information

Model Specific Features

Model	Resolution	Frame Rate	Features		
AV1555DN	1.2MP	37fps	-	-	NightView™
AV2555DN	1080p	30fps	-	Casino Mode™	-
AV2556DN	1080p	30fps	WDR	-	-
AV3555DN	3MP	21fps	-	-	Binning
AV3556DN	3MP	21fps	WDR		Binning
AV5555DN	5MP	14fps	-		Binning

Options

-F	Flush Mount
-S	Surface Mount
-NL	No Lens

Configurations

Flush Mount (-F)   Surface Mount (-S)

Model Numbers

1.2MP	AV1555DN-F	NightView™	AV1555DN-F-NL	NightView™
	AV1555DN-S	NightView™	AV1555DN-S-NL	NightView™
1080p	AV2555DN-F		AV2555DN-F-NL	
	AV2555DN-S		AV2555DN-S-NL	
	AV2556DN-F	WDR	AV2556DN-F-NL	WDR
	AV2556DN-S	WDR	AV2556DN-S-NL	WDR
3MP	AV3555DN-F		AV3555DN-F-NL	
	AV3555DN-S		AV3555DN-S-NL	
	AV3556DN-F	WDR	AV3556DN-F-NL	WDR
	AV3556DN-S	WDR	AV3556DN-S-NL	WDR
5MP	AV5555DN-F		AV5555DN-F-NL	
	AV5555DN-S		AV5555DN-S-NL	

Lens Options (Sold Separately)

Model	Focal Length	Horizontal Field of View					
		1.2MP	1080p	1080p WDR	3MP	3MP WDR	5MP
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 MicroDome® G2 Except on "-NL" Models

Accessories (-S Models Only)

AV-EBA	Electrical box adapter plate accessory
MCD-CMT	Pendant mount with 3/4" NPT standard
MCD-WMT	Wall mount with 3/4" NPT standard
MCD-4S	Electrical box surface mount cover

Create Your Model   (Example: AV2556DN-F-NL)

Megapixel Resolution	Body Generation	Body Type	Compression	True Day/Night	Mount Type	Lens

AV → [1 / 2 / 3 / 5] → 5 → 5** → [5 Standard / 6 WDR***] → DN True Day/Night → [F Flush Mount / S Surface Mount] → [4mm Lens / NL No Lens]
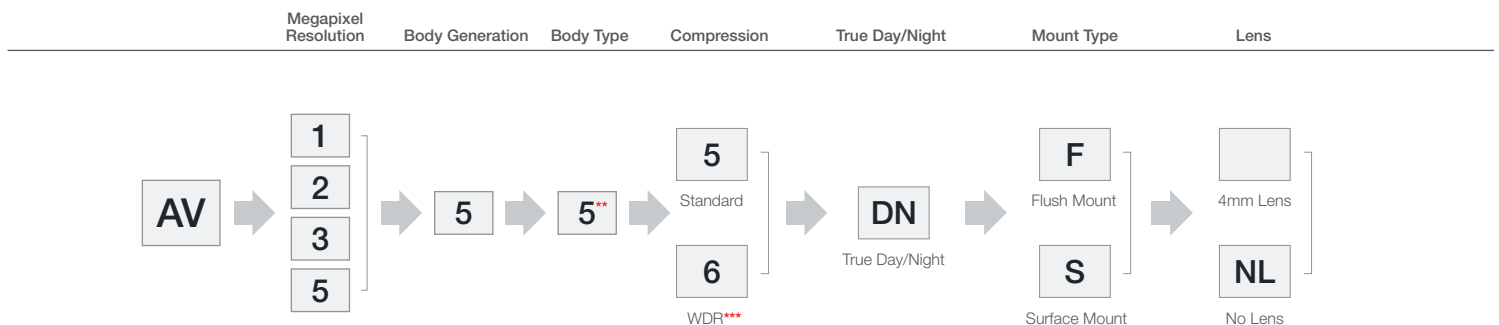
** "5" represents MicroDome® G2 product line
*** WDR for AV2556 and AV3556 models only

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