MegaIP™

Arecont Vision®
A COSTAR COMPANY

MicroDome® Duo IP Megapixel Cameras

4, 6, and 10 Megapixel (MP) H.264 All-in-One Remote Focus User-Configurable Multi-Sensor True Day/Night Indoor/Outdoor Dome IP Cameras with Enhanced WDR™ (Wide Dynamic Range) Models



The MicroDome® Duo series features twin multi-megapixel cameras in a compact housing, and is ideal for a variety of professional indoor/outdoor surveillance requirements. Applications include coverage of a hallway or walkway, monitoring POS terminals or ATMs, or for viewing of a single wide area or two distinct regions.

The extremely compact MicroDome Duo series offers 4-, 6-, or 10-megapixel (MP) resolution models, with choice of 2.1mm, 2.8mm, 4mm, 6mm, 8mm, 12mm, or 16mm lenses. The MicroDome Duo is ideal for applications with challenging lighting conditions regardless the time of day, supported by dual day/night mechanical IR cut filters. For applications with strong backlighting, reflections from wet flooring/puddles, or contrast due to fog, mist, or glare, Enhanced WDR™ wide dynamic range is available on select 4MP and 6MP models. MicroDome Duo features CorridorView™ for better coverage of hallways and corridors.

Built-in remote focus capability allows installers to simply click “Short-range Focus” or “Full-range Focus” for rapid setup. The three-axis lens adjustment provides multiple camera placement options, allowing the MicroDome Duo to be easily mounted on a wall or ceiling, while the installer can pan, tilt, and rotate the lens in a variety of directions for a precise field of view.

The installer-friendly MicroDome Duo enclosure shortens the installation process. MicroDome Duo is in an IP66 rated surface mount for use in both indoor and outdoor applications. All models feature an impact resistant, IK-10 rated cast-aluminum housing with dual polycarbonate bubbles, capable of withstanding the equivalent of 55 kg (120 lbs) of force.

The MicroDome Duo is ONVIF Profile S (Open Network Video Interface Forum) compliant, providing interoperability between network video products regardless of manufacturer.



Interchangeable Lenses with Remote Focus Module



CorridorView™ with 90° Image Flip



Hallway Capable



Enhanced WDR™ Wide Dynamic Range on Select 4 and 6MP Models



True Day/Night with IR Cut Filter



Pixel Binning Mode on 6 and 10MP Models



Ultra Low Profile Design



3-Axis Gimbal



Impact / Weather Resistant IK-10 and IP66 Rated

Series Features

- 4, 6, or 10MP Models
- Strong Low Light Performance with Binning Mode for 6MP and 10MP Models
- True Day/Night Functionality with Mechanical IR Cut Filter
- Enhanced WDR™ up to 100dB at Full Resolution: See Clearly in Shaded and Bright Light Conditions Simultaneously on Select 4MP and 6MP 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
- Remote Focus Module
- Multiple Lens Options Available (Sold Separately)
- Dual Encoder H.264/MJPEG
- Network Protocols Include DHCP, and More
- All-in-One H.264 Total Power Over Ethernet (PoE) Solution
- Easily Adjustable 3-Axis Gimbal
- Ultra Low Profile Design / Small Size
- Outdoor Rated IP66 and IK-10 Impact-Resistant Housing

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ONVIF S

Camera Imaging Specifications

Model		AV4655DN	AV4656DN	AV6655DN	AV6656DN	AV10655DN
Image Sensor (CMOS)		4MP (2 x 1080p)	4MP (2 x 1080p)	6MP (2 x 3MP)	6MP (2 x 3MP)	10MP (2 x 5MP)
Optical Format		1/3"	1/3.2"	1/3"	1/3.2"	1/2.5"
Pixel Pitch		2.2µm	2.2µm	2.2µm	2.2µm	2.2µm
Minimum Illumination	Color (Day Mode)	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)	0.02 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		Total 3840 H x 1080 V	Total 3840 H x 1080 V	Total 4096 H x 1536 V	Total 4096 H x 1536 V	Total 5120 H x 1920 V
		Per Sensor 1920 H x 1080 V	Per Sensor 1920 H x 1080 V	Per Sensor 2048 H x 1536 V	Per Sensor 2048 H x 1536 V	Per Sensor 2560 H x 1920 V
1/4 Resolution		Total 1920 H x 540 V	Total 1920 H x 540 V	Total 2048 H x 768 V	Total 2048 H x 768 V	Total 2560 H x 960 V
		Per Sensor 960 H x 540 V	Per Sensor 960 H x 540 V	Per Sensor 1024 H x 768 V	Per Sensor 1024 H x 768 V	Per Sensor 1296 H x 960 V
Dynamic Range		69.5dB	WDR up to 100dB	69.5dB	WDR up to 100dB	70.1dB
Frame Rates*	At Max Resolution	15fps (3840 x 1080)	15fps (3840 x 1080)	10fps (4096 x 1536)	10fps (4096 x 1536)	7fps (5120 x 1920)
	1/4 Resolution	24fps (1920 x 590)	24fps (1920 x 590)	17fps (2048 x 768)	17fps (2048 x 768)	10fps (2560 x 960)
	Binning Mode	-	-	34fps (2048 x 768)	17fps (2048 x 768)	26fps (2560 x 960)
Lens	2.8mm Lens Option (-28 Models)	2.8mm, F1.8, H-FOV = 83°	2.8mm, F1.8, H-FOV = 83°	2.8mm, F1.8, H-FOV = 88°	2.8mm, F1.8, H-FOV = 88°	2.8mm, F1.8, H-FOV = 114°
	8mm Lens Option (-08 Models)	8mm, F1.6, H-FOV = 30°	8mm, F1.6, H-FOV = 30°	8mm, F1.6, H-FOV = 33°	8mm, F1.6, H-FOV = 33°	8mm, F1.6, H-FOV = 43°

* Maximum with H.264 compression

Programmability

Optics	M12 lens and remote focus module
Low Light Performance	**Pixel Binning Mode** 6MP 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
Flexible Cropping	Resolution windowing down to 1x1 pixel for JPEG and 2x2 pixels for H.264
Backlight Compensation	Reference windows for auto exposure and 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	HTTP, RTSP, RTP/TCP, RTP/UDP, TFTP, DHCP
Network Interface	100Base-T Ethernet
Multi-Streaming	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
Mechanical	IP66 (EN60529), IK-10
CoO	Made in the USA

Environmental

Operating Temperature	-40°C (-40°F) to +50°C (122°F)
Humidity	0% to 90% (non-condensing)
Storage Temperature	-40°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	7.9W DC power max

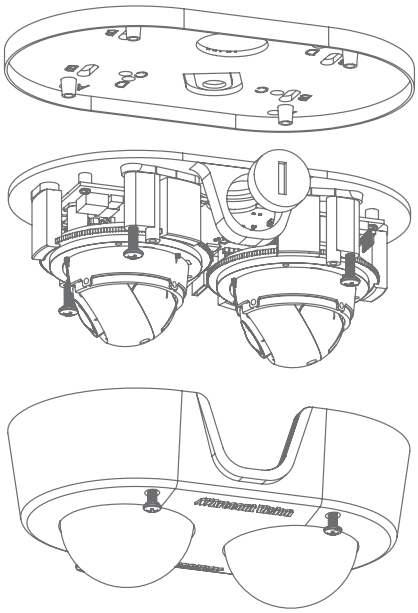
See Next Page for Mechanical Specs

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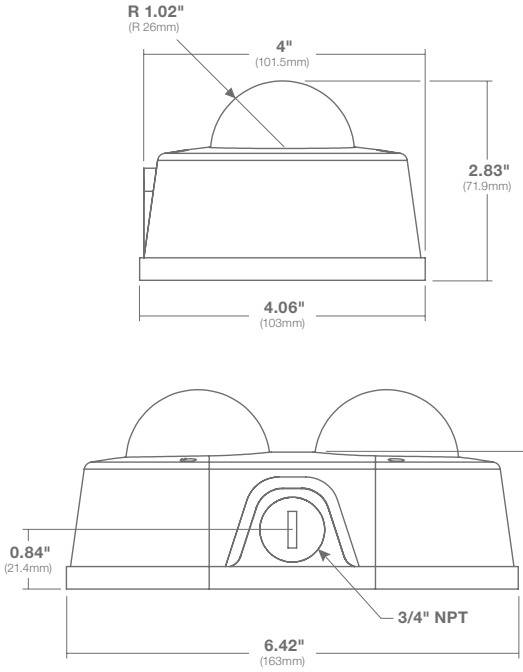
Mechanical

Casing	Tamper-resistant housing, IK-10 Impact-resistant	
	Surface mount with die-cast aluminum housing and 2" polycarbonate dome bubble	
	IP66 weather proof standard	
	3/4" NPT	
Mount	Mount plate with electrical box adapter holes (included)	
Gimbal	Easily adjustable, 3-axis w/360° pan, 90° tilt, and 360° z-axis	
Dimensions *(See Dimensions)*	**Unit**	2.83" H (71.9mm) x 4.06" W (103mm) x 6.42" L (163mm)
	Packaged	3.74" H (95mm) x 4.72" W (120mm) x 7.09" L (180mm)
Weight	**Unit**	1.95lbs (0.88kg)
	Packaged	2.4lbs (1.09kg)

Quick Installation



Dimensions



See Next Page for Ordering Information

MicroDome® Duo IP Megapixel Cameras

Ordering Information



Model Numbers

4MP	AV4655DN-28	AV4655DN-08	AV4655DN-NL
	AV4656DN-28 WDR	AV4656DN-08 WDR	AV4656DN-NL WDR
6MP	AV6655DN-28	AV6655DN-08	AV6655DN-NL
	AV6656DN-28 WDR	AV6656DN-08 WDR	AV6656DN-NL WDR
10MP	AV10655DN-28	AV10655DN-08	AV10655DN-NL

Model Specific Features

Model	Resolution	Frame Rate*	Features	
AV4655DN	4MP	15fps	-	-
AV4656DN	4MP	15fps	WDR	-
AV6655DN	6MP	10fps	-	Binning
AV6656DN	6MP	10fps	WDR	Binning
AV10655DN	10MP	7fps	-	Binning

* Maximum with H.264 compression

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[1]	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°

[1] Standard lens for MicroDome Duo except on "-NL" models

Options

-28	2.8mm Lens
-08	8mm Lens
-NL	No Lens

Accessories

AV-EBAS	Square Electrical Box Adapter Plate
MDD-CMT	Pendant Mount with 1/2" NPT Standard for MicroDome® Duo
MDD-FMA	Flush Mount Adapter for MicroDome Duo
MDD-WMT	Wall Mount with 1/2" NPT Standard for MicroDome Duo

Configurations



Create Your Model (Example: **AV10655DN-08**)

Megapixel Resolution	Body Generation	Body Type	Compression	True Day/Night	Lens
AV	4 / 6 / 10	6[2]	5[2]	5 H.264 / 6 H.264 + WDR[3]	DN True Day/Night	28 2.8mm Lens / 08 8mm Lens / NL No Lens

[2] "65" represents MicroDome Duo product line [3] WDR for AV4656 and AV6656 models only

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Rev 001.003