

MicroDome™

H.264 Ultra Low Profile Recessed Mount Day/Night IP Camera



Arecont Vision introduces MicroDome™ megapixel IP cameras. These small, ultra low profile cameras offer the great features of Arecont Vision megapixel technology like superior image quality, excellent compression and fast frame rates. An innovative spring arm design makes installation a snap: simply slide the camera through the hole and secure the magnetized cover ring with a single screw. Every model comes equipped with a mechanical day/night switcher, and pixel binning on 3- and 5-megapixel models deliver excellent low-light capabilities. Add optional true Wide Dynamic Range (WDR) and difficult lighting conditions are overcome with MicroDome™.



Ultra Low Profile Design



True Day/Night with Mechanical IR Cut Filter



All-in-One PoE and Integrated Lens



Integrated Microphone



Pixel Binning Mode on 3 and 5MP Models



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



Dual Encoder H.264/MJPEG



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

Features:

- Very Easy Installation / Factory Focused
- Ultra Low Profile Design / Small Size
- 1.3- to 5-Megapixel Resolution
- True Day/Night Functionality with Mechanical IR Cut Filter
- Optional True WDR up to 100dB at Full Resolution Available on Some 1080p and 3MP Models: See Clearly in Shaded and Bright Light Conditions Simultaneously
- All-in-one H.264 Total Power over Ethernet (PoE) Solution with Integrated 4mm Lens and Dome Housing
- Multiple Lens Options Available
- Integrated Microphone
- Dual Encoder H.264/MJPEG
- Binning Mode for Strong Low Light Performance in 3MP and 5MP Resolutions

- Fast Frame Rates
- Privacy Mask, Motion Detection, Flexible Cropping and Forensic Zooming
- Casino Mode™ Guarantees Continuous 30fps Frame Rate Required by Gaming Industry Regulations (AV2455 Model)
- New User-Friendly Webpage
- ONVIF and PSIA Conformant for Maximum Interoperability
- Made in the USA

Model Specific Features:

AV1455DN-F	1.3MP	1280 x 1024	42fps	-	-	-
AV2455DN-F	1080p	1920 x 1080	31fps	-	Casino Mode™	-
AV2456DN-F	1080p	1920 x 1080	30fps	WDR	-	-
AV3455DN-F	3MP	2048 x 1536	21fps	-	-	Binning
AV3456DN-F	3MP	2048 x 1536	21fps	WDR	-	Binning
AV5455DN-F	5MP	2592 x 1944	14fps	-	-	Binning



Camera Imaging Specifications

Camera Imaging Specifications				WDR		WDR	
Model		AV1455DN-F	AV2455DN-F	AV2456DN-F	AV3455DN-F	AV3456DN-F	AV5455DN-F
Image Sensor (CMOS)		1.3MP	2.07MP (1080p)	2.07MP (1080p)	3MP	3MP	5MP
Optical Format		1/2.7"	1/2.7"	1/3.2"	1/2.5"	1/3.2"	1/2.5"
Pixel Pitch		3µm	3µm	2.2µm	2.2µm	2.2µm	2.2µm
Minimum Illumination	Color	0.1 Lux @ F1.6	0.1 Lux @ F1.6	0.3 Lux @ F1.6	0.3 Lux @ F1.6	0.5 Lux @ F1.6	0.5 Lux @ F1.6
	Color Binning	-	-	-	0.15 Lux @ F1.8	0.15 Lux @ F1.4	0.15 Lux @ F1.8
	Day/Night	0 Lux, IR sensitive	0 Lux, IR sensitive	0 Lux, IR sensitive	0 Lux, IR sensitive	0 Lux, IR sensitive	0 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	2592 H x 1944 V
1/4 Resolution		640 H x 512 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		69dB	69dB	WDR up to 100dB	70.1dB	WDR up to 100dB	70.1dB
Lens		4mm Integrated	4mm Integrated	4mm Integrated	4mm Integrated	4mm Integrated	4mm Integrated
Frame Rates	At Max Res.	42fps (1280 x 1024)	31fps (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)	29fps (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)

Data Transmission

Compression Type	H.264 (MPEG-4, Part 10)/Motion JPEG 21 levels of quality
Transmission Protocols	RTSP, RTP/TCP, RTP/UDP, HTTP, TFTP, DHCP
Data Rate	Bit rate control from 100Kbps–10Mbps 100Base-T Ethernet Network Interface
Multi-Streaming	8 non-identical streams

Mechanical

Casing	In-ceiling mount with die-cast aluminum cover and 2" polycarbonate dome bubble	
	Vandal resistant	
Lens	4mm board mount (M12), fixed iris, 1.6mm aperture	
Gimbal	Easy 2 axis camera adjustment w/ 359° pan and 90° tilt	
Dimensions	Ø 4" (100mm) x 3.1" H (78.5mm)	
Weight	Unit	0.7lbs (1.27kg)
	Packaged	1.3lbs (1.54kg)

Programmability

Motion Detection and privacy mask with 1024 detection zones
Shutter Speed: 1ms – 500ms
Pixel Binning Mode (3MP and 5MP models)
Auto adjust between WDR and LDR modes (WDR models)
Casino Mode™ maintains 30fps (AV2455 model)
MoonLight™ Mode: extended exposure and proprietary noise cancellation
Flexible Cropping (resolution windowing down to 1x1 pixel for JPEG and 2x2 pixels for H.264)
Low light noise filter control
Bit rate and bandwidth limitation control
Backlight compensation and multi-matrix white balance
50/60Hz selectable flicker control
Electronic pan, tilt, zoom (PTZ) and image flip 180°
Programmable resolution, brightness, saturation, gamma, sharpness, tint

Compliance

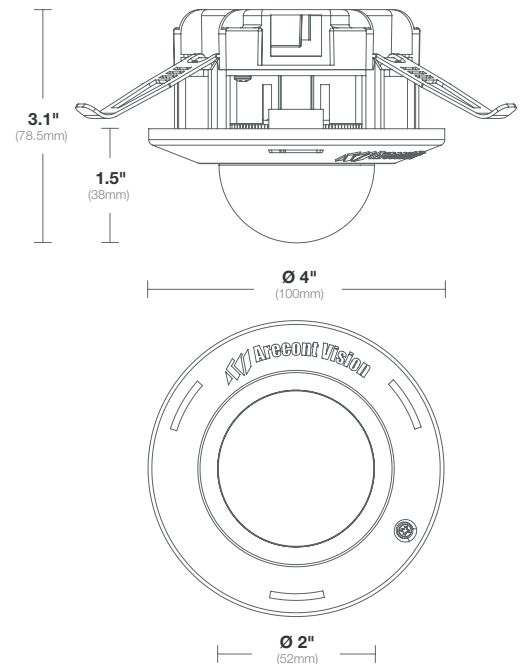
Industry Standard	PSIA and ONVIF Conformant
Listings	UL (CB)
FCC Compliance	47 CFR 15 Class A
Environmental	RoHS, REACH, WEEE
Markings	(CE) EN55022 Class A, EN55024, EN61000-3-2, EN61000-3-3, EN60950-1

Environmental

Operating temperature	-5°C (23°F) to +50°C (122°F)
Humidity	0% to 90% (non-condensing)
Stable image temperature	0°C (32°F) to +50°C (122°F)
Storage temperature	-20°C (-4°F) to +60°C (140°F)

Electrical

Input/Output	General purpose opto-coupled
Power Over Ethernet	PoE 802.3af, Class 3
Max Power Consumption	5.59 Watts



Lens Options

Focal Length	2.8mm	4mm	6mm	8mm	12mm	16mm
Horiz. FOV	1.3MP	71	53	35	26	13
	1080p	106	79	52	39	20
	1080p WDR	83	59	42	31	15
	3MP	90	66	46	34	17
	3MP WDR	88	63	45	33	16
	5MP	114	83	58	43	22
Option	Ordered Separately	Standard	Ordered Separately	Ordered Separately	Ordered Separately	Ordered Separately
Part Number	MPM2.8	-	MPM6.0	MPM8.0	MPM12.0	MPM16.0