

Leading the Way in Megapixel Video

MegaBall[®]

H.264 All-in-One Manual Lens or Motorized P-Iris Lens Day/Night Indoor IP Cameras (WDR option in 1080p and 3MP)

MegaBall® Cameras

1.3Megapixel	1080p	1080p WDR	3Megapixel	3Megapixel WDR	5Megapixel
AV1145DN-04-W	AV2145DN-04-W	AV2146DN-04-W	AV3145DN-04-W	AV3146DN-04-W	AV5145DN-04-W
AV1145DN-04-D	AV2145DN-04-WA	AV2146DN-04-D	AV3145DN-04-D	AV3146DN-04-WA	AV5145DN-04-D
AV1145DN-04-D-LG	AV2145DN-04-D	AV2146DN-04-D-LG	AV3145DN-04-D-LG	AV3146DN-04-D	AV5145DN-04-D-LG
AV1145DN-3310-W	AV2145DN-04-D-LG	AV2146DN-3310-W	AV3145DN-3310-W	AV3146DN-04-D-LG	AV5145DN-04-DA
AV1145DN-3310-D	AV2145DN-04-DA	AV2146DN-3310-D	AV3145DN-3310-D	AV3146DN-04-DA	AV5145DN-04-DA-LG
AV1145DN-3310-D-LG	AV2145DN-04-DA-LG	AV2146DN-3310-D-LG	AV3145DN-3310-D-LG	AV3146DN-04-DA-LG	AV5145DN-3310-W
	AV2145DN-3310-W			AV3146DN-3310-W	AV5145DN-3310-WA
	AV2145DN-3310-WA			AV3146DN-3310-WA	AV5145DN-3310-D
	AV2145DN-3310-D			AV3146DN-3310-D	AV5145DN-3310-D-LG
	AV2145DN-3310-D-LG			AV3146DN-3310-D-LG	
	AV2145DN-3310-DA			AV3146DN-3310-DA	
	AV2145DN-3310-DA-LG			AV3146DN-3310-DA-LG	



Stylish **Mega**Ball® multi-megapixel cameras provide ample resolution to zoom-in for details in live or recorded video. These indoor all-in-one solutions integrate a 1.3, 1080p, 3 or 5-megapixel camera with fast frame rates and a choice of IR corrected 4mm fixed or 3.3–10mm vari-focal lens with an adjustable wall mount or flush and surface mount dome housing. H.264 compression

reduces network bandwidth and storage requirements while delivering full frame rates and full resolution without sacrificing image quality. Day/Night functionality allows for 24-hour surveillance. Wide Dynamic Range (WDR) up to 100dB at full resolution balances light and dark areas in the same scene (1080p and 3MP). Binning mode for increased low-light sensitivity is available for 3MP and 5MP cameras.



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



All-in-One Ball Solution



True Day/Night with IR Cut Filter



Pixel Binning Mode on 3 and 5MP Models



Integrated Microphone on -A Models



Dual Encoder



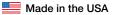
Casino Mode™ Maintains at Least 30fps on 1080p Models

Foatures

- All-in-One H.264 Indoor 3" Ball Shape Day/Night Solution
- 4mm Fixed Focal and 3.3–10mm Vari-Focal Lens Options
- Tamper Resistant
- Integrated Microphone and Audio Out (-A Models Only)
- Wall Mount Bracket and Dome Configurations
- · Light Gray and Black Dome Options
- · Installer Friendly
 - External Lens Adjustment
 - Cable Management
 - 3-Axis Adjustment
 - In-Ceiling and Surface Mounting
 - Bubble Option

- PSIA Conformant
- New User-Friendly Webpage
- True WDR up to 100dB at Full Resolution Allows Users to See Clearly in Shaded and Bright Light Conditions Simultaneously
- Casino Mode[™] to Maintain 30fps or Better (1080p Models)
- Binned Mode to Increase Low Light Performance (3MP and 5MP Models)
- · Privacy Mask, Motion Detection, Flexible Cropping and Forensic Zooming
- True Day/Night Functionality with Removable IR Cut Filter







Model Specific Features

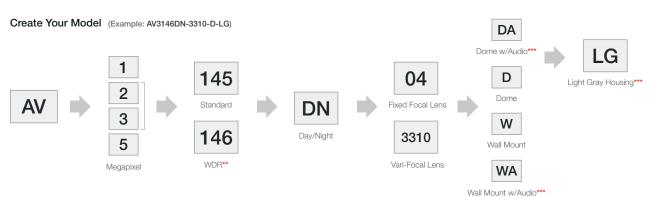
AV1145DN	1.3MP Effective	42fps	-	-	-
AV2145DN	1080p	31fps	-	Casino Mode™	-
AV2146DN	1080p Effective	30fps	WDR	-	-
AV3145DN	3MP Effective	21fps	-	-	Binning
AV3146DN	ЗМР	21fps	WDR	-	Binning
AV5145DN	5MP	14fps	-	-	Binning

Build-to-Order Options

-w	Wall Mount Model
-D	Dome or Recessed Dome Model
-3310	3.3mm–10mm Vari-Focal Lens
-04	4mm Fixed Focal Lens
-A	Audio
-LG	Light Gray

Ex: AV3145DN-3310-DA-LG

Light Gray 3MP **Mega**Ball® Dome version with 3.3-10mm Lens and Audio



^{*}All WDR models have Day/Night functionality

Camera Imaging Specifications

Model		AV1145	AV2145	AV2146	AV3145	AV3146	AV5145
Image Sensor (CMOS)		1.3MP Effective	1080p	1080p*	3MP*	3MP	5MP
Optical Forma	t	1/2.7"	1/2.7"	1/3.2"	1/2.5"	1/3.2"	1/2.5"
Pixel Pitch		3µт	3µm	2.2µm	2.2µm	2.2µm	2.2µm
	Color (day mode)	0.1 Lux	0.1 Lux	0.3 Lux	0.3 Lux	0.3 Lux	0.3 Lux
Minimum Illumination	Color Binning (day mode)	-	-	-	0.15 Lux	0.15 Lux	0.15 Lux
mammation	B/W (night mode)	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
	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)
Frame Rates	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)
Lens H-FOV	4mm, 1/2.5", F1.6 (- 04 version)	55°	82°	63°	71°	68°	90°
	3.3-10mm, 1/2.5", F1.6 (- 3310 version)	62°-24°	93°-36°	68°-26°	73°-28°	72°-28°	92°-36°

^{*}effective





^{**}WDR for 2MP (1080p) and 3MP models only

^{***}Audio and Light Gray dome housing only available in some configurations



Data Transmission

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

Programmability

Motion Detection and privacy mask with 1024 detection zones
Pixel Binning Mode (3MP and 5MP)
Auto adjustment between WDR and LDR models (1080p and 3MP WDR)
Casino Mode™ maintains 30fps (AV2145 model)
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
Electronic pan, tilt, zoom (PTZ) and image flip 180°, 50/60Hz selectable flicker control
Programmable resolution, brightness, saturation, gamma, sharpness, tint, shutter speed

Compliance

Industry Standard	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

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)

General Electrical

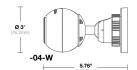
General purpose opto-coupled		
General purpose opto-coupled (non -A)		
PoE 802.3af, Class 2		
12-48V DC, 24V AC		
AV1145 / AV2145 5.0 Watts DC Power		
AV3145 / AV5145	5.3 Watts DC Power	
AV2146 / AV3146	6.0 Watts DC Power	
	General purpose of PoE 802.3af, Class 12–48V DC, 24V A0 AV1145 / AV2145 AV3145 / AV5145	

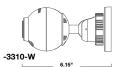
Audio Electrical (-A models only)

Streaming	Two-way
Compression	G.711 PCM 8 kHz
Input/Output	Integrated microphone / line output

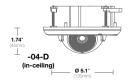
Mechanical

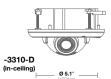
Casing -W		Die-cast aluminum 3" metal ball and mount				
	-D	Plastic surface/in-ceiling dome w/ Acrylic bubble				
Lens	Lens -3310 External lens adjustment for zoom, focus and iris			cus and iris		
	-04	External lens adjus	stment for focus			
Gimbal		Easy 3-axis camera adjustment w/360° pan, 90° tilt and 360° z-axis				
Dimensio	ns	-04-W	Ø 3" (76.2mm) x 5.76" H (146.2mm)			
		-3310-W	Ø 3" (76.2mm) x 6.15" H (156.2mm)			
		-D (in-ceiling)	Ø 5.1" (130mm) x 1.74" H (44mm)			
		-D (surface mount w/ bubble)	Ø 5.1" (130mm) x 3.85" H (98mm)			
			Camera Unit	Packaged		
Weight		-W	1.2lbs (0.54kg)	2.0lbs (0.9kg)		
		-D	1.2lbs (0.54kg)	1.9lbs (0.86kg)		
Dome Color		-LG	Light Gray Dome			



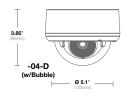


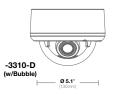














Accessories

D4S-WMT-B	Black wall mount with 3/4" NPT standard
D4S-CMT-B	Black ceiling mount with 3/4" NPT standard
D4S-WMT	Wall mount with 3/4" NPT standard
D4S-CMT	Ceiling mount with 3/4" NPT standard
SV-EBA	Electrical box adapter
SV-JBA	Junction box adapter





