

## MegaBall™

All-in-One Cameras with Fixed or Vari-Focal Lens Options

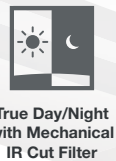
### MegaBall™ Cameras

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-D	AV2146DN-04-D	AV3145DN-04-D	AV3146DN-04-D	AV5145DN-04-D
AV1145DN-04-D-LG	AV2145DN-04-D-LG	AV2146DN-04-D-LG	AV3145DN-04-D-LG	AV3146DN-04-D-LG	AV5145DN-04-D-LG
AV1145DN-3310-W	AV2145DN-3310-W	AV2146DN-3310-W	AV3145DN-3310-W	AV3146DN-3310-W	AV5145DN-3310-W
AV1145DN-3310-D	AV2145DN-3310-WA	AV2146DN-3310-D	AV3145DN-3310-D	AV3146DN-3310-WA	AV5145DN-3310-WA
AV1145DN-3310-D-LG	AV2145DN-3310-D	AV2146DN-3310-D-LG	AV3145DN-3310-D-LG	AV3146DN-3310-D	AV5145DN-3310-D
	AV2145DN-3310-DA			AV3146DN-3310-DA	AV5145DN-3310-DA
	AV2145DN-3310-D-LG			AV3146DN-3310-D-LG	AV5145DN-3310-D-LG
	AV2145DN-3310-DA-LG			AV3146DN-3310-DA-LG	AV5145DN-3310-DA-LG



Stylish MegaBall™ 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.



### Features:

- 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 Housing
- 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 and ONVIF 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 (on Some 1080p Models)
- Binning Mode for Strong Low Light Performance 3MP and 5 MP Resolutions
- Privacy Mask, Motion Detection, Flexible Cropping and Forensic Zooming
- True Day/Night Functionality with Mechanical IR Cut Filter



Model Specific Features

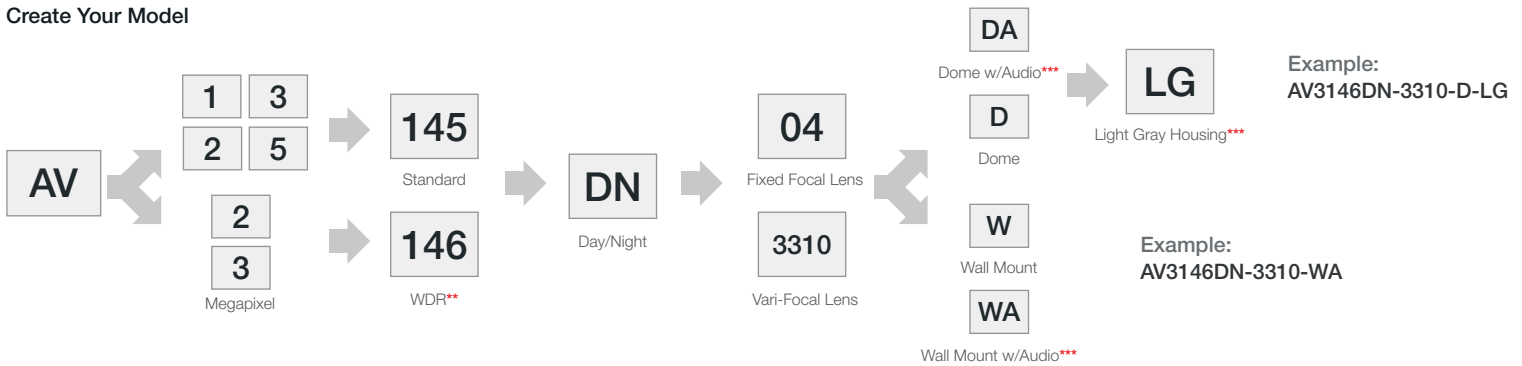
AV1145DN	1.3MP Effective	42fps	-	-	-
AV2145DN	1080p	31fps	-	Casino™ Mode	-
AV2146DN	1080p Effective	30fps	WDR	-	-
AV3145DN	3MP Effective	21fps	-	-	Binning
AV3146DN	3MP	21fps	WDR	-	Binning
AV5145DN	5MP	14fps	-	-	Binning

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 Dome

Ex: AV2145DN-3310-DA-LG  
 MegaBall™ 1080p Dome camera with 3.3-10mm Lens with Audio in Light Gray

Create Your Model



\*All MegaBall models have Day/Night functionality  
 \*\*WDR for 2MP (1080p) and 3MP models only  
 \*\*\*Audio and Light Gray dome housing only available in some configurations

Camera Imaging Specifications

Model		AV1145	AV2145	AV2146	AV3145	AV3146	AV5145
<b>Image Sensor (CMOS)</b>		1.3MP Effective	2.07MP (1080p)	2.07MP (1080p) Effective	3MP Effective	3MP	5MP
<b>Optical Format</b>		1/2.7"	1/2.7"	1/3.2"	1/2.5"	1/3.2"	1/2.5"
<b>Pixel Pitch</b>		3µm	3µm	2.2µm	2.2µm	2.2µm	2.2µm
<b>Minimum Illumination</b>	Day/Night (-DN Version)	0 Lux, IR sensitive	0 Lux, IR sensitive	0 Lux, IR sensitive	0 Lux, IR sensitive	0 Lux, IR sensitive	0 Lux, IR sensitive
<b>Full FOV Resolution</b>		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
<b>1/4 Resolution</b>		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
<b>Dynamic Range</b>		69dB	69dB	WDR up to 100dB	70.1dB	WDR up to 100dB	70.1dB
<b>Frame Rates</b>	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)
<b>Lens H-FOV</b>	4mm, 1/2.5", F1.6 (- 04 version)	55°	82°	63°	71°	68°	90°
	3.3-10mm, 1/2.5", F1.6 (- 3310 version)	61°-21°	90°-31°	73°-26°	75°-25°	78°-28°	95°-32°

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

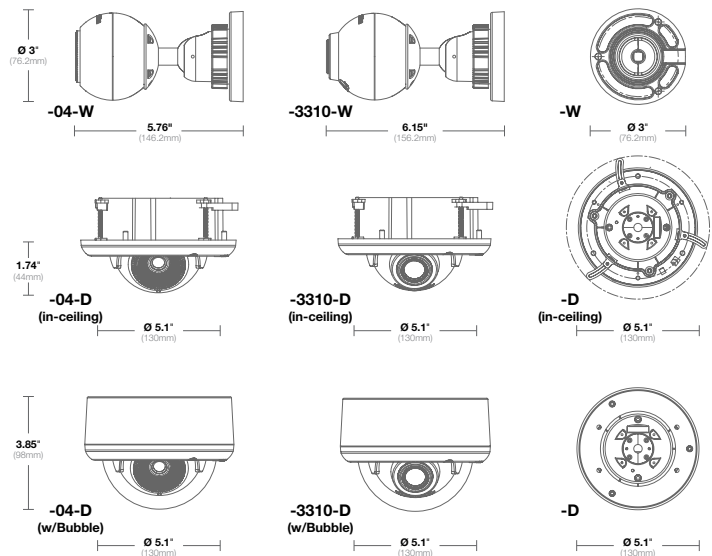
Compliance	<b>Industry Standard</b>	PSIA and ONVIF Conformant
	<b>Listings</b>	UL (CB)
	<b>FCC Compliance</b>	47 CFR 15 Class A
	<b>Environmental</b>	RoHS, REACH, WEEE
	<b>Markings</b>	(CE) EN55022 Class A, EN55024, EN61000-3-2, EN61000-3-3, EN60950

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

General Electrical	<b>Digital Input</b>	General purpose opto-coupled
	<b>Digital Output</b>	General purpose opto-coupled (non -A)
	<b>Power Over Ethernet</b>	PoE 802.3af, Class 2
	<b>Auxiliary Power</b>	12-48V DC, 24V AC
	<b>Max Power Consumption</b>	AV1145 / AV2145    5.0 Watts DC Power AV3145 / AV5145    5.3 Watts DC Power AV2146 / AV3146    6.0 Watts DC Power

Audio Electrical (-A models only)	<b>Streaming</b>	Two-way
	<b>Compression</b>	G.711 PCM 8 kHz
	<b>Input/Output</b>	Integrated microphone / line output

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



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