ConteraIP® Outdoor Dome EX Megapixel Camera

5 Megapixel (MP) H.265/H.264 All-in-One Motorized P-Iris Lens True Day/Night Indoor/Outdoor Dome IP Camera with SNAPstream+™ (Smart Noise Adaptation and Processing), Enhanced WDR™ (Wide Dynamic Range), NightView™, Smart IR, and Video Analytics

H.265

The ConteraIP® Outdoor Dome EX megapixel camera features 5-megapixel (MP) resolution for optimum performance. The ConteraIP Outdoor Dome combines a day/night mechanical IR cut filter with an integrated motorized remote focus and zoom precision iris (P-iris) lens for excellent, optimal image quality. The ConteraIP Outdoor Dome EX is ONVIF (Open Network Video Interface Forum) Profile S, G, Q and T compliant, providing interoperability between network video products regardless of manufacturer.
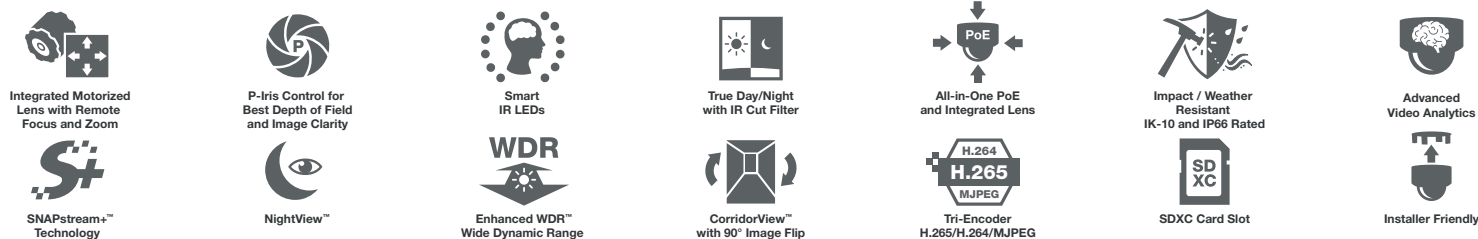
The inclusion of on camera video analytics gives the ConteraIP Outdoor Dome EX the ability to increase situational awareness and gather data for business intelligence. Alarm conditions can be setup to alert security for observed behaviors. Several of the analytic behaviors can also be used for business intelligence data gathering, such as the loitering behavior for tracking dwell time in retail environments.

Regardless of the time of day, the ConteraIP Outdoor Dome EX is prepared for any lighting condition. Enhanced WDR™ (wide dynamic range) at 120dB provides the best visual balance to shaded and bright light conditions, NightView™ offers strong low-light sensitivity for capturing details in extremely poor-lit scenes, and built-in Smart IR LED illumination automatically adjusts output in response to the distance of an object in view to prevent over-exposure when the object is very close to the camera.

Arecont Vision® was the first to bring H.264 to the mainstream market and recently developed SNAPstream™ (Smart Noise Adaptation and Processing) technology for reducing bandwidth without impacting image quality. Today we are proud to offer our next generation H.265 with SNAPstream+™ smart codec capable of delivering high quality video while saving over 50% of the data rate to reduce or prevent strain on the network.

The microSD card slot supports up to 256GB of storage capacity for convenient onboard storage. The camera's power can be supplied via a Power-over-Ethernet (PoE - IEEE 802.3af) compliant network cable connection. The ConteraIP Outdoor Dome EX is IP66 rated for both indoor and outdoor applications. All models feature an impact resistant cast-aluminum housing capable of withstanding the equivalent of 55 kg (120 lbs) of force.

Integrated Motorized Lens with Remote Focus and Zoom	**P-Iris Control for Best Depth of Field and Image Clarity**	**Smart IR LEDs**	**True Day/Night with IR Cut Filter**
SNAPstream+™ Technology	**NightView™**	**Enhanced WDR™ Wide Dynamic Range**	**CorridorView™ with 90° Image Flip**

All-in-One PoE and Integrated Lens	**Impact / Weather Resistant IK-10 and IP66 Rated**	**Advanced Video Analytics**	
Tri-Encoder H.265/H.264/MJPEG	**SDXC Card Slot**	**Installer Friendly**	

Series Features

- 5MP Resolution
- Advanced Video Analytics
- Remote Focus/Zoom Motorized P-Iris Lens
- SNAPstream+™ Capability to Reduce Bandwidth without Impacting Image Quality
- NightView™ for Strong Low Light Performance
- True Day/Night Functionality with Mechanical IR Cut Filter
- Enhanced WDR up to 120dB at Full Resolution: See Clearly in Shaded and Bright Light Conditions Simultaneously
- CorridorView™ Allows 90° Image Rotation for Better Coverage in Hallways and Corridors
- Privacy Mask, Motion Detection, Bit Rate Control, Multi-Streaming, Multicasting, Forensic Zooming, and Scaling

- On-Screen Display (OSD)
- Defog Technology
- Triple Encoder: H.265/H.264/MJPEG
- Network Protocols Include SNMP, HTTPS, IPv6, DHCP, 802.1x, and More
- All-in-One H.265/H.264 Total PoE Solution (No External Power Required for Heater and IR LEDs), PoE and Auxiliary Power: 12–48V DC/24V AC
- Smart IR Illumination with Variable Illumination Ensures that IR Light is Evenly Disbursed up to 66ft (20m) for Scenes with Low or No Ambient Light
- Audio In / Out (Accessory Sold Separately)
- MicroSDXC Card Slot for Onboard Storage
- Outdoor Rated IP66 and IK-10 Impact-Resistant Housing
- Easily Adjustable 3-Axis Gimbal

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Camera Imaging Specifications

Model		AV5456PMIR-S
Image Sensor		5MP CMOS Progressive Sensor
Optical Format		1/2.9"
Minimum Illumination	Color (Day Mode)	0.1 Lux
	B/W (Night Mode)	0.01 Lux
Full FOV Resolution		2592 H x 1944 V
Scaling *(See Scaling Resolutions Below)*		Yes
IR Illumination		Yes
Dynamic Range		120dB
Frame Rates[1]	Single Stream	Up to 30fps (5MP)[2]
	Multi-Stream	Up to 15fps (5MP)[2] + 10fps (5MP)[2]
		Up to 30fps (1080p)[2] + 30fps (720p)[2] + 30fps (VGA)[2]
Lens	Motorized Lens	2.7–12mm, F1.3, H-FOV = 24°–81°, V-FOV = 18°–57°, P-Iris

Programmability

Optics	Remote focus, remote zoom	
Low-Light Performance	NightView™ technology	
	Smart IR	
Programmable Shutter Speed	Auto/manual 0.1ms ~ 500ms	
Motion Detection	Real-time, 1024 detection zones	
Privacy Masking	Unlimited	
Backlight Compensation	Auto	
White Balance Mode	Auto/manual	
Gain Control	Auto	
Flicker Control[2]	5Hz–255Hz selectable	
Image Rotation	CorridorView™ (90°, 180°, and 270° image rotation) + mirror	
Scaling	2592x1944, 2048x1536, 1920x1080, 1296x972, 1280x720, 640x480, 640x360, 320x240	
Wide Dynamic Range	Adjustment between WDR and LDR modes	
Efficiency	SNAPstream+™ (Smart Noise Adaptation and Processing)	
	Bit rate and bandwidth limitation control	
Defog	Supported	
Miscellaneous	Programmable brightness, contrast, sharpness, saturation, hue	
	Electronic pan, tilt, zoom (PTZ)	
Password	16-digit ASCII character password	
On-Screen Display (OSD)	Time/date/camera name/custom text	
Basic Video Analytics	Motion Detection	
	Camera Tamper	
Advanced Video Analytics[4]	Intrusion Detection	
	Line Crossing	
	Loitering	
Optional Advanced Video Analytics[4]	Object Classification (Person/Vehicle)[5]	
	Object Left/Removed[5]	
	People/Vehicle Counting[5]	

Data Transmission

Compression Type	H.265/H.264 (MPEG-4, Part 10)/Motion JPEG
Bit Rate Control	64K–8000K
Smart Codec	Smart GOP/Smart ROI
Transmission Protocols	SNMP, HTTP, HTTPS, IPv6, IPv4, SSL, TCP/IP, UPnP, UDP, RTCP, RTSP, RTP, SMTP, NTP, DHCP, FTP, 802.1x, Zero Configure
	10/100Base-T Ethernet network interface, RJ45
Multi-Streaming	2 x H.265/H.264 stream, 1 x M-JPEG stream
Users	Live viewing/Administrator for up to 10 clients

Event Management

Event Trigger	Motion detection, video analytics, alarm in
Notifications	Send/record message via e-mail/FTP/NAS/SD card, record JPG/mp4

Compliance

Industry Standard	ONVIF Profile S, G, Q, T conformant
Listings	UL (CB) UL60950-1, E489591
FCC Compliance	47 CFR 15 Class A
Environmental	RoHS, REACH, WEEE
Markings	**CE:** EN55032 Class A, EN55024, EN61000-3-2, EN61000-3-3, EN60950
Mechanical	IK-10 (EN62262), IP66 (EN60529)

Environmental

Operating Temperature	-20°C (-4°F) to +50°C (122°F)
Humidity	0% to 90% (non-condensing)
Storage Temperature	-40°C (-40°F) to +60°C (140°F)

General Electrical

Alarm Input/Output	1 input (wet contact)/1 output (wet contact)	
Power Over Ethernet	PoE IEEE 802.3af, Class 3	
	Total PoE solution (no external power requirement)	
Auxiliary Power	12–48V DC, 24V AC	
Power Consumption	**1080p**	5.5W PoE max
	5MP	6.5W PoE max

1. 30 frames per second (FPS) maximum with H.264 and H.265 compression at 60 hertz (Hz), up to 25fps maximum at 50Hz
2. Max FPS with Enhanced WDR™ turned on will be up to 50% of listed FPS
3. Limited to 180° rotation with video analytics enabled
4. Analytics are not designed for heavy traffic locations such as roads and intersections
5. Requires Optional Advanced Video Analytic License

IR Illuminator

LEDs	12pcs, Smart IR
Projection Distance	66ft (20m) max

Audio Electrical

Streaming	Two-way
Compression	G.711 PCM 8 kHz
Input/Output	Line in / Line output

Mechanical

Casing		Die-cast aluminum chassis with 4" polycarbonate dome bubble
		IP66 weather proof standard
		Impact resistant, IK-10 rated
Gimbal		Easily adjustable 3-axis camera gimbal w/360° pan, 77° tilt and 180° z-axis
Dimensions *(See Dimensions)*	**Unit**	Ø 5.77" (146.7mm) x 5.42" H (137.6mm)
	Packaged	6" H (150mm) x 7.5" W (190mm) x 8" L (200mm)
Weight	**Unit**	2.65lbs (1.2kg)
	Packaged	3.31lbs (1.5kg)
On Board Storage		MicroSDXC slot up to 256GB (card not included)
Body Color		Arecont Vision® White (Pantone® Cool Gray 1C)

Dimensions
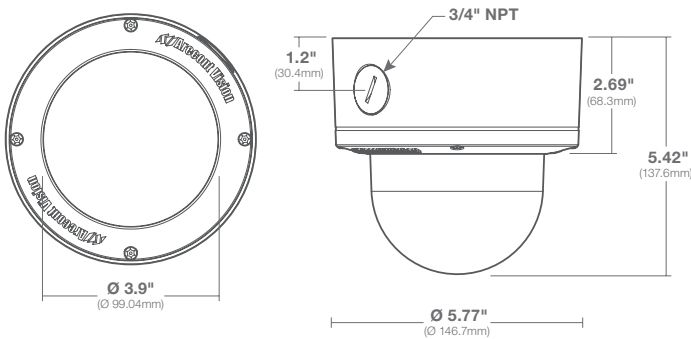
See Next Page for Ordering Information

Model Numbers

5MP	AV5456PMIR-S	WDR

Optional Advanced Video Analytic License

AV-CADVVA1	Enables Optional Advanced Video Analytic Behaviors on ConteraIP EX Cameras

Configurations

Surface mount dome

Accessories

AV-1AK	ConteraIP® Outdoor Dome Optional Audio Kit
AV-CRMA-W	Corner Mount Adapter (Arecont Vision® White)
AV-FMA	Flush Mount Adapter (White)
AV-PMA-W	Pole Mount Adapter (Arecont Vision® White)
AV-PMJB-W	Pendant Mount Bracket with Standard Junction Box (Arecont Vision® White) *(Fits Cap 1.5" NPT, Box Fits 3/4" NPT)*
AV-WMJB-W	Wall Mount Bracket with Standard Junction Box (Arecont Vision® White) *(Fits Cap 1.5" NPT, Box Fits 3/4" NPT)*
MD-CAP-W	Mounting Cap for ConteraIP® Outdoor Dome (Arecont Vision® White)
MD-JBA-W	Round Junction Box for ConteraIP® Outdoor Dome (Arecont Vision® White) *(Fits 3/4" NPT)*

Create Your Model   (Example: AV5456PMIR-S)

Megapixel Resolution	Generation	Body Type	Compression	Lens	Infrared	Onboard Storage
AV	5	4	5	6	PM	IR	S

| | | | H.265/H.264 + WDR | Motorized P-Iris Lens, True Day/Night | Wide Angle Infrared | SDHC Card Slot |

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