AV COSTAR™

ConteraIP® Outdoor Dome Megapixel Camera

1080p or 5 Megapixel (MP) H.265/H.264 All-in-One Motorized Remote Focus and Zoom Varifocal Lens
True Day/Night Indoor Dome IP Camera with SNAPstream+™ (Smart Noise Adaptation and Processing),
Enhanced WDR™ (Wide Dynamic Range), NightView™, and Smart IR

H.265

The ConteraIP® Outdoor Dome megapixel camera features 1080p and 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 varifocal lens for excellent, optimal image quality.

Regardless of the time of day, the ConteraIP Outdoor Dome is prepared for any lighting condition. For applications with poor lighting conditions, Enhanced WDR™ (wide dynamic range) at 120dB provides the best visual balance to shaded and bright light conditions.

For clear color images in low-light, NightView™ offers strong low-light sensitivity for capturing details in extremely poor-lit scenes. 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.

AV Costar™ 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 microSDXC card slot supports up to 1TB of 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 is IP66 rated for both indoor and outdoor applications. All models feature an impact resistant cast-aluminum housing.

The ConteraIP Outdoor Dome is ONVIF (Open Network Video Interface Forum) Profile S, G, and T compliant, providing interoperability between network video products regardless of manufacturer.

Remote Focus and Zoom Lens (-200 Models Only)	SNAPstream+™ Technology	NightView™	Enhanced WDR™ Wide Dynamic Range	Smart IR LEDs	True Day/Night with IR Cut Filter	CorridorView™ with 90° Image Flip	Tri-Encoder H.265/H.264/MJPEG	1TB Max Capacity MicroSDXC Card Slot	Impact / Weather Resistant IK-10 and IP66 Rated

Series Features

- 1080p (2.1MP) or 5MP Resolution
- Remote Focus/Zoom Motorized 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)
- 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, PoE and Auxiliary Power: 12V DC
- Smart IR Illumination with Variable Illumination Ensures that IR Light is Evenly Disbursed up to 82ft (25m) for Scenes with Low or No Ambient Light
- Audio In / Out
- 1TB Capacity MicroSDXC Card Slot for Onboard Storage
- Outdoor Rated IP66 and IK-10 Impact-Resistant Housing
- Easily Adjustable 3-Axis Gimbal
- NDAA Compliant

ONVIF | **SGT**

Camera Imaging Specifications

Model		AV02CLD-200	AV05CLD-200
Image Sensor		1080p (2.1MP) CMOS Progressive Sensor	5MP CMOS Progressive Sensor
Optical Format		1/2.8"	1/2.8"
Minimum Illumination	Color (Day Mode)	0.04 Lux	0.15 Lux
	B/W (Night Mode)	0.005 Lux	0.01 Lux
Full FOV Resolution		1920 H x 1080 V	2592 H x 1944 V
Scaling (See Scaling Resolutions Below)		Yes	Yes
IR Illumination		82ft (25m) max	82ft (25m) max
Dynamic Range		120dB DOL WDR	120dB DOL WDR
Frame Rates*	Single Stream	Up to 30fps (1080p) Enhanced WDR on; 60fps (1080p) off	Up to 30fps (5MP)
	Multi-Stream	Up to 60fps (1080p) + 60fps (1080p) + 60fps (360p) Enhanced WDR off	Up to 30fps (5MP) + 30fps (5MP) + 30fps (360p) Enhanced WDR off
		Up to 30fps (1080p) + 30fps (1080p) + 30fps (360p) Enhanced WDR on	Up to 30fps (5MP) + 30fps (5MP) + 30fps (360p) Enhanced WDR on
Lens	Motorized Lens	2.7–13.5mm, F1.4, H-FOV = 28°–100°, V-FOV = 16°–54°	2.7–13.5mm, F1.4, H-FOV = 27°–79°, V-FOV = 20°–58°

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*	5Hz–255Hz adjustable
Image Rotation	CorridorView™ (90°, 180°, and 270° image rotation) + mirror
Scaling	**1080p** 1920x1080, 1280x720, 960x540, 640x480, 640x360
	5MP 2592x1944, 2048x1536, 1920x1080, 1296x972, 1280x720, 960x540, 640x480, 640x360
Wide Dynamic Range	Adjustment between WDR and LDR modes
Efficiency	SNAPstream+™ (Smart Noise Adaptation and Processing)
	Bit rate and bandwidth limitation control
Miscellaneous	Programmable brightness, contrast, sharpness, saturation, hue
Password	16-digit ASCII character password
On-Screen Display (OSD)	Time/date/camera name/custom text

Data Transmission

Compression Type	H.265/H.264 (MPEG-4, Part 10)/Motion JPEG
Bit Rate Control	64K–8000K
Smart Codec	Smart GOP
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, tampering detection, alarm in
Notifications	Send/record message via e-mail/FTP/NAS/SD card, record JPG/mp4

Compliance

Industry Standard	ONVIF Profile S, G, 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		12V DC
Power Consumption	**1080p**	8.5W max
	5MP	10W max

IR Illuminator

LEDs	4pcs, Smart IR
Projection Distance	82ft (25m) max

Audio Electrical

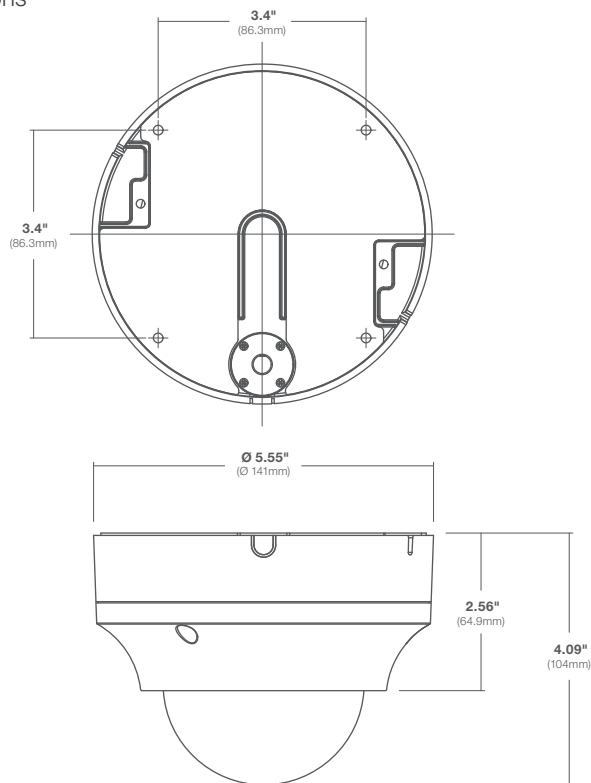|	
Streaming	Two-way
Compression	G.711 PCM 8 kHz/8 bit
Input/Output	Line in* / Line output

* Requires Amplification

Mechanical

Casing	Die-cast aluminum chassis with polycarbonate dome bubble	
	IP66 weather proof standard	
	Impact resistant, IK-10 rated	
Gimbal	Easy 3-axis camera adjustment with 355° pan, and 60° tilt, and 180° Z-rotation	
Dimensions *(See Dimensions)*	**Unit**	Ø 5.55" (141mm) x 4.09" H (104mm)
	Packaged	5.9" H (150mm) x 6.7" W (170mm) x 7.28" L (185mm)
Weight	**Unit**	2.09lbs (0.95kg)
	Packaged	2.16lbs (0.98kg)
On Board Storage	MicroSDXC slot up to 1TB (card not included)	
Body Color	AV Costar White (Pantone® Cool Gray 1C)	

CLD-CAP-W

Mounting Cap

Dimensions

3.4" (86.3mm)

3.4" (86.3mm)

Ø 5.55" (Ø 141mm)

2.56" (64.9mm)

4.09" (104mm)

AV-PMJB-W

Pendant Mount Bracket with Standard Junction Box

CLD-FMA

Wall Mount Bracket with Standard Junction Box

AV-WMJB-W

Wall Mount Bracket with Standard Junction Box

See Next Page for Ordering Information

ConteraIP® Outdoor Dome Megapixel Camera

Model Numbers

1080p	AV02CLD-200	WDR
5MP	AV05CLD-200	WDR

Accessories (Sold Separately)

AV-CRMA-W	Corner Mount Adapter (AV Costar White)
AV-PMA-W	Pole Mount Adapter (AV Costar White)
AV-PMJB-W	Pendant Mount Bracket with Standard Junction Box (AV Costar White) *(Fits Cap 1.5" NPT, Box Fits 3/4" NPT)*
AV-WMJB-W	Wall Mount Bracket with Standard Junction Box (AV Costar White) *(Fits Cap 1.5" NPT, Box Fits 3/4" NPT)*
CLD-CAP-W	Mounting Cap for ConteraIP Outdoor Dome (AV Costar White)
CLD-FMA-W	ConteraIP Outdoor Dome Flush Mount Adapter (White)

Configurations

Surface mount dome

Create Your Model   (Example: **AV05CLD-200**)

Megapixel Resolution	Contera Product Line	Body Type	Generation	Lens

| AV | 02 / 05 | C | LD Large Dome | -2 | 00 2.7-13.5mm Motorized Remote Focus and Zoom Varifocal Lens |

Rev 002.001