

# ConteralP® Indoor Dome Megapixel Camera

1080p or 5 Megapixel (MP) H.265/H.264 All-in-One Motorized 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 ConteralP® Indoor Dome megapixel camera features 1080p and 5-megapixel (MP) resolution for optimum performance. The ConteralP Indoor 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 ConteralP Indoor 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 SD 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 ConteralP Indoor Dome is ONVIF (Open Network Video Interface Forum) Profile S, G, and T compliant, providing interoperability between network video products regardless of manufacturer.



**Integrated Motorized Lens with Remote Focus and Zoom**



**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**



**SDXC Card Slot**



**All-in-One PoE and Integrated Lens**

## 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)
- 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 PoE Solution
- 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
- MicroSDXC Card Slot for Onboard Storage

## Camera Imaging Specifications

Model		AV02CID-100	AV05CID-100
Image Sensor		1080p (2.1MP) CMOS Progressive Sensor	5MP CMOS Progressive Sensor
Optical Format		1/2.8"	1/2.9"
Minimum Illumination	Color (Day Mode)	0.05 Lux	0.1 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 <small>(See Scaling Resolutions Below)</small>		Yes	Yes
IR Illumination		Yes	Yes
Dynamic Range		120dB	120dB
Frame Rates*	Single Stream	Up to 30fps (1080p)	Up to 30fps (5MP)**
	Multi-Stream	Up to 30fps (1080p) + 15fps (1080p)	Up to 15fps (5MP)** + 10fps (5MP)**
		Up to 30fps (1080p) + 30fps (720p) + 30fps (VGA)	Up to 30fps (1080p)** + 30fps (720p)** + 30fps (VGA)**
Lens	Motorized Lens	2.7–13.5mm, F1.3, H-FOV = 28°–105°, V-FOV = 16°–56°, Fixed Iris	2.7–13.5mm, F1.3, H-FOV = 22°–79°, V-FOV = 16°–59°, Fixed 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*	5Hz–255Hz adjustable	
Image Rotation	CorridorView™ (90°, 180°, and 270° image rotation) + mirror	
Scaling	<b>1080p</b>	1920x1080, 1280x720, 960x540, 640x480, 640x360, 320x240
	<b>5MP</b>	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	

## 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, 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
FCC Compliance	47 CFR 15 Class A
Environmental	RoHS, REACH, WEEE
Markings	(CE) EN55032 Class A, EN55024, EN61000-3-2, EN61000-3-3, EN60950

## Environmental

Operating Temperature	-10°C (14°F) to +50°C (122°F)
Humidity	10% to 90% (non-condensing)
Storage Temperature	-10°C (14°F) to +60°C (140°F)

## General Electrical

Alarm Input/Output	1 input (dry contact)/1 output (dry contact) on pigtail cable	
Power Over Ethernet	PoE IEEE 802.3af, Class 3	
	Total PoE solution (no external power requirement)	
Power Consumption	<b>1080p</b>	6.9W PoE max
	<b>5MP</b>	7.7W PoE max

## IR Illuminator

LEDs	4pcs, Smart IR
Projection Distance	66ft (20m) max

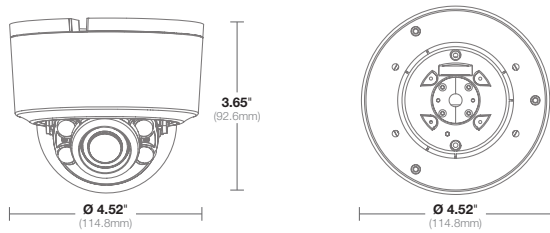
\* 30 frames per second (FPS) maximum with H.264 and H.265 compression at 60 hertz (Hz), up to 25fps maximum at 50Hz

\*\* Max FPS with Enhanced WDR™ turned on will be up to 50% of listed FPS

## Mechanical

<b>Casing</b>	Plastic surface mount chassis with polycarbonate dome bubble	
<b>Gimbal</b>	Easy 3-axis camera adjustment with 350° pan, and 60° tilt, and 350° Z-rotation	
<b>Dimensions</b> <i>(See Dimensions)</i>	<b>Unit</b>	Ø 4.52" (114.8mm) x 3.65" H (92.6mm)
	<b>Packaged</b>	6.1" W (155mm) x 6.5" H (165mm) x 6.0" D (152mm)
<b>Weight</b>	<b>Unit</b>	0.79lbs (0.36kg)
	<b>Packaged</b>	1.21lbs (0.55kg)
<b>On Board Storage</b>	MicroSDXC slot up to 256GB (card not included)	
<b>Body Color</b>	AV Costar White (Pantone® Cool Gray 1C)	

## Dimensions



See Next Page for Ordering Information



### Model Numbers

<b>1080p</b>	AV02CID-100	<b>WDR</b>
<b>5MP</b>	AV05CID-100	<b>WDR</b>

### Accessories (Sold Separately)

<b>AV-CRMA-W</b>	Corner Mount Adapter (AV Costar White)
<b>AV-PMA-W</b>	Pole Mount Adapter (AV Costar White)
<b>CID-CMT-W</b>	Pendant Mount for ConteraIP Indoor Dome (AV Costar White)
<b>CID-FMA</b>	ConteraIP Indoor Dome Flush Mount Adapter (White)
<b>CID-WMT-W</b>	Wall Mount for ConteraIP Indoor Dome (AV Costar White)

### Configurations



Surface mount dome

### Create Your Model (Example: AV05CID-100)

Megapixel Resolution      Contera Product Line      Body Type

