

# ConteralP® Bullet Megapixel Camera

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

H.265



The ConteralP® Bullet outdoor-ready megapixel camera features 1080p and 5-megapixel (MP) resolution for optimum performance. The ConteralP Bullet combines a day/night mechanical IR cut filter with an integrated motorized 2.7–12mm varifocal remote focus and zoom precision iris (P-iris) lens.

Regardless of the time of day, the ConteralP Bullet 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, and is further enhanced by built-in Smart IR LED illumination that 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 Bullet 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.

The ConteralP Bullet 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	P-Iris Control for Best Depth of Field and Image Clarity	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 Bullet-Style Solution with Integrated Lens	Impact / Weather Resistant IK-10 and IP66 Rated

## Series Features

- 1080p (2.1MP) or 5MP Resolution
- 2.7–12mm Integrated 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, 802.1x, DHCP, 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 100ft (30m) for Scenes with Low or No Ambient Light
- Audio In / Out
- SDXC Card Slot for Onboard Storage
- Outdoor Rated IP66 and IK-10 Impact-Resistant Housing
- Easily Adjustable 3-Axis Wall Mount

## Camera Imaging Specifications

Model		AV02CLB-100	AV05CLB-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 (See Scaling Resolutions Below)		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) + 20fps (1080p) Up to 30fps (1080p) + 30fps (720p) + 30fps (VGA)	Up to 15fps (5MP)** + 10fps (5MP)** Up to 30fps (1080p)** + 30fps (720p)** + 30fps (VGA)**
Lens		Fixed Iris 2.7–12mm, F1.3, H-FOV = 32°–108°, V-FOV = 18°–57°, P-Iris	Fixed Iris 2.7–12mm, F1.3, H-FOV = 24°–81°, V-FOV = 18°–57°, P-Iris

## Programmability

Optics	Remote focus/zoom, P-iris lens	
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

\* 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

\*\*\* Requires Amplification

## 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	12–48V DC, 24V AC	
Power Consumption	<b>1080p</b>	8.7W PoE max
	<b>5MP</b>	8.9W PoE max

## IR Illuminator

LEDs	48pcs, Smart IR
Projection Distance	100ft (30m) max

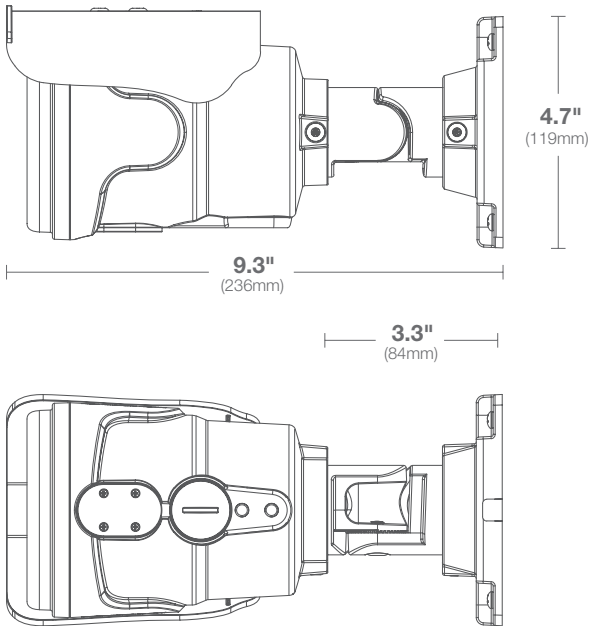
## Audio Electrical

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

## Mechanical

<b>Casing</b>	Die-cast aluminum cylindrical (bullet-style) housing	
	IP66 weather proof standard	
	Impact resistant, IK-10 rated	
<b>Mount</b>	Easily adjustable 3-axis with 360° pan, 90° tilt and 360° z-axis	
<b>Dimensions</b> <i>(See Dimensions)</i>	<b>Unit</b>	4.7" H (119mm) x 4.7" W (119mm) x 9.3" D (236mm)
	<b>Packaged</b>	5.6" H (142mm) x 5.6" W (142mm) x 11" L (280mm)
<b>Weight</b>	<b>Unit</b>	2.72lbs (1.23kg)
	<b>Packaged</b>	3.31lbs (1.5kg)
<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>	AV02CLB-100	<b>WDR</b>
<b>5MP</b>	AV05CLB-100	<b>WDR</b>

Accessories (Sold Separately)

<b>AV-CRMA-W</b>	Corner Mount Adapter (AV Costar White)
<b>AV-EBAS-W</b>	Square Electrical Box Adapter Plate (AV Costar White)
<b>AV-JBA-W</b>	Standard Junction Box (AV Costar White)
<b>AV-PMA-W</b>	Pole Mount Adapter (AV Costar White)

Configurations



Bullet

Create Your Model (Example: AV05CLB-100)

Megapixel Resolution      Contera Product Line      Body Type

