

ConteralP® Omni LX Megapixel Camera

8 or 20 Megapixel (MP) H.265/H.264 All-in-One Remote Focus Omni-Directional User-Configurable Multi-Sensor True Day/Night Indoor/Outdoor Dome IP Cameras with SNAPstream+™ (Smart Noise Adaptation and Processing), WDR (Wide Dynamic Range), and NightView™

H.265



The ConteralP Omni LX multi-sensor, multi-megapixel camera was built to withstand evolving customer change-requirements. The unique, future-proof platform of the ConteralP Omni LX provides organizations of all sizes the flexibility to deploy a security system that truly matches their video surveillance needs now; and again if requirements change in the future. With its ground-breaking flexibility such as the ability to easily move each of the four sensors around the magnetic 70+ placement-point Omni track, the 3-axis gimbals for an increased range of motion when positioning the sensors, and the ability to interchange the remote focus modular lenses for a customized field of view, the ConteralP Omni LX provides customers with the confidence in a future-proof investment. The ConteralP Omni LX changes when you do.

ConteralP Omni LX is available with an 8- or 20-megapixel (MP) resolution. These cameras provide an all-in-one solution for capturing wide area video surveillance while maximizing the field-of-view and reducing the total number of cameras required saving installers time and end users money.

ConteralP Omni LX is ideal for applications with normal to challenging lighting conditions. The Omni combines a day/night mechanical IR cut filter for the highest image quality at any time of day. For clear color images in low-light, NightView offers strong low-light sensitivity for capturing details in extremely poor-lit scenes.

Power can be supplied via a single PoE+ (802.3at) compliant network cable or via an 12–48V DC/24V AC power supply.

ConteralP Omni LX is designed for demanding environments. Certified to rigorous dust and water tests, the camera carries an IP66 rating. The rugged dome housing is IK-10 rated to withstand the equivalent of 55 kg (120 lbs) of force for vandal-prone applications.

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 ConteralP Omni LX is ONVIF (Open Network Video Interface Forum) Profile S, G, and T conformant, providing interoperability between network video products regardless of manufacturer.



hangeable with Remote





Omni-Directional Track with 4 Customizable



270° FOV

Wide Dynamic Range



True Day/Night with IR Cut Filte



lightView™ Ultra Lo



Ultra Low Profile



ofile 3-Axis Gimbal



Impact / Weather Resistant IK-10 and IP66 Rated



Tri-Encoder H.265/H.264/MJPEG

Series Features

- 8MP or 20MP (4x 1080p or 5MP Sensors)
- Remote Focus
- 3-Axis Gimbal Up to 4 Individual Camera Gimbals can be Independently Placed in Any Orientation Around a 360° Track with Extra Positions for Looking Straight Down
- · Multiple Lens Options in a Single Camera Housing
- SNAPstream+ Advanced Compression Algorithm Reduces Bandwidth without Impacting Image Quality
- NightView for Strong Low Light Performance
- True Day/Night Functionality with Mechanical IR Cut Filter
- On-Screen Display (OSD)
- WDR at Full Resolution: See Clearly in Shaded and Bright Light Conditions Simultaneously

- Privacy Mask, Motion Detection, Bit Rate Control, Multi-Streaming, and Multicasting
- 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-48V DC/24V AC
- MicroSDXC Card Slot for Onboard Storage
- Ultra Discrete, Low-Profile Housing
- · Outdoor Rated IP66 and IK-10 Impact-Resistant Housing
- NDAA and TAA Compliant

ConteralP® Omni LX Megapixel Cameras

Camera Imaging Specifications

Model		AV8576DN	AV20576DN
Image Sensor (CMOS)		8MP (1080p x 4) CMOS Progressive Sensor	20MP (5MP x 4) CMOS Progressive Sensor
Optical Format		1/2.8"	1/2.8"
Pixel Pitch		2.0μm	2.0µm
Minimum	Color (Day Mode)	0.15 Lux	0.15 Lux
Illumination	B/W (Night Mode)	0.15 Lux	0.15 Lux
Full FOV Resolution	Total	7680 H x 1080 V	10368 H x 1944 V
	Per Sensor	1920 H x 1080 V	2592 H x 1944 V
Dynamic Range		Up to 100dB*	Up to 100dB*
Frame Rates**	At Max Resolution	30fps (8MP)	15fps (20MP)
	Multi-Stream	Up to 30fps (8MP) + 30fps (8MP) + 30fps (0.9MP)	Up to 15fps (20MP) + 10fps (20MP) + 15fps (1.2MP)
Lens (x4)		2.8mm, 1/2.7", F1.6, H-FOV = 98°	2.8mm, 1/2.7", F1.6, H-FOV = 98°

Programmability

Optics		M12 lens and remote focus module
Low-Light Performance		NightView technology
Programmable Shutter Speed		Auto/manual 0.1ms ~ 500ms
Motion Detection		Real-time, 1024 detection zones
Privacy Masking		Unlimited
Backlight Compe	nsation	Auto
White Balance Me	ode	Auto/manual
Gain Control		Auto
Flicker Control		5Hz-255Hz adjustable
Scaling (Per Sensor)	8MP	1920x1080, 1280x720, 960x540, 640x360
(r er Serisor)	20MP	2592x1944, 2560x1440, 2304x1296, 2048x1536, 1920x1080, 1600x1200, 1296x972, 1280x960, 1280x720, 800x600, 640x480
Wide Dynamic Ra	inge	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 Displa	y (OSD)	Time/date/camera name/custom text

Data Transmission

Compression Type	H.265/H.264 (MPEG-4, Part 10)/Motion JPEG
	21 levels of quality
Bit Rate Control	128K-8000K
Smart Codec	Smart GOP
Network Protocols	SNMP, HTTP, HTTPS, IPv6, IPv4, SSL, TCP/IP, UPnP, UDP, RTCP, RTSP, RTP, SMTP, NTP, DHCP, FTP, 802.1x, QoS, DDNS, Zero Configure
Network Interface	10/100/1000Mbps Ethernet, RJ45
Max Camera Bandwidth	36Mbps (9Mbps per sensor)
Multi-Streaming	2 x H.265/H.264 stream, 1 x M-JPEG stream (per sensor)
Users	Live Viewing/Administrator for up to 10 clients

Event Management

Event Trigger	Motion detection, tampering detection, alarm in
Notifications	Send a message via e-mail/FTP/NAS, SD Card Recording, Record JPG/MP4

Compliance

Industry Standard	ONVIF Profile S, G, and T conformant
Listings	UL60950-1, E489591
FCC Compliance	47 CFR 15 Class A
Environmental	RoHS, REACH, WEEE
Markings	CE: EN55032 Class A, EN55035, EN61000-3-2, EN61000-3-3
Mechanical	IK-10 (EN62262), IP66 (EN60529)

Environmental

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

Electrical

Alarm Input/Output	1 input (wet contact)/1 output (wet contact)
Power Over Ethernet	IEEE 802.3at (PoE+), Class 4
Auxiliary Power	12-48V DC, 24V AC
Power Consumption	14W max

Audio Electrical

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

^{*} Maximum with digital WDR

^{**} Maximum with H.264 compression

^{***} Requires Amplification

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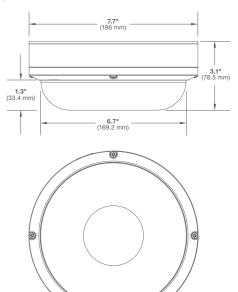
Mechanical

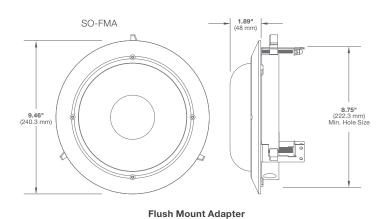
Casing	Die-cast aluminu	um chassis with polycarbonate dome bubble	
	IP66 weather proof standard		
	Impact resistant, IK-10 rated		
Gimbal	Easily adjustable	, 3-axis w/360° pan, 90° tilt, and 360° z-axis	
Dimensions	Unit	Ø 7.7" (196mm) x 3.1" H (78.5mm)	
(See Dimensions)	Bubble Only	Ø 6.7" (169.2mm) x 1.3" H (33.4mm)	
	Packaged	8" W (203mm) x 8" L (203mm) x 4" H (102mm)	
Weight	Unit	3.8lbs (1.7kg)	
	Packaged	4.4lbs (2.0kg)	
On Board Storage	MicroSDXC slot	up to 1TB (card not included)	
Body Color AV Costar White (Pantone® Cool Gray 1C)		(Pantone® Cool Gray 1C)	

AV-WMJB-W SO-CAP-W SO-CAP-W Wall Mount Configuration Configuration

AV-PMA-W

Dimensions





Wall Mount Configuration with Pole Mount Adapter

AV-CRMA-W

SO-CAP-W

Wall Mount Configuration with Corner Mount Adapter

AV-WMJB-W

Ordering Information



Configurations



Model Numbers

8MP	AV8576DN-28	WDR
20MP	AV20576DN-28	WDR

Lens Options (Sold Separately)

Model	Focal Length	Horizontal Field of View Per Sensor	
		8MP (1080p x 4)	20MP (5MP x 4)
MPM2.4D	2.4mm	134°	126°
MPM2.8C ¹	2.8mm	106.7°	98°
MPM4.0D	4mm	83.95°	78.24°
MPM6.0D	6mm	51.27°	47.75°
MPM8.0 D	8mm	41.26°	38.56°
MPM12.0D ²	12mm	26.62°	24.84°
MPM16.0D ²	16mm	19.4°	18.09°

¹ MPM2.8C (2.8mm) is the default lens for -28 models

Accessories (Sold Separately)

AV-1AK Conteral P Optional Audio Kit	
AV-CRMA-W	Corner Mount Adapter (AV Costar White)
AV-JBA-W	Standard Junction Box (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)
SO-BUBBLE	Bubble with Gasket, Clear, Flat Bottom for Lenses above 8mm
SO-CAP-W	Cap for ConteralP Omni LX (AV Costar White)
SO-FMA	Flush Mount Adapter for ConteralP Omni LX (White)

Create Your Model (Example: AV20576DN-28)

Megapix	el					
Resolution		Body Type	Compression	True Day/Night	Lens	





² Requires the use of the SO-BUBBLE (Not Included)