

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™





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.











True Day/Night





3-Axis Gimba



ses with Remote









with IR Cut Filter





MJPEG Tri-Encode 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



Conteral P® Omni LX Megapixel Cameras

Specifications

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 Illumination	Color (Day Mode)	0.15 Lux	0.15 Lux
	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	ı	Real-time, 1024 detection zones	
Privacy Masking		Unlimited	
Backlight Compensation		Auto	
White Balance Mode		Auto/manual	
Gain Control		Auto	
Flicker Control		5Hz-255Hz adjustable	
Scaling (Per Sensor)	8MP	1920x1080, 1280x720, 960x540, 640x360	
(Per Sensor)	20MP	2592x1944, 2560x1440, 2304x1296, 2048x1536, 1920x1080, 1600x1200, 1296x972, 1280x960, 1280x720, 800x600, 640x480	
Wide Dynamic Ra	ange	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	
	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

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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

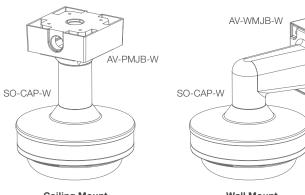
*** Requires Amplification

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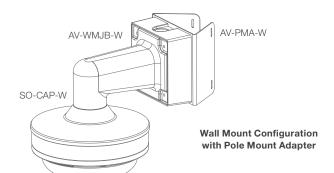
Specifications

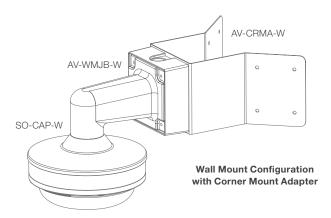
Mechanical

Casing	Die-cast aluminum 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)		

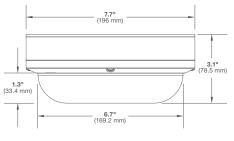


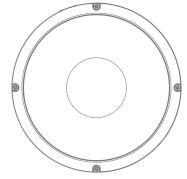
Ceiling Mount Configuration Wall Mount Configuration

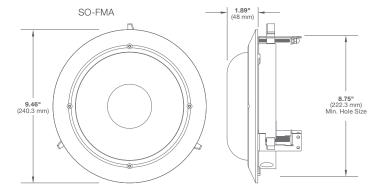




Dimensions







Flush Mount Adapter

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Ordering Information



Omni LX

Configurations

Model Numbers

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

Lens Options (Sold Separately)

Model	Focal Length	Horizontal Field of View	
		1080p	5MP
MPM2.4	2.4mm	135°	126°
MPM2.8C1	2.8mm	106.7°	98°
MPM4.0A ²	4mm	74.7°	68.6°
MPM6.0 ²	6mm	49.8°	45.7°
MPM8.0 ²	8mm	37.3°	34.3°
MPM12.0A ^{2, 4}	12mm	24.9°	22.9°
MPM16.0 ^{3, 4}	16mm	18.7°	17.2°

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

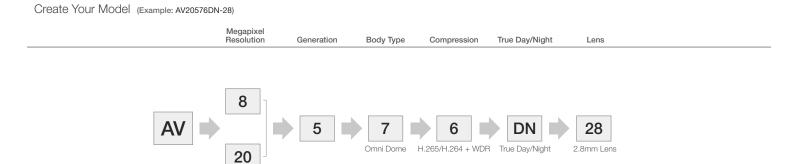
² Requires two spacers on focus module (included with lens)

³ Requires a spacer on focus module (included with lens)

⁴ Requires the use of the SO-BUBBLE (Not Included)

Accessories (Sold Separately)

AV-1AK	ConteralP 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)



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