

# AV8856DNIR-S

## 8MP Ultra-Compact MicroDome\_Surface Mount



8MP (4K) Resolution  
Fixed Lens 2.8mm  
Day and night (ICR)  
True wide dynamic range (WDR)

IK10 / IP66  
Alarm in / out  
PoE (IEEE 802.3af Class 3), 12V DC  
IR LED (15m / 50 ft (3ea))

Easily Adjustable 3-Axis Gimbal  
NDAA Compliant  
Supports ONVIF

### SPECIFICATIONS

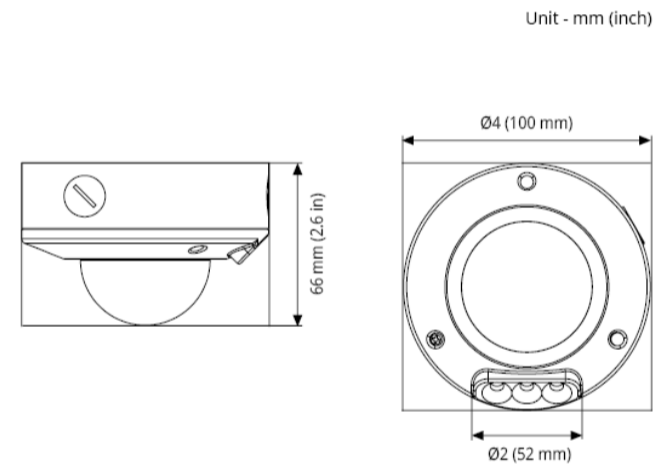
Camera Imaging Specifications	
Image Sensor	8MP CMOS Progressive
Optical Format	1/2.8"
Minimum Illumination	(Color (Day Mode)) 0.18 Lux (B/W (Night Mode)) 0.018 Lux
Full FOV Resolution	3840 H x 2160 V
Scaling	Yes
IR Illumination	Yes
Dynamic Range	120dB
Frame Rates	(Multi-Stream) (WDR Off) Up to 30fps (8MP) + 30fps (1440p) + 30fps (360p) (Multi-Stream) (WDR On) Up to 30fps (8MP) + 30fps (1440p) + 30fps (360p)
Lens	(Fixed Iris) MPM2.8C 2.8mm, 1/2.7", F/1.6, IR corrected, M12-mount (H-FOV) 106.7°
Programmability	
Optics	M12 lens and remote focus module
Low-Light Performance	NightView technology IR (All Models)
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 (8MP) 3840x2160, 2592x1944, 2560x1440, 2048x1536, 1920x1080, 1600x1200, 1296x972, 1280x960, 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
Standard Video Analytics	Motion Detection Camera Tamper Intrusion Detection Line Crossing Loitering
Optional Advanced Video Analytics	Object Classification (Person/Vehicle) Object Left/Removed People/Vehicle Counting
Data Transmission	
Compression Type	H.265/H.264 (MPEG-4, Part 10)/Motion JPEG
Bit Rate Control	2MP: 64K-8000K; 5MP: 128K-8000K; 8MP: 512K-8000K
Smart Codec	Smart GOP
Transmission Protocols	SNMP, HTTP, HTTPS, IPv6, IPv4, SSL, TCP/IP, TLS 1.2, UPnP, UDP, RTCP, RTSP, RTP, SMTP, NTP, DHCP, FTP, 802.1x, QoS, DDNS, 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 a message via e-mail/FTP/NAS, SD Card Recording, Record JPG/MP4
Compliance	
Industry Standard	ONVIF Profile S, G, M, 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, IEC 62471
Mechanical	IK-10 (EN62262), IP66 (EN60529) (-S Models Only)
Environmental	
Operating Temperature	-5°C (23°F) to +50°C (122°F) (-F Models) -20°C (-4°F) to +50°C (122°F) (-S Models)
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)
Power Consumption	(1080p) 7.5W PoE max (5MP) 7.5W PoE max (8MP) 7.5W PoE max
IR Illuminator	
LEDs	3 pcs 850nm LEDs
Projection Distance	50ft (15m) IR distance (max) / 80° IR angle
Mechanical	
Casing	Tamper-resistant housing, IK-10 impact-resistant (-F Model) In-ceiling mount with die-cast aluminum cover and 2" polycarbonate dome bubble (-S Model) Surface mount with die-cast aluminum housing and 2" polycarbonate dome bubble IP66 weather proof standard 3/8" NPT w/ 1/2" NPT adapter included
Lens	2.8mm board mount (M12), fixed iris, F/1.6
Gimbal	Easy 3-axis camera adjustment w/ 359° pan and 90° tilt and 360° z-axis
Dimensions	(Unit) Ø 4" (100mm) x 3.1" H (78.5mm) (Packaged) 5.6" W (142mm) x 5.6" L (142mm) x 3.5" H (90mm)
Weight	(Unit) 0.95lbs (0.43kg) (Packaged) 1.3lbs (0.6kg)



### PRODUCT IMAGE



### DIMENSIONS



Unit - mm (inch)

On Board Storage	MicroSDXC slot up to 1TB (card not included)
Body Color	AV Costar White (Pantone® Cool Gray 1C)
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