

DC-S6883WRA

H.265 8MP LightMaster AI IR PTZ Camera (Edge AI Plus)

NDAA & TAA Compliant



LONG-RANGE INTELLIGENT SURVEILLANCE WITH 4K RESOLUTION AND 40X OPTICAL ZOOM

The DC-S6883WRA features a 1/1.8" CMOS sensor delivering 4K high-resolution video, combined with a 40x optical zoom and 400m IR distance for clear identification of distant objects. Equipped with deep learning-based IDLA and IDLA Pro engines, it provides advanced video analytics including object attribute extraction (human, vehicle, face) and detection of falls, crowds, and abandoned objects. With IP66, IK10, and NEMA4X certifications, the camera ensures stable operation in harsh outdoor environments down to -40°C, supported by 360° endless pan and precise tilt control. It is ideal for large-scale critical infrastructure such as city surveillance, airports, and seaports that require wide-area monitoring and intelligent event response.

KEY FEATURES

- Easy installation with DirectIP NVR
- 8MP (3840x 2160) resolution
- AF optical zoom lens 40x zoom
- Built-in 400m Long range IR Illuminator
- IDIS Deep-Learning Analytics (IDLA), IDIS Deep-Learning Analytics Pro
- (IDLA pro)
- Attribute Support(Human, Vehicle, Face), A-cut Support
- AI Auto Tracking Supports

DC-S6883WRA | Datasheet

VIDEO

Image Sensor	1/1.8" CMOS
Max. Resolution	3840 x 2160
Scanning Mode	Progressive Scan
Lens Type	AF Zoom Lens
Focal Length	6.5 ~ 260mm
Aperture	F1.69 ~ F4.92
Iris Control	P-Iris
Angular Field of View	Wide : 64.6°(H), 38.4°(V), 72.2°(D) Tele : 1.79°(H), 1.00°(V), 2.08°(D)
Min. Illumination	Color : 0.13 lux @ F1.69 B/W : 0 lux (IR LED On)
Dynamic Range	120dB (True WDR)
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/10,000), Anti-Flicker, Slow Shutter (1/7.5, 1/15)
Day and Night	Yes (ICR)
IR Distance (LEDs)	400 m / 1,312.3ft (2ea)
Image Setting	Exposure, White Balance, Self-Adjusting Video Mode(Sharpness, Contrast, Colors, Brightness Control),
Backlight Compensation	-
Mirroring / Pivot	Horizontal / Vertical
Image Stabilizer	Yes (EIS)
De-fog	Yes
Privacy Masking	32 Zones
Intelligent Video	A-cut Support Object Metadata: Human, Vehicle, Face Object Attribute: Human[Gender, Age, Bag, Hat, Colors], Vehicle[Car, Truck, Bus, Bike(Bicycle, Motorcycle), ETC, Colors], Face[Gender, Age, Glasses, Hat, Mask] IDLA: Object Detection, Intrusion, Loitering, Line Crossing, Face Detection IDLA Pro: Crowd Detection, Abandoned Object Detection, Removed Object Detection, Fall Detection ETC: Video Motion Detection, Active Tampering Alarm
Video Out	1 Terminal Block

PAN/TILT/ROTATE

Pan Range	360° (Endless)
Pan Speed	0.02~240°/sec (preset 240°/sec)
Tilt Range	100° (-10~90°)
Tilt Speed	0.02~240°/sec (preset 240°/sec)
Preset	256ea

NETWORK

Video Compression	H.265, H.264 (MP), M-JPEG
Intelligent Codec	Yes
Bitrate Control	H.264 - CBR / VBR, H.265 - CBR / VBR
Audio Compression	Opus, ADPCM 16K, G.726, G.711 u-Law, G.711 a-Law
Two-way Audio	Yes
IP Camera Protocol	DirectIP 2.0, ONVIF Profile S/T/M
Max. Frame Rate	30ips : 3840 x 2160 (WDR)
Supported Resolution	3840 x 2160, 1920 x 1080, 1280 x 720, 640 x 360
Multi-video Streaming	Quadruple Streaming
Network Protocols	DirectIP 2.0 Protocol, IPv4, IPv6, RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP, SNMPv2
Security	FIPS 140-3 Level 3, Digest authentication, Password Protection, User access log, IP Filtering, IEEE802.1x(EAP-TLS), Chained Fingerprint, SSL Encryption, HTTPS Encryption
Ethernet	RJ45 (10/100BASE-T)
Recording Session Buffer (NLTSec)	Yes (Up to 60MB)
Edge Storage	micro SD/SDHC/SDXC, Smart Failover (Up to 512GB)

ALARM AND EVENT

Trigger Event	Motion Detection, Alarm in, Audio detection, Tampering, Object Detection, Intrusion, Loitering, Line Crossing, Face Detection, Crowd detection, Abandoned object detection, Removed object detection, Fall detection
Event Notification	Remote S/W, Email (with Image)
Audio Alarm	Yes
Audio In / Out	1 / 1
Alarm In / Out	8 / 2

ENVIRONMENTAL

Vandal Proof Casing	IK10
Outdoor Ready	IP66, NEMA4X
Operating Temperature	IRLED OFF : -40°C ~ +55°C (-40°F ~ +131°F) IRLED ON : -40°C ~ +40°C (-40°F ~ +104°F) *Starting up at above -20°C (-4°F)
Operating Humidity	0% ~ 90%

ELECTRICAL

Power Source	24VAC, PoE IEEE 802.3bt (Class 8)
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Power Consumption	HEATER,IR OFF 24V~, 2.0A, 36.4W, 50/60Hz PoE, IEEE 802.3bt(Class 8), 34.8W HEATER,IR ON 24V~, 3.0A, 55.9W, 50/60Hz PoE, IEEE 802.3bt(Class 8), 55.7W
Approval	FCC, CE, KC

MECHANICAL

Dimensions	Ø242mm x 401.8mm (Ø9.52" x 15.82")
Weight	7.46kg (16.44 lbs)

DIMENSIONS

(Unit - mm)



DC-S6883WRA | Compatible Accessories

ENVIRONMENT	CONFIGURATION
Wall	 Wall Mount DA-WM1400
Ceiling	 Ceiling Mount DA-CM1300 OR  Ceiling Mount DA-CM1500
Pole	 Wall Mount DA-WM1400 +  Pole Mount DA-LM1100
Corner	 Wall Mount DA-WM1400 +  Corner Mount DA-RM1100

ENVIRONMENT

CONFIGURATION

Etc



Single Port High-PoE Injector
DA-PI PoE400