DC-S6481HRA

H.265 4MP AI PTZ Camera (LightMaster NIR)

NDAA & TAA Compliant



4MP AI PTZ CAMERA WITH 36X OPTICAL ZOOM AND 400M IR

The DC-S6481HRA features a 1/1.8" CMOS sensor delivering 4MP resolution, combined with a 36x optical zoom and 400m IR distance for clear identification of distant objects day and night. It integrates deep learning-based IDLA for precise video analytics, including object metadata extraction (human, vehicle, face) and detection of intrusion, loitering, and line crossing. With IP66, IK10 ratings, and a built-in heater, the camera ensures reliable operation in extreme temperatures ranging from -40°C to +60°C. It is ideal for large-scale critical infrastructure such as city surveillance, airports, and seaports requiring wide-area monitoring and intelligent analysis.

KEY FEATURES

- Easy installation with DirectIP NVR
- 4MP (2688 x 1520) resolution
- AF optical zoom lens (f=6.91 ~ 248.76mm)
- Built-in 400m Long range IR Illuminator
- IDIS Deep-Learning Analytics (IDLA)
- AI Auto Tracking Supports

DC-S6481HRA | Datasheet

VIDEO

Image Sensor	1/1.8" CMOS
Max. Resolution	2688 X 1520
Scanning Mode	Progressive Scan
Lens Type	AF Zoom Lens
Focal Length	6.91 ~ 248.76mm
Aperture	F1.36~F4.6
Iris Control	P-Iris
Angular Field of View	Wide : 61.8°(H), 36.3°(V), 70.3°(D) Tele : 2.4°(H), 1.3°(V), 2.7°(D)
Min. Illumination	Color : 0.06 lux @ F1.36 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 : Built-in gyro sensor)
De-fog	Yes
Privacy Masking	8 Zones
Intelligent Video	Object Metadata: Human, Vehicle, Face IDLA: Object Detection, Intrusion, Loitering, Line Crossing, Face Detection Basic: Video Motion Detection, Active Tampering Alarm
Auto Tracking	Yes
Video Out	1 Terminal Block

PAN/TILT/ROTATE

Pan Range	360° (Endless)
Pan Speed	0.02~240°/sec (preset 240°/sec)
Tilt Range	200° (-10~190°)
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 16K, ADPCM 16K, G.726, G.711 a-Law/u-Law
Two-way Audio	Yes
IP Camera Protocol	DirectIP 2.0, ONVIF Profile S/T
Max. Frame Rate	30ips : 2688 x 1521(WDR)
Supported Resolution	2688 x 1520, 1920x1080, 1280x720, 640x360
Multi-video Streaming	Quadruple Streaming
Network Protocols	DirectIP 2.0 Protocol, IPv4, IPv6, RTP/WTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/UDP,RTSP/TCP, HTTP, HTTPS, FTP, SNTP, SMTP, FEN, mDNS, uPNP, SNMPv2
Security	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 (NLTSrec)	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
Event Notification	Remote S/W, Email (with Image)
Audio Alarm	Yes
Audio In / Out	1 / 1
Alarm In / Out	8 / 2
Alarm Characteristics	ALARM IN : 8 TTL, NC/NO Programmable; 4.3V(NC) or 0.3V(NO) threshold, 5V DC ALARM OUT : 2 TTL open collector, 20mA @ 5 VDC

ENVIRONMENTAL

Vandal Proof Casing	IK10
Outdoor Ready	IP66, Heater
Material	Metal + Plastic
Operating Temperature	-40°C ~ +60°C (-40°F ~ +140°F) *Starting up at above -20°C (-4°F)
Operating Humidity	0% ~ 80%

ELECTRICAL

Power Source	24VAC, PoE IEEE 802.3bt (Class 6)

Power Consumption	HEATER/IR OFF: 24V~, 1.5A, 27.1W, PoE, IEEE 802.3bt(Class 8), 28.4W HEATER/IR ON: 24V~, 2.6A, 52.9W, PoE, IEEE 802.3bt(Class 8), 54.2W
Approval	FCC, CE, KC

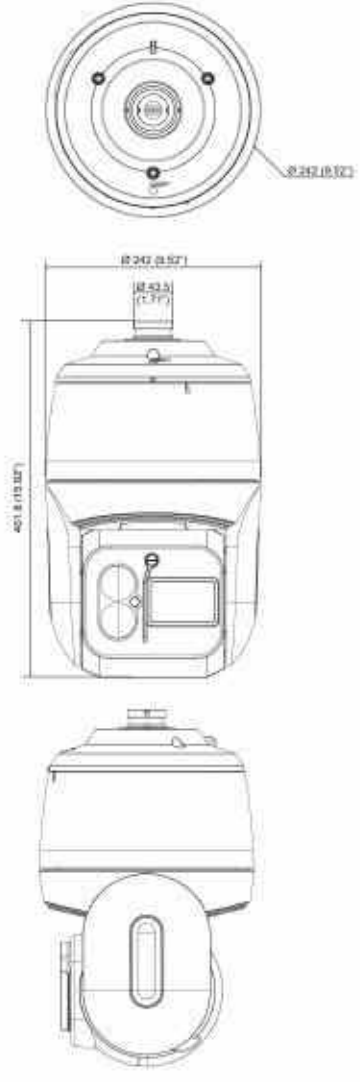
MECHANICAL

Dimensions	Ø242mm x 401.8mm (Ø9.52" x 15.82")
Weight	7.2kg (15.87 lbs)

DORI

Detect (25PPM)	69.9m – 2566.5m (294.6ft – 8420.2ft)
Observe (63PPM)	35.6m – 1018.4m (116.7ft – 3341.2ft)
Recognize (125PPM)	18m – 513.3m (59ft – 1684ft)
Identify (250PPM)	9m – 256.6m (29.5ft – 841.8ft)

DIMENSIONS


Ø 240 (9.52")
Ø 240 (9.52")
Ø 43.5
(1.71")
421.6 (15.102")

DC-S6481HRA | 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 PoE40D