

DC-T4248HRA

H.265 2MP AI Bullet Camera (LightMaster NIR)

NDAA & TAA Compliant



2MP VARI-FOCAL BULLET CAMERA OPTIMIZED FOR LONG-RANGE MONITORING AND INTELLIGENT ANALYTICS

The DC-T4248HRA features a 1/2.8" CMOS sensor delivering Full HD video at 60fps, with a 7-22mm motorized vari-focal lens for precise long-range capture. It maintains high image clarity in challenging lighting with 120dB True WDR and a 50m IR distance. The integrated IDLA engine enables deep learning-based analytics, including object classification (human, vehicle, face) and event detection such as intrusion and line crossing. Built for reliability, it features IP67 and IK10 ratings with a built-in heater for operation down to -40°C, while Smart Failover ensures data integrity during network disruptions. This camera is ideal for perimeter security, large parking lots, and industrial sites requiring long-distance monitoring and accurate object recognition.

KEY FEATURES

- 2MP (1920 x 1080) resolution
- IDIS Deep-Learning Analytics (IDLA)
- IR LED (50 m / 164 ft (6 ea))
- NIR Sensor
- Day and night (ICR)
- True wide dynamic range (WDR)
- Easy installation with DirectIP NVR
- H.265 and Intelligent Codec
- PoE (IEEE 802.3af Class 3)
- IK10, IP67
- Alarm in / out
- Audio in / out
- Built-in heater
- micro SD/SDHC/SDXC
- Supports ONVIF

DC-T4248HRA | Datasheet

VIDEO

Image Sensor	1/2.8" CMOS
Max. Resolution	1920 x 1080
Scanning Mode	Progressive Scan
Lens Type	Motorized Vari-focal
Focal Length	7 ~ 22mm
Aperture	F1.4 ~ F2.8
Iris Control	DC Iris
Angular Field of View	Wide : 40.5°(H), 22°(V), 47.3°(D) Tele : 16.8°(H), 9.5°(V), 19.3°(D)
Min. Illumination	COLOR : 0.1 lux @ F1.4 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)	50 m / 164 ft (6 ea)
Image Setting	Exposure, White Balance, Self-Adjusting Video Mode(Sharpness, Contrast, Colors, Brightness Control)
Backlight Compensation	-
Mirroring / Pivot	Horizontal / Vertical / Pivot
Image Stabilizer	-
De-fog	Yes
Privacy Masking	8 Zones
Intelligent Video	Object Metadata: Human, Vehicle, Face IDLA: Object Detection, Intrusion, Loitering, Line Crossing, Face Detection ETC: Video Motion Detection, Active Tampering Alarm
Video Out	-

NETWORK

Video Compression	H.265, H.264 (MP), M-JPEG
Intelligent Codec	Yes
Bitrate Control	H.265 - CBR / VBR, H.264 - 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
Max. Frame Rate	60ips : 1920 x 1080 30ips : 1920 x 1080 (WDR)
Supported Resolution	1920x1080, 1280x720, 640x360, 352x240

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, SNMP, 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	1 / 1

ENVIRONMENTAL

Vandal Proof Casing	IK10
Outdoor Ready	IP67, Heater
Operating Temperature	-40°C ~ +60°C (-40°F ~ +140°F) *Starting up at above -20°C (-4°F)
Operating Humidity	0% ~ 90%

ELECTRICAL

Power Source	12VDC, PoE IEEE 802.3af (Class 3)
Power Consumption	12V=, 1.1A, 13.2W PoE, IEEE 802.3af (Class 3), 8.3W
Approval	FCC, CE, KC

MECHANICAL

Dimensions	89.3mm X 89.3mm X 277.6mm (3.52" x 3.52" x 10.93")
Weight	1.293kg (2.85 lb)

DIMENSIONS

Unit - mm (inch)



DC-T4248HRA | Compatible Accessories

ENVIRONMENT	CONFIGURATION
Wall	 Junction Box DA-JB4150
	OR
	 Junction Box DA-JB2400
Pole	 Pole Mount DA-LM2000
	+
	 Junction Box DA-JB2400
	OR
	 Junction Box DA-JB4150
	+
	 Pole Mount DA-LM2000
Corner	 Junction Box DA-JB4150
	+
	 Corner Mount DA-RM2000
	OR
	 Corner Mount DA-RM2000
	+
	 Junction Box DA-JB2400