

**DC-D4538WRA**

# H.265 5MP AI IR Dome Camera (LightMaster NIR)

NDA & TAA Compliant



## 5MP OUTDOOR VARI-FOCAL DOME CAMERA WITH DEEP LEARNING ANALYTICS

The DC-D4538WRA features a 1/2.8" CMOS sensor delivering 5MP (2592 x 1944) high-resolution video, with a 2.7~13.5mm motorized vari-focal lens for remote field-of-view adjustment. It ensures clear identification in challenging lighting or nighttime conditions through 120dB True WDR and 40m IR distance. Equipped with a deep learning-based IDLA engine, the camera provides precise video analytics, including object metadata extraction (human, vehicle, face) and detection of intrusion or loitering. With IP67, IK10 ratings, and a built-in heater, it operates reliably in temperatures as low as -40°C, while Smart Failover technology prevents data loss during network interruptions. This camera is ideal for outdoor security and industrial facilities requiring accurate object analysis and high environmental durability.

## KEY FEATURES

- Easy installation with DirectIP NVR
- Remote Motorized Focus and Zoom
- IR LED (Distance: 40m / 131.2 ft)
- H.265 and Intelligent Codec
- PoE (IEEE 802.3af Class 3)
- IDIS Deep-Learning Analytics (IDLA)

# DC-D4538WRA | Datasheet

VIDEO	
Image Sensor	1/2.8" CMOS
Max. Resolution	2592 x 1944
Scanning Mode	Progressive Scan
Lens Type	Motorized Vari-focal
Focal Length	2.7 ~ 13.5mm
Aperture	F1.4 ~ 3.2
Iris Control	DC Iris
Angular Field of View	[4:3 mode] Wide : 101.2°(H) 72.5°(V) 137.4°(D) Tele : 30.4°(H) 22.8°(V) 38°(D) [16:9 mode] Wide : 101.2°(H) 53.3°(V) 121.6°(D) Tele : 30.4°(H) 17°(V) 34.7°(D)
Min. Illumination	COLOR : 0.13 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)	40m / 131.2 ft (6ea)
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	-

PAN/TILT/ROTATE	
Pan Range	-175° ~ 175°
Tilt Range	0° ~ 60°
Rotate Range	-177° ~ 177°

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	4:3 mode : 30ips : 2592 x 1944(WDR) 16:9 mode : 30ips : 2592 x 1456(WDR)
Supported Resolution	4:3 : 2592x1944, 1920x1440, 1280x960, 640x480 16:9 : 2592x1456, 1920x1080, 1280x720, 640x360
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	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 ~ +55°C (-40°F ~ +131°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), 10W
Approval	FCC, CE, KC

## MECHANICAL

Dimensions	Ø155 x 104.4mm(Ø6.1" x 4.11")
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Weight 1kg (2.2lb)

## DIMENSIONS

Unit - mm (inch)



## DC-D4538WRA | Compatible Accessories

ENVIRONMENT

CONFIGURATION

**Wall**



**MOUNT ADAPTER**  
DA-MA2100

+



**WALL MOUNT**  
DA-WM2050

**Ceiling**



**MOUNT ADAPTER**  
DA-MA2100

+



**CEILING MOUNT**  
DA-CM2050

**Pole**



**MOUNT ADAPTER**  
DA-MA2100

+



**WALL MOUNT**  
DA-WM2050

+



**Pole Mount**  
DA-LM2000

**Corner**



**MOUNT ADAPTER**  
DA-MA2100

+



**WALL MOUNT**  
DA-WM2050

+



**Corner Mount**  
DA-RM2000

ENVIRONMENT

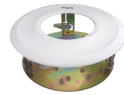
CONFIGURATION

Etc



**JUNCTION BOX**  
DA-JB2200

OR



**Flush Mount**  
DA-FM1500