

DC-U6K31WRA

20MP AI Multi-directional Camera

NDAA & TAA Compliant



5MP OUTDOOR DOME CAMERA WITH INTELLIGENT ANALYTICS AND HIGH-LEVEL SECURITY

The DC-U6K31WRA features a 1/2.8" CMOS sensor delivering 5MP (2592x1944) high-resolution video, with a motorized vari-focal lens for precise remote focal adjustment. It ensures clear visibility in challenging lighting conditions through 120dB True WDR and IR LEDs with a 25m range. The integrated IDLA (Intelligent Deep Learning Analytics) engine enables accurate object classification for humans, vehicles, and faces, supporting advanced functions such as intrusion and loitering detection. Compliant with FIPS 140-3 Level 3 security standards and certified with IP67, IK10, and NEMA4X, the camera operates reliably in harsh outdoor environments from -40°C to +55°C. It is ideal for industrial sites, public safety, and critical infrastructure requiring precise analytics and high-level data security.

KEY FEATURES

- 4 X 5MP Sensors
- 4CH Multi-directional Camera
- Easy installation with DirectIP NVR
- H.265 and Intelligent Codec
- Remote Motorized Focus and Zoom
- PoE (IEEE 802.3at Class 4)
- IR LED (Distance: 25m / 82ft)
- IDIS Deep-Learning Analytics (IDLA)
- Supports ONVIF Profile S/T

DC-U6K31WRA | Datasheet

VIDEO - FOR 4CH

Image Sensor	1/2.8" CMOS
Max. Resolution	2592x1944
Scanning Mode	Progressive Scan
Lens Type	Motorized Vari-focal
Focal Length	3.3 ~ 7.02mm
Aperture	F1.8 ~ F2.74
Iris Control	Fixed Iris
Angular Field of View	Wide : 96°(H), 69.8°(V), 127.8°(D) Tele : 42.4°(H), 31.8°(V), 53.2°(D)
Min. Illumination	COLOR : 0.1 lux @ F1.8 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)	25m / 82ft (3ea per unit)
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	0° ~ 360°
Tilt Range	0° ~ 80°
Rotate Range	0° ~ 90°

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	FIPS 140-3 Level 3, Digest authentication, Password Protection, Brute force delay protection, User access log, IP Filtering, IEEE802.1x(EAP-TLS), Chained Fingerprint, SSL Encryption, HTTPS Encryption
Ethernet	RJ45 (10/100/1000BASE-T)
Recording Session Buffer (NLTSrec)	Yes (Up to 60MB)
Edge Storage	Micro SD/SDHC/SDXC,UHS Speed Class 3, 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, NEMA4X
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	PoE, IEEE 802.3at(Class 4)
Power Consumption	PoE, IEEE 802.3at(Class 4), 21W
Approval	FCC, CE, KC, UL

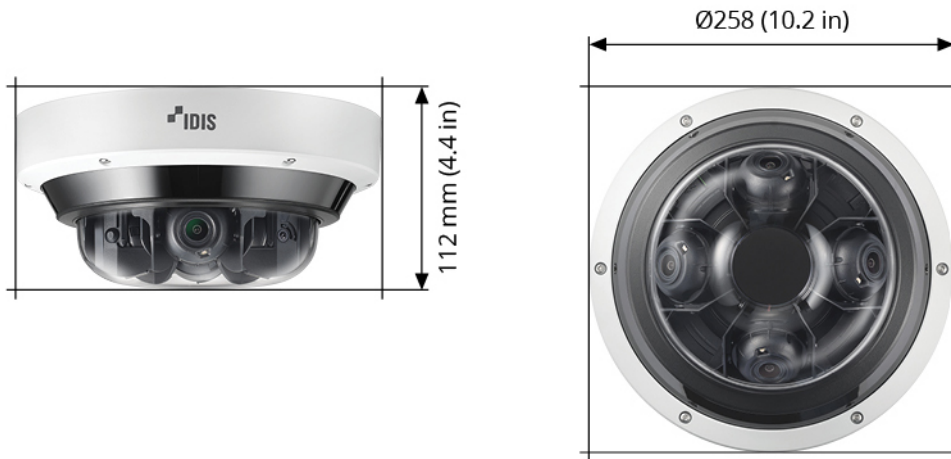
MECHANICAL

Dimensions	Ø258 x 112mm(Ø10.2" x 4.4")
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Weight 2.8kg (6.2lb)

DIMENSIONS

Unit - mm (inch)



DC-U6K31WRA | Compatible Accessories

ENVIRONMENT

CONFIGURATION

Wall



Wall Mount
DA-WM1400

+



Multi-imager
Mount Adapter
DA-MA4400

Ceiling



Ceiling Mount
DA-CM1300

+



Multi-imager
Mount Adapter
DA-MA4400

OR



Ceiling Mount
DA-CM1500

+



Multi-imager
Mount Adapter
DA-MA4400

Pole



Wall Mount
DA-WM1400

+



Pole Mount
DA-LM1100

+



Multi-imager
Mount Adapter
DA-MA4400

Corner



Wall Mount
DA-WM1400

+



Corner Mount
DA-RM1100

+



Multi-imager
Mount Adapter
DA-MA4400