

RVK-W40-IR

Knight Watch 40

Key Features

- 1/1.8" Progressive Scan CMOS, 4MP Sensor
- PoE for Simple Plug and Play Connection
- Super Low-Light Performance
- Motorised Zoom Lens with Auto Focus
- Easy Positioning
- Cast Aluminium Body
- Up to 1TB SD Card Recording
- ONVIF Profile S, G & T Compliant
- 60m Adaptive IR Integral LEDs
- Intelligent Video Analytics
- Audio In/ Out
- Built in Microphone and Speaker
- Adjustable Sun and Rain Visor
- IP66, IK10

KNIGHT WATCH 40 Turret Camera

The Redvision WATCH 40 is a powerful, versatile bullet camera, designed to deliver outstanding image quality in any environment. Using an advanced low-light CMOS sensor, it produces crisp, detailed video by day and night. Power over Ethernet (PoE) ensures a simple, plug-and-play installation with minimal cabling and low energy consumption (12W, IR on). A motorised zoom lens with smart auto-focus guarantees sharp focus at all times, while the rugged cast-aluminium housing combines durability with a stylish finish.

Adaptive IR Illumination

Built-in IR LEDs provide up to 60m of adaptive infrared coverage, automatically adjusting intensity to match zoom level and scene content. With LEDs fully isolated from the lens, the Knight Watch 40 eliminates glare and haze, ensuring crystal-clear images even in complete darkness.

Motorised Zoom

A fully motorised 3.6mm–11mm smart auto-focus lens makes installation fast and straightforward. Once in place, it delivers consistently sharp images, whether monitoring close-up detail or wide-angle coverage..

Rugged Aluminium Housing

Precision-engineered from cast aluminium and rated to IP66, IK10, the Knight Watch 40 is built to withstand harsh weather and demanding environments. Its robust design protects the camera and ensures long-term reliability.

Edge Recording & Recovery

On-board SD card storage (up to 1TB) provides secure, continuous recording at the network edge, even during outages. With ONVIF Profile G support, the Knight Watch 40 automatically recovers and synchronises recordings with compatible VMS or NVR systems once connectivity is restored.

ONVIF Compliant

Supporting ONVIF Profiles S, G and T, the Knight Watch 40 integrates seamlessly with countless VMS platforms and NVRs. Optional H.265 streaming delivers high-quality images at reduced bandwidth and storage costs.

Advanced Features

Motion detection, intelligent video analytics, smart encoding and region of interest allow the camera to be tailored to each application. This ensures efficient use of storage while capturing the events and information that matter most.

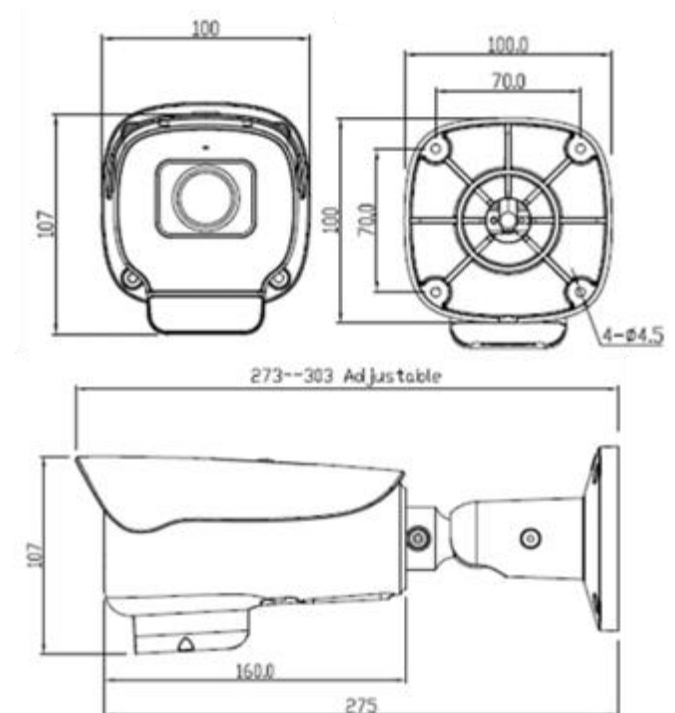
Easy Installation

3D positioning ensures flexible mounting, allowing installers to find the perfect field of view quickly and accurately.

Two-Way Audio

An integrated microphone and loudspeaker provide full two-way audio, enabling operators to communicate instantly with on-site personnel at the click of a button.

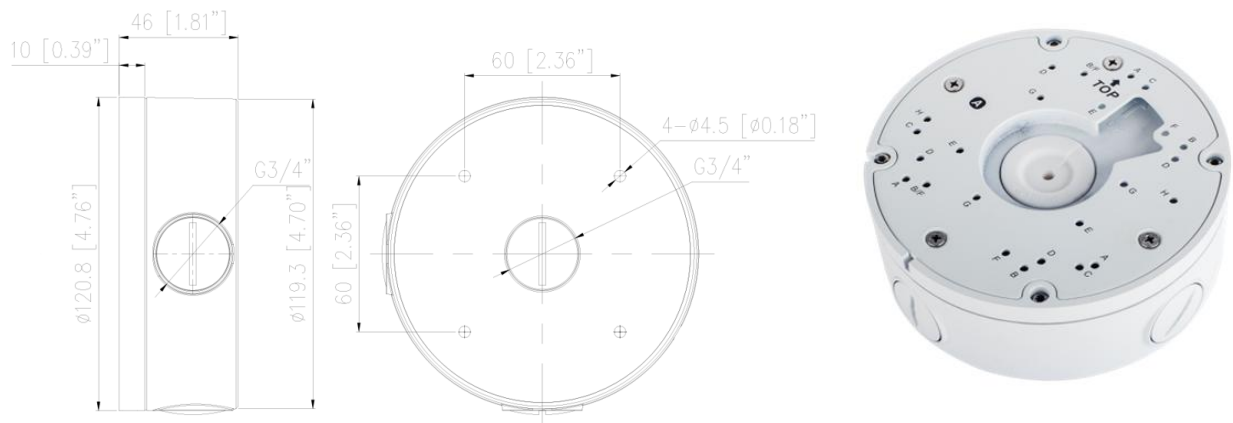
Dimensions



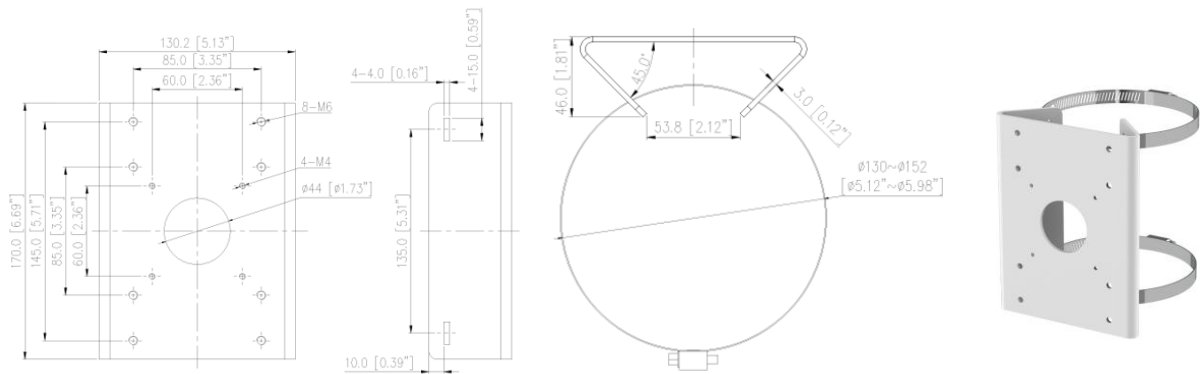
Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Max. Resolution	4MP (2560×1440)
Electronic Shutter	Auto/Manual, 1/5 ~ 1/20,000s
Min. illumination	Colour: 0.001 Lux @ (F1.6, AGC ON) , B/W: 0 Lux @ (IR LED ON)
Day & Night	IR cut filter
IR Distance	Up to 60m
IR On/Off Control	Auto/Manual
Pan/Tilt/Rotation Range	Pan: 0° ~ 360°, Tilt: 0° ~ 90°, Rotation: 0° ~ 360°
Lens	
Lens Type	Motorised Focus
Iris	Fixed Iris
Focal Length	3.6 ~ 11 mm
F Number	F1.3
Field of View	H: 114.6°~48.3°, V: 59.0°~27.1°
Video	
Streaming Capability	3 Streams
Stream/Frame Rate	Stream1: 2560×1440, 2304×1296, 1920×1080, 1280×720 @ 25/30fps Stream2: D1, VGA, CIF @ 25/30fps Stream3: VGA, CIF, QVGA @ 25/30fps
Bit Rate Control	CBR/VBR
Bit Rate	Stream1: 200kbps~12Mbps Stream2: 100kbps~6Mbps Stream3: 100kbps~3Mbps
Region of Interest	Off/On (8 Zone, Rectangle)
Smart Encode – Bandwidth Optimisation	Supported
Image	
Image Adjustment	Brightness/Sharpness/Contrast/Saturation adjustable
Aisle Mode	Supported
Mirror	Supported
White Balance	Auto/Manual
Day/Night Setting	Auto, Day, Night, Time
Adaptive Illumination	Supported
Noise Reduction	2D/3D DNR
Wide Dynamic Range	True WDR
Image Enhancement	HLC, BLC, Defog
S/N Ratio	55dB
Motion Detection	Supported
Privacy Masking	Supported

Smart Event	
Multi-Object Detection	Face, human & vehicle detection
Smart Events	Intrusion, Single line crossing, Double line crossing, Loitering, Wrong way, People counting Support alarm triggering by specified target types (human and vehicle)
Audio	
Compression	G.711, RAW_PCM
Bit Rate	8kbps, 16kps, 64kbps
Network	
Protocols	IPv4/IPv6, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTP/RTCP, PPPoE, SMTP, DNS, UPnP, FTP, ARP, SNMP, TLS/SSL
Interoperability	ONVIF (Profile S, G & T), SDK, CGI
Streaming Method	Unicast
Max. User Access	10 Users
Web Viewer	Microsoft Edge, Chrome, Firefox, Opera
Language	English, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian. Default: English
Interface	
Network Interface	1 Ethernet (10/100 Base-T) RJ-45 Connector
Audio Interface	1ch Input, 1ch Output
Built-in Microphone	Yes
Built-in Speaker	Yes
Alarm Interface	1ch Input, 1ch Output
Reset Button	Supported
SD Card Slot	Built-in, up to 1TB
Electrical	
Power Supply	12VDC (-15%~+25%)/ POE (IEEE 802.3af)
Power Consumption	Max 12 W
Operating Temperature	-40°C ~ 55°C
Operating Humidity	Less than 90% RH
Ingress Protection	IP66
Impact Rating	IK10
Certifications	CE/FCC
Casing	Aluminium
Dimensions	303 × 100 × 107 mm
Net Weight	1.25 kg
DORI	
DORI Category	Distances calculated as per IEC 62676-4:
Detection (25PPM)	Wide: 60m, Tele: 130m
Observation (62.5PPM)	Wide: 24m, Tele: 52m
Recognition (125PPM)	Wide: 12m, Tele: 26m
Identify (250PPM)	Wide: 6m, Tele: 13m

RVK-W-JB: Junction Box for Knight Watch Cameras



RVK-POLE1: Pole Clamp for Knight Series Cameras



Further information:

