

**RVK-E40-IRWL**

**Knight Eye 40 IRWL**



## Key Features

- 1/1.8" Progressive Scan CMOS, 4MP Sensor
- PoE for Simple Plug and Play Connection
- Super Low-Light Performance
- Fixed Zoom/ Focus Lens
- Easy Positioning
- Cast Aluminium Body
- ONVIF Profile S, G & T Compliant
- 40m IR, 30m White Light LEDs
- Intelligent Video Analytics
- Audio In/ Out
- Built in Microphone and Speaker
- IP66
- Up to 1TB SD Card Recording

## KNIGHT EYE 40 Turret Camera

The Redvision Knight Eye 40 is a powerful, versatile turret 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 (8.5W, 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 & White Light Illumination

The Knight Eye 40 features dual illumination technology, giving operators the best of both worlds. Powerful adaptive IR LEDs provide up to 50m of discreet, crystal-clear night vision, automatically adjusting intensity with zoom and scene content. When visible light is needed, the camera's white light LEDs activate to capture full-colour detail, even in complete darkness.

This flexibility not only delivers outstanding image quality in all conditions but also offers a strong deterrent effect—switching to white light can illuminate intruders, making them aware they are under surveillance. With the LEDs fully isolated from the lens, the Knight Eye 40 eliminates glare and haze, ensuring uncompromised, high-definition images around the clock.

### Fixed Zoom

The Dual Light Knight Eye 40 IRWL has a 4mm fixed focus lens to provide a wide field of view suitable for multiple applications.

### Rugged Aluminium Housing

Precision-engineered from cast aluminium and rated to IP66, the Knight Eye 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 Eye 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 Eye 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.

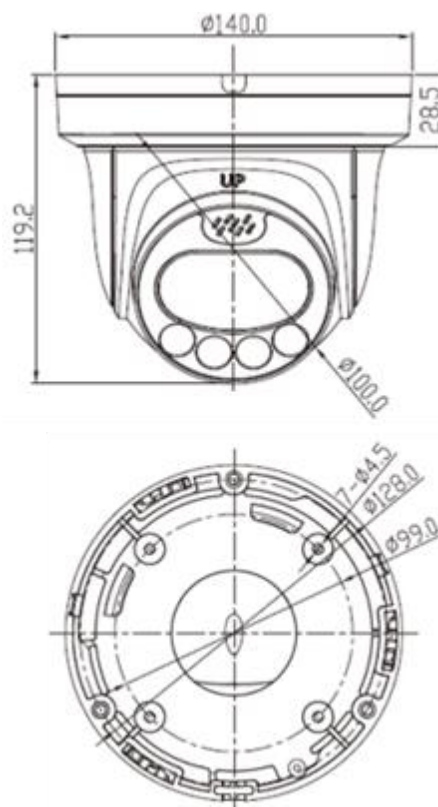
## Easy Installation

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.

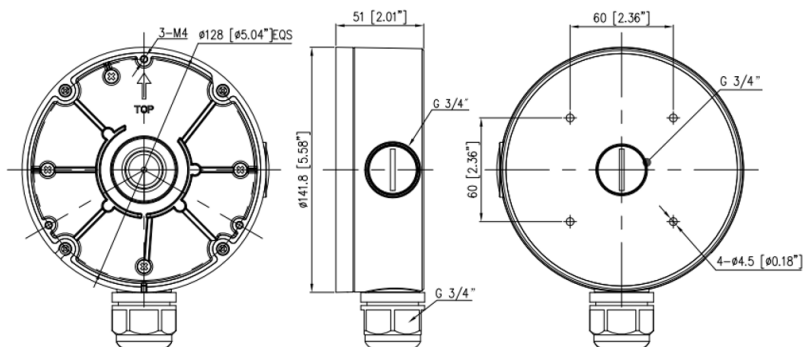
## Dimensions



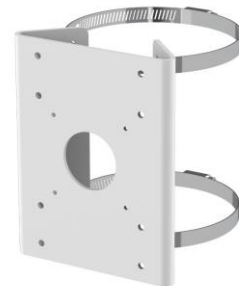
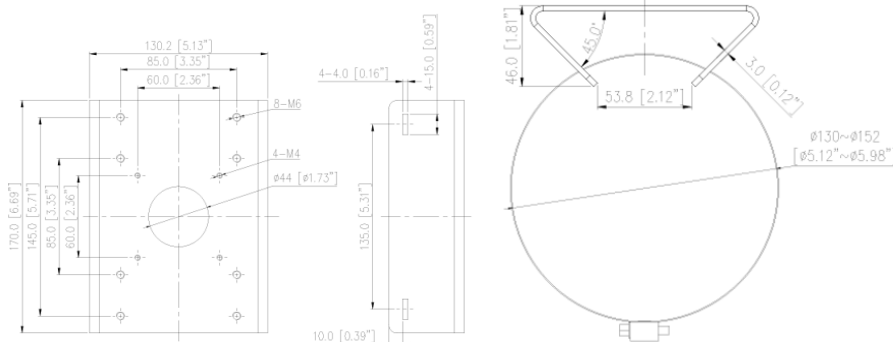
Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Max. Resolution	4MP (2560×1440)
Electronic Shutter	Auto/Manual, 1/5 ~ 1/20,000s
Min. illumination	Colour: 0.001 Lux @ (F1.6, AGC ON) , B/W: 0 Lux @ (IR LED ON)
Day & Night	IR cut filter
IRWL Distance	IR distance up to 40 m White light distance up to 30 m
IRWL On/Off Control	Auto/Manual
Pan/Tilt/Rotation Range	Pan: 0° ~ 355°, Tilt: 0° ~ 80°, Rotation: 0° ~ 360°
Lens	
Lens Type	Fixed focus
Iris	Fixed Iris
Focal Length	4 mm
F Number	F1.6
Field of View	H: 84.4°, V: 47.5°
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, RTCP/RTP, 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 9.5 W
Operating Temperature	-40°C ~ 55°C
Operating Humidity	Less than 90% RH
Ingress Protection	IP66
Certifications	CE/FCC
Casing	Aluminium
Dimensions	OD 140 × 119.2 mm
Net Weight	0.9 kg
DORI	
DORI Category	Distances calculated as per IEC 62676-4:
Detection (25PPM)	54m
Observation (62.5PPM)	21.6m
Recognition (125PPM)	10.8m
Identify (250PPM)	5.4m

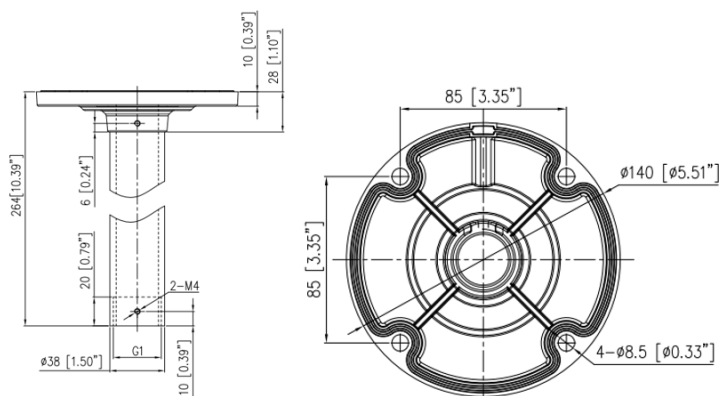
## RVK-E-JB: Junction Box for Knight Eye Cameras



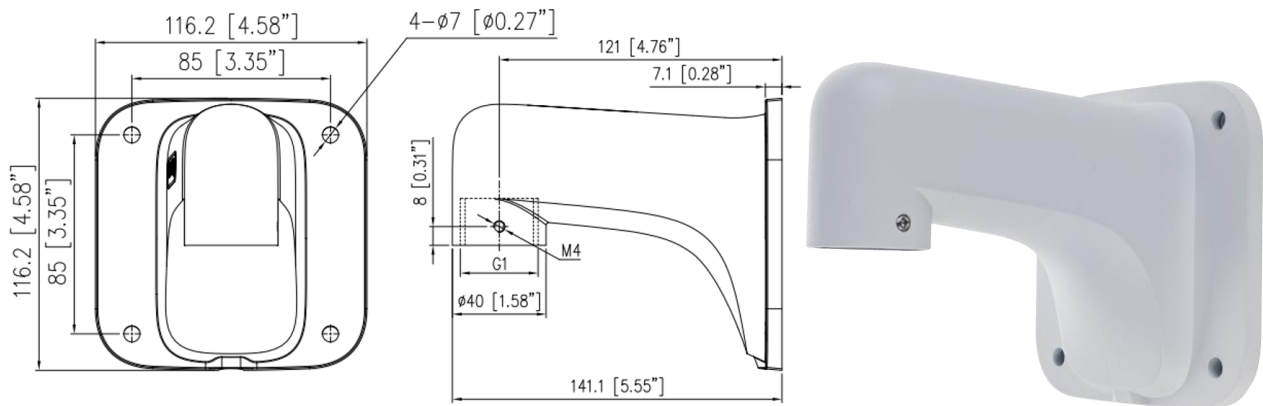
## RVK-POLE1: Pole Clamp for Knight Series Cameras



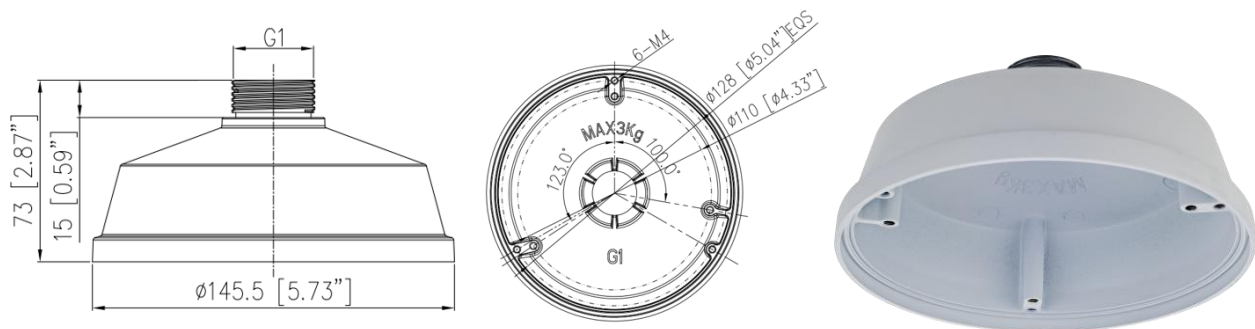
## RVK-STANDOFF: Standoff Bracket for Knight Series Cameras - Requires Bracket Mount Adapter



**RVK-WALL:** Wall Bracket for Knight Series Cameras - Requires Bracket Mount Adapter



**RVK-E-ADPT:** Knight Eye Bracket Mount Adapter - Compatible with RVK-WALL & RVK-STANDOFF



**Further information:**

