

GLOBAL-KING
International Co., Ltd.

# Global-King Network Camera

AI TrueColor Dome Network Camera



# Feature

Model：GK5431CQ-HYPG1

# Feature

- NDAA compliant products
- 5MP Resolution
- AI ISP | F1.0 Aperture | 1/2.65”Sensor
- Smart Hybrid Light
- Blue & Red Flashing Lights
- Built-in Dual Mic & Speaker
- VCA 2.0 | Object Counting | Face Capture | Heat Map
- Digital Image Stabilization (DIS)
- One Screwdriver Design
- IP67 | IK10



# Specification

## Products Specification

| Model | GK5431CQ-HYPG1 |
|---|---|
| **Image Sensor** | 1/2.65” Progressive Scan CMOS |
| **Min. Illumination** | Color：0.003 lux@F1.0 (Color, 30 IRE)｜B/W：0 lux (Illuminator on) |
| **WDR** | 120dB Super WDR |
| **Shutter Time** | 1~1/100,000s |
| **Day/Night Mode** | Day｜Night｜Auto｜Customize｜Schedule |
| **DORI Distance** | 2.8mm：D：68.5m｜O：27m｜R：13.5m｜I：6.5m<br>4.0mm：D：86m｜O：34m｜R：17m｜I：8.5m |
| **S/N** | >56dB |
| **Illuminator Type** | 3xSmart Hybrid Lights (Mixed IR and White Warm Lights) |
| **IR Wave Length** | 850nm |
| **Illumination Distance** | Up to 40m (IR Light)｜Up to 30m (White Warm Light) |
| **Illuminator On/Off Control** | Auto｜Manual |
| **Smart Hybrid Lights** | Support |
| **Red and Blue Flashing Lights** | 1xRed Light｜1xBlue Light |
| **Lens** | Standard: 4.0 mm \| Optional: 2.8 mm |
| **Aperture** | F1.0 |
| **Field of View** | 2.8mm：H：111˚｜V：58.5˚｜D：136˚<br>4.0mm：H：92˚｜V：50˚｜D：108.5˚ |
| **Camera Angle Adjustment** | Pan：0˚ ~ 360˚｜Tilt: 0˚ ~ 90˚｜Rotation：0˚ ~ 360˚ |
| **Close Focus Distance** | 2.8mm：1m｜4mm：1.5m |
| **Resolution** | 2960(H) x 1664(V) |
| **Primary Stream** | 60Hz：30fps@(2960x1664｜2688x1520｜1920x1080｜1280x720)<br>50Hz：25fps@(2960x1664｜2688x1520｜1920x1080｜1280x720) |

| | |
|---|---|
| **Secondary Stream** | 60Hz：30fps@(704x576 \| 640x480 \| 640x360)<br>50Hz：25fps@(704x576 \| 640x480 \| 640x360) |
| **Tertiary Stream** | 60Hz：30fps@(1280x720 \| 704x576 \| 640x480 \| 640x360)<br>50Hz：25fps@(1280x720 \| 704x576 \| 640x480 \| 640x360) |
| **Video Compression** | H.265+ \| H.265 (HEVC) \| H.264+ \| H.264 \| MJPEG |
| **Video Bit Rate** | 16Kbps~16Mbps (CBR/VBR adjustable) |
| **Privacy Masking** | Up to 8 Areas (Mask Area and Mosaic Area are optional) |
| **Image Settings** | Brightness \| Contrast \| Saturation \| Sharpness |
| **Image Enhancement** | BLC \| HLC \| 2D DNR \| 3D DNR \| AWB \| Defog \| AGC \| LDC \| Anti-flicker \| Deblur, etc. |
| **Image Rotation** | Off \| Rotating 180° \| Flip Horizontal \| Flip Vertical \| Clockwise 90° \| Anticlockwise 90° |
| **Built-in Microphone** | Yes \| Dual Microphone |
| **Built-in Speaker** | Yes \| max. sound pressure level：10cm/95dB |
| **Audio Compression** | G.711 \| AAC \| G.722 \| G.726 |
| **Audio Sampling Rate** | 8 /16 /32 /44.1 /48KHz |
| **Audio Bit Rate** | 16~256kbps |
| **Ethernet** | 1xRJ45 10M/100M Ethernet Port |
| **Network Storage** | NAS (Support NFS /SMB /CIFS) \| ANR |
| **Network Protocols** | IPv4/IPv6 \| ARP \| TCP \| UDP \| RTCP \| RTP \| RTSP \| RTMP \| HTTP \| HTTPS \| DNS \| DDNS \| DHCP \| FTP \| NTP \| SMTP \| SNMP \| UPnP \| Bonjour \| LLDP \| SIP \| PPPoE \| VLAN \| 802.1x \| QoS \| IGMP \| ICMP \| SSL \| TLS 1.2 |
| **Video Analysis** | VCA 2.0: Intrusion Detection \| Region Entrance \| Region Exiting \| Advanced Motion Detection \| Line Crossing \| Loitering \| Object Left \| Object Removed |
| **Object Counting & Report** | Count the number of objects crossing the line \| optionally human and vehicle \| Support regional people counting for up to 4 detection areas |
| **Heat Map** | The built-in statistical behavior analysis enables you to identify the busiest areas within the environment |
| **Face Capture** | Capture faces, get real-time snapshots and integrate with third-party systems for advanced analysis |

| | |
|---|---|
| **One-Click Disarm** | Support |
| **Basic Event** | Motion Detection \| Tamper Detection \| Audio Alarm \| External Input \| External Output, etc. |
| **Exception** | Network Disconnection \| IP Address Filtering \| Record Failed \| SD Card Full \| SD Card Uninitialized \| SD Card Error \| No SD Card, etc. |
| **Event Action** | FTP Upload \| SMTP Upload \| Snapshot \| Record \| External Output \| Play Audio \| Alarm to SIP Phone \| HTTP Notification \| Warning Light, etc. |
| **Watermark** | Support |
| **Storage** | Support Micro SD/SDHC/SDXC Card Local Storage \| up to 1TB |
| **SIP/VoIP** | Yes \| Voice & Video-over-IP |
| **System Compatibility** | ONVIF Profile G&M&S&T \| One API |
| **Power Supply** | PoE (802.3af) \| DC12V±25% |
| **Working Temperature** | -40ºC~60ºC |
| **Working Humidity** | 0~95%(Non-condensing) |
| **Surge Protection** | 4KV |
| **Power Consumption** | Min.：3W (DC12V) / 4W (PoE) \| Max.：9W (DC12V) / 10W (PoE) |
| **Casing Material** | Metal |
| **Net Weight** | Net Weight：Approx. 0.9kg \| Gross Weight：Approx. 1.1kg |
| **Dimensions** | ⌀122mm x 108mm |
| **Certification** | CE \| FCC \| IP67 \| IK10 \| NDAA |

*Information correct as of print.*
*Slight specification variations may occur due to product enhancement to optimize functionality*

# Accessories

## Product Accessories



### A01 V3 Pole Mount

Weight: 625g
Dimension: 140*136*46mm
Installation Environment: For strapping cameras on poles between 102-127mm(4.1-5 inches) in diameter



### A02 V2 Pole Mount

Weight: 1kg
Dimension: 180*138.5*47mm
Installation Environment: For strapping cameras on poles between ϕ67-127mm (2.6-5 inches) in diameter



### A03 External Corner Bracket

Weight: 900g
Dimension: 180*152.5*76mm
Installation Environment: For mounting cameras on an external corner



### A71 Wall Mount

Weight: 530g
Dimension: 162*124*78mm
Installation Environment: Used to install cameras on an wall or vertical structure



### A72 V2 Wall Mount

Weight: 575g
Dimension: 242*145*133mm
Installation Environment: For wall or parapet installations



### A76 V2 Pendant Mount

Weight: 620g
Dimension: Φ 145*L (L is default as 290mm, also can be extended with A42-L)
Installation Environment: Used to install cameras on a ceiling or horizontal structure



### A83 V2 Junction Box

Weight: 640g
Dimension: Φ145*177.7*58mm
Installation Environment: For the containing of electrical connections which need to be concealed from sight and deter tampering

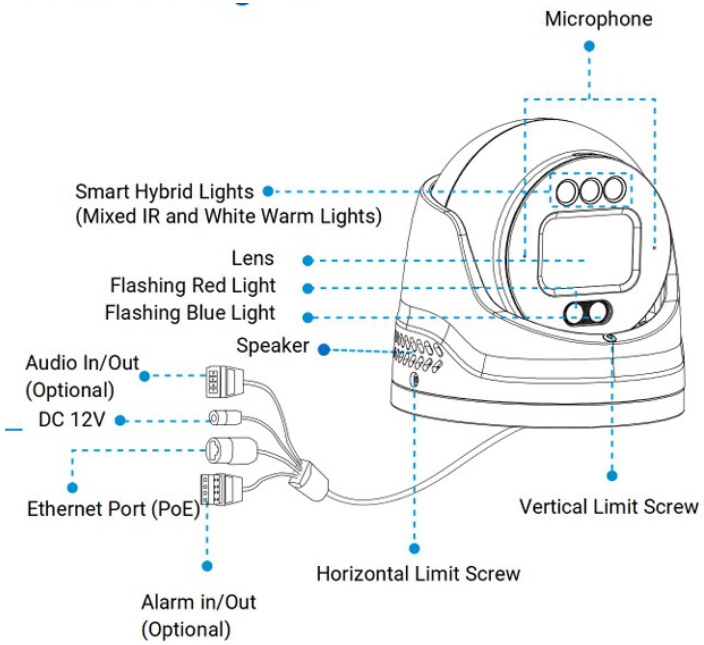


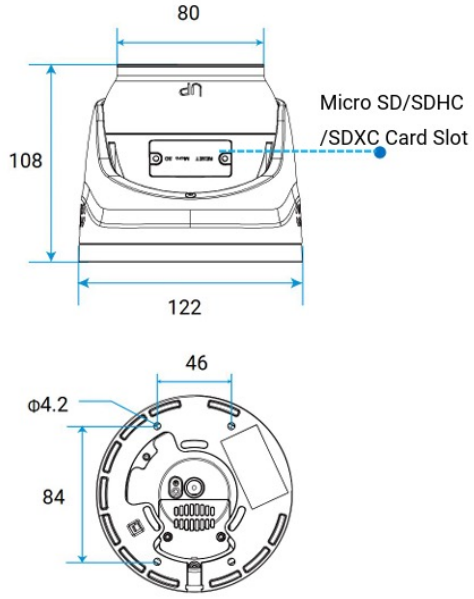
### A84 Junction Box

Weight: 360g
Dimension: Φ137*47.6mm
Installation Environment: For the containing of electrical connections which need to be concealed from sight and delete tampering

# Dimension




Units: mm

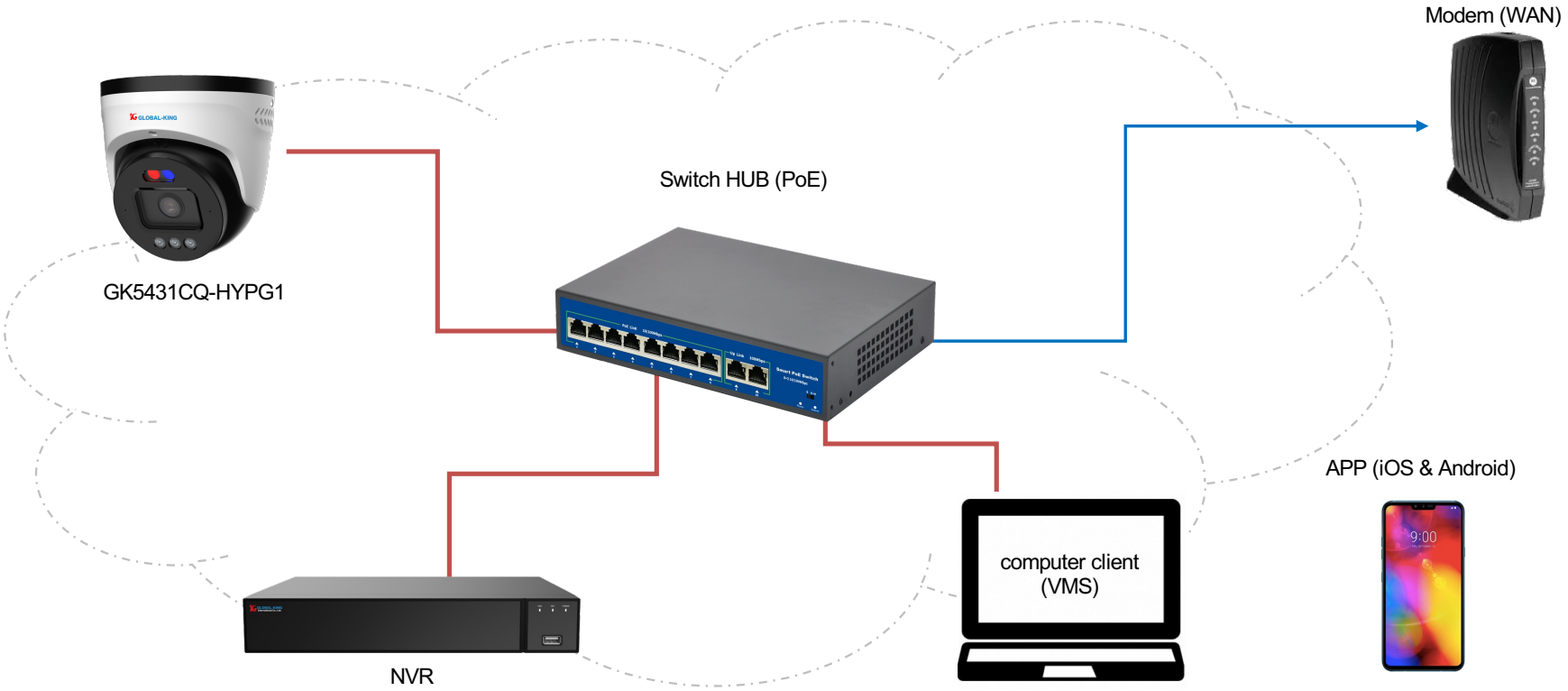
AI TrueColor Dome Network Camera | Dimensions

# Architecture diagram

## AI TrueColor Dome Network Camera | Infrastructure

- IP Camera (GK5431CQ-HYPG1)
- Switch HUB (PoE)
- NVR
- VMS Software
- APP (iOS & Android)
- Internet (ISP modem)

# Infrastructure




AI TrueColor Dome Network Camera | Infrastructure



# ThankYou

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