



Network

Dome

# XNV-6022R

2M H.265 Mobile IR Camera



## Key Features

- Max. 2Megapixel (1920 x 1080) resolution
- Max. 60fps@all resolutions (H.265 / H.264)
- 0.04Lux@F2.0 (Color), 0Lux (B/W : IR LED On)
- Built-in 3.6mm fixed lens
- H.265, H.264, MJPEG codec supported
- Multiple streaming
- Day & Night (ICR), WDR (150dB)
- SD/SDHC/SDXC memory slot (Max. 256GB)
- IR viewable length 15m, IP66, IK10, NEMA4X
- Hallway view, PoE, LDC support

## XNV-6022R

2M H.265 Mobile IR Camera



### Specifications

| Video                         |                       |                                                                                                                   |
|-------------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------|
| Imaging Device                | Size                  | 1/2.8"                                                                                                            |
|                               | Type                  | CMOS                                                                                                              |
| Resolution                    |                       | 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240 |
| Max. Framerate                | H.265/H.264           | 60fps/50fps(60Hz/50Hz)                                                                                            |
|                               | MJPEG                 | 30fps                                                                                                             |
| Min. Illumination (Lux)       | Color(1/30sec, 30IRE) | 0.04                                                                                                              |
|                               | BW(1/30sec, 30IRE)    | 0.004                                                                                                             |
| Video Out                     |                       | USB: Micro USB Type B. Preview and installation ONLY. Requires WiFi dongle.                                       |
| Lens                          |                       |                                                                                                                   |
| Focal Length (mm)             |                       | 3.6                                                                                                               |
| Max Aperture Ratio (F number) | Wide                  | 2.0                                                                                                               |
| Angular Field of View         | Horizontal            | 94.8°                                                                                                             |
|                               | Vertical              | 49.3°                                                                                                             |
|                               | Diagonal              | 114.3°                                                                                                            |
| Focus Control                 |                       | Fixed                                                                                                             |
| Pan / Tilt / Rotate           |                       |                                                                                                                   |
| Pan / Tilt / Rotate Range     | Pan                   | ±5°                                                                                                               |
|                               | Tilt                  | 0°~67°                                                                                                            |
|                               | Rotate                | ±90°                                                                                                              |
| Operational                   |                       |                                                                                                                   |
| Day & Night                   |                       | Auto(ICR)                                                                                                         |
| Backlight Compensation        |                       | BLC, HLC, WDR                                                                                                     |
| Wide Dynamic Range (dB)       |                       | 150                                                                                                               |
| Digital Noise Reduction       |                       | SSNR V                                                                                                            |
| Digital Image Stabilization   |                       | Support                                                                                                           |
| Defog                         |                       | Support                                                                                                           |

## Operational

|                                          |                |                                                                                                                                                                                 |
|------------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Motion Detection                         | Quantity       | 8ea                                                                                                                                                                             |
|                                          | Shape          | 8point Polygonal zones                                                                                                                                                          |
| Privacy Masking                          | Quantity       | 32ea                                                                                                                                                                            |
|                                          | Shape          | 4point Quadrangle zones                                                                                                                                                         |
|                                          | Color / Option | Gray, Green, Red, Blue, Black, White, Mosaic                                                                                                                                    |
| Gain Control                             |                | Low, Middle, High                                                                                                                                                               |
| White Balance                            |                | ATW, AWC, Manual, Indoor, Outdoor                                                                                                                                               |
| LDC                                      |                | Support                                                                                                                                                                         |
| Electronic Shutter                       | Mode           | Minimum, Maximum, Anti flicker                                                                                                                                                  |
|                                          | Speed Range    | 2~1/12,000sec                                                                                                                                                                   |
| Video Rotation                           |                | Flip, Mirror, Hallway view(90°/270°)                                                                                                                                            |
| Alarm Triggers                           |                | Analytics, Network disconnect                                                                                                                                                   |
| Alarm Events When Alarm Trigger Occurred |                | File upload(image): e-mail/FTP,<br>Notification: e-mail,<br>Recording: SD/SDHC/SDXC or NAS recording at event triggers,<br>Handover: PTZ preset, send message by HTTP/HTTPS/TCP |
| Audio In                                 |                | Selectable(mic in/line in), Built-in mic                                                                                                                                        |
| Audio Out                                |                | Line out                                                                                                                                                                        |
| Light Type                               |                | IR LED                                                                                                                                                                          |
| Light Viewable Length                    | IR             | 15m(49.21ft)                                                                                                                                                                    |
| IR Wavelength                            |                | 850nm                                                                                                                                                                           |

## Analytics

|                  |        |                                                                                                                                                                                                                                                  |
|------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Analytics Events | Normal | Defocus detection, Motion detection, Tampering, Fog detection, Face detection, Audio detection, Sound classification, Virtual area(Lotering, Intrusion, Enter/Exit, Appear/Disappear), Virtual line(Crossing, Direction) , Digital auto tracking |
|------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Network

|                   |                    |                                                                                                                                                                                                                           |
|-------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethernet          |                    | RJ-45(10/100BASE-T)                                                                                                                                                                                                       |
| Video Compression |                    | H.265/H.264: Main/Baseline/High, MJPEG                                                                                                                                                                                    |
| Audio Compression |                    | G.711 u-law /G.726 selectable, G.726(ADPCM) 8kHz, G.711 8kHz,<br>G.726: 16kbps, 24kbps, 32kbps, 40kbps,<br>AAC-LC: 48kbps at 16kHz                                                                                        |
| Smart Codec       |                    | Manual, WiseStream II                                                                                                                                                                                                     |
| Bitrate Control   |                    | H.265/H.264: CBR or VBR,<br>MJPEG: VBR                                                                                                                                                                                    |
| Streaming         | Unicast            | Up to 20 users                                                                                                                                                                                                            |
|                   | Multicast          | Support                                                                                                                                                                                                                   |
|                   | Multiple Streaming | Up to 10 profiles                                                                                                                                                                                                         |
| Protocol          |                    | IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP(TCP, UDP Unicast), PPPoE, PIM-SM |

## Network

|                                   |        |                                               |
|-----------------------------------|--------|-----------------------------------------------|
| Application Programming Interface | ONVIF  | S, G, T                                       |
|                                   | Others | SUNAPI(HTTP API), Hanwha Vision Open Platform |

## Security

|                        |                                                                         |
|------------------------|-------------------------------------------------------------------------|
| OS / Firmware Protect  | Encrypted firmware, Secure boot, Signed firmware                        |
| User authentication    | Digest authentication                                                   |
| Network authentication | IEEE 802.1X(EAP-TLS, EAP-LEAP)                                          |
| Secure Communication   | HTTPS, WSS(WebSocket Secure), SRTP                                      |
| Access Control         | IP-based access control                                                 |
| Data Protect           | Encryption credentials, Encrypt compress for live recording file export |
| Audit                  | Access / System / Event Log management                                  |
| Secure Storage         | SDcard partition encrypt(AES-256)                                       |

## General

|              |                    |                    |
|--------------|--------------------|--------------------|
| Memory       | RAM                | 1GB                |
|              | Flash              | 256MB              |
| Edge Storage | Micro SD/SDHC/SDXC | Max. 256GB x 1slot |

## Environmental & Electrical

|                     |             |                           |
|---------------------|-------------|---------------------------|
| Operating Condition | Temperature | -30°C~-55°C(-22°F~-131°F) |
|                     | Humidity    | 0~90% RH(non-condensing)  |
| Storage Condition   | Temperature | -50°C~+60°C(-58°F~+140°F) |
|                     | Humidity    | 0~90% RH(non-condensing)  |
| Input Voltage       |             | PoE(IEEE802.3af, Class3)  |
| Power Consumption   | PoE         | Max. 6.70W                |

## Mechanical

|                    |                                    |
|--------------------|------------------------------------|
| Color              | Ivory                              |
| Material           | Aluminum                           |
| Product Dimensions | 98.9x52.0x100.0mm(3.89x2.05x3.94") |
| Product Weight     | 295g(0.65lb)                       |

## Certifications & Standards

|             |                                                  |
|-------------|--------------------------------------------------|
| Environment | IEC 60529 IP66, IEC 62262 IK10, NEMA 250 type 4X |
|-------------|--------------------------------------------------|

## DORI (EN62676-4 standard)

|                           |      |                 |
|---------------------------|------|-----------------|
| Detect (25PPM/ 8PPF)      | Wide | 35.3m(115.85ft) |
| Observe (63PPM/ 19PPF)    | Wide | 14.1m(46.34ft)  |
| Recognize (125PPM/ 38PPF) | Wide | 7.1m(23.17ft)   |

**DORI (EN62676-4 standard)**

|                             |      |               |
|-----------------------------|------|---------------|
| Identify (250PPM/<br>76PPF) | Wide | 3.5m(11.58ft) |
|-----------------------------|------|---------------|

XNV-6022R  
2M H.265 Mobile IR Camera



CAD

Unit: mm [inch]

This parts should not contain any substances which are specified in AH60-0033K

| NO | PART NAME                 | CODE NO. | MATERIAL | Q'TY | REMARK |
|----|---------------------------|----------|----------|------|--------|
| 1  | ASSY-XNV-6012(M)/6022R(M) | 058056   | MATERIAL | 1    | REMARK |

98.9(3.89")

100(3.93")

52(2.04")

Point area(Black)

85

31

| STANDARD TOLERANCE |       |       |       |       |       |
|--------------------|-------|-------|-------|-------|-------|
| DIV                | tol.1 | tol.2 | tol.3 | tol.4 | tol.5 |
| 0-16               | ±0.05 | ±0.1  | ±0.1  | ±0.2  | ±0.3  |
| 16-63              | ±0.05 | ±0.1  | ±0.2  | ±0.3  | ±0.4  |
| 63-250             | ±0.1  | ±0.2  | ±0.3  | ±0.4  | ±0.4  |
| 250-1000           | ±0.2  | ±0.3  | ±0.4  | ±0.5  | ±0.6  |

A3  
CHANGE

| UNIT  | mm  | DESIGN     | CHECK    | APPROVAL | PART NAME  | ASSY-XNV-6012(M)/6022R(M) |
|-------|-----|------------|----------|----------|------------|---------------------------|
| SCALE | 1/1 | M.Fujiwara | Check    | Approval | MODEL NAME | XNV-6012(M)/6022R(M)      |
|       |     | 18.03.19   | 18.03.19 | 18.03.19 | CODE NO.   | 058056                    |

Hanwha Techwin