



Network

Bullet

## XNO-6080R/RW

2MP IR Bullet Camera with  
RoadWatch ANPR



### Key Features

- 2MP resolution
- 2.8 ~ 12mm (4.3x) motorized varifocal lens
- IR viewable length: 50m(164.04ft)
- Colour: 0.015 lux(F1.4, 1./30sec), B/W: 0 Lux (IR LED On)
- Day & Night (ICR), WDR (150 dB)
- DIS with built-in Gyro sensor
- Certification: IP66, IP67, NEMA4X, IK10
- RoadWatch Application (Pre-installed and licensed)
  - Edge based ANPR
  - List Management, Smart Search, Statistics, Barrier Trigger
  - ANPR Setup Wizard
  - Integration with WAVE VMS, JSON & UTMC protocols

### Compatible Accessories (Optional)



SBP-302PM

# XNO-6080R/RW

2MP IR Bullet Camera with RoadWatch ANPR



## Specifications

|                             |  |
|-----------------------------|--|
| Video                       |  |
| Imaging Device              | 1/2.8" 2MP CMOS  |
| Resolution                  | 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240                                  |
| Max. Framerate              | H.265/H.264 : Max. 60fps/50fps(60Hz/50Hz) / MJPEG: Max. 30fps/25fps(60Hz/50Hz)   |
| Min. Illumination           | Colour: 0.015 lux(F1.4, 1./30sec) / B/W: 0 Lux (IR LED On)   |
| Video Out                   | CVBS: 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P), for installation<br>USB: Micro USB Type B, 1280x720, for installation                      |
| Lens                        |  |
| Focal Length (Zoom Ratio)   | 2.8~12mm(4.3x) motorized varifocal   |
| Max. Aperture Ratio         | F1.4(Wide) ~ F3.6(Tele)  |
| Angular Field of View       | H: 119.5°(Wide)~27.9°(Tele), V: 62.8°(Wide)~15.7°(Tele), T: 142.1°(Wide)~32.0°(Tele)   |
| Min. Object Distance        | 0.5m(1.64ft)   |
| Focus Control               | Simple focus   |
| Lens Type                   | DC auto iris, P iris   |
| Operational                 |  |
| Camera Title                | Displayed up to 85 characters  |
| Day & Night                 | Auto(ICR)  |
| Backlight Compensation      | BLC, HLC, WDR, DWDR, SSSDR   |
| Wide Dynamic Range          | 150dB  |
| Digital Noise Reduction     | SSNR V   |
| Digital Image Stabilization | Support  |
| Defog                       | Support  |
| Motion Detection            | 8ea, 8point polygonal zones  |
| Privacy Masking             | 32ea, polygonal zones<br>- Colour: Grey/Green/Red/Blue/Black/White<br>- Mosaic   |
| Gain Control                | Low / Middle / High  |
| White Balance               | ATW / AWC / Manual / Indoor / Outdoor  |
| LDC                         | Support  |
| Electronic Shutter Speed    | Minimum / Maximum / Anti flicker (2~1/12,000sec)   |
| Video Rotation              | Flip, Mirror, Hallway view(90°/270°)   |
| Alarm I/O                   | Input 1ea / Output 1ea   |
| Alarm Triggers              | Network disconnect, Alarm input  |
| Alarm Events                | File upload via FTP and E-Mail<br>Notification via E-Mail<br>SD/SDHC/SDXC or NAS recording(SMB/CIFS) at Event triggers<br>Alarm output<br>Handover |
| Audio In                    | Selectable(Mic in/Line in),<br>Supply voltage: 2.5VDC(4mA), Input impedance: 2K Ohm  |
| Audio Out                   | Line out, Max. output level: 1Vrms   |
| IR Viewable Length          | 50m(164.04ft)  |

| 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<br>G.726(ADPCM) 8KHz, G.711 8KHz<br>G.726 : 16Kbps, 24Kbps, 32Kbps, 40Kbps<br>AAC-LC : 48Kbps at 16KHz   |
| Smart Codec                       | Manual(5ea area), WiseStream II  |
| Bitrate Control                   | H.264/H.265: CBR or VBR<br>MJPEG: VBR  |
| Streaming                         | Unicast(20 users) / Multicast<br>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, PIM-SM, UPnP, Bonjour, LLDP, SRTP   |
| Security                          | HTTPS(SSL) Login Authentication<br>Digest Login Authentication<br>IP Address Filtering<br>User access Log<br>802.1X Authentication(EAP-TLS, EAP-LEAP)  |
| Application Programming Interface | ONVIF Profile S/G/T (Excludes RoadWatch ANPR application), SUNAPI(HTTP API), Wisenet open platform   |
| General                           |  |
| Web Viewer                        | Supported OS: Windows 7, 8.1, 10, Mac OS X 10.10, 10.11, 10.12<br>Recommended Browser: Google Chrome<br>Supported Browser: MS Explore11, MS Edge, Mozilla Firefox(Window 64bit only), Apple Safari(Mac OS X only)  |
| Edge Storage                      | Pre-installed SD Card (Data storage for RoadWatch application)   |
| Memory                            | 1024MB RAM, 256MB Flash  |
| Environmental & Electrical        |  |
| Operating Temperature / Humidity  | -40°C ~ +55°C(-40°F ~ +131°F) / Less than 90% RH   |
| Storage Temperature / Humidity    | -50°C ~ +60°C(-58°F ~ +140°F) / Less than 90% RH   |
| Certification                     | IP67/IP66/NEMA4X, IK10   |
| Input Voltage                     | PoE(IEEE802.3af, Class3), 12VDC, 24VAC   |
| Power Consumption                 | PoE: Max 12.95W, 12VDC: Max 12W, 24VAC: Max 15W  |
| Mechanical                        |  |
| Colour / Material                 | Dark grey / Aluminum   |
| Product Dimensions / Weight       | Ø91x368.6mm(Ø3.85"x14.51"), 2180g(4.8 lb)  |
| RoadWatch ANPR                    |  |
| ANPR Usage conditions             | Urban traffic  |
| Speed Description                 | Moderate speed   |
| Lane coverage                     | 1 lane (3,6m/12ft wide)  |
| Speed Limit                       | up to 50km/h (30mph)   |
| Min/Max Forward Distance          | 7m (23ft) / 13m (42ft)   |
| Max Horizontal / Vertical Angle   | 30°  |
| Horizontal Offset / Camera Height | up to 4m (13ft)  |
| Available Countries               | Albania, Armenia, Austria, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Cyprus, Czechia, Denmark, Estonia, Finland, France, Greece, Georgia, Germany, Hungary, Ireland, Iceland, Italy, Lithuania, Luxembourg, Latvia, Montenegro, North Macedonia, Malta, Moldova, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovenia, Slovakia, Spain, Sweden, Switzerland, Turkey, Ukraine, United Kingdom, Australia, New Zealand, South Africa, Azerbaijan, Uzbekistan, Kyrgyzstan, Kazakhstan, Tajikistan, Turkmenistan |

## Installation Requirements

ANPR (Automatic Number Plate Recognition) Technology running on the camera will provide you with the best results when following the recommended installation requirements below.

### Vertical Angle:

30 degrees Maximum Vertical Angle

Note: Minimum and Maximum Forward Distance depend on lens zoom. Refer to each camera model specifications and manual.

Fig. 1  
Camera shown from side

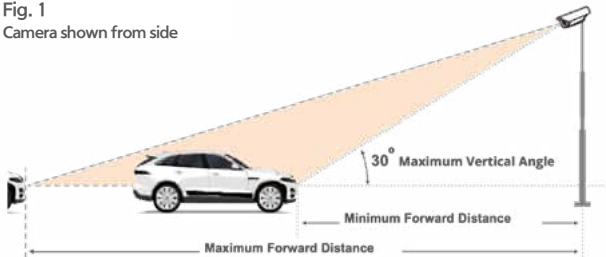
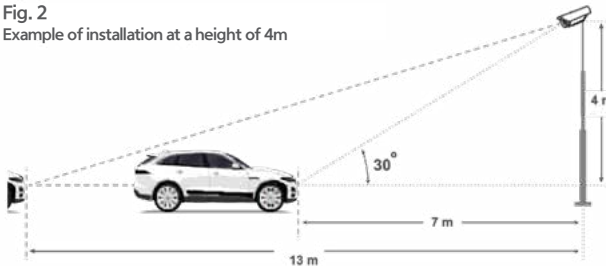


Fig. 2  
Example of installation at a height of 4m



### Horizontal Angle:

30 degrees Maximum Horizontal Angle

Note: Minimum and Maximum Forward Distance depend on lens zoom. Refer to each camera model specifications and manual.

Fig. 3  
Camera shown from top

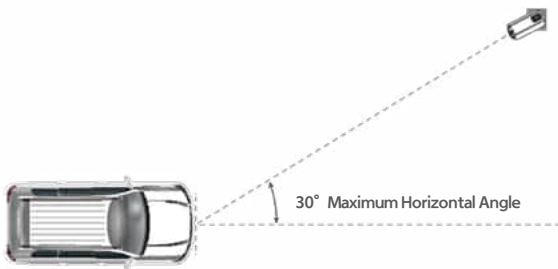
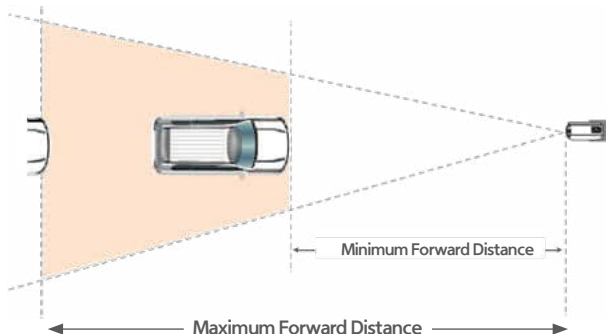
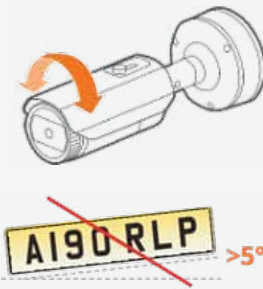
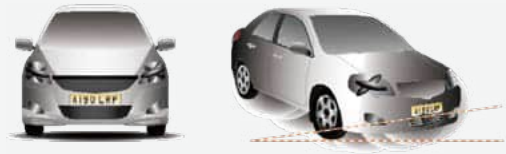


Fig. 4



### Angle:

For the best results, check the angle of your plate compared to the horizontal alignment and rotate the camera to achieve less than 5° as shown.



### Zone:

Setting recognition zone (see orange frame below) in lower half of camera view is recommended for best recognition.



### Plate Size:

All the license plates that meet the on-frame size criteria below will be recognized in the selected area. 130-300 pixels for regular EU plates.