Hanwha Vision

GROUP

Network   Dome

XNV-6080R/RW

2MP IR Vandal Dome Camera
with RoadWatch ANPR

FC | UL LISTED | CE | EAC | NDAA COMPLIANT

roadwatch

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-300HM6 | SBP-300CM | SBV-160WC | SBV-158G | SBP-300PM | SBP-300KM | SBP-300WM1 |

| SBP-300LM | SBP-390WM2 | SBP-300WM | SHD-3000F1 | SBP-300B | SHD-1600FPW | SBP-160TM |

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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 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

Pan / Tilt / Rotate	
Pan / Tilt / Rotate Range	0°~354° / 0°~67° / 0°~355°

Operational	
Camera Title	Displayed up to 85 characters
Day & Night	Auto(ICR)
Backlight Compensation	BLC, HLC, WDR, DWDR, SSDR
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 - Colour: Grey/Green/Red/Blue/Black/White - 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, Notification via E-Mail, SD/SDHC/SDXC or NAS recording at Event Triggers, Alarm output, Handover
Audio In	Selectable(Mic in/Line in), 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 G.726(ADPCM) 8KHz, G.711 8KHz G.726 : 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC : 48Kbps at 16KHz
Smart Codec	Manual(5ea area) WiseStream II
Bitrate Control	H.264/H.265: CBR or VBR, MJPEG: VBR
Streaming	Unicast(20 users) / Multicast 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 Digest Login Authentication IP Address Filtering User access Log 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 Recommended Browser: Google Chrome 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 11.5W, 24VAC: Max 14W

Mechanical

Colour / Material	Ivory / Aluminum
Product Dimensions / Weight	Ø160xH118.5mm (Ø6.3x4.67"), 995g(2.19 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

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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

30° Maximum Vertical Angle
Minimum Forward Distance
Maximum Forward Distance
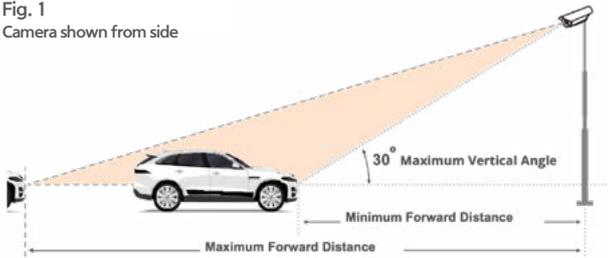
Fig. 2
Example of installation at a height of 4m

4 m
30°
7 m
13 m
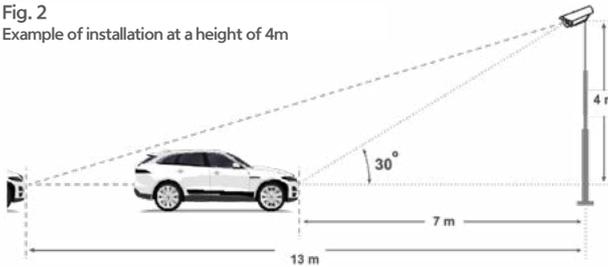
Horizontal Angle:

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

30° Maximum Horizontal Angle

Fig. 4

Minimum Forward Distance
Maximum Forward Distance
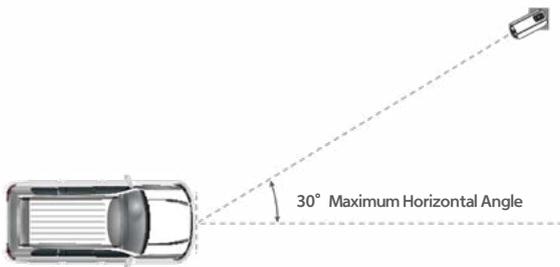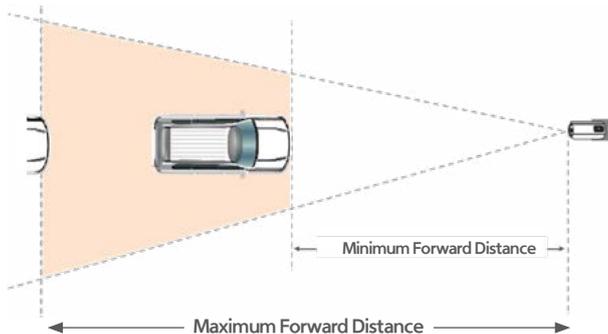
Angle:

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.

A190 RLP   A190 RLP 5°max

A190 RLP >5°

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.

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