XNO-6120R/LPR

2MP Parking Lot Bullet Network Camera with License Plate Recognition (LPR) System

Key Features

• XNO-6120R camera with LPR Application pre-loaded and licensed
• LPR Recognition System for low speed parking lot, gate, drive thru
• Edge based LPR application on Open Platform, NON server based
• 2 Megapixel (1920 x 1080) resolution
• 5.2 – 62.4mm (Optical 12X) Optical Lens
• H.265, H.264, MJPEG Codec Supported, Multiple streaming
• Loitering, Directional detection, Fog detection, Audio detection
• IR readable length for LPR 65 ft, IP67 / IP66, NEMA 4X, IK10
• LDC Support (Lens Distortion Correction)
• PoE, 24V AC, 12V DC, Bi-directional audio support

Detailed LPR Application Specifications

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<td>Speed of Vehicle</td>
<td>Up to 35MPH</td>
<td>Stop and go, Low speed, Single Lane LPR applications</td>
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<tr>
<td>Speed of OCR Engine</td>
<td>1PPS</td>
<td>One plate per second</td>
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<tr>
<td>LPR Read Accuracy</td>
<td>95%</td>
<td>Depends on plates, and install conditions. See recommended height, lane</td>
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<tr>
<td>Required Frame Rate</td>
<td>Min. 10fps, Max 20fps</td>
<td>Required frame rate for LPR application</td>
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<tr>
<td>Camera Height</td>
<td>Min. 4 ft Max. 14 ft</td>
<td>Camera height measured from the bottom of the pole to the camera</td>
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<td>Capture Distance</td>
<td>Min. 10 ft Max. 65 ft</td>
<td>Forward distance measured from number plate to the camera mount *</td>
</tr>
<tr>
<td>Horizontal Plate Angle</td>
<td>20 Deg. Max</td>
<td>20° angle from aiming direction perpendicular to plate</td>
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<tr>
<td>Vertical Plate Angle</td>
<td>20 Deg. Max</td>
<td>20° angle from aiming direction perpendicular to plate</td>
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<tr>
<td>Max. Plate Rotation Angle</td>
<td>3 degrees</td>
<td>Allowable rotation of license plate in the image</td>
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<tr>
<td>Min. Character Height</td>
<td>20 pixels</td>
<td>Identi/fied in the LPR application window</td>
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<td>Data Transfer Method</td>
<td>FTP, SMTP and JSON Push commands</td>
<td>Manual configurations in LPR app to transmit data to other systems Eg: VMS</td>
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<tr>
<td>Open Platform</td>
<td>LPR application</td>
<td>Dedicated for LPR application</td>
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*LPR plate capture distance vary depending on conditions

Important Information

CARE IS RECOMMENDED IN SELECTING LPR MOUNTING LOCATION.
DEALER TRAINING OR HANWHA ENGINEER CONSULT IS RECOMMENDED BEFORE INSTALLATION.
XNO-6120R/LPR

2MP Network IR Bullet Camera Specifications

**VIDEO**
- Imaging Device: 1/2.8" 2MP CMOS
- Total Pixels: 1,945(H) x 1,109(V) 2.16MP
- Effective Pixels: 1,945(H) x 1,097(V) 2.13MP
- Scanning System: Progressive
- Min. Illumination: Color - 0.03Lux (F1.6), B/W: 0Lux (IR LED on)
- S / N Ratio: 50dB
- Video Output: CVBS: 1.0 Vp-p / 75Ω Composite, 720 x 480 for Installation USB: Micro USB Type B, 1280 x 720, for Installation

**LENS**
- Focal Length (Zoom Ratio): 5.2 – 62.4mm (Optical 12X)
- Maximum Aperture Ratio: F1.6(Wide) – F3.0(Tele)
- Angular Field of View: H: 54.58˚(Wide) – 5.30˚(Tele) / V: 32.19˚(Wide) – 3.00˚(Tele) / D: 61.40˚(Wide) – 6.06˚(Tele)
- Minimum Object Distance: 1.5m (4.92ft)
- Auto / Manual / One shot AF
- DC Auto Iris / Board-in Type
- Off / On (Displayed up to 85 Characters)
- Off / On (5 Levels with Min / Max)
- 1/2.8” 2MP CMOS

**ACCESSORIES (OPTIONAL)**
- Gangbox: Single, Double, 4” Octagon
- Weight: 2.18Kg (4.81 lb)
- Dimensions (WxH): Ø91.0 x 368.6mm (3.58” x 14.51”)

**NETWORK**
- Ethernet: RJ-45 (10/100 BASE-T)
- Video Compression Format: H.265 / H.264 (MPEG-4 part 10/AVC) : Main / Baseline / High, MJPEG
- Maximum FrameRate: H.265 / H.264 : 60fps at all resolutions, MJPEG : 30fps
- Audio In: Selectable (Mic in / Line in), Supply Voltage : 25V DC (4mA), Input Impedance: Approx. 2KΩ
- Audio Out: Line Out (3.5mm Mono Jack), Max Output Voltage : 1 Vrms
- Audio Compression Format: 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
- Alarm Events: Alarm Input, Motion detection, Video & Audio Analytics, Alarm Triggers
- Input 1ea / Output 1ea

**ELECTRICAL**
- Input Voltage / Current: 24V AC, 12V DC, PoE (IEEE802.3af Class3)
- Power Consumption: 24V AC : Max 14.5W, 12V DC : Max 12.5W, PoE : Max 12.95W
- MECHANICAL
- Color / Material: Dark Gray / Aluminum
- Dimensions (WxH): Ø91.0 x 368.6mm (3.58” x 14.51”)
- Weight: 2.18Kg (4.81 lb)
- Gangbox: Single, Double, 4° Octagon

**ENVIRONMENTAL**
- 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
- ingress Protection / Vandal Resistance: IP67, IP66, NEMA4X / IK10

**SECURITY**
- HTTPS (SSL) Login Authentication, Digest Login Authentication
- IP address filtering, User access log, 802.1X Authentication (EAP- TLS, EAP-LEAP)
- Platform: CNVIF Profile 5/G, SUNAPI 2.0 (HTTP API), Wisenet Open Platform

**PROTOCOL**
- TCP/IP, UDP/IP, RTP (UDP), RTCP (UDP), RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, PPPoE, FTP, SMTP, ICMP, SNMP (SNMPv1,v2c,v3), ARP, DNS, DDNS, QoS, UPnP, Bonjour, SMTP (TCP, UDP, Unicast)
- Security: TLS, EAP-LEAP

**APPLICATION PROGRAMMING INTERFACE**
- ONVIF Profile S/G, SUNAPI 2.0 (HTTP API), Wisenet Open Platform

**RECOMMENDED BEFORE INSTALLATION**
- Dealer Training or Hanwha Engineer Consult is Recommended Before Installation

**ACCESSORIES (OPTIONAL)**
- SBP-302PM

**IMPORTANT INFORMATION**
- Care is recommended in selecting LPR mounting location.
- Dealer Training or Hanwha Engineer Consult is Recommended Before Installation