

WISENET X series

XNV-6120R/LPR

2MP Parking Lot Vandal-Resistant Network Dome Camera with License Plate Recognition (LPR) System

Key Features

- XNV-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 40 ft, IP67 / IP66, NEMA 4X, IK10
- LDC Support (Lens Distortion Correction)
- PoE, 24V AC, 12V DC, Bi-directional audio support



Detailed LPR Application Specifications

Features	Specs	Details
Speed of Vehicle	Up to 35MPH	Stop and go, Low speed, Single Lane LPR applications
Speed of OCR Engine	1PPS	One plate per second
LPR Read Accuracy	95%	Depends on plates, and install conditions. See recommended height, lane offset and distance
Required Frame Rate	Min. 10fps, Max 20fps	Required frame rate for LPR application
Camera Height	Min. 4 ft Max. 14 ft	Camera height measured from the bottom of the pole to the camera
Capture Distance	Min. 10 ft Max. 40 ft	Forward distance measured from number plate to the camera mount *
Horizontal Plate Angle	20 Deg. Max	20° angle from aiming direction perpendicular to plate
Vertical Plate Angle	20 Deg. Max	20° angle from aiming direction perpendicular to plate
Max. Plate Rotation Angle	3 degrees	Allowable rotation of license plate in the image
Min. Character Height	20 pixels	Identified in the LPR application window
Data Transfer Method	FTP, SMTP and JSON Push commands	Manual configurations in LPR app to transmit data to other systems Eg: VMS
Open Platform	LPR application	Dedicated for LPR application

*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

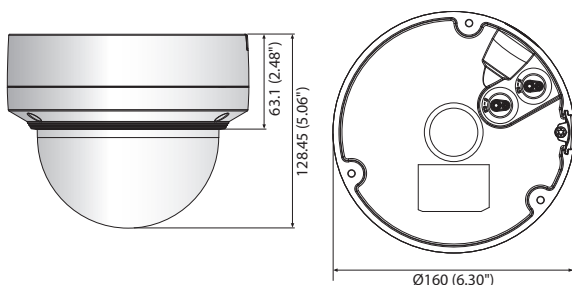
XNV-6120R/LPR

2MP Vandal-Resistant Network IR Dome 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 Out	CVBS : 1.0 Vp-p / 75 Ω 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	2.1m (6.89ft)
Focus Control	Auto / Manual / One shot AF
Lens / Mount Type	DC Auto Iris / Board-in Type
Pan / Tilt / Rotate Range	0° ~ 354° / 0° ~ 75° / 0° ~ 355° *Refer to Quick Start Guide for allowable limits
OPERATIONAL	
IR Viewable Length	70m (229.66ft), maximum plate distance for IR 40ft
Camera Title	Off / On (Displayed up to 85 Characters) - English / Numeric / International / Special Characters - Common : Multi-line (Max. 5), Color (Gray / Green / Red / Blue / Black / White), Transparency, Auto scale by Resolution
Day & Night	Auto (ICR) / Color / B/W / External / Schedule
Backlight Compensation	Off / BLC / HLC / WDR
Wide Dynamic Range	150dB
Contrast Enhancement	SSDR (Off / On)
Digital Noise Reduction	SSNRV (2D + 3D Noise filter) (Off / On)
Motion Detection	Off / On (8ea, 8Point polygonal zones), Handover
Privacy Masking	Off / On (32ea, Rectangular zones) - Color: Gray / Green / Red / Blue / Black / White - Mosaic
Gain Control	Off / Low / Middle / High
White Balance	ATW / AWC / Manual / Indoor / Outdoor (Included Mercury & Sodium)
Contrast	Level Adjustment
LDC (Lens Distortion Correction)	Off / On (5 Levels with Min / Max)
Electronic Shutter Speed	Minimum / Maximum / Anti Flicker (2 ~ 1/12,000sec)
Digital Zoom	24x
Preset	300ea
Flip / Mirror	Off / On, Hallway: 90° / 270°
Alarm I/O	Input 1ea / Output 1ea
Alarm Triggers	Alarm Input, Motion detection, Video & Audio Analytics, Network disconnect
Alarm Events	File Upload Via FTP, E-mail, Notification via e-mail, Local Storage (SD / SDHC / SDXC) or NAS recording at event triggers, External output, Preset
Pixel Counter	Support

Dimensions

Unit: mm (inch)



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
WiseStreamII	Support
Video Quality Adjustment	H.265 / H.264 : MJPEG : Target bitrate level control
Bitrate Control Method	H.265 / H.264 : CBR or VBR, MJPEG : VBR
Streaming Capability	Multiple streaming (Up to 10 Profiles)
Audio In	Selectable (Mic in / Line in), Supply Voltage : 2.5V DC (4mA), Input Impedance : Approx. 2K Ohm
Audio Out	Line Out (3.5mm Mono Jack), Max Output Level : 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
Audio Communication	Bi-directional (2-way)
IP	IPv4, IPv6
Protocol	TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3 (MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, SRTP (TCP, UDP Unicast)
Security	HTTPS (SSL) Login Authentication, Digest Login Authentication, IP address filtering, User access log, 802.1X Authentication (EAP-TLS, EAP-LEAP)
Streaming Method	Unicast / Multicast
Maximum User Access	20 Users at Unicast Mode
Application Programming Interface	ONVIF Profile S/G, SUNAPI 2.0 (HTTP API), Wisenet Open Platform
ENVIRONMENTAL	
Operating Temperature / Humidity	-40°C ~ +55°C (-40°F ~ +131°F) / Less than 90% RH * Start up should be done at above -35°C (-31°F)
Storage Temperature / Humidity	-50°C ~ +60°C (-58°F ~ +140°F) / Less than 90% RH
Ingress Protection / Vandal Resistance	IP67, IP66, NEMA4X / IK10
ELECTRICAL	
Input Voltage / Current	24V AC, 12V DC, PoE (IEEE802.3af Class3)
Power Consumption	24V AC : Max 14W, 12V DC : Max 11.5W, PoE : Max 12.95W
MECHANICAL	
Color / Material	Ivory / Aluminum
Dimensions (WxH)	Ø160 x 128.45mm (Ø6.30" x 5.06")
Weight	995g (2.19 lb)
Gangbox	Single, Double, 4" Octagon

Accessories (Optional)



IMPORTANT INFORMATION

CARE IS RECOMMENDED IN SELECTING LPR MOUNTING LOCATION.
DEALER TRAINING OR HANWHA ENGINEER CONSULT IS
RECOMMENDED BEFORE INSTALLATION