DAHUA TECHNOLOGY

4MP LincX2PRO WiFi Floodlight Camera
Active Alarm with Built-in Siren and Floodlights

- 1/3-in. 4MP Progressive-scan CMOS Sensor
- 4MP (2560 x 1440) at 30 fps, 2.8 mm Fixed Lens
- 2.4 or 5 GHz Wifi Options, IEEE802.11a/b/g/n/ac
- Smart H.265+ and Smart H.264+ Dual Codecs
- Maximum Resolution of 4MP at 30 fps
- Active Alarm with Integrated 110 dB Siren and Floodlight
- Built-in Microphone and Speaker
- IP65 Ingress Protection

4Mp | Perimeter Protection | H.265

System Overview

The Dahua LincX2PRO Series includes the IPC-L46N, a floodlight camera with a 4MP CMOS sensor, 2.8 mm fixed lens, and two powerful 2400 Lumen floodlights to provide illuminate the property and deter any prospective attackers. The camera is equipped with Dahua's Analytics+ which focuses on human and vehicle targets to reduce false warnings. You can converse with visitors or intruders on your property using the camera's two-way audio thorugh the DMSS mobile app.

Functions

Smart H.264+ and Smart H.265+

Delivering high quality video without straining the network, Smart H.264+ is the optimized implementation of H.264. The Smart H.264+ encoding platform includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing a savings of up to 70% of bandwidth and storage when compared with standard H.264.

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

Smart Dual Illumination

The camera offers both IR and white-light illuminators and intelligently employs each depending on the situation. Typically, the camera enters the IR mode as ambient light decreases. When the camera detects an object entering the monitoring area, it activates the white-light illuminator to capture full-color details. Once the object leaves the area, the camera switches back to IR illumination.

Day/Night

A day/night mechanical IR cut filter makes this camera ideal for applications with fluctuating lighting conditions, delivering color images during the day and automatically switching to monochrome as the scene darkens.

Cybersecurity

Dahua network cameras are equipped with a series of key cybersecurity technologies including: security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage. These technologies improve the camera's ability to prevent malicious access and to protect data

Technical Specification

Camera

Image Sensor	1/3-in. 4MP CMOS
Effective Pixels	2560 (H) × 1440 (V)
RAM/ROM	512 MB/128 MB
Electronic Shutter Speed	1/3 s to 1/100,000 s
S/N Ratio	> 56 dB
Minimum Illumination	Color (30 IRE): 0.005 Lux at F1.6 B/W (30 IRE): 0.0005 Lux at F1.6 IR (Illuminator On): 0 lux
Illuminators	One (1) IR LED Two (2) Floodlights
Illuminator On/Off Control	Auto, Manual
Illumination Distance	IR: 10 m (32.81 ft) Floodlight: 30 m (98.43 ft)
Floodlight Brightness	1500 to 2400 lm
Floodlight Color Temperature	Warm: 3000K±200K Cool: 6000K±300K
Floodlight Modes	Motion Activation Manual Schedule PIR Activation
Pan/Tilt/Rotation Range — Camera	Pan: −85° to 85° Tilt: −90° to 45° Rotation: 0° to 360°
Pan/Tilt/Rotation Range — Floodlight	Tilt: −90° to 90° Rotation: −145° to 145°
PIR Sensor Distance[1]	10.0 m (32.81 ft)
PIR Detection Range	270°

Lens

Lens Type		Fixed
Lens Mount		M12
Focal Length		2.8 mm
Maximum Aperture		F1.6
Field of View	Horizontal	98°
	Vertical	55°
	Diagonal	115°
Iris Type		Fixed
Close Focus Distance		1.0 m (3.28 ft)

DORI[2] Distance	Detect	Observe	Recognize	Identify
	61.2 m (200.79 ft)	24.5 m (80.38 ft)	12.2 m (40.03 ft)	6.1 m (20.01 ft)

Video

Compression		Smart H.265+, H.265, Smart H.264+, H.264, H.264H, H.264B, MJPEG
Streaming Capability		Three (3) Streams
Resolution		4MP (2560 × 1440), 3MP (2304 × 1296), 1080p (1920 × 1080), 1.3MP (1280 × 960), 720P (1280 × 720), D1 (704 × 480), VGA (640 × 480), CIF (352 × 240)
Frame Rate	Main Stream	2560 × 1440 at 30 fps
	Sub Stream 1	704 × 480 at 30 fps
	Sub Stream 2	640 × 480 at 30 fps
Bit Rate Control		CBR/VBR
Video Bit Rate		H264: 32 kbps to 8192 kbps H265: 32 kbps to 8192 kbps
Day/Night		Auto, Color, B/W
Backlight Compensation		BLC, HLC, DWDR
White Balance		Auto, Natural, Street Lamp, Outdoor, Manual, Regional Custom
Gain Control		Auto, Gain Priority, Shutter Priority, Manual

Image Rotation	0°, 90°, 180°, 270°
Image Mirroring	Supported
Noise Reduction	3DNR
Motion Detection	Off/On (4 Areas, Rectangular)
Region of Interest (RoI)	4 Areas
Privacy Masking	4 Areas
Advanced Features	Smart Illumination

Audio

Built-in Microphone	Yes
Built-in Speaker	Yes
Compression	G.711a, G.711Mu, G.726, PCM

Network

WiFi	IEEE802.11a/b/g/n/ac 2.4–2.4835 GHz and 5.18–5.85 GHz
Protocol	IPV4, IPV6, ARP and Ping, TCP, UDP, HTTP, RTSP, HTTPS, DDNS, Email, SNMP, Multicast, Auto Registration, Wireless Qos, Wi-Fi Setting, Hotspot Scanning, 802.1x, UPnP Status, Bonjour, UPnP, Device Discovery
Interoperability	ONVIF, CGI, P2P, RTMP, SDK, API
Maximum User Access	6 Users (Total Bandwidth: 36 Mbps)
Edge Storage	FTP, SFTP, MicroSD Card (Maximum 256 GB), NAS
Web Viewer	Microsoft Edge, Chrome, Firefox
Management Software	DMSS
Mobile Operating System	Android, iOS
Cybersecurity	Video Encryption, Configuration Encryption, Digest, WSSE, Account Lockout, Security Logs, Generating/Importing X.509 certification, HTTPS, Trusted Boot, Trusted Execution, Trusted Upgrade

Alarm

Event	No SD Card, SD Card Full, SD Card Error, Network Disconnection, IP Conflict, Illegal Access, Security Exception, Motion Detection, Video Tampering, Sence Changing, SMD (Human, Animal, Vehicle), Audio Detection, Intensity Change

Electrical

Power Supply	100 to 240 VAC
Power Consumption	Basic: 5.2 W (100–240 VAC) Maximum (Illuminator+IPC): 48.3 W (100–240 VAC)

Environmental

Operating Temperature	−20 °C to +50 °C (−4 °F to +122 °F)
Operating Humidity	≤ 95%
Storage Temperature	−20 °C to +50 °C (−4 °F to +122 °F)
Protection	IP65

Structure

Casing	Metal, Plastic
Product Dimensions (L x W x H)	270.7 mm × 217.2 mm × 195.6 mm (10.66 in. × 8.55 in. × 7.70 in.)
Net Weight	1.40 kg (3.09 lb)
Gross Weight	1.88 kg (4.14 lb)

Certifications

Safety	EN62368-1
Electromagnetic Compatability (EMC)	Electromagnetic Compatibility Directive 2014/30/EU Radio Equipment Directive 2014/53/EU 47 CFR FCC Part 15, Subpart B

Intelligent Video System

IVS triggers an alarm and takes a defined action for the following events:

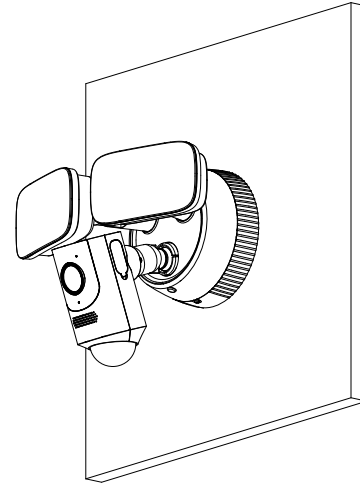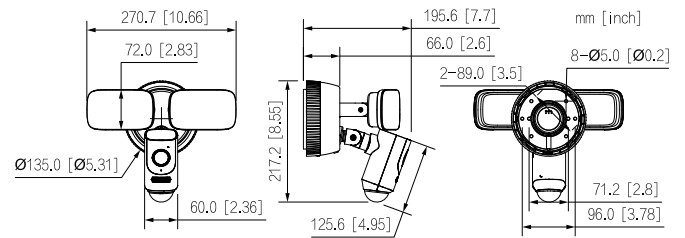| Standard Features	• Tampering with the camera. • Error writing to an onboard Micro SD card. • Error sending or receiving data over the network. • Unauthorized access to the camera.
Premium Features	
Motion	An object moves through any part of the scene.
Intrusion	A target enters or exits a defined perimeter.

Ordering Information

Type	Model	Description
Floodlight Camera	IPC-L46N-USA	4MP Floodlight Camera with 32GB MicroSD Card (US Only)
	IPC-L46N-CAN	4MP Floodlight Camera with 32GB MicroSD Card (Canada Only)

Installation

Dimensions

mm [inch]

1. The height of the device is 3 m and placed at a 30° angle from the horizontal.
2. The DORI distance is a measure of the general proximity for a specific classification to help pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specifications and lab test results according to EN 62676-4, the standard that defines the criteria for the Detect, Observe, Recognize and Identify classifications.
3. The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.