8MP Network 25x PTZ Camera

P45-8RA25

Key Features

- 8MP Dome Housing
- 25x Maximum Optical Zoom
- Video Content Analytics+: Line Crossing, Intrusion, Loitering Detection, Parking Detection
- Face Detection, People Counting, Queue Management
- iMD, LumiTracking, LumiFocus

Certifications and Compliance

- NDAA Compliant
- FCC
- IC
- UL

Learn More

Learn more about this product's key technologies.

View all compatible accessories for this product.

Overview

The **P45-8RA25** is part of Luminys's P4 Mainstream series of security devices. P4 mainstream series devices are designed with a suite of advanced LumiTechnologies to meet the needs of today's evolving security market.

Key Technologies

LumiTracking technology enhances security and efficiency by automating tracking of people and vehicles. It uses advanced AI algorithms to monitor and predict the direction and speed of moving targets, enabling quick response to potential issues for enhanced security and smooth operation.

LumiFocus technology ensures a target stays in focus during the zooming process. LumiFocus uses advanced algoritms to accurately measure the distance from a target and predict the direction of its movement for enhanced image stability and clarity when zooming.

Specifications

Camera

Luminys Series	P4 Series (Mainstream)
Zoom	25x
Image Sensor	1/1.8-in. 8MP Progressive CMOS
Maximum Resolution	3840 × 2160
Minimum Illumination	**Color:** 0.005 Lux at F1.6 **Black/White:** 0.0005 Lux at F1.6 0 Lux With IR On
Number of Illuminators	Four (4) IR LEDs
Illumination Range	492.1 ft (150.0 m)
Illuminator Control	Manual, Automatic
Electronic Shutter Speed	1/3 s to 1/100,000 s
Control Speed	Manual Control **Pan:** 0.1° to 250° **Tilt:** 0.1° to 140°
S/N Ratio	> 55 dB

Lens

Focal Length	5.4 mm to 135.0 mm
Aperature	F1.6 to F4.0
Field of View	**Horizontal:** 61.6° to 3.6° **Vertical:** 35.7° to 2.0° **Diagonal:** 66.6°to 4.0°
Close Focus Range	0.3 ft to 6.6 ft (0.1 m to 2.0 m)
DORI Distance	**Detect:** 8,858.2 ft (2,700.0 m) **Observe:** 3,543.3 ft (1,080.0 m) **Recognize:** 1,771.6 ft (540.0 m) **Identify:** 270.0 m (885.8 ft)

Pan/Tilt/Zoom

Range	Pan: 0° to 360° Endless Tilt: -15° to 90°, Auto Flip: 180°
Pan Speed	Manual Control: 0.1°/s to 250°/s Preset: 250°/s
Tilt Speed	Manual Control: 0.1°/s to 140°/s Preset: 140°/s
Preset	300
Tour	8 (Up to 32 Presets per Tour)
Pattern	5
Scan	5
Scheduled Modes	Preset, Pattern, Tour, Scan
Preset Freezing	Freezes Images Between Presets
LumiFocus	Images Maintain Focus When Zooming In or Out

Video

Compression	Smart Encoding H.265+, H.265, Smart Encoding H.264+, H.264, MJPEG (Sub Stream 1 Only)
Smart Codec	Supported
Stream Capability	Three (3) Streams
Resolution	8MP (3840 x 2160), 4MP (2560 × 1440), 3MP (2048 × 1536/ 2304 × 1296), 1080p (1920 ×1080), 1.3MP (1280 × 960), 720p (1280 × 720), D1 (704 × 480), VGA (640x480), CIF (352 × 240)

Video

Maximum Frame Rate	**Main Stream:** 8MP/4MP/3MP/1080p/1.3MP/720p at 30 fps **Sub Stream 1:** D1/VGA/CIF at 30 fps **Sub Stream 2:** 1080p/1.3MP/720p at 30 fps
Video Bit Rate	**H.265:** 38 kbps to 8960 kbps **H.264:** 96 kbps to 14848 kbps
Bit Rate Control	CBR/VBR
Day/Night	Automatic (ICR), Color, Black and White
Light Balancing	Wide Dynamic Range (120 dB), BLC, HLC
Noise Reduction	3D NR
Image Rotation	180°
Image Stabilization	Electronic
Defog	Electronic
Region of Interest	8 Regions
Privacy Masking	24 Areas (Up to 8 Areas in the Same View)

Analytics

Video Content Analytics+	Line Crossing, Intrusion, Parking Detection, Crossing Virtual Fence, Aggregate Detection, Vehicle/Human Alarm Classification, Linkage Tracking, Loitering Detection
Intelligent Motion Detection	Supported with Alarms for Vehicles and Humans
Face Detection	Capture Snapshots and Facial Attributes
People Counting	Entry/Exit and In-Area People Counting, Queue Management With Report
LumiTracking	Automatically Tracks a Target in Motion for an Allotted Amount of time or Until the Object Exits the Scene

Audio

Compression	G.711a, G.711Mu, PCM, AAC
Sampling Bitrate	**PCM:** 8,000 Hz, 16,000 Hz, 32,000 Hz **G.711A:** 8,000 Hz **G.711Mu:** 8,000 Hz **AAC:** 8,000 Hz, 16,000 Hz, 32,000 Hz 48,000 Hz, 64,000 Hz
Interface	**Input:** One (1) Channel **Output:** One (1) Channel

Alarm

Event	Motion/Tampering Detection, Audio Detection, Network Disconnection Detection, IP Conflict Detection, SD Card Error, Insufficient SD Card Storage
Linkage	Capture, Recording, Send Email, Preset, Tour, Pattern, Alarm Digital Output, Audio
Interface	**Input:** Two (2) Channel **Output:** One (1) Channel

Network

Protocol	RJ-45 (10/100 Base-T)
Protocol	HTTP, HTTPS, TCP/IP, IPv4, RTSP, SMTP, NTP, DHCP, DNS, DDNS, IPv6, 802.1x, SSL, QoS, FTP, UPnP, SNMP, ARP, RTCP, RTP, PPPoE, RTMP, Bonjour, NFS
Interoperability	ONVIF (Profile S/G/T), CGI, SDK, P2P
Browser	Chrome, Firefox, Safari, Edge
Client	LumiViewer, LumiViewer Mobile App
Strorage	FTP/SFTP, NAS, Micro SD Card (Max. 512 GB)

Electrical

Power Supply	24 VDC, PoE+ (802.3at)
Power Consumption	23 W (Max.)

Construction

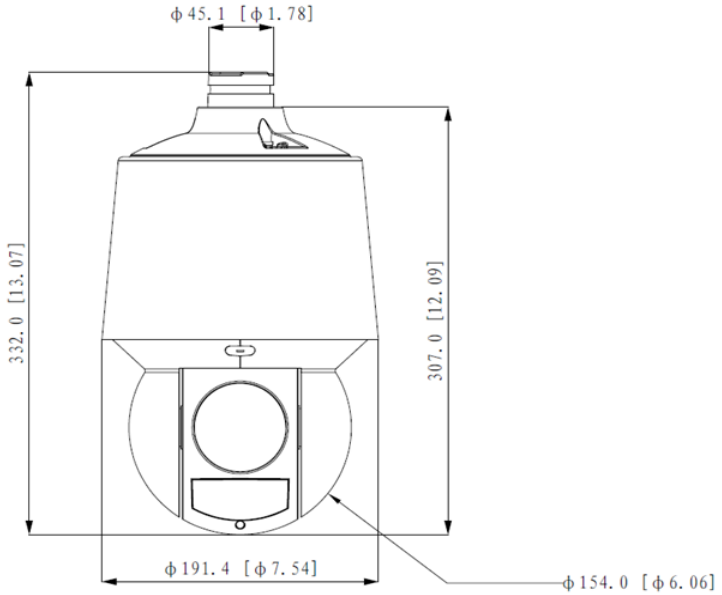
Net Weight	4.7 kg (10.4 lb)
Gross Weight	8.0 kg (17.6 lb)
Operating Temperature	-40 °F to 158 °F (-40 °C to 70 °C)
Protection Ratings	IP67, IK10
Dimensions	Φ191.0 mm × 332.0 mm (Φ7.5 in. × 13.1 in.)
Material	Metal

Certifications and Compliance

Certifications	FCC, UL, IC
Compliance	NDAA

Dimensional Drawing

mm [in.]



Packaging Information

Included Components

Below are the included components when purchasing the product.

Quantity	Component
1	8MP Network 25x PTZ Camera (Luminys SKU: P45-8RA25)
1	Wall Mount Bracket (Luminys SKU: N5D/N5T/N3T/P45/P5-W01)
1	Wall Mount Rubber Grommet
1	Set Waterproof Connector
1	Power Adapter
4	Expansion Bolts
3	Hex Screws
1	T15 L-Shaped Allen Wrench
1	S5.0 L-Shaped Allen Wrench
1	Set Anti-Static Gloves
1	Roll of Waterpoof Tape
1	Quick Start Guide
1	Regulatory Information

Optional Accessories

Below are the optional accessories for this product. All SKUs listed must be purchased to complete an accessory combination. For more information and to see mounting combinations, please view our accessory selector at https://www.luminyscorp.com/products/accessories.

Accessory Combination	SKU(s)	Description
Horizontal Pole Mount*	N5D/N5T/N3T/P45/P5-W01	Wall Mount Bracket
	P5/P4-D01	Distribution Box
	P01	Pole Mount Bracket
Vertical Pole Mount*	P45/P54/P55-A01	Adapter
	N9F/P4/P5-E01	Pendant Mount Bracket
	P01	Pole Mount Bracket
Pendant Mount*	P45/P54/P55-A01	Adapter
	C01	Pendant Mount Bracket
Corner Mount*	N5D/N5T/N3T/P45/P5-W01	Wall Mount Bracket
	C01	Corner Mount Bracket

*All SKUs must be purchased to complete the mounting combination. Failure to purchase all SKUs listed will result in an incomplete mount.

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