8MP Network 25x PTZ Camera

P45-8RA25

Key Features

- 8MP Dome Housing
- 25x Max Optical Zoom
- VCA+: Line Crossing, Intrusion, Loitering Detection, Parking Detection
- Face Detection, People Counting, Queue Managment
- 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 a with 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
Power-Off Memory	Supported

Lens

Iris Type	Fixed
Lens Type	Fixed
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
Patrol	8 (Up to 32 Presets per Patrol)
Pattern	5
Scan	5
Scheduled Modes	Preset, Pattern, Tour, Scan
Preset Freezing	Supported
LumiFocus	Supported
3D Positioning	Supported

Video

Compression	H.265, H.264, MJPEG (Sub Stream 1 Only)
Smart Codec	Supported
Stream Capability	Three (3) Streams

Video

Resolution	8MP (3840 x 2160), 4MP (2560 × 1440), 3MP (2048 × 1536), 1080p (1920 ×1080), 1.3MP (1280 × 960), 720p (1280 × 720), D1 (704 ×576/704 × 480), VGA (640x480), CIF (352 × 288/352 × 240)
Maximum Frame Rate	**Main Stream:** 8MP/4MP/3MP/1080p/1.3MP/720p at 1–30 fps **Sub Stream 1:** D1/VGA/CIF at 1–30 fps **Sub Stream 2:** 1080p/1.3MP/720p at 1–30 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	Supported
Privacy Masking	Supported

Analytics

Video Content Analytics+	Line Crossing, Intrusion, Loitering Detection, Parking Detection, Fence Climbing, Abandoned/Missing Object, People Gathering, Vehicle/Human Alarm Classification, Linkage Tracking
Intelligent Motion Detection	Supported with Alarms for Vehicles and Humans
Face Detection	Capture Snapshots and Facial Attributes
People Counting	Tripwire and In-Area People Counting, Queue Management With Report
LumiTracking	Supported

Audio

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

Alarm

Event	Motion/Tampering Detection, Audio Detection, Network Disconnection Detection, IP Conflict Detection, Memory Card State Detection, Memory Space Detection
Linkage	Capture, Recoding, 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
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

For all possible accessory combinations for this product, please view our accessory selector at https://www.luminyscorp.com/products/accessories.

Dimensional Drawing

mm [in.]