

4MP Network 45x LumiSearch PTZ Camera

P55-4SA45



Key Features

- 4MP Dome Housing
- 45x Maximum Optical Zoom
- Video Content Analytics+: Line Crossing, Intrusion, Loitering Detection, Parking Detection
- Face Detection, People Counting
- LumiSearch
- iMD, LumiTracking, LumiFocus
- LumiPolarPro and LumiDesertPro

Certifications and Compliance

- NDAA Compliant
- FCC
- IC

Learn More



Learn more about this product's key technologies.



View all compatible accessories for this product.

Overview

The **P55-4SA45** is part of Luminys's mainstream series of security devices. 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.

LumiSearch technology enables fast target detection and tracking in security video using a single reference image. The algorithm analyzes body shape to locate a person across any LumiSearch-enabled camera or NVR. It does not use facial recognition, require pre-registration, or collect personal data; instead, individuals are assigned random numbers used only for matching.

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

LumiPolarPro and **LumiDesertPro** technology ensure rugged all-weather performance. LumiPolarPro enables dependable performance in temperatures as low as -40 °C (-40 °F). LumiDesertPro allows operation in temperatures up to 60 °C (140 °F).

Specifications

Camera

| | |
|--------------------------|---|
| Luminys Series | Mainstream |
| Zoom | 45x |
| Image Sensor | 1/2.8-in. 4MP Progressive CMOS |
| Maximum Resolution | 2560 × 1440 |
| Minimum Illumination | Color: 0.005 Lux at F1.6 Black/White: 0.0005 Lux at F1.6 0 Lux With IR Light On |
| Number of Illuminators | Four (4) IR LEDs |
| Illumination Range | 492.1 ft (150.0 m) |
| Illuminator Control | Manual, Smart IR, Zoom Priority, Off |
| Electronic Shutter Speed | 1/3 s to 1/100,000 s |
| Control Speed | Manual Control Pan: 0.1° to 250°/s Tilt: 0.1° to 140°/s |
| S/N Ratio | > 55 dB |

Lens

| | |
|-------------------|--|
| Focal Length | 4.0 mm to 177.8 mm |
| Aperature | F1.6 to F4.95 |
| Field of View | Horizontal: 65.7°to 1.9° Vertical: 39.4°to 1.1° Diagonal: 73.1°to 2.1° |
| Close Focus Range | 0.1 m to 1.0 m (0.3 ft to 3.3 ft) |
| DORI Distance | Detect: 258.5 ft to 11,661.8 ft (78.8 m to 3,554.5 m) Observe: 103.6 ft to 4,665.4 ft (31.5 m to 1,422.0 m) Recognize: 51.2 ft to 2,332.0 ft (15.6 m to 710.8 m) Identify: 24.6 ft to 1,164.7 ft (7.5 m to 355.0 m) |

Pan/Tilt/Zoom

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|-----------------|--|
| 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 Only) |
| Smart Codec | Supported |
| Stream Capability | Three (3) Streams |

Video

| | |
|---------------------|--|
| Resolution | 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) |
| Maximum Frame Rate | Main Stream: 4MP/3MP/2.9MP/1080p/1.3MP/720p at 1 to 30 fps Sub Stream 1: D1/CIF at 1 to 30 fps Sub Stream 2: 720p at 1 to 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

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|------------------------------|--|
| Video Content Analytics+ | Line Crossing, Intrusion, Loitering Detection, Parking Detection, Crossing Virtual Fence, Abandoned/Missing Object, Aggregate Detection, Vehicle/ Human Alarm Classification, Linkage Tracking |
| Intelligent Motion Detection | Supported with Alarms for Vehicles and Humans |
| Face Detection | Capture Snapshots and Facial Attributes |
| LumiSearch | Supported When Used With LumiSearch-Enabled NVRs |
| People Counting | Tripwire 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

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|------------------|---|
| 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

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|-----------|--|
| 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

| | |
|------------------|---|
| Interface | 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 |
| Storage | FTP/SFTP, NAS, Micro SD Card (Max. 512 GB) |

Electrical

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|-------------------|--|
| Power Supply | 24 VDC (2.5 A \pm 25%), PoE+ (802.3at) |
| Power Consumption | 23 W (Max.) |

Construction

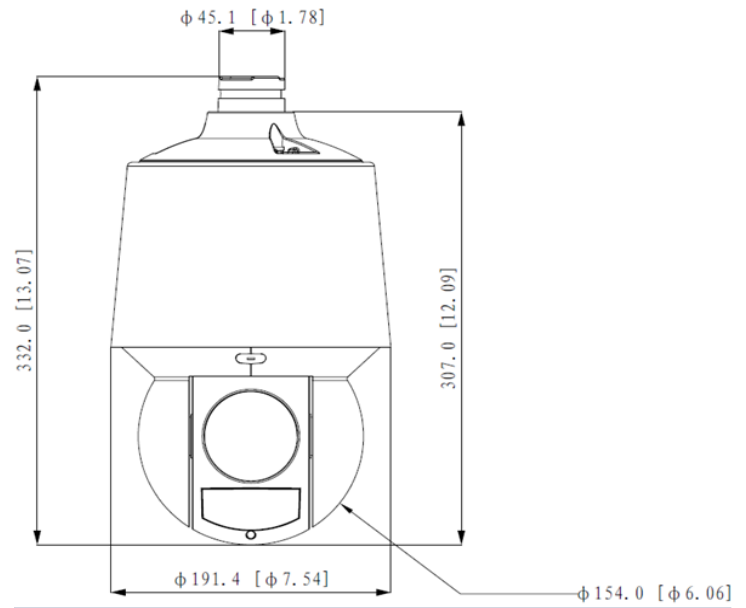
| | |
|-----------------------|--|
| Net Weight | 8.0 kg (17.6 lb) |
| Gross Weight | 4.7 kg (10.4 lb) |
| Operating Temperature | -40 °F to 158 °F (-40 °C to 70 °C) |
| Protection Ratings | IP67, IK10 |
| Dimensions | $\Phi 191.0$ mm \times 332.0 mm ($\Phi 7.5$ in. \times 13.1 in.) |
| Material | Metal |

Certifications and Compliance

| | |
|----------------|---------|
| Certifications | FCC, IC |
| Compliance | NDAA |

Dimensional Drawing

mm [in.]



Packaging Information

Included Components

Below are the included components when purchasing the product.

| Quantity | Component |
|----------|---|
| 1 | 4MP Network 45x LumiSearch+ PTZ Camera (Luminys SKU: P55-4SA45) |
| 1 | Wall Mount Bracket (Luminys SKU: N5D/N5T/N3T/P45/P5-W01) |
| 1 | Wall Mount Rubber Grommet |
| 1 | Set Waterproof Connector |
| 1 | Power Adapter |
| 1 | Steel Wire Rope |
| 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 Waterproof Tape |
| 1 | Quick Start Guide |
| 1 | Regulatory Information |

Compatible Accessories

Below are the compatible accessories for this product. Not all accessories are included with purchase; some must be purchased separately. Each mount type requires all listed SKUs to ensure proper installation. For more information, visit the Luminys accessory selector at <https://www.luminyscorp.com/products/accessories>.

| Mount Type | SKU(s) | Description |
|------------------------|--|-----------------------|
| Horizontal Pole Mount* | N5D/N5T/N3T/P45/P5-W01 <i>(Included With Product)</i> | Wall Mount Bracket |
| | P5/P4-D01 <i>(Must be Purchased Separately)</i> | Distribution Box |
| | P01 <i>(Must be Purchased Separately)</i> | Pole Mount Bracket |
| Vertical Pole Mount* | P45/P54/P55-A01 <i>(Must be Purchased Separately)</i> | Adapter |
| | N9F/P4/P5-E01 <i>(Must be Purchased Separately)</i> | Pendant Mount Bracket |
| | P01 <i>(Must be Purchased Separately)</i> | Pole Mount Bracket |
| Pendant Mount* | P45/P54/P55-A01 <i>(Must be Purchased Separately)</i> | Adapter |
| | C01 <i>(Must be Purchased Separately)</i> | Pendant Mount Bracket |
| Corner Mount* | N5D/N5T/N3T/P45/P5-W01 <i>(Included With Product)</i> | Wall Mount Bracket |
| | C01 <i>(Must be Purchased Separately)</i> | Corner Mount Bracket |

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

