4MP Network 25x LumiSearch+ PTZ Camera

P54-4SA25

Key Features

- 4MP Dome Housing
- 25x Maximum Optical Zoom
- Video Content Analytics+: Line Crossing, Intrusion, Loitering Detection, Parking Detection
- LumiAnalytics: Face Detection, People Counting, Heat Map, Queue Management Smart Object Detection
- LumiSearch+[1]
- 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 **P54-4SA25** is part of Luminys's P5-S mainstream series of security devices. P5-S 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.

LumiSearch+[1] technology lets you quickly find, track, and identify targets in security footage using a reference image. The LumiSearch algorithm analyzes human body shape, clothing color, and other characteristics to accurately pinpoint where a target has appeared in footage captured by any LumiSearch-enabled camera and NVR. LumiSearch+ provides enhanced LumiSearch functionality by allowing users search for targets using attribute search, filter out animals using animal search, and create custom intrusion zones to monitor irregular or high-risk areas more precisely.

LumiAnalytics uses detailed metadata and advanced AI algorithms to track important metrics such as people counting and behavior analysis. These insights give businesses highly valuable information to improve and optimize operations.

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	P5-S Series (Mainstream)
Zoom	25x
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	328.1 ft (100.9 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 200°/s **Tilt:** 0.1° to 120°/s
S/N Ratio	> 55 dB

Lens

Focal Length	5.0 mm to 125.0 mm
Aperature	F1.6 to F3.6
Field of View	**Horizontal:** 51.9° to 3.0° **Vertical:** 39.7° to 2.2° **Diagonal:** 63.1° to 3.7°
Close Focus Range	0.1 m to 0.5 m (0.3 ft to 1.6 ft)
DORI Distance	**Detect:** 8,208.1 ft (2,500.0 m) **Observe:** 3,239.83 ft (987.5 m) **Recognize:** 1,640.4 ft (500.0 m) **Identify:** 820.2 ft (250.0 m)

Pan/Tilt/Zoom

Range	Pan: 0° to 360° Endless Tilt: -15° to 90°, Auto Flip: 180°
Pan Speed	Manual Control: 0.1°/s to 200°/s Preset: 0.1°/s to 240°/s
Tilt Speed	Manual Control: 0.1°/s to 120°/s Preset: 0.1°/s to 200°/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	4MP (2560 × 1440), 3MP (2304 × 1296), 3MP (2048 × 1536), 1080p (1920 × 1080), 960p (1280 × 960), 720p (1280 × 720) , VGA (640 × 480), 352 × 240

Video

Maximum Frame Rate	**Main Stream:** 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:** 1 kbps to 8192 kbps **H.264:** 1 kbps to 14336 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	2D NR, 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, 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
LumiSearch+[1]	Supported When Used With LumiSearch+-Enabled NVRs
LumiAnalytics	Face Detection, People Counting, Heat Map, Queue Management, Smart Object Detection
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 to 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, 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
Strorage	FTP/SFTP, NAS, Micro SD Card (Max. 512 GB)

Electrical

Power Supply	12 VDC, PoE+ (802.3at)
Power Consumption	15 W (Max.)

Construction

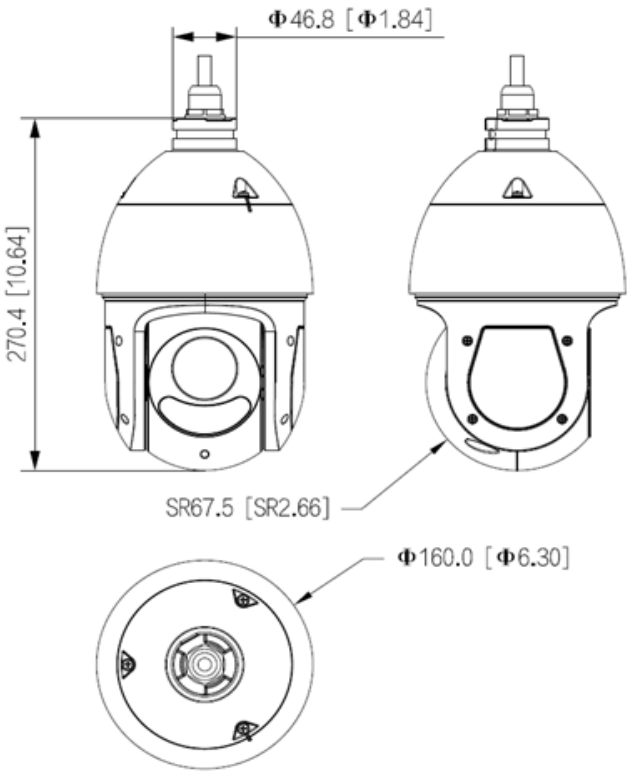
Net Weight	3.0 kg (6.6 lb)
Gross Weight	4.5 kg (9.9 lb)
Operating Temperature	–40 °F to 158 °F (–40 °C to 70 °C)
Protection Ratings	IP66
Dimensions	Φ160.0 mm × 295.0 mm (Φ6.3 in. × 11.6 in.)
Material	Metal

Certifications and Compliance

Certifications	FCC, UL, IC
Compliance	NDAA

Dimensional Drawing

mm [in.]



1. This product does not support attribute search.

Packaging Information

Included Components

Below are the included components when purchasing the product.

Quantity	Component
1	4MP Network 25x LumiSearch+ PTZ Camera (Luminys SKU: P54-4SA25)
1	Wall Mount Bracket (Luminys SKU: N5D/N5T/N3T/P45/P5-W01)
1	Wall Mount Rubber Grommet
1	Set Waterproof Connector
4	Expansion Bolts
3	Hex Screws
2	Spring Hooks
1	S5.0 L-Shaped Allen Wrench
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
	P55/P54/P45-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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