

# 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
- Face Detection
- 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 **P54-4SA25** 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	25x
Image Sensor	1/2.8-in. 4MP Progressive CMOS
Maximum Resolution	2560 × 1440
Minimum Illumination	<b>Color:</b> 0.005 Lux at F1.6 <b>Black/White:</b> 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 <b>Pan:</b> 0.1° to 200°/s <b>Tilt:</b> 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	<b>Horizontal:</b> 51.9° to 3.0° <b>Vertical:</b> 39.7° to 2.2° <b>Diagonal:</b> 63.1° to 3.7°
Close Focus Range	0.1 m to 0.5 m (0.3 ft to 1.6 ft)
DORI Distance	<b>Detect:</b> 315.9 ft to 6797.2 ft (96.3 m to 2071.8 m) <b>Observe:</b> 125.3 ft to 2718.2 ft (38.2 m to 828.5 m) <b>Recognize:</b> 64.0 ft to 1358.3 ft (19.5 m to 414.0 m) <b>Identify:</b> 32.2 ft to 679.1 ft (9.8 m to 207.0 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)
Standard Codec	Supported
Stream Capability	Three (3) Streams

## Video

Resolution	4MP (2560 × 1440), 3MP (2304 × 1296), 3MP (2048 × 1536), 1080p (1920 × 1080), 960p (1280 × 960), 720p (1280 × 720) , VGA (640 × 480), 352 × 240
Maximum Frame Rate	<b>Main Stream:</b> 4MP/3MP/1080p/1.3MP/720p at 30 fps <b>Sub Stream 1:</b> D1/VGA/CIF at 30 fps <b>Sub Stream 2:</b> 1080p/1.3MP/720p at 30 fps
Video Bit Rate	<b>H.265:</b> 1 kbps to 8192 kbps <b>H.264:</b> 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	Supported When Used With LumiSearch-Enabled NVRs
Face Detection	Capture Snapshots and Facial Attributes
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	<b>PCM:</b> 8,000 Hz, 16,000 Hz, 32,000 Hz <b>G.711A:</b> 8,000 Hz <b>G.711Mu:</b> 8,000 Hz <b>AAC:</b> 8,000 Hz to 64,000 Hz
Interface	<b>Input:</b> One (1) Channel <b>Output:</b> 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	<b>Input:</b> Two (2) Channel <b>Output:</b> 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

Power Supply	12 VDC (3 A $\pm$ 10%), PoE+ (802.3at)
Power Consumption	15 W (Max.)

## Construction

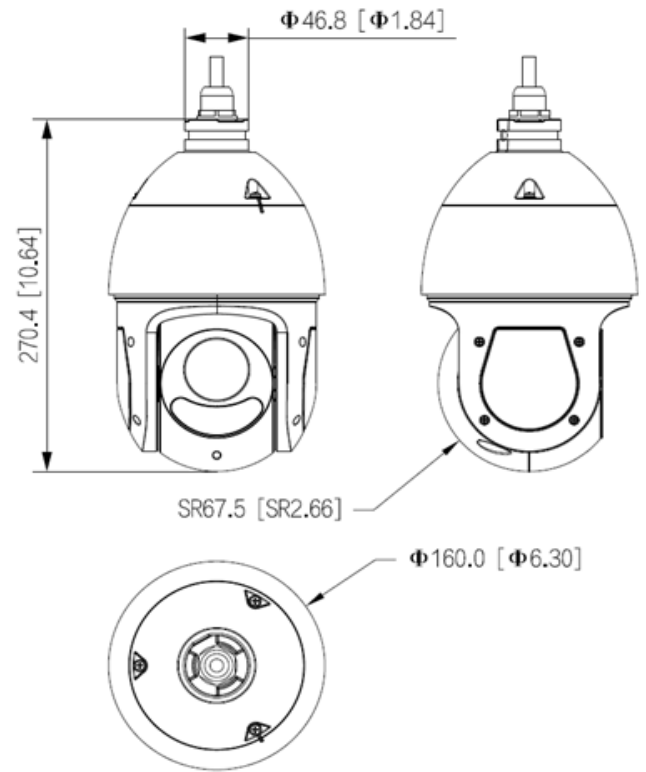
Net Weight	3.0 kg (6.6 lb)
Gross Weight	4.5 kg (9.9 lb)
Operating Temperature	-40 °F to 158 °F (-40 °C to 70 °C)
Protection Ratings	IP66
Dimensions	$\Phi 160.0$ mm $\times$ 295.0 mm ( $\Phi 6.3$ in. $\times$ 11.6 in.)
Material	Metal

## 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 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

## 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
	P55/P54/P45-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.