

4MP Network 25x LumiDeterrent PTZ Camera

P54-4DB25



Key Features

- 4MP Dome Housing
- 25x Maximum Optical Zoom
- LumiDeterrent With Red/Blue Lights and Built-In Speaker
- Dual-Illumination — IR and White-Light LEDs
- LumiSearch
- Face Detection
- Video Content Analytics+: Line Crossing, Intrusion, Loitering Detection, Parking Detection
- 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 **P54-4DB25** 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

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.

Video Content Analytics+ (VCA+) is the umbrella for Line Crossing, Intrusion, Loitering Detection, and Parking Detection analytics. Line Crossing identifies when a person or object crosses a defined line. Intrusion detects when a person or object breaches the boundaries of a defined area or enters a restricted area. Loitering Detection sends alerts to mobile devices when it detects a person or vehicle lingering in an area for a pre-set duration. Parking Detection establishes a virtual perimeter around designated parking zones and triggers alerts when vehicles exceed the allowed parking time. VCA+ is specifically designed for more advanced and specialized applications as it offers more advanced features compared to standard video content analytics (VCA).

LumiDeterrent technology integrates full-color video, active deterrence, and AI algorithms to provide 24/7 security. This technology can accurately identify potential risks and prevent incidents with red and blue light alarms and enhanced sound alarms.

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 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 65 °C (149 °F).

Specifications

Camera

Luminys Series	Mainstream
Zoom	25x
Image Sensor	1/2.8-in. Progressive CMOS
Maximum Resolution	2560 × 1440
Minimum Illumination	Color: 0.006 Lux at F1.6 Black/White: 0.0006 Lux at F1.6 0 Lux With Illuminators On
Number of Illuminators	Two (2) IR LEDs, Two (2) White-Light LEDs
Illumination Range	IR: 100.1 m (330.0 ft) White Light: 50.3 m (165.0 ft)
Illuminator Control	Zoom Priority, Manual, Automatic, Off
Electronic Shutter Speed	1/1 s to 1/30,000 s
Control Speed	Manual
Power Off Memory	Supported
S/N Ratio	> 56 dB

Lens

Focal Length	5.0 mm (F1.6) to 125.0 mm (F3.6)
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 1.5 m (0.3 ft to 4.9 ft)
DORI Distance	Detect: 100.2 m to 2,500.2 m (3,378.8 ft to 8,202.8) Observe: 40.2 m to 1,000.2 m (129.6 ft to 3,280.8 ft) Recognize: 20.2 m to 500.2 m (66.3 ft to 1,641.1 ft) Identify: 10.2 m to 250.2 m (33.5 ft to 820.9 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 180°/s Preset: 180°/s
Tilt Speed	Manual Control: 0.1°/s to 90°/s Preset: 90°/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
3D Positioning	Automatically Pans, Tilts, and Zooms to a Selected Area
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

Video

Stream Capability	Three (3) Streams
Resolution	4MP (2560 × 1440), 3MP (2048 × 1536), 3MP (2304 × 1296), 1080p (1920 × 1080), 1.3MP (1280 × 960), 720P (1280 × 720), D1 (704 × 480), VGA (640 × 480), CIF (352 × 240)
Maximum Frame Rate	Main Stream: 4MP (2560 × 1440) at 30 fps Sub Stream 1 and 2: D1 (704 × 480), 720p (1280 × 720) at 30 fps
Video Bit Rate	H.265: 1,280 kbps to 9,216 kbps H.264: 4,096 kbps to 14,336 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
Visual Angle	0°, 180°
Privacy Mask	Eight (8) Zones
Region of Interest	Eight (8) Regions

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
Face Detection	Capture Snapshots and Facial Attributes
LumiSearch	Supported When Used With LumiSearch-Enabled NVRs
LumiDeterrent	Built-In Speaker and Flashing Red and Blue Lights
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
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: Built-In Speaker and One (1) Channel

Alarm

Event	Motion Detection, Audio Detection, Video Tampering, Scene Changing, Disk Full, Disk Error, Security Warning, External Alarm, AI Event
Linkage	Capture, Record, Send Email, Alarm Digital Output, Audio, Warning Light



Alarm

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. 256 GB)

Electrical

Power Supply	12 VDC, PoE+ (802.3at)
Power Consumption	8 W (Standard), 13 W (Max.)

Construction

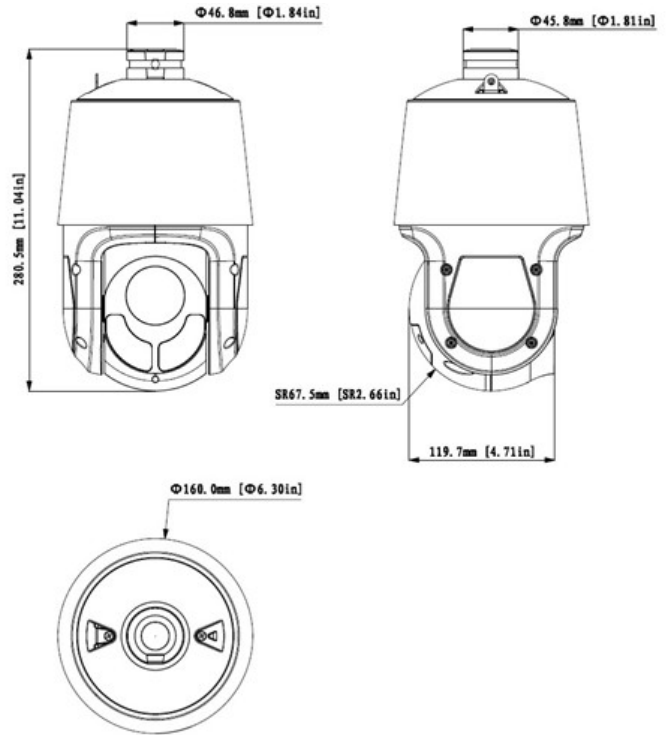
Net Weight	2.7 kg (6.0 lb)
Gross Weight	4.5 kg (9.9 lb)
Operating Temperature	-40 °F to 149 °F (-40 °C to 65 °C)
Operating Humidity	Less than 95% RH
Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Protection Ratings	IP66
Product Dimensions	Φ160.0 mm x 280.5 mm (Φ6.3 in. x 11.0 in.)
Packaging Dimensions (L x W x H)	267.0 mm x 267.0 mm x 437.0 mm (10.5 in. x 10.5 in. x 9.3 in.)
Protection Ratings	IP66
Material	Metal Cover With Plastic Dome

Certifications and Compliance

Certifications	FCC, IC
Compliance	NDA

Dimensional Drawing

mm [in.]



Packaging Information

Included Components

Below are the included components when purchasing the product.

Quantity	Component
1	4MP Network 25x LumiDeterrent PTZ Camera (Luminys SKU: P54-4DB25)
1	Wall Mount Bracket (Luminys SKU: N5D/N5T/N3T/P45/P5-W01)
1	Wall Mount Bracket Gasket
1	S5.0 L-Shaped Wrench
1	Package of Mounting Components
1	Steel Wire Rope
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. For each mount type, all listed SKUs are required to ensure proper installation.

Cross-check the accessories in this datasheet with the Luminys accessory selector tool, and verify that the mount size corresponds to the camera size. Failure to check may result in an incorrect or incomplete mount.

Accessory Combination	SKU(s)	Description
Wall Mount	N5D/N5T/N3T/P45/P5-W01 <i>(Included With Product)</i>	Wall Mount Bracket (Standard Size)
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 (Standard Size)
	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 (Standard Size)
	C01 <i>(Must be Purchased Separately)</i>	Corner Mount Bracket

*All SKUs listed must be used to complete the mounting combination. Verify the compatibility of the listed mounting components prior to ordering. Failure to use all SKUs listed and ensure compatibility may result in an incorrect or incomplete mount.