

Leica BLK247

Smart 3D Surveillance System

Reduce false alarms and gain confidence
in your security system with BLK247



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Smart 3D Surveillance System

Smart Threat Detection

BLK247 is a smart 3D surveillance system that immediately determines threats versus non-threats with accuracy and reliability. It reduces false alarms and increases overall confidence in your security system.

Full Coverage

The BLK247 is a multi-sensor device that provides 360° horizontal x 270° vertical field-of-view. You can monitor an entire space and define specific areas for surveillance with 3D geofencing.

Sensor Fusion

BLK247 sensor fusion technology combines LiDAR, video, and thermal imaging sensors. It monitors spaces by performing real-time change detection in 3D.



AI & Edge Computing

The BLK247 uses onboard assistive AI and edge computing to analyze the data it gathers. It then distinguishes between a threat and a non-threat and decides whether to trigger an alarm.



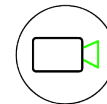
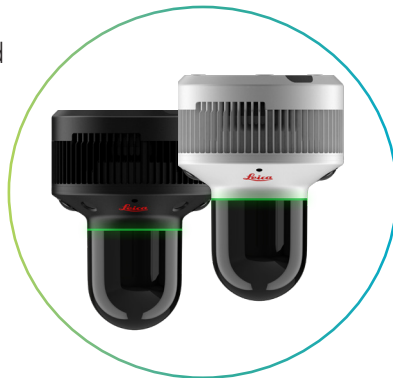
Sensor Fusion

The BLK247 combines the power of LiDAR, video, thermal imaging, and assistive AI to trigger alerts and alarms. LiDAR determines whether an intrusion took place and verifies with other sensors if it is a human intruder.



LiDAR

An invisible laser beam with 360 by 270 degree coverage constantly scans the space with high dimensional accuracy, resulting in real-time 3D change detection.



Video

A twin video camera system monitors the same area as the LiDAR system, and includes on-board video sequence recording.



IR

Four thermal sensors monitor the space for all temperature changes.

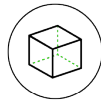
Leica BLK247 Control Center

BLK247 Control Center is the system's onboard software, which allows you to configure each BLK247 unit in your security system for your needs, or to operate a single BLK247 as a standalone security system.



Set-up and configure your BLK247

The Control Center allows to set-up configure your BLK247 through your web browser according your specific requirements and applications.



Create custom 3D geofenced zones to monitor specific areas or objects

Zones can be placed in any size and orientation. Exclude zones allow walkways through restricted areas.



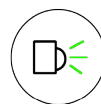
Configure threat-detection and alarm settings

Set alarm sensitivity, delays or intrusion characteristics.



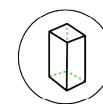
Schedule zone activations and time-based rules

Configure day-or nighttime alarm handling or weekday specific rules independent for each zone.



View live video feed and check camera status

Configure privacy masking for each camera individually for compliance with local standards.



Reconfigure 3D geofenced zones as needed

If the real world changes, zones can be adjusted and the static scene resumed.



Manage device settings and threat-detection parameters

Access rights and users can be defined and the system can be protected against unauthorized operation.



Update BLK247 firmware

As the BLK247 is an IOT device, it is always possible to add further software feature to be always at the state of art in 3D Surveillance.





Access and share alarm event documentation

Select from a large variety of information like panoramic RGB or IR images, pre-event video recording, video and IR streams etc.

Leica BLK247

System Specifications

	BLK247 x5	BLK25 i5
Usage	 Indoor & Outdoor	 Indoor
LiDAR	✓	✓
RGB Cameras	✓	✓
IR Cameras	✓	x
Housing colour	black	white

DESIGN & PHYSICAL		
	BLK247 x5	BLK247 i5
Housing	black powder coated aluminium	white powder coated aluminium
Weight	1460 g (3.218 lbs.)	1380 g (3.042 lbs.)
Device Height	189 mm (7.44 in.)	
Device Diameter	Bottom part: 140 mm (5.5 in.) Lighthouse: 80 mm (3.25 in.)	

ELECTRICAL SPECIFICATION	
Power supply	<ul style="list-style-type: none"> Power consumption: 51 W(max) Power supply options: Power over Ethernet (PoE+ +); IEEE 802.3bt, Type 3, Class 6 Power supply over I/O port 48 V DC 1.06 A
Alarm output I/O Connector	<ul style="list-style-type: none"> Solid state relay Max. working voltage 40 V DC/AC Max. switch current at different working voltages: 5 V: max. 200 mA 12 V: max. 100 mA 24 V: max. 50 mA

RGB IMAGING & VIDEO	
Image sensor	2-camera system, RGB
Type	Fisheye lens
Single camera resolution	12 mega pixel
Field of view	360° x 180° (stitched image)
Stream resolution	1080p/ 720p
Frame rate	10/15/20/25/30 fps
H264 profile	HIGH/ MAIN/ BASELINE
Image adjustment	Auto
Privacy masking	Black/white

LiDAR	
Laser Class	Laser Class 1 (in accordance with IEC 60825- 1)
Wavelength	830 nm
Field of view	360° x 270°
Range	30 m (98.4 ft.)
Point Measurement Rate	200,000 pts/s
Accuracy	6 - 10 mm (0.24 in. - 0.39 in.)

ENVIRONMENTAL		
IP rating	BLK247 x5	BLK247 i5
	IP55/65/67	--
Operating temperature	-15° C to 40° C (5° F to 104° F)	10° C to 35° C (50° F to 95° F)
Storage temperature	-25° to 70° C (-13° to 158° F)	
Humidity	Max 95% non-condensing	
Working altitude	Unlimited	

IR IMAGING & VIDEO	
Image sensor	4-camera system
Emmissivity	Adjustable
Single camera resolution	80 x 64 pixel
Field of view	360° x 136° (stitched image panorama) 88° x 70° (1 single image panorama)
Measurable temperature range	- 20° C to 1000° C (-4° F to 1832° F)
Stream resolution	720 x 480
Frame Rate	2 fps

CONTROL CENTER FEATURES	
<ul style="list-style-type: none"> Web browser interface General device settings Device status Definition of restricted areas Scheduling of restricted areas & feature activation Events list and download event attachments 	

All specifications are subject to change without notice.
All accuracy specifications are one sigma unless otherwise noted.
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