# Blickfeld QbProtect



QbProtect – The Smart 3D Security LiDAR by Blickfeld provides advanced physical security thanks to innovative on-device processing of 3D data. With accurate 3D point cloud data, it ensures reliable threat detection, minimizing false alarms and enabling a dependable response to actual security incidents. The system features real-time object detection through on-device processing, seamless integration with industry-standard interfaces, and object-size based threat assessment. Built-in tampering and malfunction detection ensure system reliability, and rule-based alarm generation allows for a prompt response. The LiDAR system, based on Qb2 hardware, boasts a solid-state design, IP67rated housing for durability in both indoor and outdoor applications.

## TECHNICAL DATA

Technology	3-dimensional
Maximum field-of-view	90° x 50° (Hori
Maximum number of scan lines	1200, configur
Laser class	Class 1, eye-saf
Laser wavelength	Infrared, 905 n
Laser beam divergence	0.25° x 0.25°
Multiple returns	up to 3, config



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Laser Ranging (LiDAR) with edge processing

rizontal x vertical) a

rable

fe (IEC 60825-1:2014)

nm

gurable (highest, nearest, farest)

Range	Perimeter
Description	Perimeter encompasse applications along fen walls, and other perim structures.
Human (150 x 50 cm)	85m
Frame rate	1 - 50 Hz depending or
Point spacing	0.25°; 0.5°; 0.75°
Scan pattern	High Density Pattern v ROI c
	304 scan lines
Mounting height	3 – 8 m
	recommended mount accessories

EMBEDDED SOFTWARE	
Integrated web interface	Interactive 3D LiDAR p configuration / setup, 2 Alarm logic definition,
Alarm types	Pre-Alarms, Intrusion of Malfunction detection
Alarm parameters	Object Size (small, hur Direction Number of objects Alarm duration Alarm logic (AND/OR/N
<b>Central Processing Unit</b>	Broadcom Quad-core
Integrated Intertial Measuring Unit (IMU)	TDK InvenSense ICM-2
Output interfaces	MQTT; TCP
LiDAR data and IMU	available via API

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	Area	
ses nces, neter	Area provides comprehen- sive site protection for large spaces, open areas, critical infrastructure, and facilities.	
	65m	
n config	gured scan pattern	
with	High Density Pattern	
	240 scan lines	
	0.5 – 25 m	
t see	recommended mount see accessories	
Zone p	loud visualization, Device placement and configuration, ace / output specification	
detection, Sabotage / Tampering, า		
man, b	ig)	
'NOT)		
(ARM	v8) 64-bit, 1.5 GHz	
20600		

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### OPERATIONAL

Dimensions (H x W x D) d	Ca. 75 mm x 11
Weight d	Ca. 535 g
Voltage input	Power over Et
Power consumption	Typ. 10 W; max
Ingress Protection	IP67 e (IEC 60
Operating ambient temperature	-30 °C +60 °(
Storage temperature	-30 °C +60 °C

INTERFACES	
LAN connection	Ethernet 1000
Ethernet connector	M12x1 Industria X-coded (EN 6

#### **OPTIONS & ACCESSORIES**

Cable	Matching Ethe Technical Spec Connector to F UV-resistant, F
WiFi connectivity	2.4 GHz: IEEE 8 5 GHz: IEEE 80 Matching WiFi with Blickfeld-
Mounting options	Dual sensor m

a non-rectangular field-of-view

- b range performance depends on scan pattern and factors including but not limited to object reflectivity (stated numbers measured at 25 %). Environmental conditions may influence range performance. Recommended minimal distance 1m.
- c configured with 3x density for 8° ROI (region of interest) d without cables or antenna attached
- e with antenna and Ethernet cable attached or with protective caps attached
- f IP67 with cable and protective cap attached

Blickfeld LiDAR / scan your world

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111 mm x 83 mm

thernet (PoE); IEEE 802.3at Type 1

ax. 13 W

0529)

D Base-T (1 Gbit/s)

ial Ethernet connector, 8-pole, 61076-2-109); IP67 f

ernet Cable, Length: 3 m. ecifications: M12x1 Industrial Ethernet RJ45, straight, Cat. 6a, X-coded, 8-pole, Halogen-free, PUR jacket

802.11b/g/n 02.11n/ac -i antenna. WiFi operation only permitted I-authorized antenna.

nount; Weather protection roof; Pan-tilt mounting bracket

## DIMENSIONS



values in brackets are calculated and may contain round-off errors

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-RP-SMA Antenna port

M12x1 POE connector, 8-pole, X-coded (DIN EN 61076-2-109)

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