# Blickfeld QbProtect



Blickfeld's QbProtect is a smart 3D Security LiDAR designed for advanced physical security. It ensures reliable threat detection and reduces false alarms by producing high-density 3D data and processing it directly on-device. Based on Qb2 hardware, with weatherresistant technology and robust performance in various lighting conditions, QbProtect excels in both indoor and outdoor environments.

## TECHNICAL DATA

PERFORMANCE			
Technology	3-dimensional laser ranging (LiDAR) with edge processing		
Maximum field-of-view	90° x 50° (horizontal x vertical) a		
Range b	Foveated	Non-foveated	
Description	by focusing on a defined area	across the entire field of view;	
Human (150 x 50 cm)	80m	60m	
Scan pattern	High density pattern with ROI c	High density pattern	
	304 scan lines	240 scan lines	
Mounting height	3 – 8 m	0.5 – 25 m	
	recommended mount see accessories	recommended mount see accessories	

Blickfeld LiDAR / scan your world

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### Smart 3D Security LiDAR with ondevice data processing for advanced physical security

Maximum number of scan lines	1200, configurable
Number of returns	up to 3, configurable
Frame rate	1 - 50 Hz depending or
Point spacing	0.25°; 0.5°; 0.75°
LASER	
Laser class	Class 1, eye-safe (IEC 6
Laser wavelength	Infrared, 905 nm
Laser beam divergence	0.25° x 0.25°
ON-DEVICE SOFTWARE A	ND OUTPUT DATA
Integrated web interface	Interactive 3D LiDAR p configuration and setu and data recording
Central processing unit	Broadcom Quad-core
Zone management	Security zone configur

J

Alarm types

Alarm parameters

Direction Number of objects / points Alarm / intruding duration Object track length / lifetime Custom alarm logic (AND/OR/NOT) Integrated intertial TDK InvenSense ICM-20600 measurement unit (IMU)

LiDAR data and IMU available via API Protocols ARP, ICMP, DHCP, DNS, TLS, 802.1X, UDP, NTP, IPv4, IPv6, TCP/IP, HTTP, HTTPS, gRPC, MQTT, RTSP, ONVIF

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(highest, nearest, farest)

on configured scan pattern

60825-1:2014)

point cloud visualization, device up, output specification, alarm history

(ARM v8) 64-bit, 1.5 GHz

guration, object detection and tracking

Pre-alarms, intrusion detection, sabotage / tampering, malfunction detection

Object size (small, human, big)

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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 e	IP67 (IEC 605
Operating ambient temperature f	-30 °C +60 °C
Storage temperature	-40 °C +60 °
Conformity marks / compliance	CE, UKCA, REA TAA-complian
INTERFACES	
LAN connection	Ethernet 1000
Ethernet connector	M12x1 Industri X-coded (EN 6
Security	User & API-key only access), 8

#### **OPTIONS & ACCESSORIES**

Cable	Matching Ethe M12x1 Industria 6a, X-coded, 8-
WiFi connectivity	2.4 GHz: IEEE 8 Matching WiFi with Blickfeld-

### Mounting

### Add-on

a Non-rectangular field-of-view

- areas of the field of view in close distance to the sensor. Stated numbers measured at 25%. Configured with 3x density for 8° ROI (region of interest) С
- d Without cables or antenna attached
- With antenna and Ethernet cable attached or with protective caps attached
- IP67 with cable and protective cap attached Q



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111 mm x 83 mm

thernet (PoE); IEEE 802.3at Type 1

ax. 13 W

529)

EACH, FDA, FCC, SRRC nt product variants available upon request

0 Base-T (1 Gbit/s)

rial Ethernet connector, 8-pole, 61076-2-109), IP67 g

ey authentication (multiple access levels, read-802.1X & WPA2 (EAP)

ernet cable, length: 3 / 7 / 10 m. ial Ethernet connector to RJ45, straight, Cat. 3-pole, UV-resistant, halogen-free, PUR jacket

802.11b/g/n Fi antenna. WiFi operation only permitted I-authorized antenna.

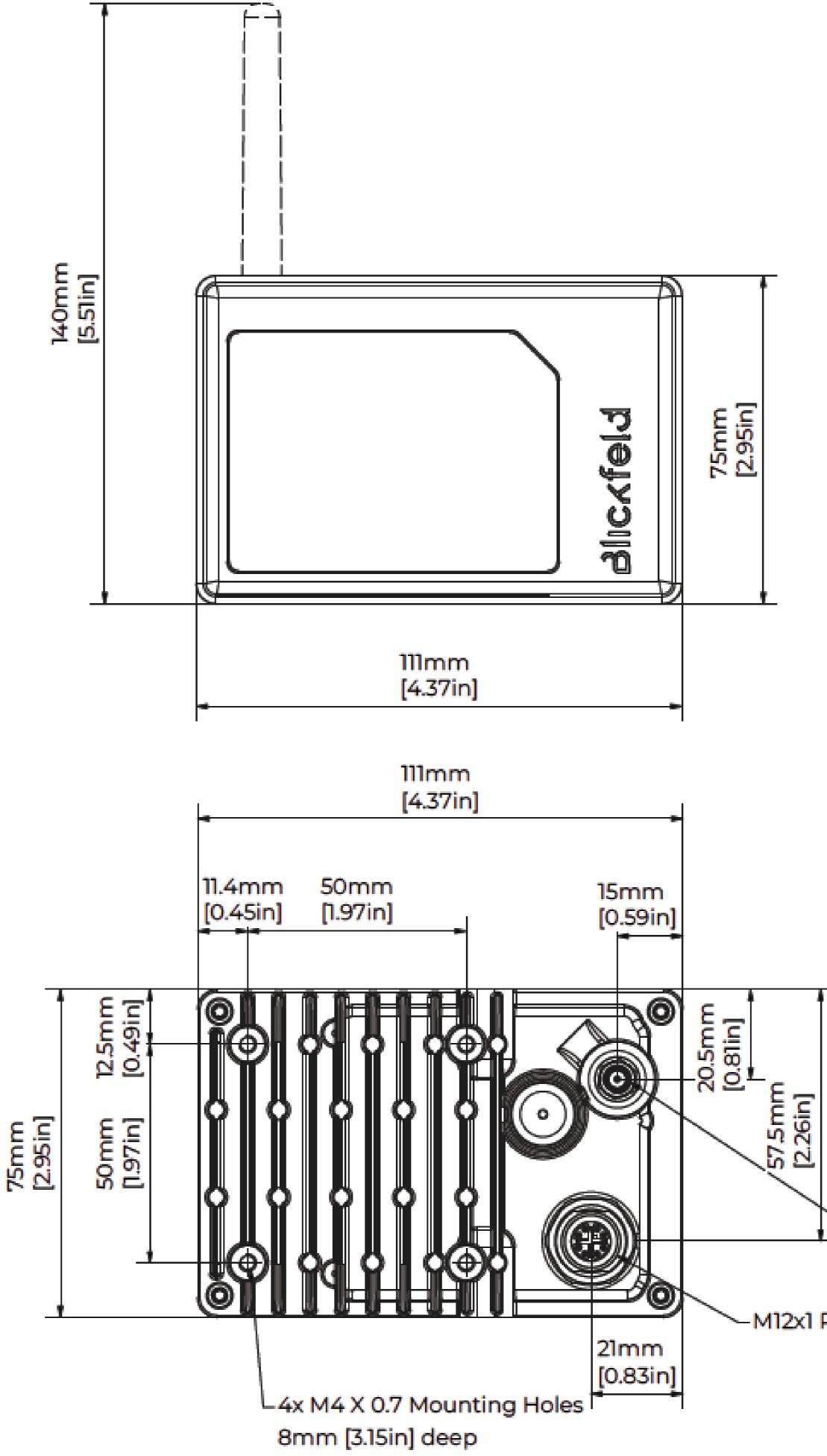
Pan-tilt mounting bracket, Dual sensor mount

Weather protection roof

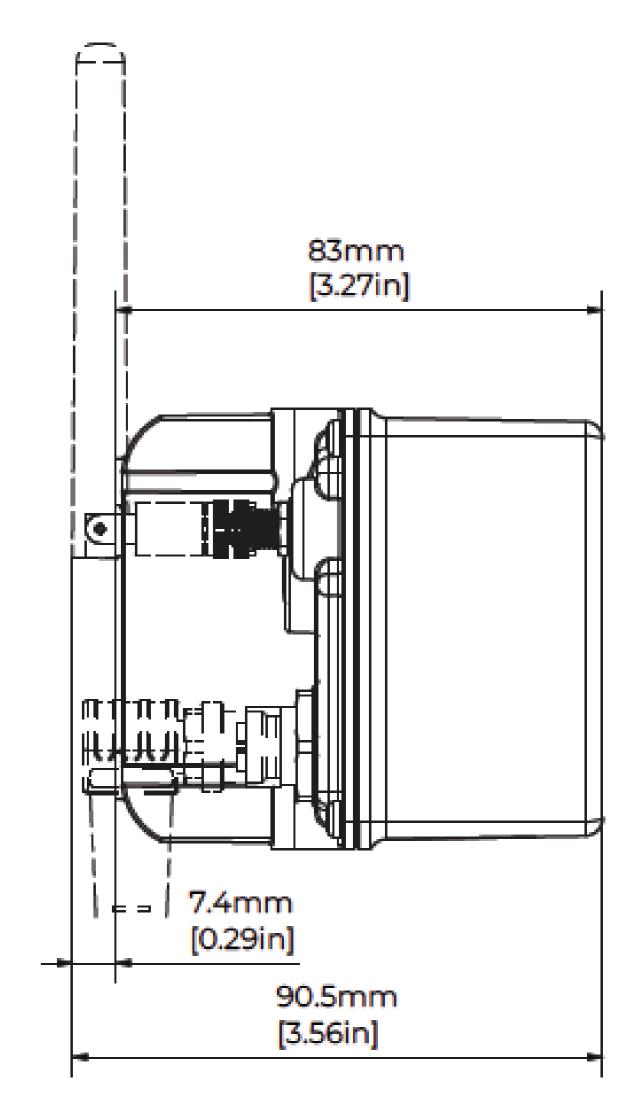
b Range performance depends on many factors including but not limited to object reflectivity, orientation, surface texture, ambient light level, and ambient temperature. Reduced accuracy and resolution in small

Continous operation between -37°C and 60°C. Increased start-up time (max. 30 min) for temperatures below -30°C

## DIMENSIONS



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-RP-SMA Antenna port

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

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

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