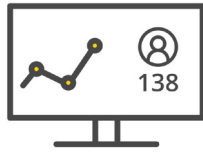## GDPR compliant People Counting solution to extract greater value from your retail operations, smart building or office

Terabee People Counting L-XL is designed for people counting in large entrances and corridors, and uses the latest Time-of-Flight technology for greater reliability. It is GDPR compliant by design, providing accurate people counting data by monitoring the number of people who enter or exit doorways or corridors. The solution encompasses an optional IoT hardware device with embedded counting software to enable powerful analytics services.

Key features

- GDPR compliant by design
- Features 3D depth people counting sensor
- Multi-device support for wide door counting
- Easy to install and configure via Web GUI
- Effective in low light conditions
- Two status LEDs for easy troubleshooting
- Remote device management and firmware updates via Device Management Services
- Power supply and data via Power over Ethernet interface
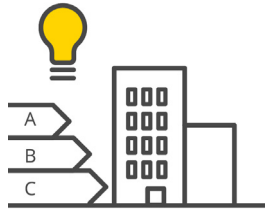- Powerful people counting algorithm with 98% accuracy

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Applications

Smart offices	Facility management	Staff presence optimization
Occupancy monitoring	HVAC systems integration	Maximum capacity compliance
Space and facility optimization	Energy savings	Public spaces and retail

Technical specifications

Product code	TB-PCL-XL
Performance	
Technology	Infrared Time-of-Flight depth sensor
Field of View	74° x 57°
Coverage area dimensions	1.50 x 1.10 m at 2.40 m high with one device
Multi-devices for wide passageways	Yes. Up to 5 devices
Installation height range	From 2.4 m up to 4.0 m
Use environment	Indoor
Counting accuracy	98% [1]
Electronics	
Power source	RJ45 (PoE IEEE 802.3af)
Power consumption	10 W average
LED indicators	Two LEDs
Initialization time	Approx. 1 min
Mechanics	
Dimensions	Ø 130.0 mm x 36.2 mm
Weight	220 g
Housing material	PU 8150
Color	White Black (extra colors on demand)
Operating temperature	0° to 35 °C
Storage temperature	-20° to 60 °C
Installation	On-ceiling mounting with mounting plate, supplied
Networking	
Connectivity	Gigabit Ethernet
Recommended cabling	Category 6 or later
Addressing	DHCP Static IP
Device hostname	terabee-<serial_number>
Data protocols	HTTP/HTTPS, MQTT/MQTTS
Outbound traffic required on port	53, 80/443, 1883/8883, 1194
Domain whitelisting	*.terabee.com
Data hosting	Cloud hosting (Datacenter in Amsterdam, Europe) Data storage for up to 2 years
Setup	Web GUI on the device and accessible by smartphone or laptop
Conformity	
Reference standard	CE, FCC, RoHS

[1] Counting accuracy is assessed on the total number of entry and exit counts in representative conditions. In very diverse environments, this value may change.

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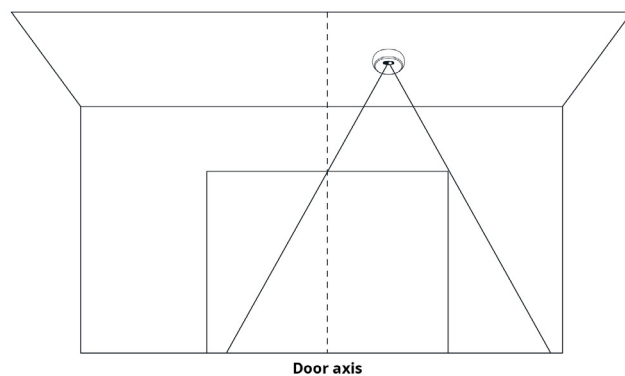+33 7 50 15 16 64
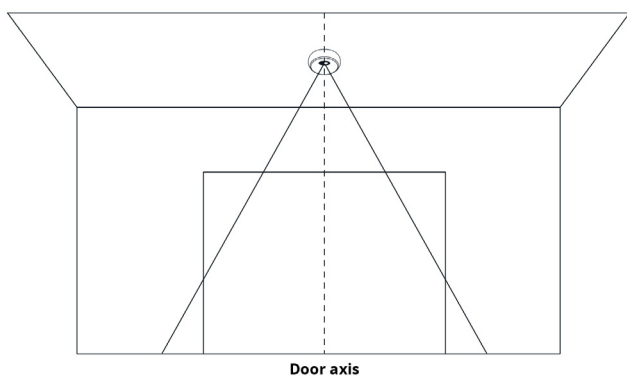terabee-sales@terabee.com
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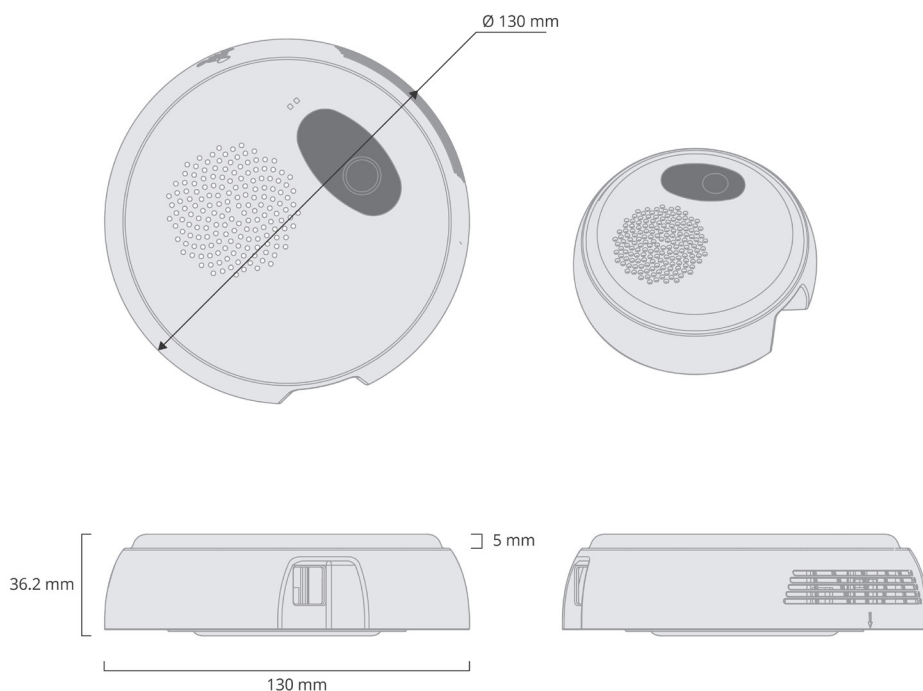
Single device installation

Terabee People Counting L-XL installs like a household smoke alarm, it needs to be placed centrally above doors and corridors and 30 cm minimum from the nearest vertical wall.

The monitored floor area depends on installation height:

Installation height (m)	Monitored area (m x m)
2.40 (min)	1.50 x 1.10
3.20	2.30 x 1.70
4.00 (max)	3.40 x 2.55

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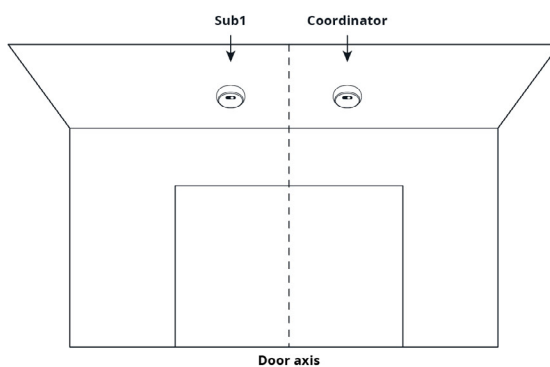+33 7 50 15 16 64
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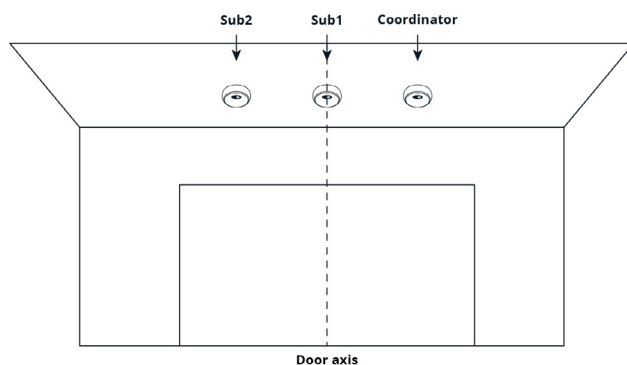
Multi-device installation

Up to five Terabee People Counting L-XL devices can be installed together to cover wider entrances and passageways. One device acts as the coordinator and the others as subordinates.

Installation height (m)	Max. distance between devices (m)	Door coverage (m)			
		2 devices	3 devices	4 devices	5 devices
2.40	0.80	2.30	3.10	3.90	4.70
2.50	0.90	2.45	3.35	4.25	5.15
2.60	1.00	2.60	3.60	4.60	5.60
2.70	1.10	2.80	3.90	5.00	6.10
2.80	1.20	3.00	4.20	5.40	6.60
2.90	1.35	3.25	4.60	5.95	7.30
3.00	1.50	3.60	5.10	6.60	8.10
3.10	1.65	3.85	5.50	7.15	8.80
3.20	1.80	4.10	5.90	7.70	9.50
3.30	1.95	4.35	6.30	8.25	10.20
3.40	2.10	4.60	6.70	8.80	10.90
3.50	2.25	4.85	7.10	9.35	11.60
3.60	2.40	5.15	7.55	9.95	12.35
3.70	2.55	5.45	8.00	10.55	13.10
3.80	2.70	5.75	8.45	11.15	13.85
3.90	2.85	6.05	8.90	11.75	14.60
4.00	3.00	6.40	9.40	12.40	15.40

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2 Devices

Sub1   Coordinator

Door axis

3 Devices

Sub2   Sub1   Coordinator

Door axis

4 Devices

Sub3   Sub2   Sub1   Coordinator

Door axis

5 Devices

Sub4   Sub3   Sub2   Sub1   Coordinator

Door axis
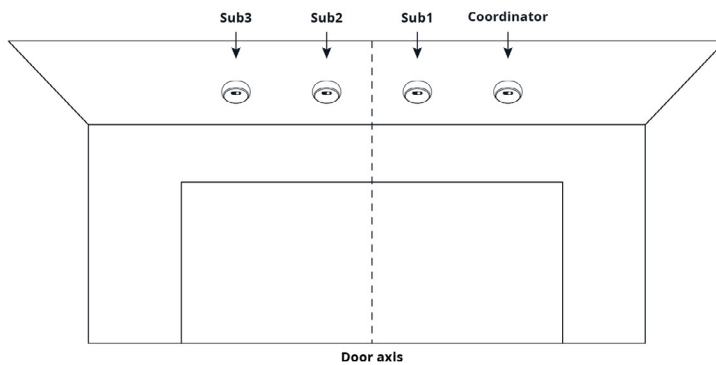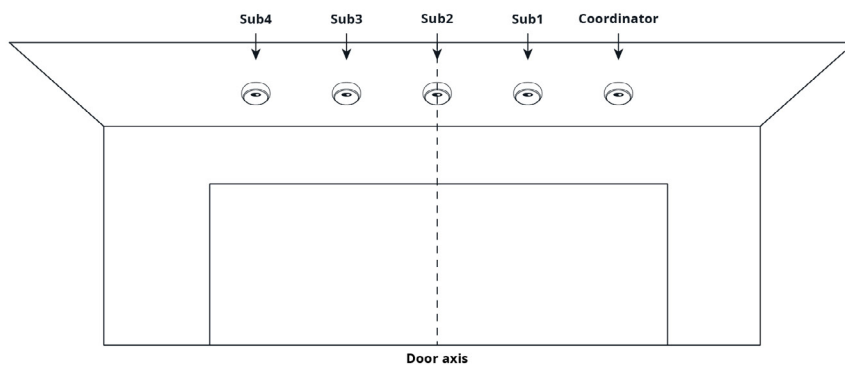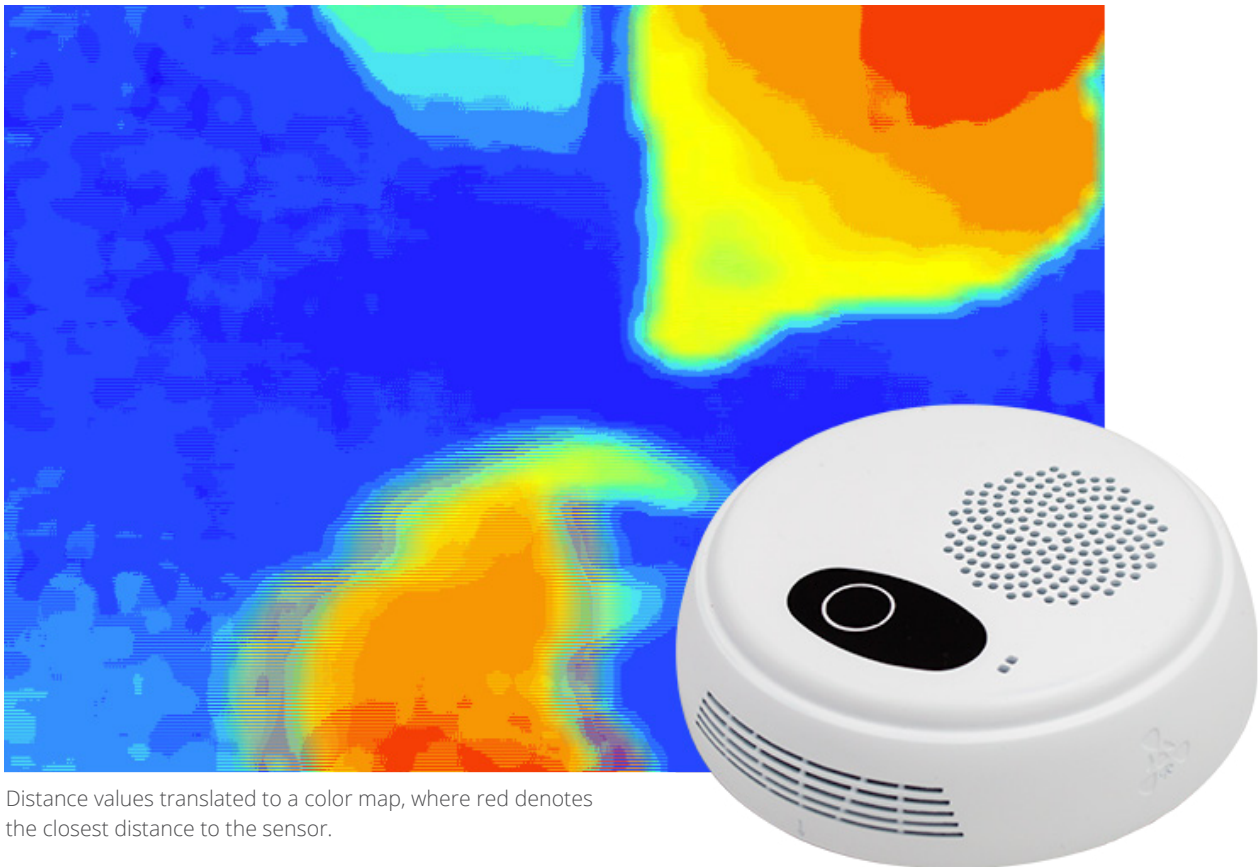
Time-of-Flight advantages

By using active Time-of-Flight technology to sense depth, the Terabee People Counting L -XL collects non-intrusive depth image data, meaning that personal identity can never be captured. And, since the device does not require ambient light for optimal performance, it is suitable for applications in low light without losing accuracy.

Distance values translated to a color map, where red denotes the closest distance to the sensor.

Have any questions? Contact us today!

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