

People Counting L-XL

PoE model and LoRa model SPECIFICATION SHEET



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, using 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 IoT hardware device with embedded counting software to enable powerful analytics services. Two product variations allow transmission of the data via Power over Ethernet or LoRaWAN.

Key features

- GDPR compliant by design
- 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 or local firmware updates
- Remote configuration via Device Management Services (PoE model) or via LoRa downlink commands (LoRa model)
- Data transmission via Ethernet or LoRaWAN
- Powerful people counting algorithm with 98% accuracy



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Applications



Occupancy monitoring

Smart offices

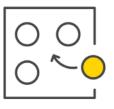
Space and facility optimization



HVAC systems integration

Energy savings

Facility management

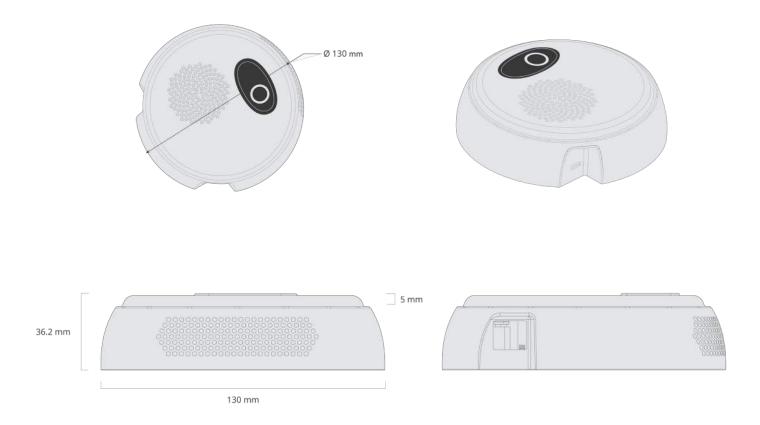


Staff presence optimization

People flow

Public spaces and retail

Dimensions



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Technical specifications

SPECIFICATION SHEET

Product code	TB-PCL-XL					
Performances	PoE model	PoE model LoRa model				
Technology	Infrared Time-of-Flight depth sensor					
Field of View	74° x 57°					
Coverage area dimensions	1.50 x 1.10 m @ 2.40 m high with one device					
Multi-devices for wide passageways	Yes. Up to 5 devices	Yes. Up to 5 devices through Ethernet cables				
Installation height range	From 2.4 m up to 4.0 m					
Jse environment	Indoor					
Counting accuracy	98%(1)					
People counting data communication	Real-time or at predefined time intervals	Predefined time intervals (min. of 1 minute)				
Electronics	PoE model	LoRa model				
Power source	RJ45 (PoE IEEE 802.3af)	Micro-USB (minimum 5 V - 2.5 A)				
Power consumption	10 W average	10 W average (min. recommended 12.5 W)				
ED indicators	Two LEDs					
nitialization time	Approx. 1 min					
Vechanics	PoE model	LoRa model				
Dimensions	Ø 130.0 mm x 36.2 mm					
Weight	220 g					
Housing material	PU 8150	ABS PA-557				
Color	White and Black (extra colors on demand)					
Operating temperature	0° to 35°C					
Storage temperature	-20° to 60°C					
Installation	On-ceiling mounting v	with provided mounting plate				
Networking	PoE model	LoRa model				
Communication interface	Gigabit Ethernet	WiFi Access Point for configuration and local upgrade. LoRaWAN (1.0.3, Classe A) for data transmission. Gigabit Ethernet ⁽²⁾				
Set up	Web GUI emb	bedded on the device				
Ethernet communication	PoE model	LoRa model				
Recommended cabling	Cat 6 or later					
Addressing	DH	CP, Static IP				
Device hostname	terabee-	terabee- <serial number=""></serial>				
Data protocols	HTTP/HTT	HTTP/HTTPS, MQTT/MQTTS				
Outbound traffic required on port	53, 80/443, 1883/8883, 1194					
Domain whitelisting	*.terabee.com					
LoRa communication	PoE model	LoRa model				
Supported LoRaWan frequencies	N/A	EU 863-870 MHz, US 902-928 MHz				
LoRaWAN activation methods	N/A	OTAA, ABP				
Antenna specification	N/A	'+0.8 dBi, VSWR ≤ 2				
Remote device configuration	N/A	LoRa downlink commands				
WiFi Access Point communication	PoE model	LoRa model				
Device hostname	N/A	terabee- <serial_number></serial_number>				
Services	PoE model	LoRa model				
Extended warranty		r and 2-Years				
Terabee loT platform (for data visualization)	Yes, optional	Not available through LoRa, possible through Ethernet				
Device Management Services	Yes, optional Not available through LoRa, possible through Ethernet					
Data hosting (when using Terabee IoT platform)	Cloud hosting (Datacenter in Amsterdam, Europe) Data storage for up to 2 years					
Conformity	PoE model	LoRa model				
Reference standard	CE, FCC, RoHS	CE, FCC, RoHS, UKCA				

⁽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. ⁽²⁾ On-demand, multi-device configuration or connection to Terabee services.

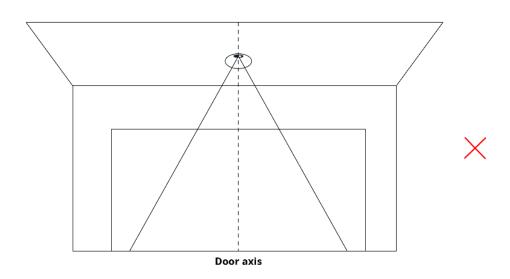


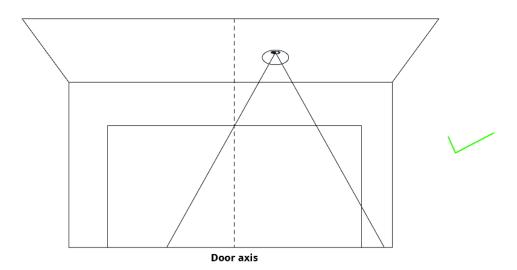
Single-device installation

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 the installation height:

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







Multi-device installation

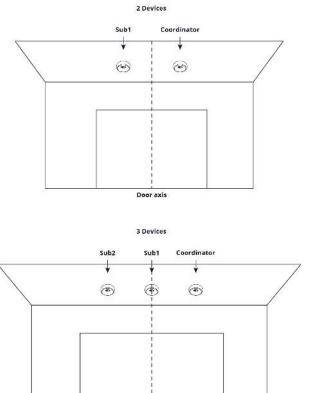
Up to five Terabee People Counting L-XL devices can be installed together to cover wider entrances and passageways (through Ethernet cables for LoRa model). One device acts as the coordinator and the others as subordinates.

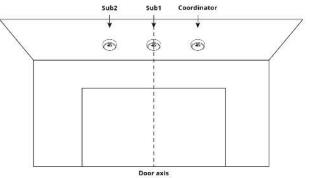
Installation height (m)	Max distance between devices (m)	Door coverage				
		1 device	2 devices	3 devices	4 devices	5 devices
2.40	0.80	1.50	2.30	3.10	3.90	4.70
2.50	0.90	1.55	2.45	3.35	4.25	5.15
2.60	1.00	1.60	2.60	3.60	4.60	5.60
2.70	1.10	1.70	2.80	3.90	5.00	6.10
2.80	1.20	1.80	3.00	4.20	5.40	6.60
2.90	1.35	1.90	3.25	4.60	5.95	7.30
3.00	1.50	2.10	3.60	5.10	6.60	8.10
3.10	1.65	2.20	3.85	5.50	7.15	8.80
3.20	1.80	2.30	4.10	5.90	7.70	9.50
3.30	1.95	2.40	4.35	6.30	8.25	10.20
3.40	2.10	3.20	4.60	6.70	8.80	10.90
3.50	2.25	2.50	4.85	7.10	9.35	11.60
3.60	2.40	2.60	5.15	7.55	9.95	12.35
3.70	2.55	2.75	5.45	8.00	10.55	13.10
3.80	2.70	2.90	5.75	8.45	11.15	13.85
3.90	3.85	3.05	6.05	8.90	11.75	14.60
4.00	3.00	3.40	6.40	9.40	12.40	15.40



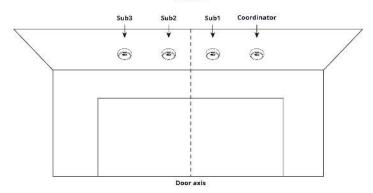
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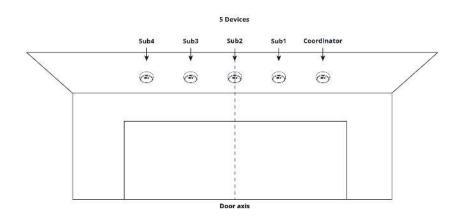
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Time-of-Flight advantages

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.



Any questions? Contact us today!

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