Milesight

# 3D ToF People Counting Sensor

ToF

People Counting


3D ToF | 99.5% Ultra-high Accuracy | Anonymous Detection | GDPR | Bi-directional | Detection in Darkness

**DATASHEET**

## KEY FEATURES

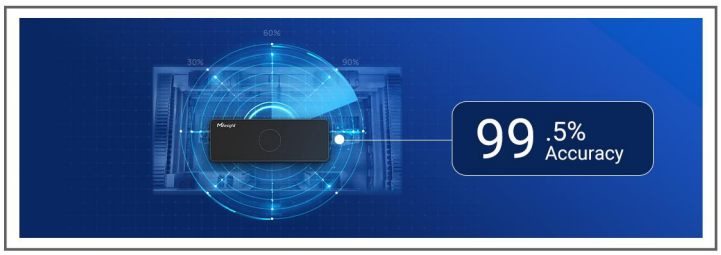
- Large Detection Area (A wide FoV coverage is essential for accurate people counting to precisely understand spaces.)
- Powerful Local Storage Capacity (Large storage capacity guarantees data security for some disconnect emergencies.)
- Easy Configuration (Equipped with Wi-Fi and Ethernet port for web GUI configuration.)
- Flexible Compatibility (Acquire people counting data either from Ethernet port (CGI) or LoRaWAN®.)
- Multiple Power Supply Modes (DC or PoE power supply are optional.)
- Exquisite Structure Design (Exquisite design for multiple installation scenarios. And support ceiling, embedded and wall installation, flexibly fits diverse application scenarios.)

### 100% Anonymous Detection with 3D ToF Technology

The 3D ToF People Counting Sensor is GDPR-compliant. By applying 3D ToF technology, it only gets 3D depth information and transmits them without involving personally identifiable information, 100% guaranteeing privacy protection at source.

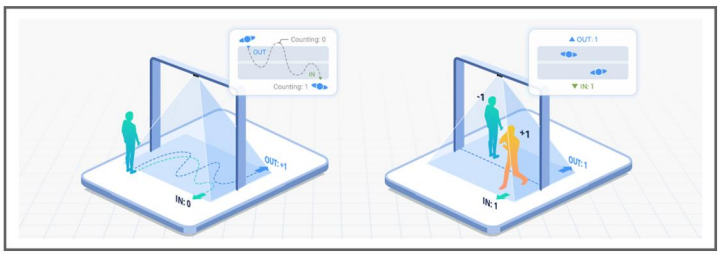

### 99.5% Ultra-high Accuracy

Breaking through the limitation of the RGB and AI technologies which impede the higher accuracy, the 3D ToF technology efficiently increase accuracy rate to 99.5% by 3D depth information.



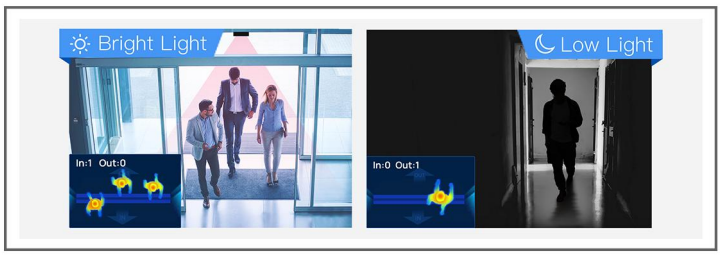

### Smart U-Turn Detection & Bi-directional Counting

By detecting the U-shape tracks of people flow, the sensor's accuracy is guaranteed to avoid unnecessary people counting. And Two-way detection enriches the applications of the 3D ToF People Counting Sensor. Counting people in and out concurrently is beneficial for more accurate and objective Information, reaching efficient management.



### Great Lighting Environments Adaptability

Independent of ambient light, the 3D ToF People Counting Sensor with active ToF light source realizes accurate detection even in the complete dark environments.

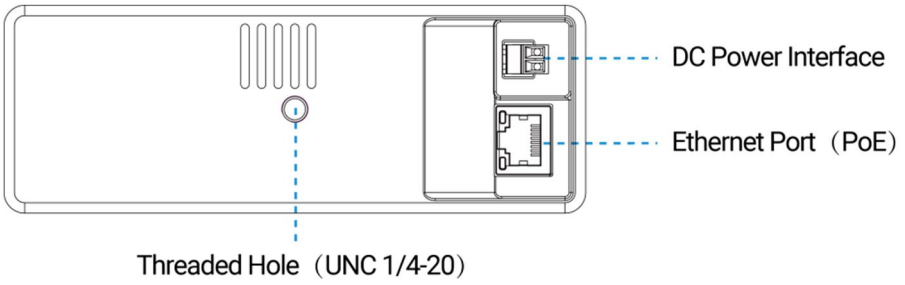


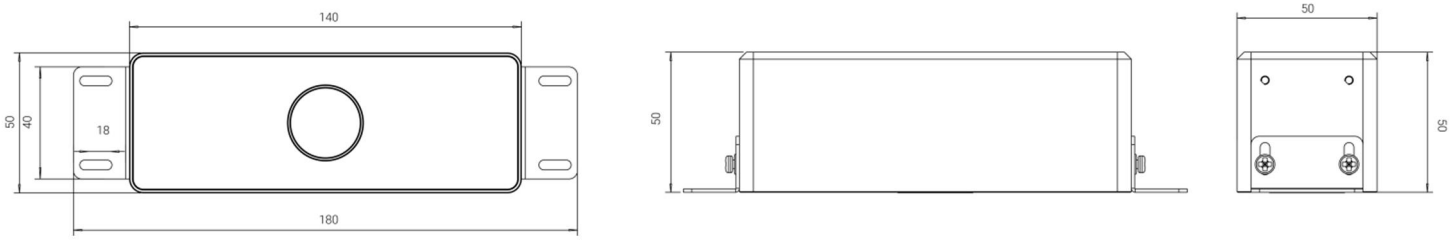
# 3D ToF People Counting Sensor

| Model | | VS132 |
|---|---|---|
| **Wireless Transmission** | Protocol | LoRaWAN® |
| | Frequency | CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923-1&2&3&4 |
| | Max Tx Power | 16 dBm (868 MHz)/22 dBm (915 MHz)/19 dBm (470 MHz) |
| | Sensitivity | -137 dBm @300bps |
| | Mode | OTAA/ABP Class C |
| **People Counting** | ToF FoV | 92.5° Horizontal, 67° Vertical |
| | Detection Range | 0.5 to 3m |
| | Installation Height | ≤ 3m |
| | Accuracy | Up to 99.5% |
| | Local Storage | 1, 000, 000 data records |
| | Advanced Setting | Entrance and exit area customization |
| **Interface** | Wi-Fi | IEEE 802.11 b/g/n, 2.4GHz, only support configuration |
| | Ethernet Port | 1×RJ45 10/100 Mbps Ethernet Port (PoE PD), provides CGI for integration |
| | Power Input | 2-pin 5.08 mm Terminal Block |
| **Physical Characteristics** | Power Supply | DC 12V/2A by Terminal Block<br>1×802.3 at PoE input |
| | Power Consumption | Typical 7.5 W, max 28 W |
| | Operating Temperature | -10°C ~ +60°C |
| | Storage Temperature | -20°C ~ +60°C |
| | Relative Humidity | 0 ~ 95% (Non-condensing) |
| | Color & Material | Black, Aluminum Alloy |
| | Weight | 296 g |
| | Dimension | 140×50×50 mm (5.51×1.97×1.97 in) |
| | Installation | Ceiling Mounting, Wall Mounting, Embedded Mounting |

# 3D ToF People Counting Sensor

## Structure Diagrams

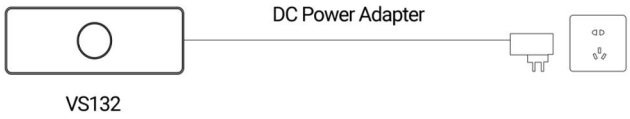


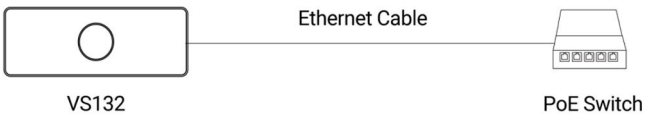

## Power Supply

VS132 can be powered by 802.3at standard PoE or power adapter (12VDC, 2A). If the both interfaces are connected, the device will be powered by the former method (PoE).

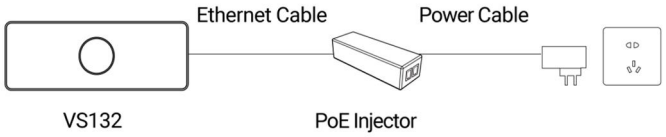
● Powered by DC Power Adapter




● Powered by a PoE Switch

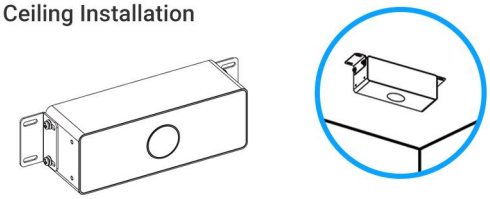



● Powered by a PoE Injector

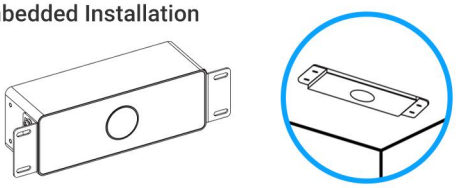



## Various Installation Mode

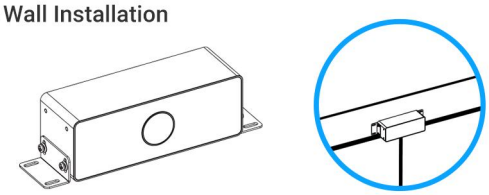
● Ceiling Installation



● Embedded Installation



● Wall Installation



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