

# AI Stereo Vision People Counter VS125

*Milesight*



VS125 is a professional people counting sensor based on deep learning AI and Binocular Stereo Vision technology. This sensor possesses an impressive accuracy of up to 99.8% in people counting, and it delivers exceptional performance even in low light environment and total darkness. In addition, it can perform rich attribute recognition, including gender, children, and staff. It is designed with privacy protections that comply with GDPR.

VS125 offer various connectivity options (Cellular and PoE) for seamless connectivity and efficient space management across applications. Additionally, it provides rich interfaces for versatile connection options (RS485/DO/DI), expanding the possibilities for integration and customization.

The device can be easily installed, making it ideal in retail stores, malls, offices, subways, and other locations.

## ◆ Features

### Highly-efficient Sensing Ability

- Up to 99.8% people counting accuracy with AI and stereo vision technology
- Great lighting adaptability that allows it to work well in low light environments and complete darkness
- With high ceiling mounting of up to 6m, support automatic tilt correction and automatic infrared light adjustment

- Customer-defined preview privacy settings, no data with personal information is transmitted, complies with GDPR
- Supports line crossing people counting, regional people counting and dwell time detection
- Rich attribute recognition capabilities, including gender, group counting, children and staff identification etc, provide deeper insights
- Supports heat map functionality for analyzing foot traffic intensity and distribution
- Supports view direction detection for retail layout and advertising optimization
- Supports Multi-Device Stitching which enables the linking of multiple devices, allowing for up to 16-device stitching to expand coverage
- Supports local data storage and data retransmission to ensure secure data collection

### Rich Connectivity Options

- Provide multiple connectivity options (PoE, Cellular)
- Supports RS485/DI/DO multiple interfaces and has strong scalability
- Allows quick and easy management via Milesight DeviceHub and the Milesight Development Platform
- High compatibility of data transmission with HTTP(s)/MQTT(s) protocol and API, supports customized push content methods
- BACnet/IP native integration for building management systems

## ◆ Specifications

| Version   | PoE Version  | Cellular Version   |
|---|--|--------------------|
| <b>Model Name</b>                               | <b>VS125-P</b>   | <b>VS125-L0BEU</b> |
| <b>Sensor</b>                                   |  |                    |
| Sensor  | 2 × 4MP Sensor (2688 × 1520)   |                    |
| Installation Height                             | 2.2 ~ 6m   |                    |
| FoV   | 101° Horizontal, 70° Vertical  |                    |
| Required Illumination                           | 0 lux with iR illuminators On  |                    |
| <b>Advanced Function</b>                        |  |                    |
| Bi-Directional People Counting                  | Up to 4 detection lines for bi-directional people counting   |                    |
| U-turn Filtering                                | Filter redundant counting of people wandering in the bi-directional people counting areas                      |                    |
| Regional People Counting & Dwell Time Detection | Up to 4 detection areas (up to 10 decagon for each area) for regional people counting and dwell time detection |                    |
| Children/Adult Differentiation                  | Support (Installation Height: 2.2 ~ 4m)  |                    |
| Staff Detection                                 |  |                    |
| Gender Recognition                              |  |                    |
| Group Counting                                  | Support  |                    |

|                                 |   |  |
|---------------------------------|---|--|
| Heat Map                        | Support   |  |
| View Direction Detection        | Support   |  |
| Multi-Device Stitching          | Support up to 16 devices stitching to expand coverage   |  |
| Validation                      | 8GB   |  |
| Data Retransmission             | Support 8 × 50000 data retransmission packets   |  |
| Local Storage                   | Stores up to one million data records and supports exporting CSV files                                |  |
| <b>Data Transmission</b>        |   |  |
| <b>Ethernet</b>                 |   |  |
| Ethernet Port                   | 1 × RJ45 10/100 Mbps (PoE PD)   | 1 × RJ45 10/100 Mbps   |
| Network Protocol                | MQTT(s), HTTP(s), 802.1x, SSH, NTP, OpenVPN, BACnet/IP, etc.  | MQTT(s), HTTP(s), SSH, NTP, OpenVPN, etc.                      |
| Ethernet Isolation              | 1.5 kV RMS  | -  |
| <b>Cellular</b>                 |   |  |
| Antenna                         | -   | Internal Antenna   |
| Network                         | -   | 4G LTE (CAT1)  |
| Frequency Band                  | -   | LTE-FDD: B1/B3/B5/B7/B8/B20/B28 for EMEA+Australia/New Zealand |
| SIM Slot                        | -   | 1 x Nano SIM (4FF) Slot, 1.8V/3V                               |
| <b>Other Interfaces</b>         |   |  |
| Power Connector                 | 1 × DC Jack Connector   |  |
| DI/DO                           | 1/2   |  |
| Serial Interface                | 1 × RS485 (Under Development)   |  |
| Wi-Fi                           | IEEE 802.11 b/g/n, 2.4GHz (AP Mode for configuration)   |  |
| Button                          | 1 × Reset/Wi-Fi Button  |  |
| LED Indicators                  | 1 × RGB LED indicator   |  |
| <b>Physical Characteristics</b> |   |  |
| Power Supply                    | 802.3af PoE or DC 12V/1A  | DC 12V/1A  |
| Power Consumption               | Avg. 5.9W<br>Max. 11.1W   | Avg. 5.1W<br>Max. 10W  |
| Operating Temperature           | -20°C ~ 50°C  |  |
| Relative Humidity               | 0 ~ 95% (Non-condensing)  |  |
| Ingress Protection              | IP40  |  |
| Dimension                       | 185 × 85 × 34 mm (7.26 × 3.35 × 1.34 in)  |  |
| Weight                          | 275g  | 272g   |
| Color                           | White or Black (Optional)   |  |
| Installation                    | Ceiling Mounting, Extended Ceiling Mounting & Lintel Mounting (with Optional Multifunctional Bracket) |  |

## Approvals

|             |         |    |
|-------------|---------|----|
| Regulatory  | CE, FCC | CE |
| Environment | RoHS    |    |

## ◆ Detection Area

| Installation Height (m) | Detection Area(m) |
|-------------------------|-------------------|
| 2.2                     | 1.21 × 0.7        |
| 2.5                     | 1.94 × 1.12       |
| 3.0                     | 3.16 × 1.82       |
| 3.5                     | 4.37 × 2.52       |
| 4.0                     | 5.58 × 3.22       |
| 4.5                     | 6.80 × 3.92       |
| 5.0                     | 8.01 × 4.62       |
| 5.5                     | 9.23 × 5.32       |
| 6.0                     | 10.44 × 6.02      |

## ◆ Dimensions (mm)

