

# AI Stereo Vision People Counter VS125

*Milesight*



VS125 is a professional people counting sensor that is 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. Besides that, it can achieve rich attributes recognition including gender and facial expressions. It is designed with privacy protection that complies with GDPR.

VS125 offers 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 VS125 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

- Support line crossing people counting, regional people counting and dwell time detection
- Rich attribute recognition abilities including gender, facial expression (*Under development*), group counting (*Under development*), children & staff identification etc, provide deeper insights
- Support shopping cart counting with different fill levels (*Under development*)
- Support Heat Map function for foot traffic intensity and distribution analysis (*Under development*)
- Support Multi-Device Stitching which enables the linking of multiple devices, allowing for up to 8 device stitching to expand coverage (*Under development*)
- Support local data storage and data retransmission function for secured data collection

### Rich Connectivity Options

- Provide multiple connectivity options (PoE, Cellular)
- Supports RS485/DI/DO multiple interfaces and has strong scalability
- Quick and easy management with Milesight DeviceHub and Milesight Development Platform
- High compatibility of data transmission with HTTP(s)/MQTT(s) protocol and API, supports customized push content and push method

## ◆ Specifications

Version	PoE Version	Cellular Version
Model Name	VS125-P	VS125-L0BEU
<b>Sensor</b>		
Sensor	2 x 4MP Sensor (2688 x 1520)	
Installation Height	2.2 ~ 6m	
FoV	Installation Height ≤ 3m: 103° Horizontal, 77° Vertical Installation Height ≤ 4m: 94° Horizontal, 68° Vertical Installation Height ≤ 5m: 89° Horizontal, 58° Vertical Installation Height ≤ 6m: 62° Horizontal, 41° Vertical	
Recognition Rate	Up to 99.8%	
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	
Group Counting	<i>Under development</i>	

Staff Detection	<i>Under development</i>	
Gender Recognition	Support	
Expression Recognition	<i>Under development</i>	
Heat Map	<i>Under development</i>	
Multi-Device Stitching	Support up to 8 devices stitching to expand coverage( <i>Under development</i> )	
Data Retransmission	Support 8 x 50000 data retransmission packets	
<b>Data Transmission</b>		
Ethernet Port	1 x RJ45 10/100 Mbps (PoE PD)	1 x RJ45 10/100 Mbps (Only used for Multi-Device stitching)
Network Protocol	MQTT(s), HTTP(s), 802.1x, SSH, NTP, etc.	MQTT(s), HTTP(s), SSH, NTP, etc.
Frequency Band	-	LTE (CAT 1): B1/B3/B5/B7/B8/B20/B28 for EMEA+Australia/New Zealand
SIM Slot	-	1 x Nano SIM (4FF) Slot
<b>Other Interfaces</b>		
Power Input	1 x DC Jack Connector	
DI/DO	1/1	
Serial Interface	1 x RS485 ( <i>Under development</i> )	
Wi-Fi	IEEE 802.11 b/g/n, 2.4GHz (AP Mode for configuration)	
Button	1 x Reset/Wi-Fi Button	
LED Indicators	1 x RGB LED indicator	
<b>Physical Characteristics</b>		
Local Storage	Store up to one million data records and supports to export csv file	
Power Supply	802.3af PoE or DC 12V/1A	DC 12V/1A
Power Consumption	5.9W	5.1W
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)	

## ◆ Detection Area

Installation Height (m)	Detection Area(m)
2.2	1.38 × 0.87

2.4	1.88 × 1.20
2.6	2.39 × 1.51
2.8	2.89 × 1.83
3.0	3.39 × 2.15
3.2	3.33 × 2.07
3.4	3.76 × 2.34
3.6	4.19 × 2.61
3.8	4.62 × 2.88
4.0	5.05 × 3.14
4.5	5.61 × 3.16
5.0	6.60 × 3.72
5.5	4.65 × 2.90
6.0	5.25 × 3.28

