AI Stereo Vision People Counter

VS125 Outdoor Series

VS125 Outdoor Series is a professional-grade people counting solution designed for outdoor environments. Designed to withstand harsh environments, it features an IP67 rating for water and dust resistance, along with protection against infrared/ultraviolet radiation and rain.

Powered by deep learning AI and binocular stereo vision, the sensor achieves up to 99.8% people counting accuracy even in low light or complete darkness. It also supports attribute recognition such as gender, children, and staff detection, while fully complying with GDPR privacy standards.

The device offers flexible connectivity options including Cellular and PoE, as well as expansion interfaces such as RS485, DO, and DI, enabling seamless integration and efficient space management in a wide range of outdoor applications.

The device can be used in places like scenic spots, streets, parks, outdoor activities,etc.



◆ Features

Highly-efficient Sensing Ability

- Up to 99.8% people counting accuracy with AI and stereo vision technology
- IP67-rated waterproof and dustproof housing ensures reliable outdoor performance across a wide temperature range
- Excellent light adaptability for reliable performance in low light and total darkness
- Supports ceiling mounting up to 6 m, with automatic tilt correction and 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
- Advanced attribute recognition including gender, group, children, and staff identification enabling deeper insights
- Supports heat map functionality for analyzing foot traffic intensity and distribution
- Supports Multi-Device stitching for linking up to 16 devices 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 Development Platform
- High compatibility of data transmission with HTTP(s)/MQTT(s) protocol and API, supports customized push content methods

◆ Specifications

Version	**PoE Version**	**Cellular Version**
Model Name	**VS125-O-P**	**VS125-O-L0BEU**
Sensor		
Sensor	2 × 4MP Sensor (2688 × 1520)	
Installation Height	2.2 ~ 6m	
FoV	101° Horizontal, 70° Vertical	
Required Illumination	0 lux with iR illuminators On	
Advanced Function		
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	Up to 4 detection areas (up to 10 decagon for each area) for regional people counting	

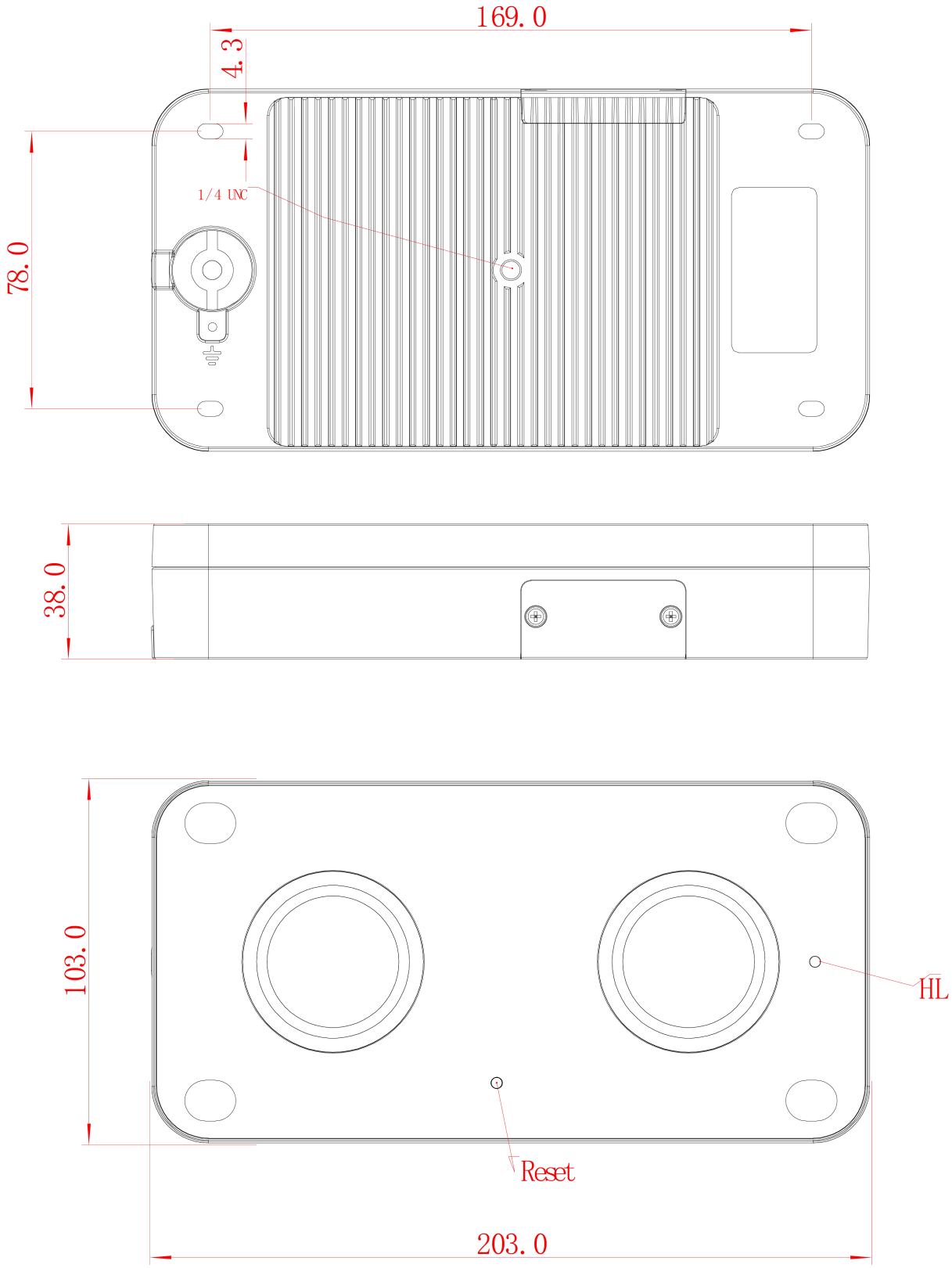
& Dwell Time Detection	and dwell time detection	
Children/Adult Differentiation	Support (Installation Height: 2.2 ~ 4m)	
Staff Detection		
Gender Recognition		
Heat Map	Support	
Group Counting	Support	
Multi-Device Stitching	Support up to 16 devices stitching to expand coverage	
Memory Validation	8GB	
Data Retransmission	Support 8 × 50000 data retransmission packets	
Local Storage	Store up to one million data records and supports CSV file export	
Data Transmission		
Ethernet Port	1 × RJ45 10/100 Mbps (PoE PD)	1 × RJ45 10/100 Mbps
Network Protocol	MQTT(s), HTTP(s), 802.1x, SSH, NTP, etc.	MQTT(s), HTTP(s), SSH, NTP, etc.
Ethernet Isolation	1.5 kV RMS	-
Cellular		
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 × Nano SIM (4FF), 1.8V/3V
Other Interfaces		
Power Input	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	
Physical Characteristics		
Power Supply	802.3af PoE or DC 12V/1A	DC 12V/1A
Power Consumption	Avg. 5.9W Max. 11.1W	Avg. 5.1W Max. 10W
Operating Temperature	-20°C ~ 65°C	
Relative Humidity	0 ~ 95% (Non-condensing)	
Ingress Protection	IP67	
Dimension	202 × 102 × 38 mm (7.95 × 4.02 × 1.50 in)	
Weight	715g	713g

Color	Black	
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)
2.2	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)


169.0
4.3
1/4 UNC
78.0
38.0
103.0
HL
Reset
203.0