

Advanced Staff Detection Kit VA05

Milesight

VA05 is a high-precision staff identification and positioning solution. Leveraging advanced UWB (Ultra Wide Band) technology, it achieves up to 99% accuracy in staff identification and counting. This solution addresses key challenges in traditional staff identification methods, including wearability limitations, charging inconvenience, and inefficient storage. With its lightweight and discreet design, the VA05 meets the demands of high-end retail environments for unobtrusive staff identification and accurate foot traffic analysis. It integrates seamlessly with VS series devices to support staff trajectory analysis and resource optimization, enabling more intelligent and refined personnel management for retail businesses.

VA05 can be used in retail environments, such as stores and similar scenarios.



- 1: **Anchor**, used to identify and receive tag signals for positioning.
- 2: **Tag**, worn by personnel to transmit positioning signals.
- 3: **Charging Base**, provides a charging for the tag.

◆ Features

- Compliant with International UWB Standard, IEEE 802.15.4.
- Achieves up to 99% accuracy in staff identification and counting, ensuring precise foot traffic data.
- Ultra-compact and lightweight, the tag fits easily into a pocket for a truly unobtrusive wearing experience.
- Comes with a charging cradle that charges and stores tags simultaneously, simplifying daily management.
- Supports magnetic charging, enhancing user convenience and operational efficiency.
- Designed to last throughout full retail operating hours, from opening to closing.
- Works in tandem with Milesight VS series devices for staff location tracking and movement analysis.
- Unified industrial design across base stations and tags, enhancing brand perception and user experience.

◆ Specifications

Anchor

Model	VA05-A
Technology	UWB
Installation Height	1.9m~3.5m
FoV	120° Horizontal, 120° Vertical
UWB Band	7.75GHz ~ 8.25GHz (Channel 9)
Applicable Model	VS125-LW: Hardware v1.1 and later, Firmware v1.0.5 and later VS125: Hardware v2.2 and later, Firmware v1.0.6 and later
Wireless Transmission	
Protocol	Bluetooth 5.3
Antenna	Internal Antenna
Tx Power	6 dBm
Other Interfaces	
LED Indicators	1 × LED Indicator
Physical Characteristics	
Power Supply	DC 3.3V/ 0.5A by UART Serial Port
Power Consumption	Typical: < 300 mW

Dimension	Φ 90 × 59.5 mm (Φ 3.54 × 2.34 in)
Weight	110.85 g
Ingress Protection	IP40
Housing&Color	ABS+PC (UL94 V2), White&Black
Environment&Reliability	
Operating Temperature	-20°C ~ 60°C
Relative Humidity	0 ~ 95% (non-condensing)
MTBF	150,000 hours
Regulatory	CE, FCC
Environment	RoHS

Tag

Model	VA05-T
Technology	UWB
UWB Band	7.75GHz ~ 8.25GHz (Channel 9)
Wireless Transmission	
Protocol	Bluetooth 5.3
Antenna	Internal Antenna
Tx Power	6 dBm
Other Interfaces	
LED Indicators	1 × LED Indicator
Button	1 × Multi-function Button
Physical Characteristics	
Power Supply	1 × 450 mAh UFX702035 Lithium Polymer Rechargeable Battery
Power Consumption	Typical: < 30 mW Start-up: ≤ 136.38 mW Sleep: ≤ 62.9 μW (Test condition: VDD = 3.7 V)
Dimension	68.2 × 50 × 12.3 mm (2.67 × 1.97 × 0.48 in)
Weight	29.7 g
Ingress Protection	IP40
Housing&Color	ABS (UL94 V2), White
Battery Characteristics	

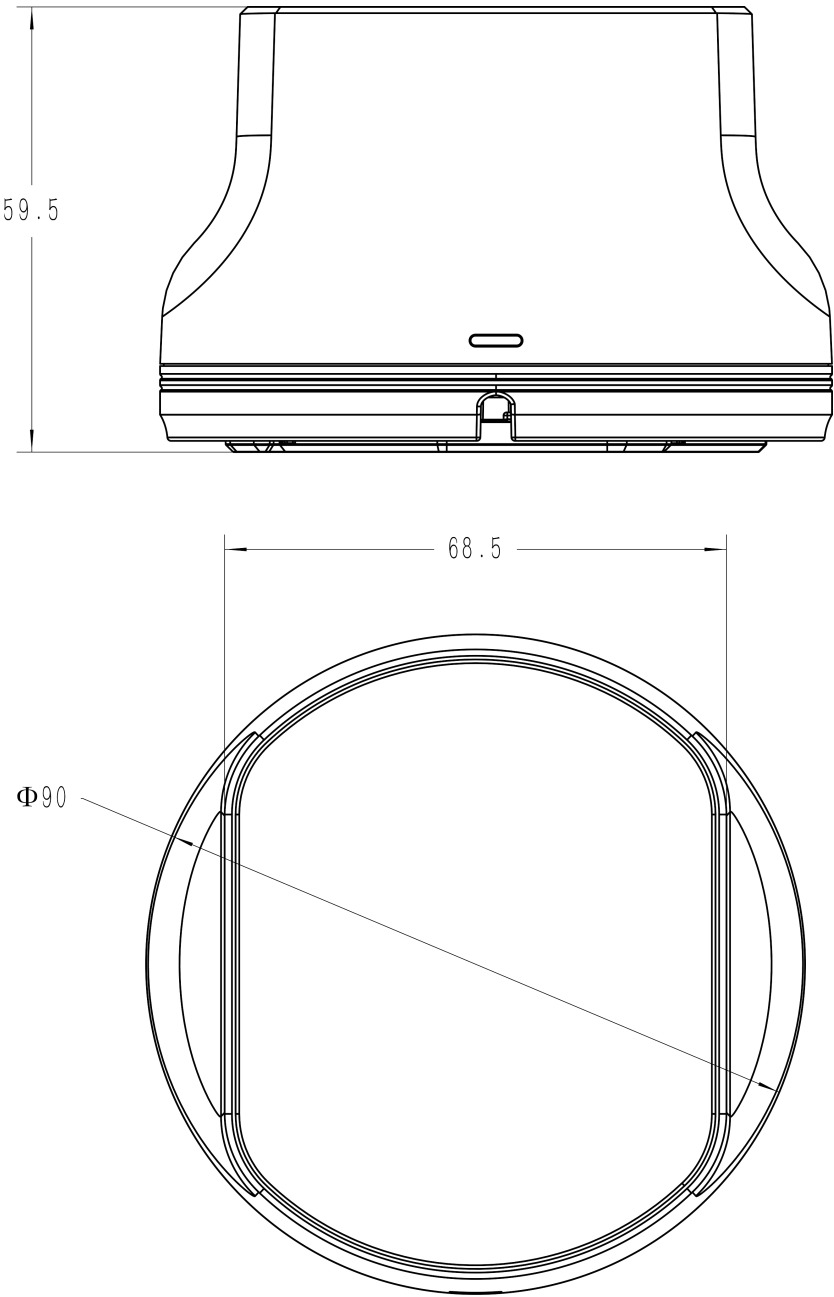
Battery Life	Around 3 days (24-h Operation)
Battery Health	500 Cycles
Battery Charge	DC 5V/0.2A via Pogo pin (by VA05-CB)
Environment&Reliability	
Operating Temperature	-20°C ~ 60°C
Relative Humidity	0 ~ 95% (non-condensing)
MTBF	150,000 hours
Regulatory	CE, FCC
Environment	RoHS

Charging Base

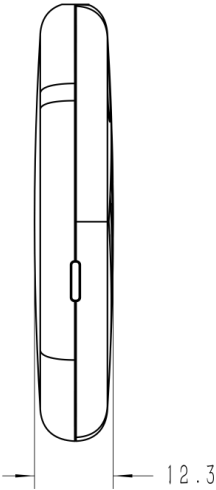
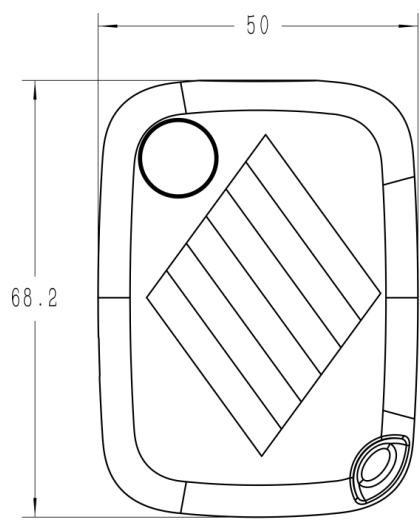
Model	VA05-CB
Charging Slot	Slot Number: 5 Charging Type: Pogo Pin Power Output: 5V/0.2A per slot
LED Indicators	1 × LED Indicator
Power Input	1 × Type-C Cable
Physical Characteristics	
Power Supply	DC 5V/2A by Type-C Port
Power Consumption	Under Full Load: < 300 mW
Dimension	176.5 × 80.6 × 42.2 mm (6.95 × 3.17 × 1.66 in)
Weight	236.1 g
Ingress Protection	IP30
Housing&Color	ABS+PC (UL94 V2), White
Environment&Reliability	
MTBF	150,000 hours
Operating Temperature	-20°C ~ 60°C
Relative Humidity	0 ~ 95% (non-condensing)
Regulatory	CE, FCC
Environment	RoHS

◆ Dimensions (mm)

VA05-A:



VA05-T:



VA05-CB:

