Milesight

# Al Stereo Vision People Counter

## VS125

User Guide



#### **Safety Precautions**

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Milesight will not shoulder responsibility for any loss or damage resulting from not following the instructions of this operating guide.

- The device must not be disassembled or remodeled in any way.
- To avoid risk of fire and electric shock, do keep the product away from rain and moisture before installation.
- Do not place the device where the temperature is below/above the operating range.
- **\*** Do not touch the device directly to avoid the scalds when the device is running.
- The device must never be subjected to shocks or impacts.
- Make sure the device is firmly fixed when installing.
- Do not expose the device to where laser beam equipment is used.
- Use a soft, dry cloth to clean the lens of the device.

#### **Declaration of Conformity**

VS125 is in conformity with the essential requirements and other relevant provisions of the CE, FCC, and RoHS.



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#### **Revision History**

Date	Doc Version	Description
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## 1. Product Introduction

### 1.1 Overview

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.

## 1.2 Key Features

- 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
- 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

## 2. Hardware Introduction

2.1 Packing List







1 × VS125 Device

4 × Ceiling Mounting Kits

1 × Multi-interface Cable





1 × Warranty Card



1 × VB01 Multifunctional Bracket Kit (Optional)

#### **Cellular Version Only Accessories**





1 x Power Adapter



#### **PoE Version Only Accessories**



1 x Power Adapter (Optional)



If any of the above items is missing or damaged, please contact your sales representative.

## 2.2 Hardware Overview

• Cellular Version:

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Reset/Wi-Fi Button

## 2.3 Button Descriptions

Function	Action	LED Indication
Turn On/Off Wi-Fi	Press and hold the power button for more than 3 seconds.	Turn On/Off: Blue light blinks for 3 seconds. Wi-Fi On: Blue light on. Wi-Fi Off: Green light on.
Reset to Factory Default	Press and hold the power button for more than 10 seconds.	Green light blinks until the reset process is completed.

## 2.4 Dimensions (mm)



## 2.5 SIM Card Installation (Cellular Version Only)

**Step 1:** Remove the cover plate.



Step 2: Use the SIM-eject tool to pop open the SIM tray.



**Step 3:** Place the Nano SIM card into the sim card slot and insert it back to device.



## 3. Power Supply

• Powered by DC Power Adapter (12V, 1A)



• Powered by PoE Switch (PoE Version Only, 802.3af standard)



**Note:** Ensure the length of the Ethernet Cable crystal head is less than 40mm.



## 4. Access the Sensor

VS125 provides user-friendly web GUI for configuration access via Wi-Fi or Ethernet port. Users need to customize the password when using the device for the first time. The default settings are as below:

Wi-Fi SSID: People Counter\_xxxxxx (can be found on the device label)

Wi-Fi IP: 192.168.1.1

Ethernet IP: 192.168.5.220 (PoE Version Only)

Step 1:

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- Wireless Method: Enable the Wireless Network Connection on your computer, search for corresponding for Wi-Fi SSID to connect it, then type 192.168.1.1 to access the web GUI.
- Wired Method (PoE Version Only): Connect the device to computer via Ethernet port, change the IP address of computer to 192.168.5.0 segment as below:
  - a. Go to Start → Control Panel → Network and Internet → Network and Sharing
     Center → Ethernet → Properties → Internet Protocol Version 4 (TCP/IPv4).

→ 、 小 菜 > Control F	Panel > Network and Internet > Network and	Sharing Center
Control Panel Home	View your basic network inform	ation and set up connections
	View your active networks	
Change adapter settings		
Change advanced sharing	Milesight 5G	Access type: Internet
ettings	Public network	Connections: U Ethernet
Media streaming options		
	Change your networking settings	Ethernet
	Set up a new connection or net	work
	Set up a broadband, dial-up, or	VPN connection; or set up a router or access point.
	Troubleshoot problems	
	Diagnose and repair network pro	oblems, or get troubleshooting information.

b. Enter an IP address that in the same segment with sensor (e.g. 192.168.5.61, but please note that this IP address shall not conflict with the IP address on the existed network).

eneral	
• Use the following IP ad	dress:
IP address:	192.168.5.61
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192 . 168 . 5 . 220
Obtain DNS server add • Use the following DNS s Preferred DNS server: Alternate DNS server:	
Alternate bits server.	
🗌 Vaļidate settings upon	exit Ad <u>v</u> anced

Then open the Browser and type 192.168.5.220 to access the web GUI.

**Step 2:** Users need to set the password and three security questions when using the sensor for the first time.

Step 3: Configure the privacy settings to select preview image modes on the dashboard.

**Note:** If you need to reset the privacy settings, hold on reset button for 10s to reset device to factory default.



Parameters	Description
Scene Preview	Select video stream preview, static image preview or no image preview as needed.
Image Type	Select Monochrome or Pseudo-color image type.
	Click to output high level signal from alarm out interface when Manual DO event is enabled.
Resolution	<ul><li>Low: Display blurred images, but still allow viewing of scenes and moving people</li><li>High: Display clear scenes and people faces</li></ul>

Step 4: After configuration, log in with username (admin) and custom password.

#### Note:

- 1) Password must be 8 to 16 characters long, which contains at least two kinds or more in combination with numbers, lowercase letters, uppercase letters and special characters.
- You can click the "forgot password" in login page to reset the password by answering three security questions when you forget the password if you set the security questions in advance.

		English 3
I Activation Username admin Password Confirm At least: • 8 characters • 2 types of characters: Number, letter an	nd symbol	
Set Security Questions		English >
Answer1 Security Question2 What is Answer2	your lucky number?	

## 5. Operation Guide

## 5.1 Dashboard

After logging on to the device web GUI successfully, user is allowed to view live video as following.

▶ Dashboard         ■ Dashboard         ■ Rule         ■ Communication         ● Report         ■ Image         ■ Image         ● System	Chiefe In 3 Female In 18 Chiefen In 19 Tot Tot 10 Tot 10 10 10 10 10 10 10 10 10 10	out city 55 0 Male Capacity 54 0 Female Dut Female Capacity 109 0 Children Capacity 109 0 Children Capacity 109 0 Children Capacity 100		
Paramete	ers	Description		
		Hide Capacity: Hide the total count data capacity; Children Excluded: Exclude children data from statistical data.		
Reset Co	unt	Clear all accumulated entrance and exit people counting values.		
<b>8 1</b>	\$	Click to show detection lines, U-turn areas, detection regions and tracking lines as needed.		

## 5.2 Rule

## **Draw Detection Lines**

Users can draw detection lines to record the people count values which indicate the number of people enter or exit.

**Step 1:** Find the list of detection lines. Click **+Add** to draw a new detection line or click to edit the existed detection line on the live view.



**Step 2:** Left-click to start drawing and drag the mouse to draw a line, left-click again to continue drawing a different direction edge, and right-click the mouse to complete the drawing. The line can be dragged to adjust the location and length. One device supports at most 4 broken lines with maximum 4 segments each.

*Step 3:* If users want to redraw this line, click **Clear This Line** or drag the vertices of the broken line to adjust. The arrow direction of the detection line depends on your drawing direction. If



users need to flip the line, click **Flip Direction.** Then click to finish drawing.

**Step 4:** Users can click <sup>C</sup> to customize the name of line. If users need to delete a certain line, click <sup>C</sup>.

#### Note:

- Ensure that the detected target can pass through the detection line completely. It's recommended that the detection line is perpendicular to the In/Out direction and on the center of the detection area without other objects around.
- Redundant identification spaces are needed on both sides of the detection line for the target detection. It ensures the stable recognition and tracking of the target before passing the detection line, which will make the detection and count more accurate.

#### **Draw U-turn Area**

VS125 supports the U-turn filtering function, filtering out the people who are actually not in / out of the entrance, to avoid repeated counting. Users can draw an area for every line and the device will count the In and Out values only when people pass this area.

**Disable U-turn filtering:** 



Enable U-turn filtering:



**Step 1:** Enable U-turn Filtering. Users can click <sup>1</sup> to edit U-turn areas for existed detection line on the live view.



**Step 2:** Left-click to start drawing and drag the mouse to draw an edge. Then left-click again to continue drawing a different direction edge. Right-click the mouse to complete the drawing. The area can be dragged to adjust the location and length. One device supports up to 4 areas with maximum 10 segments each.

Step3: If users want to redraw the area, click Clear This Area or drag the vertices of the area to

adjust. Then click to finish drawing.

Step 4: If users need to delete a certain U-turn area, click is then click Clear This Area.



#### **Draw Monitoring Region**

VS125 supports monitoring the number and the dwell time of people in the region, providing more valuable analysis data.

**Step 1:** Enable Region Monitoring. Click **+Add** to add the region monitoring on the live view. Up to 4 regions are supported with maximum 10 segments each.

Milesight Dashboard Rule Communication		Children&Adult Differentiation Gender Recognition Line Cross Counting U-turn Filtering	
<ul> <li>Report</li> <li>Image</li> <li>System</li> </ul>	Line2	Line No. Line Name No.3 Line1 No.2 Line2 +Add Region Monitoring	Operation : : : : : : : : : : : : : : : : : : :
⊠ English > ▲ admin →	Clear This Area	Region No. Region Name Advanced Properties Please finish drawing on the left canve + Add Reset Cumulative Count on Schedule ③ Time of Reset Everyday ① ③ 00:	25.

*Step 2:* Customize the zone name and enable Region People Counting or Dwell Time Detection as needed.

Advanced Propertie	S	
Zone Name	Region1	
Region People Counting		
Pass-by Filtering s(0~3600)	5	
Dwell Time Detection		
Min. Dwell Time s(0~3600)	5	
		× ✓

**Step 3:** The configuration is displayed in the list after the configuration is complete. You can redraw the areas by clicking the redraw button in the list. Click the edit button to modify the advanced settings of the areas or click delete button to delete the areas separately.

No.	Region Name	Advanced Properties	Operation
No.1	Region1	Region People Counting(5s)	

#### **Rule Configuration**

Users can set the rules to ensure accurate counting.



Parameters	Description
	Set the device installation height. Click Detect to detect the current
Installation Height	installation height automatically.
	Note: When the ground lacks patterns or textures or during low-light

	conditions at night, the automatic height detection may be inaccurate.				
Max. Target	Set the maximum target height, then the device will ignore the objects				
Height	higher than this setting value.				
Min. Target Height	Set the minimum target height, then the device will ignore the object				
	shorter than this setting value.				
Tracking Mode	Select the tracking mode of counting, including Heads Tracking and Feet				
	Tracking.				
Children & Adult Differentiation	The device will detect the people shorter than child filter height as children.				
Gender	The device will detect the people who are male or female.				
Recognition					
<u>U-turn Filtering</u>	Enable or disable U-turn Filtering.				
Region Monitoring	Enable or disable Region Monitoring.				
	Enable to periodically reset cumulative count on schedule.				
<b>Reset Cumulative</b>	Cumulative Count includes:				
Count on Schedule	Total In/Out counting of each detection line.				
	Max./Avg. Dwell Time of each detection region.				

## 5.3 Communication

## 5.3.1 Network Configuration

VS125 supports variety of ways for data transmission.

## Cellular (Cellular Version Only)

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<b>I™I</b> llesignt	Cellular		I WLAN		
all Dashboard	Cellular Status	Disconnected Detail	Enable WLAN		
📰 Rule	Cellular Settings		WLAN Settings		
Communication	Central Sectings		T WEAR Settings		
🔮 Report	APN		WI-FI SSID	People Counter_343537	
🖾 Image	Username		WLAN IP Address	192.168.1.1	
System	Password		Protocol	802.11n (2.4G)	٥
	PIN Code		Bandwidth	20MHZ	٢
	Authentication Type	None	Channel	Auto	٥)
	Restart When Dial-up failed	C	Security Mode	No Encryption	\$
	ICMP Server	8.8.8.8			×
	ICMP Detection Max Retries	3			~
	ICMP Detection Timeout s(1-604800)	5			
	ICMP Detection Interval s(1-604800)	15			
🛤 English >		×			
💄 admin 🔹		<u>~</u>			$\mathbf{O}$

Pa	rameters	Description		
Cellular	Cellular Status	Display the connection status of the network, including "connect" and "disconnect". You can also click "Detail" button to view the cellular status.		
	APN	Enter the Access Point Name for cellular dial-up connection provided by local ISP. The max length is 31 characters.		
	Username	Enter the username for cellular dial-up connection provided by local ISP. The max length is 31 characters.		
	Password	Enter the password for cellular dial-up connection provided by local ISP. The max length is 31 characters.		
	PIN Code	Enter a 4-8 characters PIN code to unlock the SIM.		
	Authentication Type	Select the Authentication Type. None, PAP, CHAP, PAP and CHAP are optional.		
Cellular	Roaming	Click to enable the Roaming.		
Settings	Restart When Dial-up Failed	Enable automatic device restart when multiple dial-up failed.		
	ICMP Server	Configure the IP address of the ICMP detection server.		
	ICMP Detection Max Retries	Set the maximum number of retries when ICMP detection failed.		
	ICMP Detection Timeout	Configure ICMP detection timeout.		
	ICMP Detection Interval	Configure ICMP detection interval.		

#### **Cellular Status**

Pai	rameters	Description
	Refresh	Click this button to manually refresh the above status.
Cellular Status	Modem Status	<ul><li>Show the corresponding detection status of the module and</li><li>SIM card.</li><li>No SIM Card</li></ul>

	SIM Card Error			
	PN Error			
	PIN Required			
	PUK Required			
	No Signal			
	Ready			
	Down SIM			
Model	Show the model name of the cellular module			
Version	Show the version of the cellular module.			
Signal Level	Show the current signal strength of the network.			
Register Status	Show the connection status of the network, including "connect" and "disconnect".			
IMEI	Show the IMEI of the module.			
IMSI	Show IMSI of the SIM card.			
ICCID	Show ICCID of the SIM card.			
ISP	Show the network provider which the SIM card registers on. Note: It will display "-" when the SIM card is not inserted or not recognized.			
	Show the connected network type, such as LTE and 3G.			
Network Type	<b>Note:</b> It will display "-" when the device is not connected to network.			
PLMN ID	Show the current PLMNID, including MCC, MNC, LAC, and Cell ID.			
LAC	Show the location code of the SIM card. <b>Note:</b> It will display "-" when the SIM card is not inserted or not recognized.			
	Show the Cell ID of the SIM card location.			
Cell ID	Note: It will display "-" when the SIM card is not inserted or not recognized.			
Network Status				
IP Address	Show the Network Statue ID Address Network Catework and			
Netmask	Show the Network Status, IP Address, Netmask, Gateway and DNS Address of the current network. If the SIM card is not			
Gateway	inserted or not recognized, it will display 0.0.0.0.			
DNS				
Connection				
Duration	Show the cellular dial-up connection duration.			

TCP/IP & HTTP/HTTPs (PoE Version Only)

ight TCP/IP		I WLAN		
oard IP Assignment	Manual Automatic (DHCP)	Enable WLAN		
IP Address	192.168.60.165 Test	WLAN Settings		
Subnet Mask	255.255.255.0	Wi-Fi SSID	People Counter_DC056F	
Default Gateway	192.168.60.1	WLAN IP Address	192.168.1.1	
n Primary DNS Server	8.8.8.8	Protocol	802.11n (2.4G)	3
Secondary DNS Server	114.114.114.114	Bandwidth	40MHZ	<
· · · · · · · · · · · · · · · · · · ·	× -	Channel	Auto	
HTTP/HTTPs		Security Mode	No Encryption	
нттр				× -
HTTP Port (1~65535)	80			
нттря				
HTTPS Port (1-65535)	443			
Certificate Installation Met	hod Create Self-Signed Certificate			
ih > Certificate	Update Show Properties			
1. ×				

Parameters	Description		
TCP/IP			
IP Assignment	Manual or Automatic (DHCP) is optional.		
IP Address	Set the IPv4 address of the Ethernet port, the default IP is <b>192.168.5.220</b> .		
Test	Click to test if the IP is conflicting.		
Subnet Mask	Set the Netmask for the Ethernet port.		
Default Gateway	Set the gateway for the Ethernet port's IPv4 address.		
Primary DNS Server Set the primary IPv4 DNS server.			
Secondary DNS Server	Set the secondary IPv4 DNS server.		
HTTP/HTTPs			
HTTP	Start or stop using HTTP.		
HTTP Port	Web GUI login port, the default is 80.		
HTTPS	Start or stop using HTTPS.		
HTTPS Port	Web GUI login port via HTTPS, the default is 443.		
Certificate Installation	Create Self-signed Certificate: upload the custom CA certificate,		
Method	client certificate and secret key for verification.		
Certificate	Create the SSL certificate.		

## 802.1x Protocol (PoE Version Only)

The IEEE 802.1x is an authentication protocol to allow access to networks with the use of RADIUS server.



Parameters	Description
Authentication Type	It's fixed as MD5-Challenge.
Enable	Enable or disable 802.1x authentication.
EAPOL Protocol Version	802.1x-2001 or 802.1x-2004 is optional.
Username	Set the username for 802.1x authentication.
Password	Set the password for 802.1x authentication.
Confirm Password	Enter the password again.

WLAN

WLAN		
Enable WLAN		
WLAN Settings		
Wi-Fi SSID	People Counter_DC056	F
WLAN IP Address	192.168.1.1	
Protocol	802.11n (2.4G)	Ŷ
Bandwidth	40MHZ	Ŷ
Channel	Auto	¢
Security Mode	No Encryption	\$

Parameters	Description
Enable WLAN	Enable or disable Wi-Fi feature. If disabled, users can use button to enable it.
Wi-Fi SSID	The unique name for this device Wi-Fi access point, defined as People Counter_xxxxxx (can be found on the device label).
WLAN IP Address	Configure WLAN IP address for web access, the default IP address is 192.168.1.1.
Protocol	802.11g (2.4 GHz) and 802.11n (2.4 GHz) are optional.
Bandwidth	20 MHz or 40 MHz are optional.
Channel	Select the wireless channel. Auto, 1,11 are optional.
Security Mode	No Encryption, WPA-PSK, WPA2-PSK and WPA-PSK/WPA2-PSK are optional.
Cipher	AES, TKIP, AES/TKIP are optional.
Wi-Fi Password	Customize the password when security mode is not No Encryption.

## 5.3.2 Recipient & API

#### Recipient

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VS125 supports to add data receivers (supports HTTP(s)/MQTT(s)). The device will proactively push data to the receivers according to the configured reporting scheme. Besides, users can get the people counting data or configure the device via CGI. For CGI document, please contact Milesight IoT support: iot.support@milesight.com.

Recipient Name	URL/Host	Protocol	Status	Operation
Recipient	https://data	HTTP(S)	Connected	6

Parameters	Description	
Recipient Name	Show the recipient name.	
URL/Host	Show the URL/host of HTTP(s) server or MQTT broker.	
Protocol	Show the report protocol.	
Status	Show connection status from device to HTTP(s) server or MQTT broker.	
Operation	Click to edit the information or delete the recipient.	

Note: Up to 8 receivers can be added.

<b>M</b> ilesight	1 Recipient			_		
🔟 Dashboard	Recipient Name URL/Host	Recipient Settings				
📰 Rule	+	Recipient Name	Recipient			
		Report Protocol	MQTT			
Report		Host				
🖪 Image						
System		Port (1-65535)				
		ClientID				
		Username				
		Password			QoS 0	
		Торіс				
		QoS	QoS 0 0			×
		TLS				<b>_</b>
🖽 English >			×			
🛓 admin >						•

Milesight	
Dashboard     Recipien	t Name URU/Host
Communication	Trigger Report ()
C Report	Periodic Report
🖪 Image	Period Th C
System	Data Retransmission
	Customize Report Content
	B Device Info     If Time Info
	S Network     QoS 9
	🖬 Line Periodic Data
	Region Periodic Data     Line/Region Name     Line/Region UUD
⊠ English >	x < v
🛓 admin >	
Parameters	Description
Recipient Name	Customize the recipient name.
Report Protocol	HTTP(s) or MQTT is optional.
HTTP(s)	
URL	The device will post the people counting data in json format to this URL.
Connection Test	Click <b>Test</b> to send test message to URL to check connectivity.
Username	The username used for authentication.
Password	The password used for authentication.
MQTT	
Host	MQTT broker address to receive data.
Port	MQTT broker port to receive data.
	Client ID is the unique identity of the client to the server.
Client ID	It must be unique when all clients are connected to the same server, and it
onent ib	is the key to handle messages at QoS 1 and 2.
Username	The username used for connecting to the MQTT broker.
Password	The password used for connecting to the MQTT broker.
Topic	Topic name used for publishing.
QoS	QoS0, QoS1, and QoS2 are optional.
TLS	Enable the TLS encryption in MQTT communication.
	CA Signed Server or Self Signed is optional.
	<b>CA signed server certificate:</b> verifying with the certificate issued by
Certificate Type	Certificate Authority (CA) that is pre-loaded on the device.
	Self signed certificates: upload the custom CA certificates, client
	certificates and secret key for verification.
Report Strategy	
	Report immediately when there is a change of the line crossing people
Trigger Report	counting number or region people counting number.
Periodic Report	Select the periodic report of "On the Dot" or "From Now On".
Periodic Report	<b>On the Dot:</b> The device will report at the top of each hour. For example,

Scheme	When the interval	is set to 1 ho	ur, it will report at 0:00, 1:00, 2:00 and so on
	when the interval	is set to 10 r	ninutes, it will report at 0:10, 0:20, 0:30, and
	so on.		
Period	From Now On: Be	ain reporting	g from this moment onwards and regularly
	report based on th	• • •	
	•	-	
Data		•	backets from the disconnected period wher
	the device's netw	ork connecti	on is restored. Every recipient supports to
Retransmission	receive 50,000 pie	ces of data a	it most.
	Customizable sele	ction of cont	tent to be reported, avoiding data
redundancy.			
	Customize Report Conten	t	
	👻 🗹 Device Info		
	Device Name	Device SN	Z Device MAC
	IP Address	🗹 Custom Device ID	Custom Site ID
	🔽 Running Time	Firmware Version	Hardware Version
	👻 🛄 Time Info		
	Trigger Time	Start Time	🗹 End Time
Customize	Time Zone	DST Enable	ST Status
Report Content	<ul> <li>Vetwork</li> <li>Network Status</li> </ul>		IMEI
	Cell ID		11161
	Line Trigger Data		
	👻 🗹 Region Trigger Data		
	Region Count Data	🛃 Dwell Time Data	Dwell Start Time
	Line Periodic Data		
	👻 🗾 Line Total Data		
	🛃 Line Count Data	🛃 Capacity Counted	
	🗹 Region Periodic Data		
	🗹 Line/Region Name		
	Line/Region UUID		

## MQTT API (Cellular Version Only)

VS125 provides MQTT API to support to receive downlink commands from MQTT broker to get people counting data and achieve the configuration. For API document, please contact Milesight IoT support: iot.support@milesight.com.

Status	Disconnecte
Host	112.48.19.183
Port (1~65535)	10566
Торіс	12345
Client ID	
Username	admin
Password	•••••
QoS	QoS 1 \$
TLS	

Parameters	Description
Status	Show connection status between device and MQTT broker.
Host	MQTT address to receive data.
Port	MQTT port to receive data.
Topic	Topic name used for publishing.
	Client ID is the unique identity of the client to the server.
Client ID	It must be unique when all clients are connected to the same server, and it
	is the key to handle messages at QoS 1 and 2.
Username	The username used for connecting to the MQTT.
Password	The password used for connecting to the MQTT.
QoS	QoS0, QoS1, QoS2 are optional.
TLS	Enable the TLS encryption in MQTT communication.
	CA Signed Server or Self Signed is optional.
	CA signed server certificate: verifying with the certificate issued by
Certificate Type	Certificate Authority (CA) that is pre-loaded on the device.
	<b>Self signed certificates:</b> upload the custom CA certificates, client certificates and secret key for verification.

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## 5.4 Report

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VS125 supports visual line chart or bar chart generation to display people traffic and supports report exporting. Before using this feature, do ensure that the device time is correct on **System** page.

Milesight	Event Line Cross Counting Region People Counting Dwell Time Detection	
🚆 Rule	Time Unit         Hour         Day         Month         Time Range         © 02/07/2024 06:00:00 + 03/07/2024 06:00:00         Line1         Q Search	
Communication	People Traffic Report Hour Line1	
G Report	02/07/2024 06:00 ~ 03/07/2024 06:00 🗠 🧰 📓	Ŧ
🖾 Image	120	
System	102	n In
	80	Adults In Children In Male In
		Female In     Out     Adults Out     Children Out
		Male Out Female Out
🛤 English >		
🛓 admin 🔹 🔸		

Parameters	Description
Event	Select the event which you want to query the report. Line crossing counting, region people counting and dwell time detection are optional.
Time Unit	Select the unit to generate the graph or export the data.
Time Range	Select the time range to generate the graph.
Line1	Select the line to display the graph.
Region1 🗘	Select the region to display the graph.
Q Search	Click to generate the graph according to the time range and line option.
<u>~</u> ы	Select the display type as line or bar.
Ĩ	Click to download the chart screenshot.
不	Export the historical traffic data as CSV file according to the selected time unit. The device can store up to one million data records to CSV file.

## 5.5 Image

VS125 has great lighting adaptability that allows it to work well in low light or even complete

dark environments. It supports day and night mode switching based on the no-photosensitive scheme.

Milesight         □ Dashboard         □ Rule         □ Communication         @ Report         □ Image         ③ System	Image Setting     Image Sett
Parameters	Description
Day/Night Mode Switch	<ul> <li>Set image mode. Auto, Day, Night and Schedule are optional.</li> <li>Day: black and white mode;</li> <li>Night: infrared based black and white mode;</li> <li>Auto: automatic switch day and night according to image brightness;</li> <li>Schedule: switch day and night according to the configured schedule.</li> </ul>
Sensitivity	Set the sensitivity of the automatic day and night switching. The higher sensitivity, the easier to switch day and night.
Night Mode Duration	Set the schedule of the night mode.
Target Brightness	Set the brightness of the target to make image clearer. The higher brightness is, the brighter the target brightness is.
Power Line	Choose the frequency to avoid the image flashing.

Wide DynamicEnable or disable WDR. Enabling WDR can capture more detail in scenesRangewhere light conditions vary greatly.

## 5.6 System

## 5.6.1 Device Info

All information about the hardware and software can be checked on this page. Besides, users can modify the device name, customize device ID and site ID for large amounts of devices management.

<b>M</b> ilesight				
<b>i</b> · <b>i</b> llesigne	Device Info.			Current System Time
Dashboard	Device Name	People Counter		Date 03/07/2024
📰 Rule	Product Model	10130 100511		
Communication	Product Model	VS125-LOBEU		Time 09:48:20
Report	SN	6834E27852640016		Set the System Time
🖾 Image	Hardware Version	V1.0		Time Zone UTC-0:00 Western European Time (WET), Greenwich Mean 🗘
System	Software Version	V_125.1.0.1-hard-test5		Davlight Saving Time
	MAC Address	1C:C3:16:34:35:36		x
	WLAN MAC Address	1C:C3:16:34:35:37		I Synchronize Time
	Customized Device ID			
	Customized Site ID			Synchronize Mode Manual Timing
				Server Address pool.ntp.org
	Running Time	14 minutes 31 seconds		Time Interval 1440 ×
			×	min(1-10000)
	Users		<b>~</b>	-
🛤 English >	Username	User Level	Operation	
🛎 admin >	admin	Administrator	6 0	

## 5.6.2 User

Milesight □ Dashboard ≅ Rule □ Communication	Device Name Product Model SN Hardware Version	People Counter V\$125-L0BEU 6834E27852640016 V1.0		Current System Time Date 03/07/2024 Time 09:52:00		
<ul> <li>Report</li> <li>Image</li> <li>System</li> </ul>	Software Version	V_125.1.0.1-hard-test5 1C:C3:16:34:35:36		I Set the System Time Time Zone UTC-0	:00 Western European Time (WE	T), Greenwich Mean 💲
	WLAN MAC Address Customized Device ID Customized Site ID	1C:C3:16:34:35:37		Daylight Saving Time		×
	Running Time	18 minutes 14 seconds	×	Synchronize Mode Server Address Time Interval	pool.ntp.org 1440	Timing Manual Timing
English > ▲ admin >	Username admin	User Level Administrator + Add User	Operation			0
Parameters			De	scription		
ß	You can o	change the logi	n password	of this device.		

0

Username	admin	
User Level	Administrator	¢
Administrator Password		
New Password		
Confirm		
At least: • 8 characters • 2 types of characters: N	umber, letter and symbol	

Click to set three security questions for your device. In case that you forget the password, you can click **Forget Password** button on login page to reset the password by answering three security questions correctly.

Password		
Security Question1	What is your lucky number?	~
Answer1		
Security Question2	What is your favorite sport?	1
Answer2		
Security Question3	What is your favorite game?	~
Answer3		

Click to add a viewer, who will only have access to the "Dashboard" and "Report" interfaces.

	l Add User			
+ Add User	Username	viewer		
	User Level	Viewer	\$	
	Password			
	Confirm			
	At least: • 8 characters • 2 types of characters: 1	Number, letter and symb	ol	
			×	

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## 5.6.3 Time Configuration

Milesight

Milesight	I Device Info. Device Name Product Model	People Counter VS125-L0BEU		I Current System Time           Date         03/07/2024           Time         10:02:43		
<ul> <li>Communication</li> <li>Report</li> </ul>	SN	6834E27852640016		Set the System Time		
E Image	Hardware Version	V1.0			TC-0:00 Western European Time (WET), Greenwich Mean 🗘	
System	Software Version	V_125.1.0.1-hard-test5		Daylight Saving Time	rc-o:uu western European nime (wer), Greenwich Mean 💝	
	MAC Address	1C:C3:16:34:35:36		Daylight Saving time		
	WLAN MAC Address	1C:C3:16:34:35:37		Synchronize Time		
	Customized Device	ID				
	Customized Site ID			Synchronize Mode	NTP Timing Manual Timing	
	Running Time	18 minutes 14 seconds		Server Address Time Interval	pool.ntp.org ×	
			×	min(1-10080)	1440	
	Users		~			
🗈 English >	Username	User Level	Operation			
🛓 admin >	admin	Administrator	60		0	
Parameters			I	Description		
Time Zo	one	Choose the time zone for your location.				
		Enable or disable Daylight Saving Time (DST).				
Davlight Savi	na Timo	Start Time: the start time of DST time range.				
Daylight Saving Time		End Time: the end time of DST time range.				
		<b>DST Bias:</b> the DST time will be faster according to this bias setting.				
Synchronize Mode		NTP Timing or Manual Timing is optional.				
Server Address		NTP server address to sync the time.				
Time Interval		Set the interval to sync time with NTP server.				
Setting Time		Set the device time manually.				
Synchronize with			ne manually.			

## 5.6.4 Remote Management

computer time

Milesight provides remote management service for this device via Milesight DeviceHub platform or Milesight Development Platform. Before connecting, do ensure the device is connected to the network and Internet connection is stable.

<ul> <li>▶ Cinesight</li> <li>■ Dashboard</li> <li>■ Rule</li> <li>■ communication</li> <li>● Report</li> <li>■ Validation</li> <li>● System</li> </ul>	I Remote Mana Remote Mana Platform Status I Platform Setti Remote Mana Auto Provisio Data Transfer Periodic Repo Periodic Repo Periodi Repo Periodi Repo Data Transfer Periodi Repo Di Trigger Report	agement   Iot Development Platform   Iot Development Platform   Connected   Frequency Adjustment () Modulation Mode A Tof Lighting Mode   Iot Development Platform   Frequency Adjustment () Modulation Mode A Tof Lighting Mode   Iot Development Platform   Frequency Adjustment () Modulation Mode A Tof Lighting Mode   Iot Development Platform   Frequency Adjustment () Modulation Mode A Tof Lighting Mode   Iot Development Platform   Frequency Adjustment () Modulation Mode A Tof Lighting Mode   Iot Development Platform   Frequency Adjustment () Modulation Mode A Tof Lighting Mode   Iot Development Platform   Frequency Adjustment () Modulation Mode A Tof Lighting Mode Iot Scheedule Iot Scheedule Iot Scheedule Iot Scheedule Iot Boot Reboot the Device Reboot the Device Reboot Reboot the Device Reboot the Device Reboot		
🛎 admin 🔸				
Paramete	rs	Description		
Remote Mar	nagemer	nt		
Remote Management		Enable or disable to manage the device through Milesight platforms.		
Platfor	m	DeviceHub or IoT Development Platform is optional.		
Status	S	Show the connection status between the device and the DeviceHub.		
IoT Develop	ment Pla	atform		
Remote Management Service		Enable to change the device settings via Milesight Development platform.		
Auto Provisioning		Enable to receive and deploy the configurations from Milesight Development Platform after the device is connected to Internet.		
Data Transfer Service		Report people counting data to Milesight Development platform.		
DeviceHub 2.0 (PoE Version Only)				
Server Address		IP address or domain of the DeviceHub 2.0 management server.		
Synchronize Device Name		Enable or disable to synchronize device name on devicehub 2.0.		
Synchronize Customized ID		Customize the device ID and site ID.		
Security Service				
SSH		Enable or disable SSH access. The SSH port is fixed as 22.		

## 5.6.5 System Maintenance

<b>M</b> ilesight	Remote Management		l Reset
메 Dashboard	Remote Management		Recovery device basic configuration Basic Recovery
Communication	Platform	IoT Development Platform	Recovery device to factory settings All Recovery
🕒 Report	Status	Disconnected	I Rebot
🖪 Image	Platform Settings		
O System	Remote Management Service		Reboot the Device Reboot
	Auto Provisioning ①		1 Upgrade
	Data Transfer Service		Software Version V_125.1.0.1-hard-test5
	Security Service	×	Upgrade Image
	SSH		Explanation: The upgrade process takes 1-10 minutes, do not turn off the power. The automatic reboot will happen once the upgrade complete.
			Backup and Restore
			Export Config File Export
🖬 English 🔸			Import Config File
🛎 admin 🔸			
Parameters	Description		
	Recovery de when resetti	-	: keep the IP settings and user informat

Dooot	
Reset	<b>Recovery device to factory settings:</b> reset device to factory default, which needs to verify admin password.
Reboot	Restart the device immediately.
Upgrade	Click the folder icon and select the upgrading file, then click the <b>Upgrade</b> button to upgrade. The update will be done when the system reboots successfully. <b>Note:</b> The upgrade process takes about 1-10 minutes. Do not turn off the power and complete automatic restart after the upgrade.
Backup and Restore	<ul><li>Export Config File: Export configuration file.</li><li>Import Config File: Click the file icon and select the configuration file, click</li><li>Import button to import configuration file.</li></ul>

## 6. Installation Instruction

#### Parameter definition:

Parameters	Explanation	Value
Н	Installation height	2.2 ~ 6 m
h	Target height	Example 1.7 m
α	Horizontal field of view angle	
β	Vertical field of view angle	
x	x Length of detection range	
у	Width of detection range	

#### $\alpha$ and $\beta$ are related to installation height:

Installation Height / m	α	β
0~3	106°	69°
3.001 ~ 4	97°	62°
4.001 ~ 5	94°	60°

5.001 ~ 6	73°	45°

#### 6.1 Covered Detection Area

The detection area covered by the device is related to the field of view angle of the device, the installation height and the target height.

The length of the detection area is approximately  $x=2 \times tan(\alpha/2) \times (H-h-0.05)$  and the width of the detection area is approximately  $y=2 \times tan(\beta/2) \times (H-h-0.05)$ .



For example, if the pedestrians' height is 1.75 m, the detection area corresponding to each installation height is as follows:

Installation Height (m)	Detection Area (m)
2.2	2.5 × 1.3
2.5	3.2 × 1.6
3.0	4.0 × 2.1
3.5	4.6 × 2.5
4.0	5.3 × 2.8
4.5	6.3 × 3.8
5.0	7.5 × 4.0
5.5	6.2 × 3.5
6.0	7.0 × 4.0

## 6.2 Installation

#### **Ceiling Mount**

Installation condition: ceiling thickness > 30mm.

Step 1: Remove the cover. (If the wires need to be protruded from the side of the device, remove

the blocking rubber.)

Milesight



**Step 2:** Drill 4 holes with a diameter of 4mm according to the hole position of the device screw. (If you need to hide the power cord into the ceiling, drill another wire hole.) Attach the expansion bolts to the hole position in the ceiling.



**Step 3:** Connect all required wires, and pass them through the wire holes behind the device.(If the alarm I/O is going to be used, please connect the Multi-interface to the device.)



Step 4: Fix the device to the wall plugs via mounting screws.



**Step 5:** Fix the cover back to device.

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#### Ceiling/Lintel Mount (with Optional VB01 Multifunctional Bracket)

**Step 1:** Fix the pole to the device with the hole on the device.

**Step 2:** Adjust the length of the pole, then adjust the direction of 3-axis ball and tighten it with the handle. **Step 3:** Determine the mounting location and drill 3 holes, fix the wall plugs into the mounting holes, then fix the bracket base to the wall plugs via mounting screws.

(Note: If the wire needs to be extended to the interior of the ceiling or wall, a wire hole with a suitable size is also required to be drilled.)



**Step 4:** Remove the cover on the device, and then connect all required wires and pass them through the inside of pole.

Step 5: Fix the pole to bracket base with screws and nuts.

#### Ceiling Mount



Lintel Mount



#### **Installation Note:**

- The device is sensitive to ambient light, so it's best to avoid placing it in areas where light conditions fluctuate significantly.
- Make sure there are no obstacles within the live view of device.
- When the device is installed on the door frame or door, it is recommended to use VB01 or other bracket to make the device is above 30cm from the door with enough time to capture the target.
- When the device is installed at the door of the fan switch, the device needs to be installed on the opposite side of the door.
- For more accurate target attribute detection, tilt the device slightly (within 10 degrees).



## 6.3 Factors Affecting Accuracy

- The device can not recognize well if the ground is smooth and lacks patterns.
- It is indistinguishable when the color of targets and the floor is similar.

## 7. Communication Protocol

VS125 will post the people counting data in json format to HTTP URL or MQTT broker.

#### 7.1 Periodic Report

```
{
    "device_info":
```

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```
{
    "cus_device_id": "123456",
    "cus_site_id": "789123",
    "device_mac": "24:E1:24:FA:0C:6C",
    "device_name": "People Counter",
    "device_sn": "6384E16179950009",
    "firmware_version": "V_125.1.0.1,
    "hardware_version": "V1.0",
    "ip_address": "192.168.60.183",
    "running_time": 141
},
"network_info": //Cellular version only
{
    "network_status": "true", //True is connected, False is disconnected
    "iccid": "89860117838009934120",
    "imei": "860425047368939",
    "cell_id": "340db80",
    "lac": "5299"
},
"line_periodic_data":
    {
         "children_in": 0,
         "children_out": 0,
         "female_in": 1,
         "female_out": 1,
         "in": 1,
         "line": 1,
         "line_name": "Line1",
         "line_uuid": "9a0440de-3188-4f6d-b886-bb20c97bd26b",
         "male_in": 0,
         "male_out": 0,
         "out": 1
    },
    {
         "children_in": 0,
         "children_out": 0,
```

```
"female_in": 1,
         "female_out": 1,
         "in": 1,
         "line": 2,
         "line_name": "Line2",
         "line_uuid": "b138b9a1-ce58-40bd-98f4-c401dfc118c8",
         "male_in": 0,
         "male_out": 0,
         "out": 1
    }
],
"line_total_data":
    {
         "capacity_counted": 4,
         "children_in_counted": 0,
         "children_out_counted": 0,
         "female_in_counted": 0,
         "female_out_counted": 0,
         "in_counted": 29,
         "line": 1,
         "line_name": "Line1",
         "line_uuid": "9a0440de-3188-4f6d-b886-bb20c97bd26b",
         "male_in_counted": 29,
         "male_out_counted": 33,
         "out_counted": 33
    },
    {
         "capacity_counted": 5,
         "children_in_counted": 0,
         "children_out_counted": 0,
         "female_in_counted": 0,
         "female_out_counted": 0,
         "in_counted": 39,
         "line": 2,
         "line_name": "Line2",
         "line_uuid": "b138b9a1-ce58-40bd-98f4-c401dfc118c8",
         "male_in_counted": 39,
```

```
"male_out_counted": 44,
         "out_counted": 44
    }
],
"region_data":
{
    "dwell_time_data":
    ſ
         {
             "avg_dwell_time": 308367,
             "children_avg_dwell_time": 0,
             "children_max_dwell_time": 0,
             "female_avg_dwell_time": 0,
             "female_max_dwell_time": 519934,
             "male_avg_dwell_time": 0,
             "male_max_dwell_time": 96799,
             "max_dwell_time": 519934,
             "region": 1,
             "region_name": "Region1",
             "region_uuid": "bd1e6ce2-e113-4ce4-a9b6-0633f7083cac"
        },
         {
             "avg_dwell_time": 0,
             "children_avg_dwell_time": 0,
             "children_max_dwell_time": 0,
             "female_avg_dwell_time": 0,
             "female_max_dwell_time": 0,
             "male_avg_dwell_time": 0,
             "male_max_dwell_time": 0,
             "max_dwell_time": 0,
             "region": 2,
             "region_name": "Region2",
             "region_uuid": "f16a2618-f44a-485d-8b4e-d7550a155b8e"
         }
    ],
    "region_count_data":
         {
```

```
"current_children": 0,
                  "current_female": 0,
                  "current_male": 3,
                  "current_total": 3,
                  "region": 1,
                  "region_name": "Region1",
                  "region_uuid": "bd1e6ce2-e113-4ce4-a9b6-0633f7083cac"
             },
              {
                  "current_children": 0,
                  "current_female": 0,
                  "current_male": 0,
                  "current_total": 0,
                  "region": 2,
                  "region_name": "Region2",
                  "region_uuid": "f16a2618-f44a-485d-8b4e-d7550a155b8e"
              }
         1
    },
    "time_info":
    {
         "dst_status": false,
         "enable_dst": true,
         "end_time": "2024-05-30T20:21:49+08:00",
         "start_time": "2024-05-30T20:20:49+08:00",
         "time_zone": "UTC+8:00 China Standard Time (CT/CST)"
    }
}
```

## 7.2 Trigger Report-Line Crossing People Counting

```
{
    "device_info":
    {
        "cus_device_id": "123456",
        "cus_site_id": "789123",
        "device_mac": "24:E1:24:FA:0C:6C",
        "device_name": "People Counter",
        "device_sn": "6384E16179950009",
```

```
"firmware_version": "V_125.1.0.1",
    "hardware_version": "V1.0",
    "ip_address": "192.168.60.183",
    "running_time": 58
},
"network_info": //Cellular version only
{
    "network_status": "true", //True is connected, False is disconnected
    "iccid": "89860117838009934120",
    "imei": "860425047368939",
    "cell_id": "340db80",
    "lac": "5299"
},
"line_trigger_data":
[
    {
         "children_in": 0,
         "children_out": 0,
         "female_in": 0,
         "female_out": 0,
         "in": 1,
         "line": 1,
         "line_name": "Line1",
         "line_uuid": "9a0440de-3188-4f6d-b886-bb20c97bd26b",
         "male_in": 1,
         "male_out": 0,
         "out": 0
    },
    {
         "children_in": 0,
         "children_out": 0,
         "female_in": 0,
         "female_out": 0,
         "in": 1,
         "line": 3,
         "line_name": "Line3",
         "line_uuid": "82ffe54d-0191-484b-a2fc-495628a8f2a1",
         "male_in": 1,
```

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}

```
"male_out": 0,
         "out": 0
    },
    {
         "children_in": 0,
         "children_out": 0,
         "female_in": 0,
         "female_out": 0,
         "in": 1,
         "line": 4,
         "line_name": "Line4",
         "line_uuid": "ebc7b502-08d6-4f61-b704-e02d1938b9e2",
         "male_in": 1,
         "male_out": 0,
         "out": 0
    }
],
"time_info":
{
    "dst_status": false,
    "enable_dst": true,
    "time": "2024-05-30T20:11:32+08:00",
    "time_zone": "UTC+8:00 China Standard Time (CT/CST)"
}
```

## 7.3 Trigger Report-Region People Counting

```
{
    "device_info":
    {
        "cus_device_id": "123456",
        "cus_site_id": "789123",
        "device_mac": "24:E1:24:FA:0C:6C",
        "device_name": "People Counter",
        "device_sn": "6384E16179950009",
        "firmware_version": "V_125.1.0.1",
        "hardware_version": "V1.0",
        "ip_address": "192.168.60.183",
        "running_time": 105
```

```
},
"network_info": //Cellular version only
{
    "network_status": "true", ////True is connected, False is disconnected
    "iccid": "89860117838009934120",
    "imei": "860425047368939",
    "cell_id": "340db80",
    "lac": "5299"
},
"region_trigger_data":
{
    "region_count_data":
    ſ
         {
         "current_children": 0,
         "current_female": 0,
         "current_male": 2,
         "current_total": 2,
         "region": 1,
         "region_name": "Region1",
         "region_uuid": "bd1e6ce2-e113-4ce4-a9b6-0633f7083cac"
         }
    1
},
"time_info":
{
    "dst_status": false,
    "enable_dst": true,
    "time": "2024-05-30T20:12:20+08:00",
    "time_zone": "UTC+8:00 China Standard Time (CT/CST)"
}
```

## 7.4 Trigger Report-Dwell Time Detection

```
{
    "device_info":
    {
        "cus_device_id": "123456",
```

}

```
"cus_site_id": "789123",
    "device_mac": "24:E1:24:FA:0C:6C",
    "device_name": "People Counter",
    "device_sn": "6384E16179950009",
    "firmware_version": "V_125.1.0.1",
    "hardware_version": "V1.0",
    "ip_address": "192.168.60.183",
    "running_time": 106
},
"network_info": //Cellular version only
{
    "network_status": "true", ////True is connected, False is disconnected
    "iccid": "89860117838009934120",
    "imei": "860425047368939",
    "cell_id": "340db80",
    "lac": "5299"
},
"region_trigger_data":
{
    "dwell_time_data":
    ſ
         {
         "children": false,
         "duration": 96799,
         "dwell_end_time": "2024-05-30T20:12:20+08:00",
         "dwell_start_time": "2024-05-30T20:10:43+08:00",
         "people_id": 5,
         "region": 1,
         "region_name": "Region1",
         "region_uuid": "bd1e6ce2-e113-4ce4-a9b6-0633f7083cac",
         "sex": "male"
         }
    1
},
"time_info":
{
    "dst_status": false,
```

"enable\_dst": true,
 "time": "2024-05-30T20:12:20+08:00",
 "time\_zone": "UTC+8:00 China Standard Time (CT/CST)"
}

#### -END-