



OPT LS Viewer Software User Manual

V1.0

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When the customer uses part or all of the functions of the "OPT LS Viewer" software (hereinafter referred to as "the software"), it shall be deemed that the customer has agreed to all the contents specified in this agreement and this agreement is established.

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This agreement complies with the laws of the People's Republic of China.

Introduction

Overview

Please read this user manual before use.

The user manual for the 3D stripe structured light sensor software provides customers with instructions for setting up the "OPT LS Viewer" software for the 3D stripe structured light sensor.

The content of this manual is compiled with the goal of accuracy and correctness. But if you find any unclear, incorrect or ambiguous content, please contact our sales department. If there are missing pages or binding errors, our company will replace them.

Symbol stipulations

The identifiers that may appear in this document have the following meanings.

Symbol	Explain
 说明	Description text: supplement and explain the main text.
 注意	Note text that alerts users to important actions or prevents potential injury or property damage.
 警告	Warning indicates a potentially hazardous situation which, if not avoided, could result in injury, equipment damage, or service interruption.
 危险	Dangerous text indicates a high potential risk that, if not avoided, could result in serious injury or death.

Revision record

Version number	Revise contents	Release date
V1.0	First release.	20241115

Thanks for choosing OPT machine vision-related products.

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The purpose of the user manual

By reading this manual, users can be familiar with the basic operation of 3D laser sensor OPT LS Viewer software for machine vision sensing products, and can perform measurement Settings in actual engineering projects.

The main content of the user manual

This manual consists of four sections. Detailed introduction of the installation, startup, basic operation, parameter setting, system failure, etc. of the OPT LS Viewer software for 3D structured light sensors.

Related documents

For the hardware installation of the 3D structured light sensor, please refer to the "3D Structured Light Sensor - Hardware User Manual" that comes with this product.

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1.The environment and installation steps required for software installation

This chapter explains the environment and installation steps required for the installation of OPT LS Viewer software.

Required system environment

The following system environment is required to use OPT LS Viewer

OS	Windows 11 (Enterprise)* Windows 10 (Enterprise)* Windows 7 (SPI or higher version) (Professional/Ultimate)
CPU	Core i3 2.3 GHz or higher version
Memory space	8GB or higher version
Level 2 cache	2MB or higher
Graphics card	Supports DirectX 9 with 128MB or higher video memory
Hard disk space	10GB or higher Hard disk space
monitor	XGA (1024 * 768 pixels) or higher, 256 colors or higher
Interface	Ethernet 1000BASE-T/100BASE-TX

Prepare for installation

Before installation, confirm the following:

Windows environment and installation location
OPT LS Viewer is software that runs on Windows and should be installed on Windows. Please confirm if the computer you are using has Windows 7/10/11 installed and is functioning properly.

- ◆ Disk space

OPT LS Viewer can only be installed on a hard drive. The installation target hard drive requires 10GB of space. When there is insufficient space, please clear enough space before installation.

Turn off firewall

To ensure the normal operation of the software and the stability of data transmission, please turn off the firewall or add this software to the firewall whitelist. Taking the Windows 10 operating system as an example, open the system firewall and network protection interface, as shown in Figure

1.1.1.

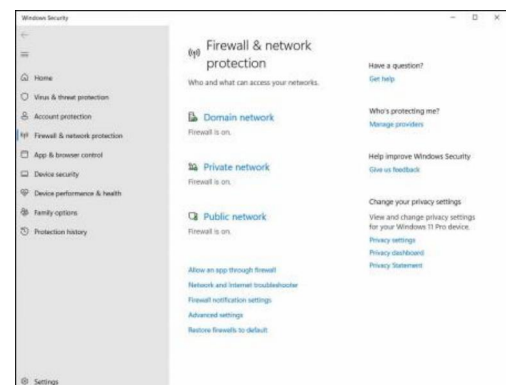


Figure 1.1.1 System firewall interface

Click the Network option to toggle the firewall switch to off. As shown in Figure 1.1.2.

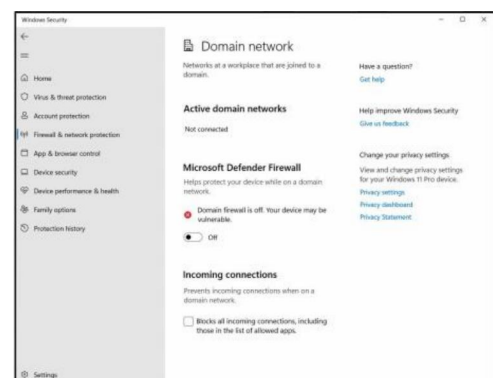


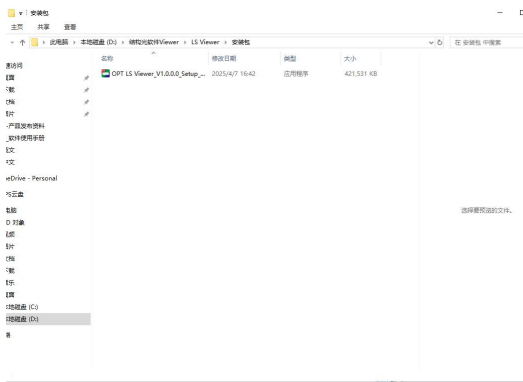
Figure 1.1.2 Disabling the system firewall

Install and configure the OPT LS Viewer

The following are the steps for installing OPT LS Viewer onto a computer. Here is an example of installing a Windows 10 64 bit system.

1、Extract the compressed package of OPT LS Viewer software to the specified path where the software needs to be installed.

2、Open the folder of the decompression path, find the "OPT LS Viewer" application and double-click to open it, as shown in Figure 1.1.3.



1.1.3 Opening the installer

3、Start installing the "OPT LS Viewer_V1.00_Setup" application, click on the "I agree to this agreement" option, as shown in Figure 1.1.4.

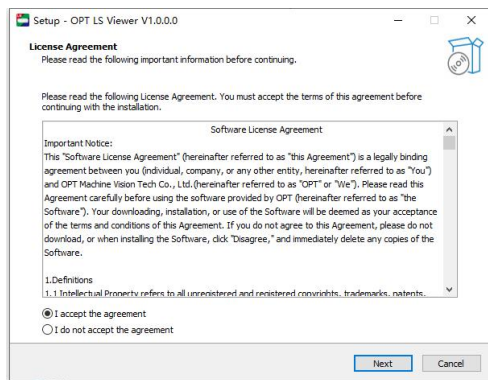


Figure 1.1.4 Installing software

4、Click "Next", click "Browse", and select the software installation path for OPT LS Viewer, as shown in Figure 1.1.5.

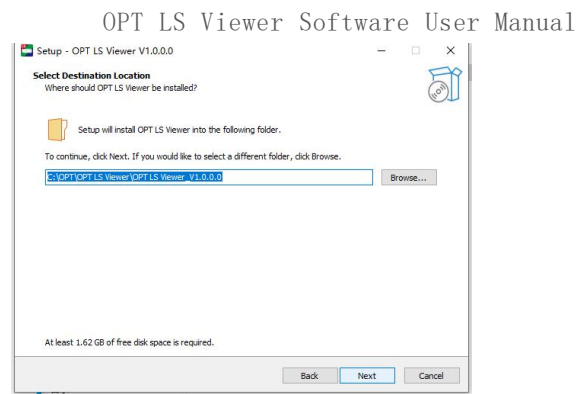


Figure 1.1.5 Selecting the installation location

5、Click "Next" to enter the installation preparation interface, click "Install" to continue installing the software, as shown in Figure 1.1.6.

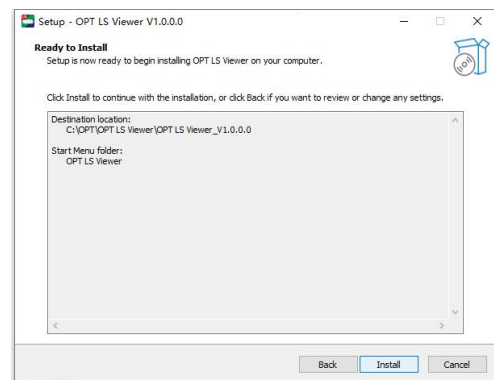


Figure 1.1.6 Preparing the installation screen

6、After installation is complete, you need to restart the computer. Select 'Yes, restart the computer now' to restart the computer immediately. Select 'No, restart the computer later' to not restart the computer at the current time. As shown in Figure 1.1.7.

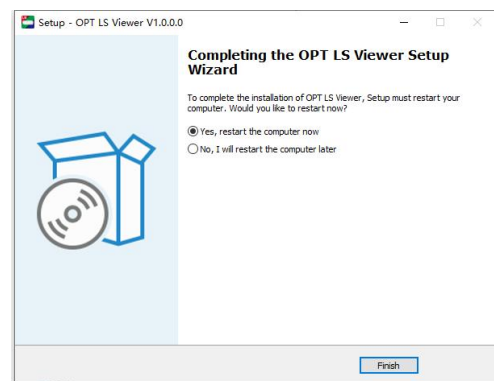


Figure 1.1.7 Installation completion page

Network card configuration

Open the Control Panel, select Network and Sharing Center, and then click Change Adapter Options. Select the Ethernet port that needs to be changed, right-click the mouse, select "Properties" from the drop-down menu, enter Properties, then click "Configure (C)...", enter the configuration page, and click the "Advanced" option. Set the following properties.

The transfer buffer is found in the property list and set to the maximum value. Figure 1.1.8 shows this.



Figure 1.1.8 Transfer buffer Settings

1.Change the receive buffer to the maximum value.

Figure 1.1.9 shows this.



Figure 1.1.9 Receive buffer Settings

2. Open the jumbo packet, set to 9014 bytes (to the

maximum depending on the current computer configuration), as



Figure 1.1.10 Jumbo packet Settings

3.Disable the energy-saving Ethernet, as shown in Figure 1.1.11.

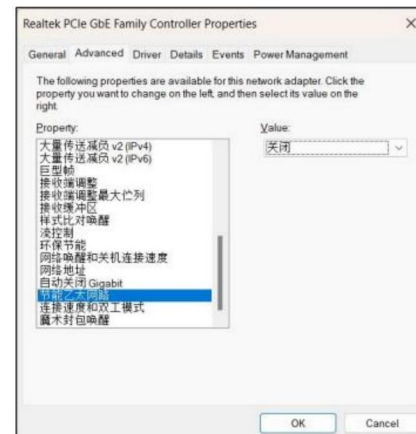


Figure 1.1.11 Ethernet Settings for energy saving

4.Turn off the idle system power supply to save

energy, as shown in Figure 1.1. 12.

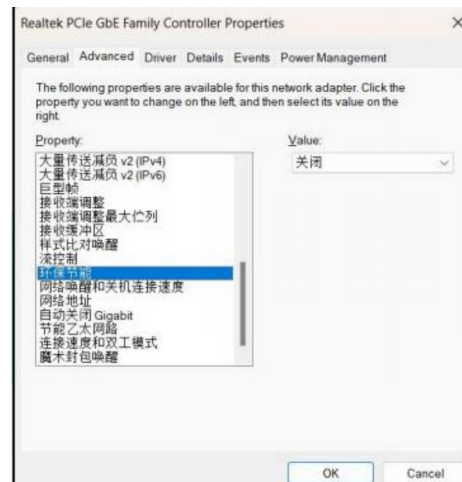


Figure 1.1.12 Ethernet Settings for energy saving

2. Basic operations and procedures for setting up

This chapter explains the startup and shutdown methods of this machine, as well as the basic operations of PC software.

2.1 Start and exit

Start

The following is an explanation of the startup steps for OPT LS Viewer.

- 1、Connect the sensor correctly. Ensure proper connection and normal power supply.
- 2、Double click the OPT LS Viewer icon to display the software screen, as shown in Figure 2. 1. 1.

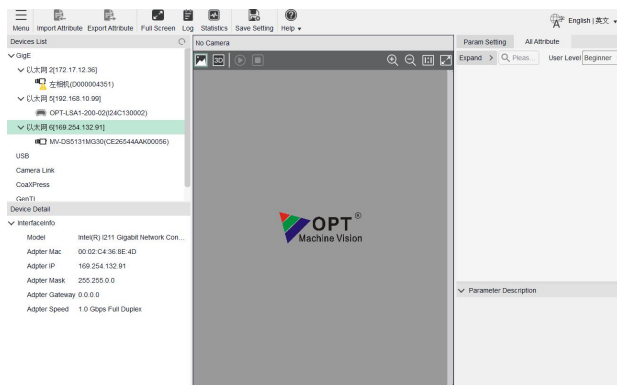


Figure 2.1.1 Main interface of the program

Connect camera

After launching the software and entering the software interface, the camera model will be displayed in the upper left corner of the interface. Clicking on it will allow you to view the camera device details in the lower left corner, as shown in Figure 2. 1.2.

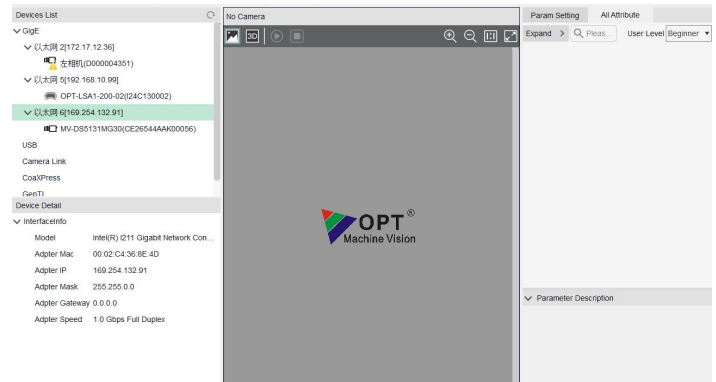


Figure 2.1.2 Camera Configuration Interface

Click the IP button to set the camera IP, as shown in Figure 2.1.3.

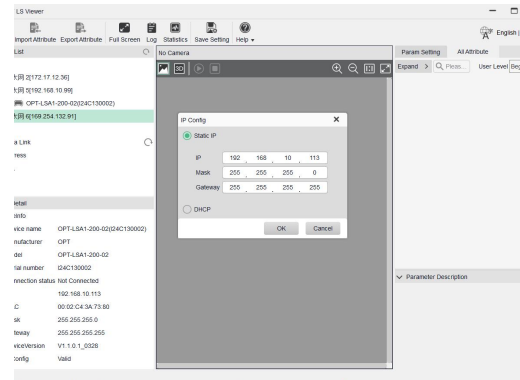


Figure 2.1.3 Modifying IP

Equipment details and parameter specifications:

Search for devices

Device name: Camera name.

Manufacturer: Information on the manufacturer of the camera.

Model: Camera model.

Connection status: The current connection status of the camera.

Device IP: The IP address currently assigned to the camera.

Device MAC address: The MAC address of the camera.

Device subnet mask: The subnet mask of the camera

Device gateway: Camera gateway.

Equipment model: current version number.

IP configuration: used to prompt whether the IP configuration is valid

Before connecting the camera, it is necessary to modify the IP address of the camera device to be in the same network segment as the host IP address, or an automatically assigned address can be used, as shown in Figure 2.1.4.

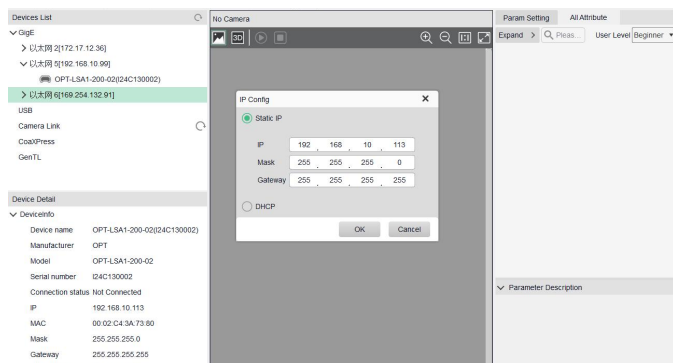


Figure 2.1.4 IP Setting Interface

After modifying the IP address, the camera model will be displayed in the upper left corner of the software interface. Click to select the camera model, choose to connect the camera, or double-click the camera directly as shown in Figure 2.1.5.

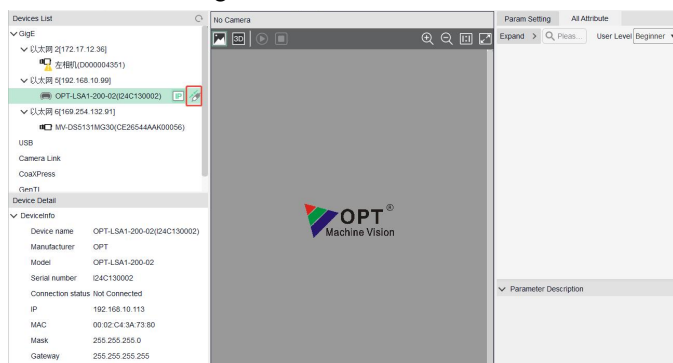


Figure 2.1.5 Connecting the camera

After successfully connecting the camera, the log message will display the text prompt "Open camera success", and the software interface will display as shown in Figure 2.1.6.

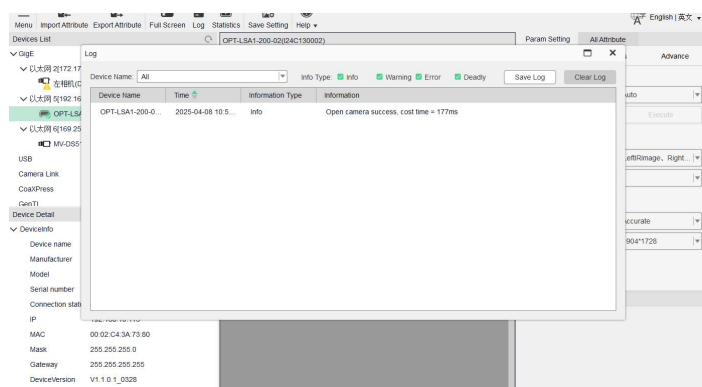


Figure 2.1.6 Camera Connection Success Interface

Attention: If the camera is disconnected midway due to improper operation or power interruption during the operation, please reconfigure and connect the camera according to the above steps.

Modify local IP address

The default IP address for cameras at the factory is generally 192.168.0. X. It not only supports modifying the camera IP through the camera configuration interface, but also allows connecting the camera by changing the computer IP. Click to open System Settings, select Network and Internet - Advanced Network Settings - Change Adapter Options. As shown in Figure 2.1.7.

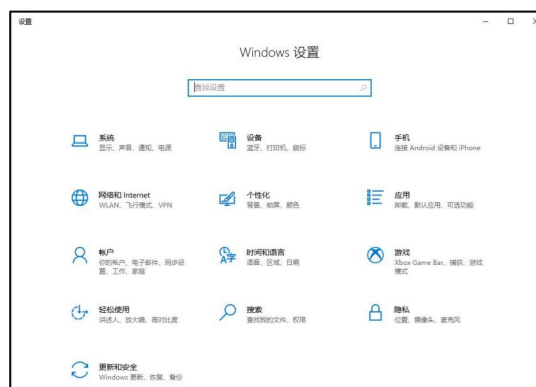


Figure 2.1.7 Windows Settings Interface

Select Ethernet, right-click on Ethernet, click on the Properties option in the right-click menu, open the Ethernet Properties interface, double-click to open Internet Protocol version 4 (TCP/IPv4), as shown in Figure 2.1.8.



Figure 2.1.8 Ethernet attribute settings

Open Internet Protocol version 4 (TCP/IPV4) and start setting the IP address, as shown in Figure 2.1.9.

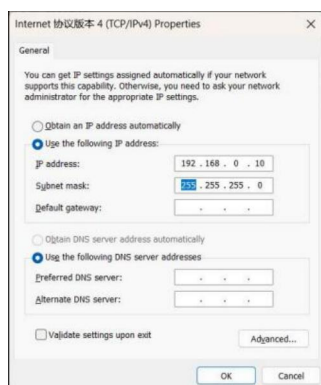


Figure 2.1.9 Modifying Local IP

exit

The following is an explanation of the exit steps for OPT LS Viewer.

Click to disconnect the camera, as shown in Figure 2.1.10.

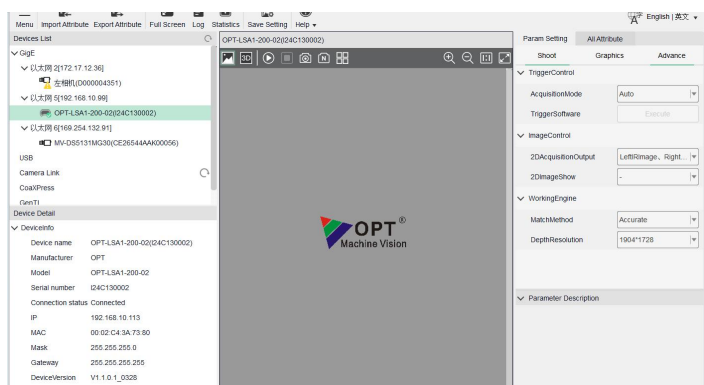


Figure 2.1.10 Disconnecting the camera

Click on the "X" in the upper right corner to close this software, as shown in Figure 2.1.11.

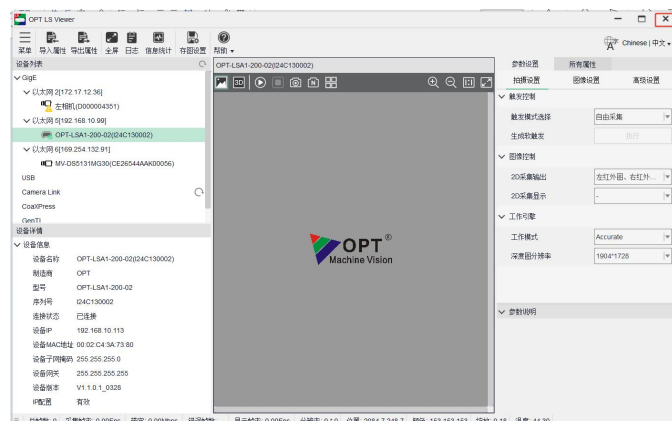


Figure 2.1.11 Exit Program Interface

2.2 Basic operations of OPT LS Viewer toolbar

Main interface toolbar

	Import Attribute		Export Attribute
	Layout		Full Screen
	Log		Statistics
	Save Setting		Help

Window toolbar

	image display		Display 3D image
	Start collecting		Stop collecting
	Screen reduction		Screen enlargement
	Window adaptation		Single Save
	Multiframe save		Multiframe display

3D Window Toolbar

	import picture		Point rendering
	Line rendering		Surface rendering
	Set point size and line width		Color Bar
	Lighting mode		Display coordinate axis
	Window adaptation		oblique drawing
	vertical view		Bottom view
	Left view		Right view
	Front view		Rear view
	Erase image		background color

Hard trigger: The external hardware provides a triggering electrical signal to start collecting images

Image control: Control the working light machine, as well as output images and images displayed on the software interface.

Optical machine selection: Dual optical machine working mode, left optical machine working mode, or right optical machine working mode can be selected.

2D acquisition output: You can choose to output left infrared image, right infrared image, color image, depth image, left infrared correction image, right infrared correction image, multiple options are available.

2D acquisition display: The software interface can display left infrared image, right infrared image, color image, depth image, left infrared correction image, and right infrared correction image

Work engine: controls the camera's working mode and structured light stripe type.

Working mode: The working mode is divided into fast, default, and precise modes

Depth map resolution: You can choose the desired depth map resolution, as different resolutions affect system accuracy and full cycle frame rate.

3.2 Image Settings

By emitting structured light, the reflected light from the object passes through the photosensitive lens and forms an image on the imaging element, obtaining the original shooting data. In shooting settings, in order to obtain the target image data, image acquisition conditions should be set while confirming the image. As shown in Figure 3.2.1.

3. Parameter settings

This chapter explains the relevant settings and steps for shooting settings, image settings, and advanced settings.

3.1 Shooting Settings

The shooting settings have three parameters to adjust the shooting mode: trigger control, image control, and work engine, as shown in Figure 3.1.1.

Param Setting	All Attribute
Shoot	Graphics
TriggerControl AcquisitionMode: Auto TriggerSoftware: Execute	
ImageControl 2DAcquisitionOutput: LeftIRImage, Rig... 2DImageShow: -	
WorkingEngine MatchMethod: Accurate DepthResolution: 1904*1728	

Figure 3.1.1 Shooting Setting Parameter Interface

Explanation of shooting setting parameters:

Trigger mode selection: The camera captures the trigger signal before each frame of the image. After the camera is running, it will only start collecting when it receives a frame trigger signal. You can choose soft triggering, free collection, or hard triggering.

Soft trigger: Controlled by an external program to trigger a shooting signal.

Free collection: Controlled by the collection button of this software, shooting can be triggered with a single button.

Image Setting		All Attribute
Shoot	Graphics	Advance
MonoCamera		
SensorExposure	10000	
SensorGain	1	
ColorCamera		
SensorExposure	10000	
SensorGain	1	
ImageProcess		
Denoising		☒
Radius	20	
Neighborhoods	500	
DepthWLSFilter		☒
Lambda	5	
SigmaColor	0.80	
HoleFilling		☒
FillingArea	200	
DepthRegistration		☒

Figure 3.2.1 Image Setting Parameter Interface

Explanation of Image Setting Parameters:

Infrared camera: Control the exposure time and camera gain of the infrared camera.

Camera exposure time: The time that light falls on the image sensor, and the larger the value, the brighter the image.

Camera gain: Used to increase image brightness in low light conditions.

Color camera: Control the exposure time and camera gain of the color camera.

Camera exposure time: The time the light falls on the image sensor, the larger the value, the brighter the image.

Camera gain: Used to increase image brightness in low light conditions.

Image processing: Algorithms control image effects by setting thresholds

Denoising: Remove image noise and display denoising related parameters when the button is turned on.

Search radius: The radius of a search range defined around each pixel or data point as the center

Neighborhood quantity: The number of adjacent points (pixels or data points) that are used to participate in denoising calculations for the current processing point.

Smooth filtering: Smooth the image and display smoothing related parameters when the button is turned on.

Filter kernel size: The size of the filter used in the smoothing operation.

Filter threshold: If the threshold is exceeded before and after filtering, it is set as an invalid point.

Hole filling: repairing holes or missing parts in the image

Filling area: the size of the hole area that needs to be filled

Registration: Align the depth map and color map pixels.

3.3 advanced setting

Load or maintain the pre-set parameter configuration scheme. As shown in Figure 3.3.1.

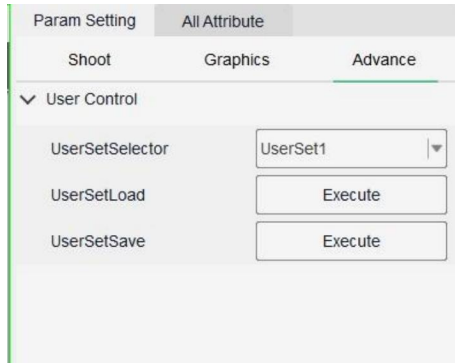


Figure 3.3.1 Advanced Settings Interface

Advanced settings parameter description:

Parameter scheme selection: Choose a pre stored parameter scheme, which can pre store 5 parameter schemes.

Parameter loading: Load the selected pre stored solution.

Parameter maintenance: Maintain the configured parameter scheme.

DeviceScantype

DeviceVendorName

DeviceModeName

DeviceManufacturerInfo

DeviceVersion

DeviceFirmwareVersion

DeviceSerialNumber

DeviceID

DeviceUserID

DeviceUptime

DeviceTemperate

4. Explanation of Camera Attribute Parameters

This chapter explains the attribute parameters of the camera.

The 3D structured light camera supports three user level selections: Beginner, Expert, and Guru, with slightly different parameter items in the corresponding attribute window for each level.

The parameter items displayed in black indicate that the parameter can be modified or set, while the parameter items displayed in gray indicate that the parameter does not support modification or setting in the current operating mode.

4.1 DeviceControl

In the properties, device information can be viewed and device names can be modified, as shown in Figure 4.1.1. For detailed parameter settings,

属性	值
▼ Device	
▼ DeviceControl	
DeviceType	Transmitter
DeviceScanType	Areascan
DeviceVendorNa...	OPT
DeviceModelName	OPT-LSA1-200-02
DeviceManufact...	Machine Vison
DeviceVersion	V1.1.0.1_0328
DeviceFirmware...	2025031372000001
DeviceSerialNu...	I24C130002
DeviceID	I24C130002
DeviceUserID	
DeviceUptime	105428
DeviceTemperat...	44.300

Figure 4.1.1 Equipment Management

4.2 MonoCameraControl

In this attribute, the size and pixel format of the image captured by the current device can be modified, as shown in Figure 4.2.1.

▼ MonoCameraControl	
WidthMax	1904
HeightMax	1728
Width	1904
Height	1728
ExposureTime	10000
Gain	1

Figure 4.2.1 Image Format Management

WidthMax: Maximum image width.

HeightMax : Maximum image height.

Width: The actual width of the output image.

Height: The actual height of the output image.

4.3 ColorCameraControl

In this attribute, camera gain and exposure time can be set. in compliance As shown in 4.3.1, please refer to Table 4-3 for detailed parameter settings.

ColorCameraControl	
CCWidthMax	2448
CCHeightMax	2048
CCWidth	2448
CCHeight	2048
CCExposureTime	10000
CCGain	1

Figure 4.3.1 Color camera parameters

CCWidthMax: Maximum image width.

CCHeightMax : Maximum image height.

CCWidth: The actual output color image width.

CCHeight: The actual output color image height.

CCExposureTime: Color camera exposure time

CCGain: Color camera gain

4.4 ImageFormatControl

In this attribute, you can set the format and type of camera. As shown in Figure 4.3.1, please refer to Table 4-3 for detailed parameters settings.

ImageFormatControl	
Range3DImage	True
LeftRectifyImage	False
RightRectifyImage	False
LeftIRImage	True
RightIRImage	True
RGB	True
DepthImage	True

Figure 4.3.1 ImageFormatControl

Range3DImage: 3D image.

LeftRectifyImage: Left infrared calibration image.

RightRectifyImage: Right infrared calibration image.

LeftIRImage: Left infrared image.

RightIRImage: Right infrared image.

RGB: Color image.

DepthImage: Depth map.

4.5 AcquisitionControl

In this attribute, the camera's image capture mode, trigger mode, etc. can be set, as shown in Figure 4.5.1

AcquisitionControl	
AcquisitionMode	Auto

Figure 4.5.1 AcquisitionControl

AcquisitionMode: Trigger mode, divided into soft trigger, free acquisition, and hard trigger

GevMACAddress : The MAC address of the network interface.

GevCurrentIPAddress : Given the current IP address of the network interface.

GevCurrentSubnetMask: The current subnet mask for a given interface

GevCurrentDefaultGateway : Indicate the default gateway IP address used on the given network interface.

GevFirstURL : The preferred network link for devicedescription files.

GevSecondURL : The secondary network link for the device description file.

GevNumberOfInterfaces : Indicate the number of physical network interfaces supported by this device.

GevLinkSpeed : . Represents the transmission speed negotiated for a given network interface, measured in Mbps.

GevMessageChannelCount : Indicate the number of message channels supported by this device.

GevStreamChannelCount : Indicate the number of channels supported by this device

GevHeartbeatTimeout: Indicates the current timeout (in milliseconds).

GevGVCPPendingAck : Allow PENDING_ACK generation.

GevGVCPPendingTimeout: Indicate the longest GVCPC command execution time before the device returns PENDING_ACK..

GevTimestampTickFrequency: Frequency, measured in Hz.

4.6 TransportLayerControl

In this attribute, there are categories containing transport layer control functions, as shown in Figures 4.6.1 and 4.6.2

TransportLayerControl	
PayloadSize	40108104
GevVersionMajor	2
GevVersionMinor	2
GevDeviceModelsBigEndian	False
GevDeviceModeCharacterSet	
GevInterfaceSelector	0
GevMACAddress	48 80 2D 93 30 F5
GevCurrentIPAddress	169.254.184.142
GevCurrentSubnetMask	255.255.255.0
GevCurrentDefaultGateway	169.254.184.142
GevFirstURL	Local:/si-camera.xml;100000;7eb1c
GevSecondURL	

Figure 4.6.1 Transport Layer Control

GevGVCPPendingAck	(Not Available)
GevGVCPPendingTimeout	(Not Available)
GevTimestampTickFrequency	1000000000
GevTimestampControlLatch	(Execute)
GevTimestampControlReset	(Execute)
GevTimestampControlLatchReset	(Execute)
GevTimestampValue	0
GevCCP	ExclusiveAccess
GevStreamChannelSelector	0
GevSCPInterfaceIndex	0
GevSCPHostPort	63314
GevSCPDiretion	0
GevSCPSFireTestPacket	False
GevSCPSDoNotFragment	True
GevSCPSBigEndian	False
GevSCSPacketSize	4080
GevSCPD	10
GevSCDA	169.254.184.141

Figure 4.6.1 Transport Layer Control

PayloadSize: The number of bytes transmitted per image or block.

GevVersionMajor: Main version.

GevVersionMinor: Minor version.

GevDeviceModelsBigEndian: End of device register.

GevDeviceModeCharacterSet : The character set used by all strings in the boot register.

GevInterfaceSelector : Select the physical network interface to be controlled

GevTimestampControlLatch : This command locks the current timestamp value of the device.

GevTimestampControlReset: This command resets the timestamp value of the device.

GevTimestampControlLatchReset: This command resets the timestamp control latch.

GevTimestampValue : Read only element, showing the latch value of the timestamp. (You must first use the timestamp Control Latch command to latch the timestamp).

GevCCP : Control device access permissions for application programs.

GevStreamChannelSelector : Select the flow channel to be controlled.

GevSCPIInterfaceIndex: Index of the network interface to be used.

GevSCPHostPort: The host port of the channel.

GevSCPDirection: Sending or receiving information.

GevSCPSFireTestPacket: Send test data packets.

GevSCPSToNotFragment: Copy to the 'Do not segment' bit in the IP header of each packet.

GevSCPSBigEndian : The end of the multi byte pixel data in this stream.

GevSCPSPacketSize : Specify the size (in bytes) of the stream packets to be sent on this channel.

GevSCPD : Indicate the delay (in units of timestamp counter) inserted between each packet in this flow channel.

GevSCDA : Indicate the destination IP address of this streaming channel.

GevSCSP: Indicate the source UDP end of this streaming channel

GevSCPSPacketSize : Specify the size (in bytes) of the stream packets to be sent on this channel.

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4.7 UserSetControl

In this attribute, user information settings are included, as shown in Figure 4.7.1.

UserSetControl	
UserSetCurrent	1
UserSetSelector	UserSet1
UserSetLoad	{Execute}
UserSetSave	{Execute}
UserSetDefault	Default

Figure 4.7.1 User Settings

UserSetCurrent: User settings, indicating the user set currently in use. During initialization, the camera loads the most recently saved user set.

UserSetSelector: Select the configuration set to load, save, or configure.

GevSCPSPacketSize: Specify the size (in bytes) of the stream packets to be sent on this channel.

UserSetLoad: Execute parameter loading).

UserSetSave: Save execution parameter

