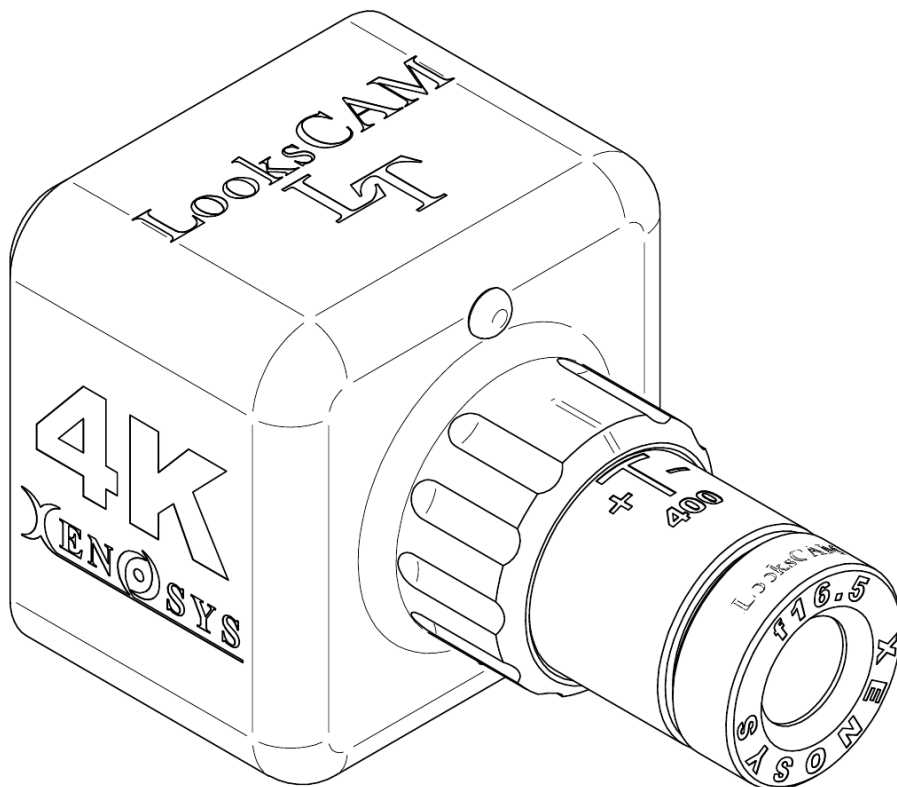


LookSCAM LT CAMERA SYSTEM User Manual



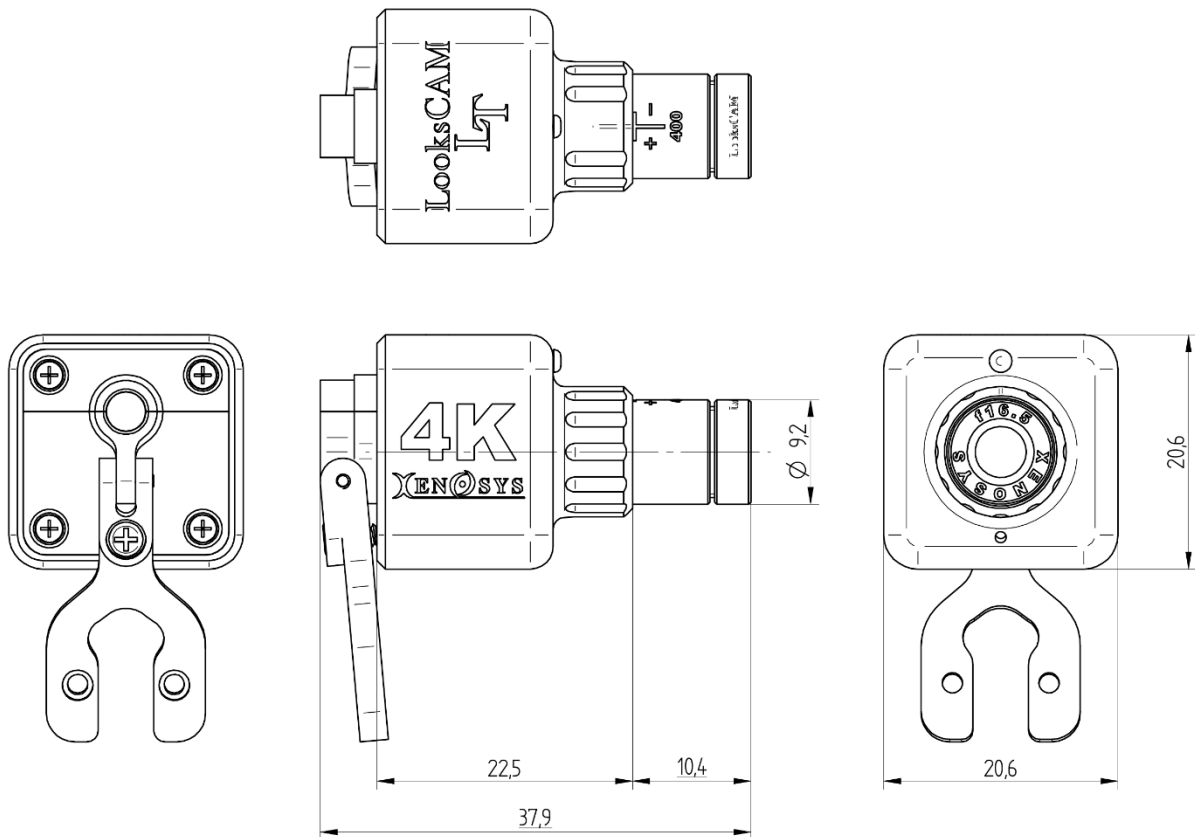
Optical Device Medical Device System Engineering
XENOSYS CO., LTD.
2, Venture ro, 100 Beon gil, Yeonsu gu, Incheon 22013, Korea
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INTRODUCTION



This product is an external medical camera for taking pictures of a patient's affected area or surgical operations from outside the body during surgeries or medical treatment at a medical institution. It consists of a camera assembly, USB cable assembly, and LED lighting (optional).

To observe the images input through the camera assembly in real time, connect the provided USB cable to a mobile device (Android, iPadOS, Windows, macOS) to view the affected area and surgical scene, or view it on a monitor via USB-HUB (optional). The recorded image file is saved in the mobile device's built-in memory or the mobile device's micro-SD card.

The purpose of this product is as follows:



1. This product is a portable camera, so there are no restrictions on movement.
2. Since LED light and recording can be done simultaneously in the same direction as the surgeon's line of sight, clear images without shadows can be recorded.
3. Since the depth of focus is large, the focus is well-aligned during surgery.
4. When the trainee sees the recorded video, there is an advantage in that he or she can view it from the surgeon's perspective.

This product is a medical device, and the manufacturing approval and reporting requirements from KFDA is as follows:

Registration No.	1909	Certificate No.	Gyeongin Jesin 07-117
Product Category I	General Instruments	Class	Class 1
Product Category II	A31000 Medical Mirror	Product Category III	A31020.01 External Medical Camera
Product Model No.	LooksCAM LT		
Manufacturer	Xenosys Co., Ltd.		
Country of Origin	Republic of Korea		

SAFETY & PRECAUTIONS

Before use, read the precautions in the user manual carefully and use the product correctly. Failure to follow the precautions below regarding product use and management may result in fire, damage, or fatal accidents.

Item	Symbols	Description	Sources
Prohibition		General prohibition sign	ISO 7001 - P001
Warning		General warning sign	ISO 7001 - W001

WARNING about safety:

- Do not heat in microwave or oven.
- This product is not waterproof, so you should avoid moisture or water. (Ordinary equipment, IPX0).
- Do not use in the presence of nitrous oxide (nitrous oxide gas), air or oxygen and flammable mixtures (flammable anesthetics, flammable disinfectants, skin cleansers, etc.).

WARNING about power:

- The manufacturer is not responsible for any unexpected risks or damages that may occur when using cables not provided by the company.
- If foreign substances or liquids enter the product, stop using the product immediately and contact the service center or headquarters as this may cause fire or electric shock.

WARNING about camera head:

- Do not disassemble or modify the product.
- The camera head housing surface becomes hot during use, so be careful of low-temperature burns when touching it..
- Inserting metal or flammable foreign substances into the product or subjecting it to impact may cause fire or electric shock.
- Dropping the product or subjecting it to a strong impact may cause it to malfunction.
- Do not place in a place exposed to direct sunlight, moisture, dust, or soot.
- When cleaning the product, gently wipe it with a dry, soft cloth or towel.
- Do not use chemicals or detergents on the product as this may cause the surface to deteriorate.
- Prevent children and pets from sucking or chewing it.
- The usage conditions of the product must be maintained according to the conditions in the table below.

Environment of Usage (Operation)	
Ambient Temperature	6°C ~ 40°C (43°F ~ 104°F)
Relative Humidity	30 ~ 85% at 6°C ~ 40°C (43°F ~ 104°F)
Pressure	860 hPa ~ 1060 hPa



WARNING about LED light module:

- Since it is an optical product, avoid impact.
- When cleaning the product, gently wipe the lens surface with a soft cloth or towel soaked in an appropriate amount of alcohol.
- Bending the USB cable too sharply or applying excessive force to it may cause it to malfunction.
- The housing surface of the LED lighting lens module becomes hot during use, so be careful when touching it.
- When lighting, do not point the LED light lens toward your eyes. Direct exposure of your eyes to strong LED light can cause fatal eye damage.



WARNING about disposal


- Careless disposal of this product may pollute the environment, so please separate it for recycling.

FEATURES

1. Operation Principle

The 8.0 Mega-pixel CMOS image sensor and high-quality wide-angle lens enable clear 4K recording and recording (snapshots), and the product is easy to install and operate, making it easy to use. The recorded video can be streamed, played, and recorded on mobile devices (Android, iPadOS, Windows, macOS).

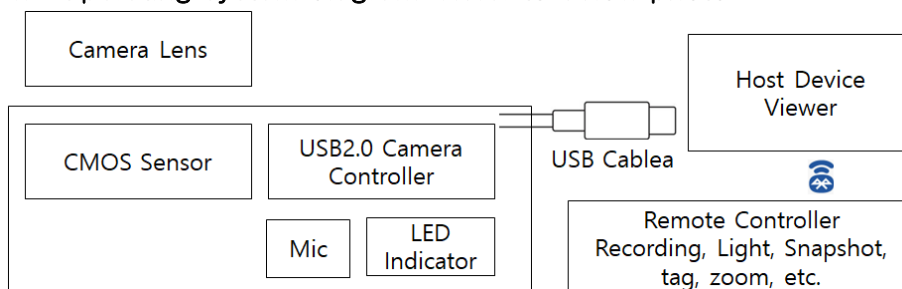
2. Electrical Rating

- 1) Camera operating voltage and current: DC 5 V  270 mA
- 2) Remote controller: AAA batteries 2 pcs (1.5 V x 2 = 3 V), 3.7 mA

3. Camera Module Product Specification

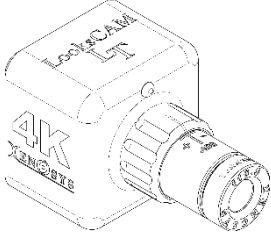
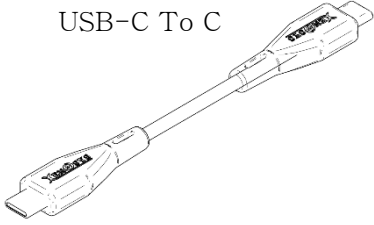

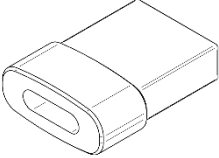
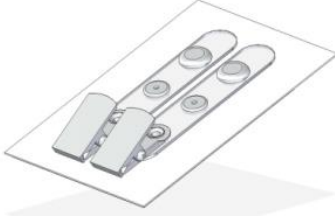
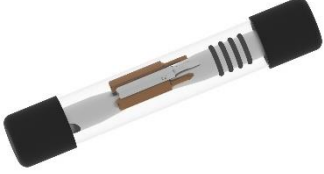

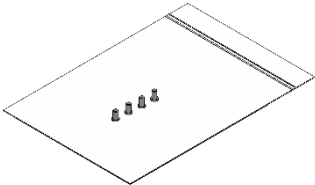
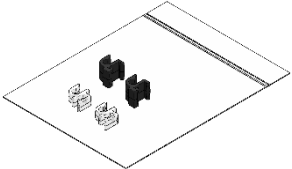
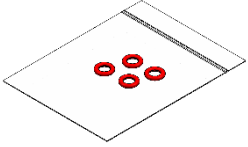
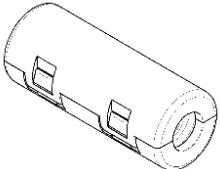
Item	Contents
Image Sensor	8MP 1/2.8-inch CMOS Sensor
Resolution	UHD(4K,2160p), FHD (1080p) or HD (720p) / 15~30fps
Pixel Size	1.45*1.45μm
Output Format	MJPEG, MP4 (H.264 for storage)
Lens & Field of View (Horizontal FOV)	f13 HFOV165 @WD 400mm f16.5 HFOV130 @WD 400mm f20 HFOV100 @WD 400mm
Audio Input	Digital Microphone
Focus Mode	Manual Focus
Shutter Mode	Electronic Rolling Shutter
Output & Power Supply	High Speed USB2.0
Supported OS	Android, Windows, iPadOS, mac OS. (UVC-compliant, Plug and Play for Windows)
Viewer	LooksCAM LT Exclusive viewer
Unit of one recorded file	30 minutes (About 8GB)

4. Operating system diagram: Refer to below photo


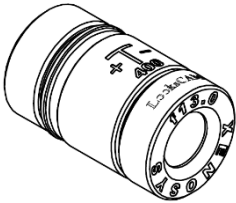
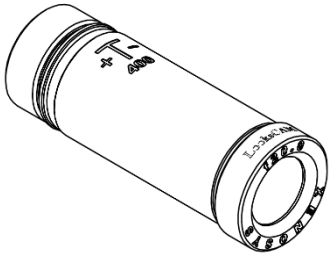
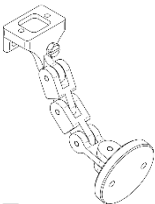
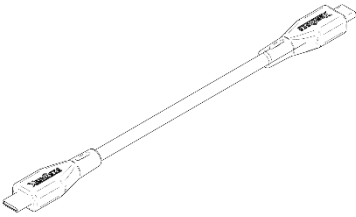




COMPONENTS

1. Basic Components

 <p>LCLT-CU + LTCLF16.5</p>	 <p>USB-C To C</p> <p>USBC-LT800</p>	 <p>3. LooksCAM LT Quick Manual</p>
<p>1. LooksCAM LT Camera Asembly (f16.5 standard)</p>	<p>2. USB Cable (0.8m)</p>	
<p>USB-C Female To USBt typeA Male</p>  <p>USBC TO type A Adapter</p>	 <p>GOC-SET</p>	 <p>DRV03</p>
<p>4. USB Adapter</p>	<p>5. Gown Clip</p>	<p>6. Mini Driver</p>
 <p>CC-01</p>	 <p>M1.7-BS</p>	 <p>CCS-SET</p>
<p>7. Cleaning Cloth</p>	<p>8. M1.7 Screw Set</p>	<p>9. Cable Clip Set</p>
 <p>PCOR</p>	 <p>EMCS-5530</p>	
<p>10. Cable fitting O-ring</p>	<p>11. Ferrite Core</p>	

2. Option & Separate Items to purchase

 <p>LCLT-RC</p>	 <p>LTCLF13</p>	 <p>LTCLF20</p>
<p>1. LooksCAM LT Remote controller</p>	<p>2. f13 lens assembly</p>	<p>3. f20 lens assembly</p>
 <p>MLA-LT</p>	 <p>USBC-LT5000</p>	 <p>RHB02-</p>
<p>4. LT attachment link assembly</p>	<p>5. USB Cable (5m)</p>	<p>6. Headband</p>
 <p>LC2-CC01</p>		
<p>7. Carrying Case</p>		

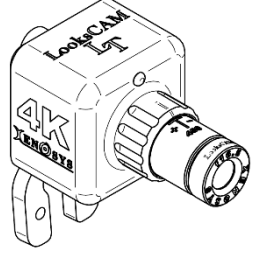
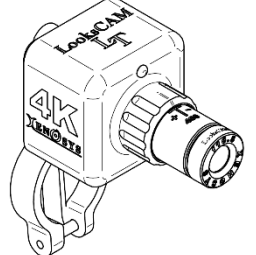
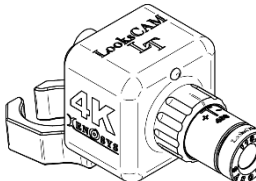
※ LCLT-RC AAA batteries are not included in the package



WARNING:

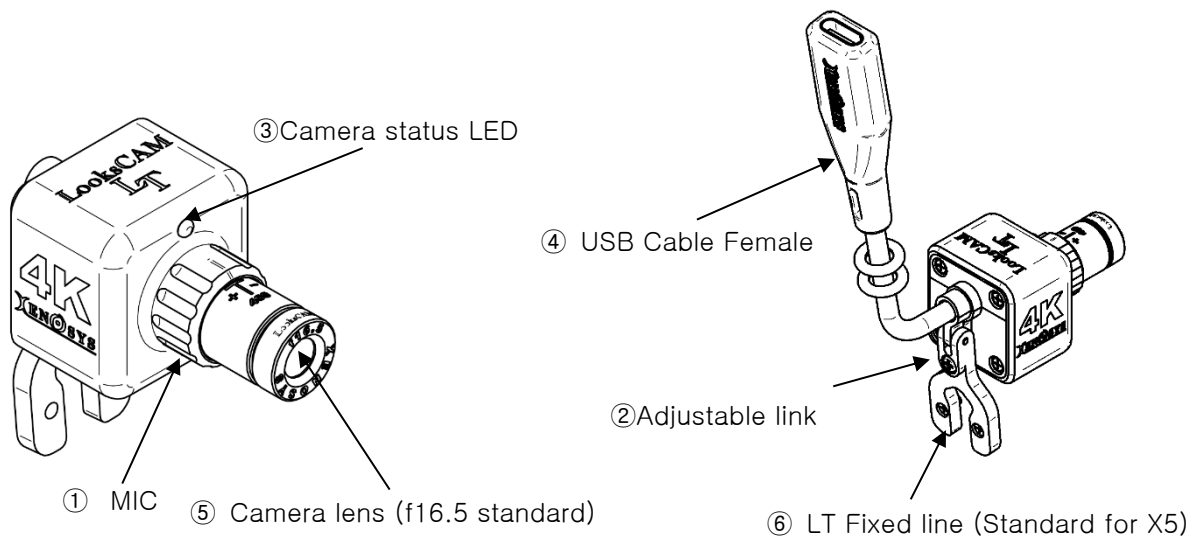
Components are subject to change without notice for equipment safety and performance.

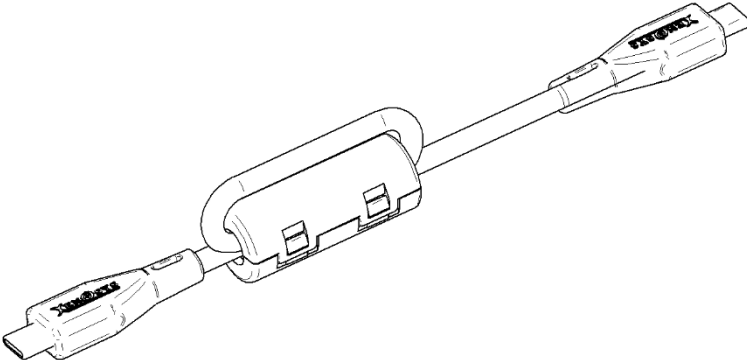
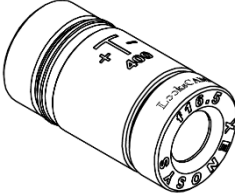
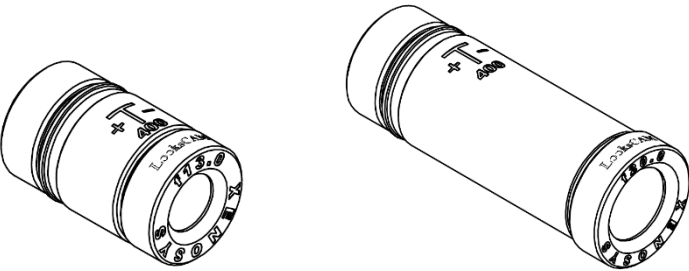
3. Order Item No. (Example)

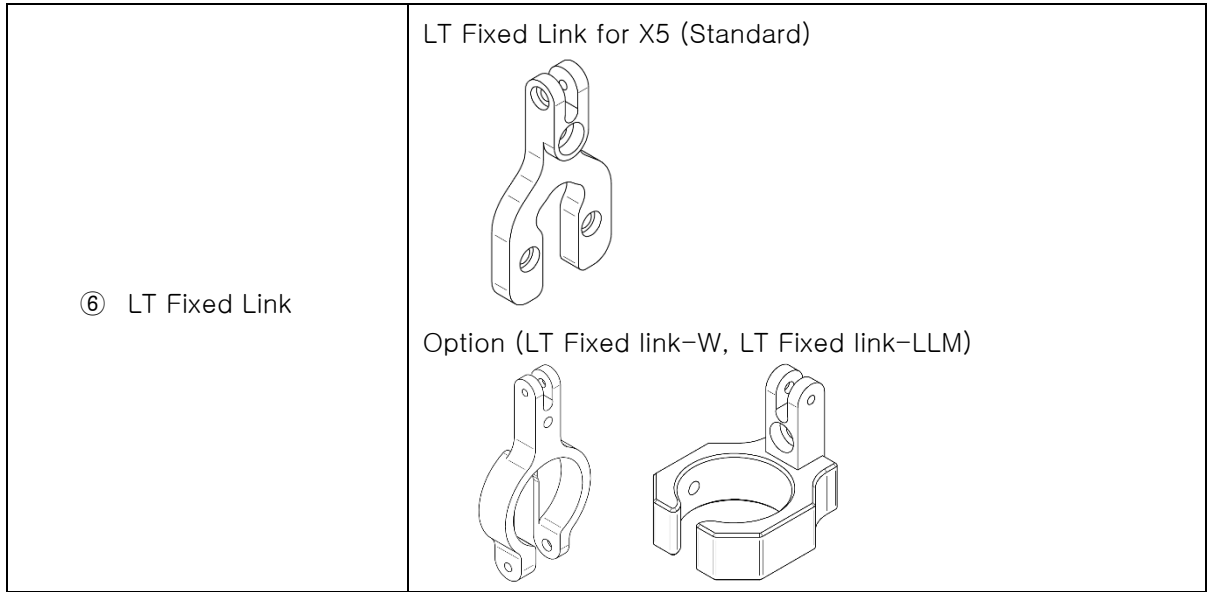
Order Item No.	Basic Component	Reference
LCLT-0000-f16.5-X5	LooksCAM LT Assembly X5 MOUNT	
LCLT-0000-f16.5-W	LooksCAM LT Assembly L2SW MOUNT	
LCLT-0000-f16.5-LLM	LooksCAM LT Assembly L2S14C, L2S15, XD MOUNT	

EACH COMPONENT & FUNCTIONS

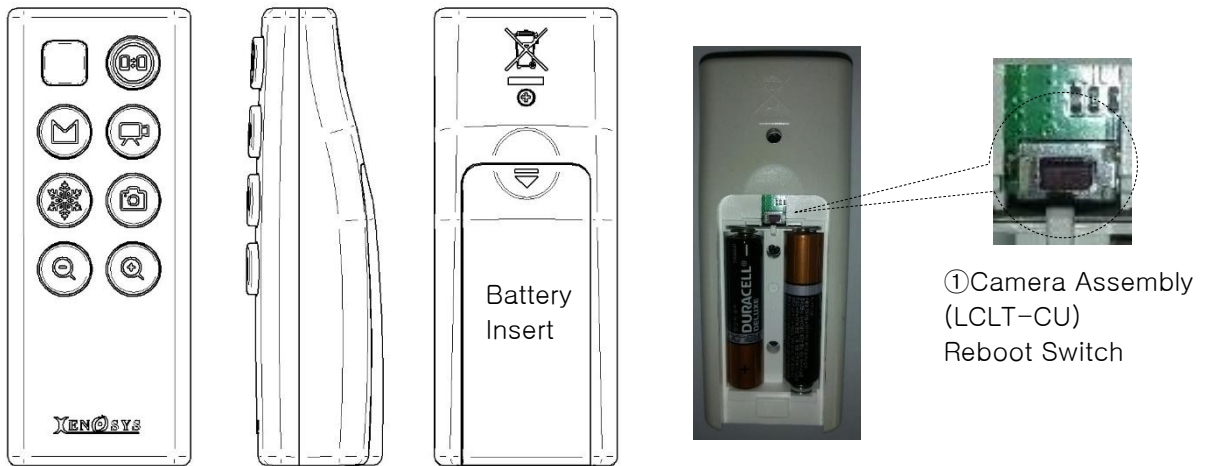
1. LooksCAM LT Camera Control Unit (LCLT-CU)



Description	Function
① MIC	Microphone input
② Adjustable link	Enable to adjust LT camera assembly to up-down
③ Camera status LED	LED Off: Waiting for viewer connection LED On: Viewer connection complete status
④ USB Cable Female	<p>Connect to the USB-C port of the mobile device using the USB cable USBC-LT800 or USBC-LT5000.</p> <p>When connecting, it is recommended to wrap a ferrite core around the mobile device (PC) side to reduce signal interference (EMI).</p> 
⑤ Camera Lens	<p>f16.5mm Camera lens (Standard)</p>  <p>Option (f13mm, f20mm)</p> 





2. Remote Controller (LCLT-RC)








Power Type: 2 x AAA batteries (1.5V × 2 = 3V)



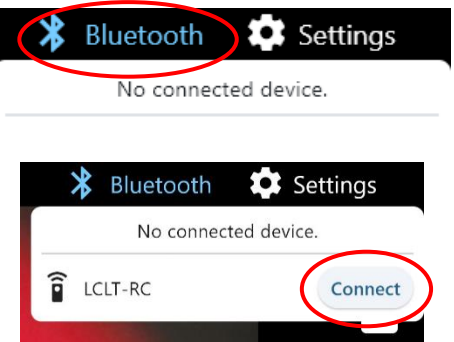


※ LCLT-RC AAA batteries are not included in the package

Power Consumption: 3.7 mW

Description	Function
 Record button	Video recording start/stop button. Use as a viewer and pairing settings button (refer to pairing settings method)
 Snapshot button	Photo shoot button

 Pause button	<p>A feature that freezes the screen when you press the pause button in the video stream.</p> <p>When you press the snap shot button in the pause state, the frozen screen is saved.</p> <p>If you are recording a video, the screen is paused but recording continues.</p> <p>At this time, if you want to save the frozen screen, press the step shot button.</p>
 Hightlight tag button	<p>When you press the highlight tag button while recording or playing a video, specific moments will be marked in the recording file.</p>
 Zoom in button	<p>It is a digital zoom-in, zoom-out function</p>
 Zoom out button	<p>Magnification 1.0~8, The scale factor works at 0.5x, It works even while recording, and the recording file is saved as 1x by default.</p>
 Pairing button	<p>Use to set up pairing with the viewer (See how to set up pairing)</p>

3. How to set up pairing (Remote controller (LCLT-RC) & Viewer)

<p>How to set up pairing</p> <ol style="list-style-type: none"> 1. Press the “REC” button on the remote control (LCLT-RC) (try pairing for 30 seconds) 2. Press the viewer BLE button  <p>-> Select “LCLT-RC” from the selection device</p> <ol style="list-style-type: none"> 3. Pairing complete. 	  
<p>How to unpair</p> <ol style="list-style-type: none"> 1. Press the viewer BLE button  <p>->Unpair “LCLT-RC” from the selected device</p> <ol style="list-style-type: none"> 2. Unpairing complete. 	

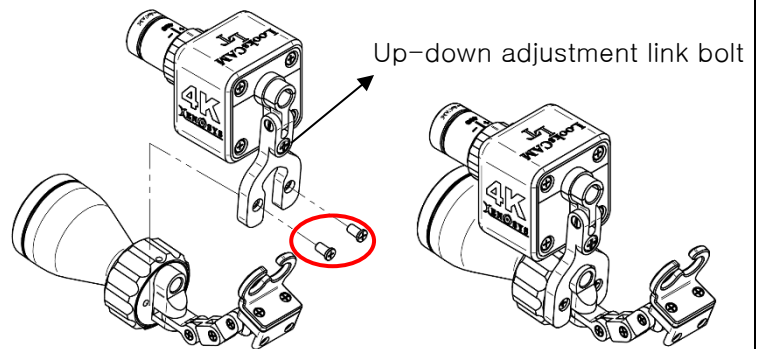
 **WARNING:**

If you are not going to use it for a long time, you must keep it in an unpaired state to reduce battery discharge (AAA).

INSTALLATION

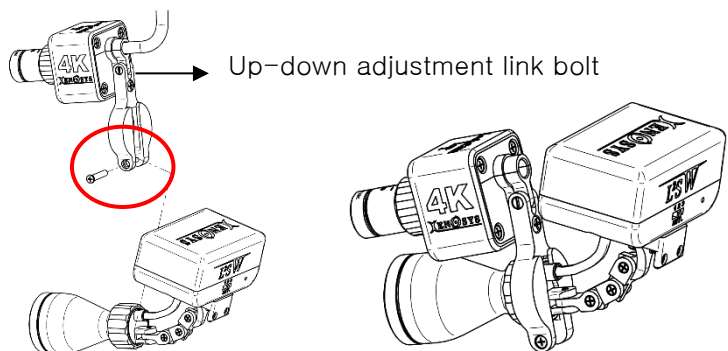
1. LooksCAM LT Assembly X5 MOUNT

- 1) Slide the LooksCAM LT assembly (LCLT-CU) down into the X5 lens module assembly.
- 2) Fasten the two bolts (M1.7-3).
- 3) Adjust the upper and lower adjustment link bolts to adjust the light and camera angles.



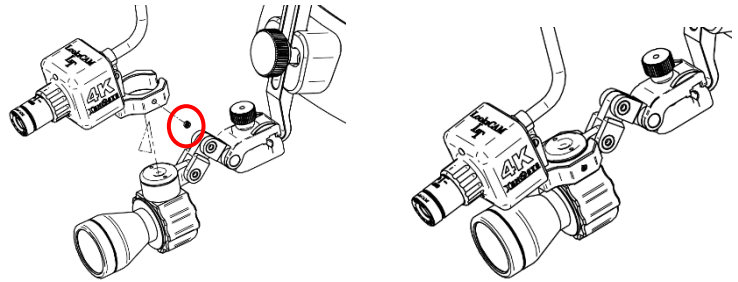
2. LooksCAM LT Assembly L2SW MOUNT

- 1) Slide the LooksCAM LT assembly (LCLT-CU) down into the L2SW lens module assembly.
- 2) Fasten one bolt (M1.7-8).
- 3) Adjust the upper and lower adjustment link bolts to adjust the light and camera angles.



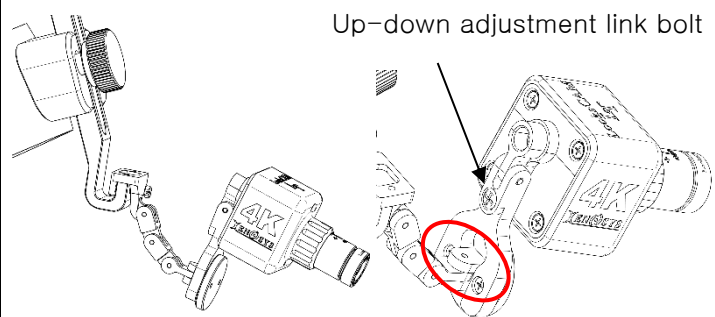
3. LooksCAM LT Assembly LLM (L2S15, L2S14C, XD) MOUNT

- 1) Slide the LooksCAM LT assembly (LCLT-CU) down into the LT module assembly.
- 2) Fasten one bolt (M2).

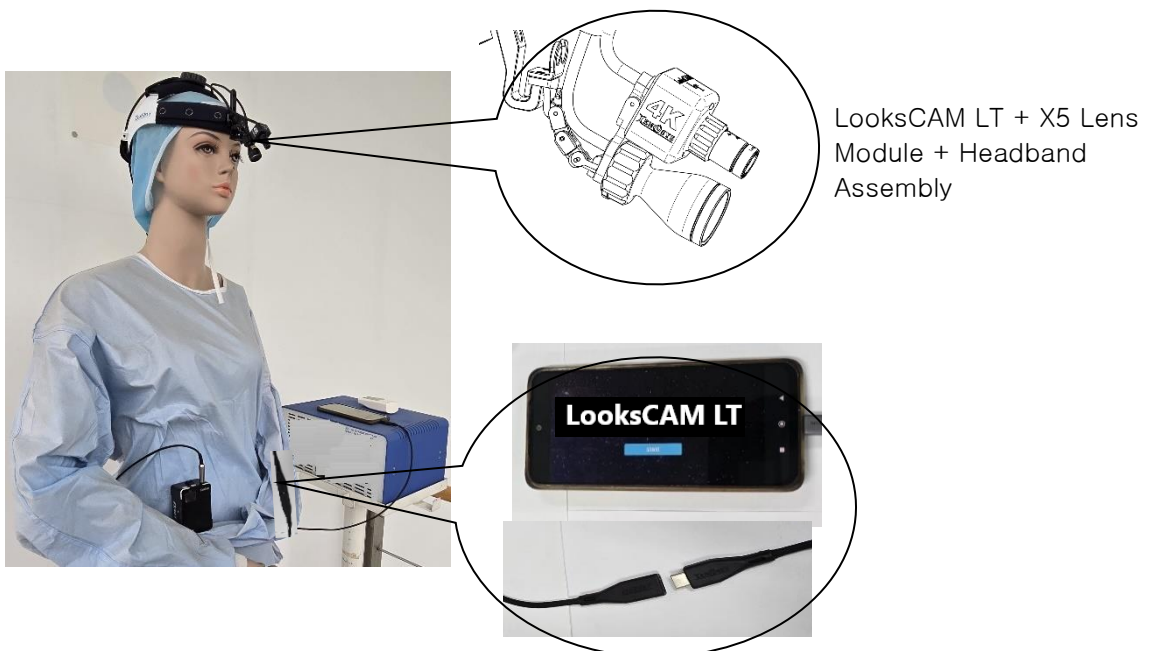


4. LooksCAM LT Assembly Headband (RHB02) MOUNT

- 1) Slide the LooksCAM LT assembly (LCLT-CU) down into the LT mounting link assembly (MLA-LT).
- 2) Fasten the two bolts (M1.7-3).
- 3) Adjust the upper and lower adjustment link bolts to adjust the light and camera angles.



5. Connect between LooksCAM LT Assembly and Mobile device



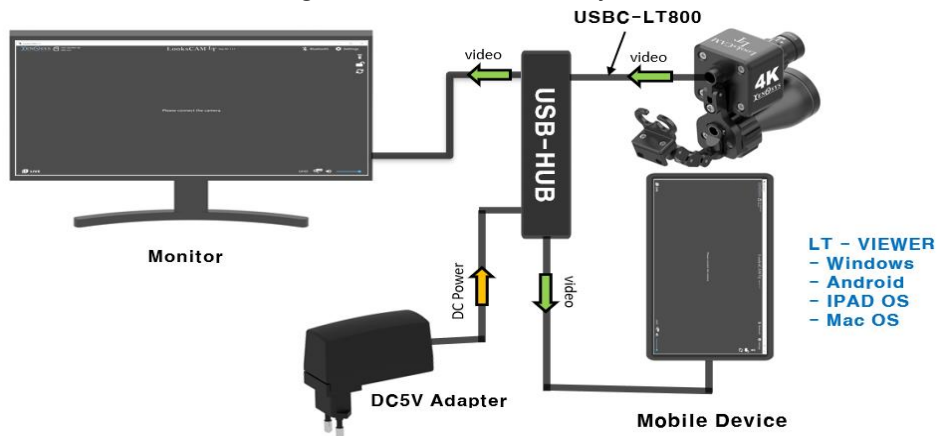
1. Installation

- 1) Attach the LED light lens module to the LooksCAM LT assembly.
- 2) Fix the LED light lens module's fixing clamp to a regular pair of glasses or headband.
- 3) Connect the USB cable (USBC-LT800) to the USB Female socket
- 4) Connect the USB cable (USBC-LT800) to the USB-C port of your mobile device (e.g. Android phone). When connecting, **it is recommended to wrap a ferrite core around the mobile device side to reduce signal interference (EMI).**

⚠ WARNING:

The camera works most reliably when connected to a USB port directly connected to the PC motherboard. Connecting to a USB port separate from the motherboard can cause problems such as noise or connection failure due to signal interference or lack of power.

- 5) Connect to the monitor using USB-HUB if necessary.



- 6) To check the camera alignment status and video status, run the dedicated viewer on your mobile device and check the video.

⚠ WARNING:

If you use a USB hub (especially a non-powered hub) or USB extension cable, the data transmission signal may be weakened or the camera may not operate properly due to a lack of power.

2. How to store or preserve after use

- 1) After use, be sure to clean the product thoroughly so that it does not interfere with the next use.

* Clean the camera lens surface with a soft cloth. If it is heavily contaminated, apply a small amount of neutral detergent and wipe it. However, be careful not to allow moisture to enter the camera assembly (LCLT-CU).

- 2) Store the product in a place where there is no concern that it will be affected by air pressure, temperature, humidity, ventilation, sunlight, dust, salt, or ions.
- 3) Store in a safe place away from slopes, vibration, and shock.
- 4) Avoid places where chemicals are stored or gas is generated.
- 5) If a malfunction occurs, stop using it immediately and contact the dealer where you purchased it to request repairs.
- 6) Do not disassemble, repair, or modify the product arbitrarily.

INSTALLATION OF VIEWER & OPERATING INSTRUCTION

1. Installation of viewer

- 1) You can check the real-time video of LooksCAM LT through a dedicated viewer.
- 2) Recommended specifications for viewer use (firmware, H/W, memory, etc.)

Android – RAM: 4 GB (Recommended more than 6 GB)

Android OS More than 10. Screen resolution more than QHD

iPadOS – More than iPadOS 17.0

Supporting USB-C type port necessary, More than A14 or more than M1 AP supported model

(iPad Pro 5 gen., iPad Air 4 gen., iPad mini 6 gen, iPad more than 10 gen.)

Windows – OS : More than Windows 10

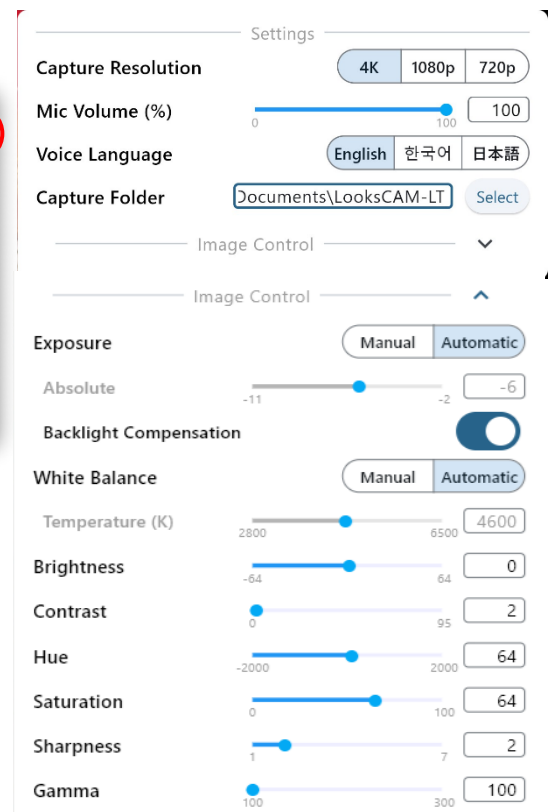
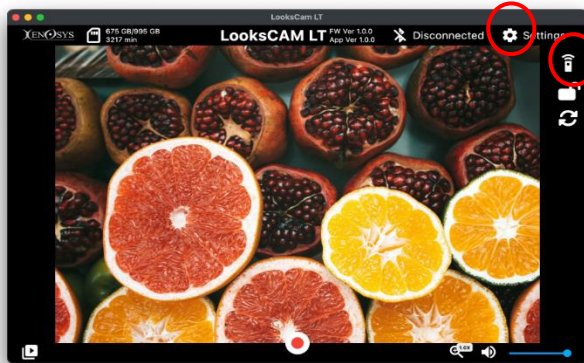
RAM: 8 GB, CPU : Intel more than i5 7 gen. or AMD same class processor

MaxOS – OS: More than macOS 12.1 (Monterey)

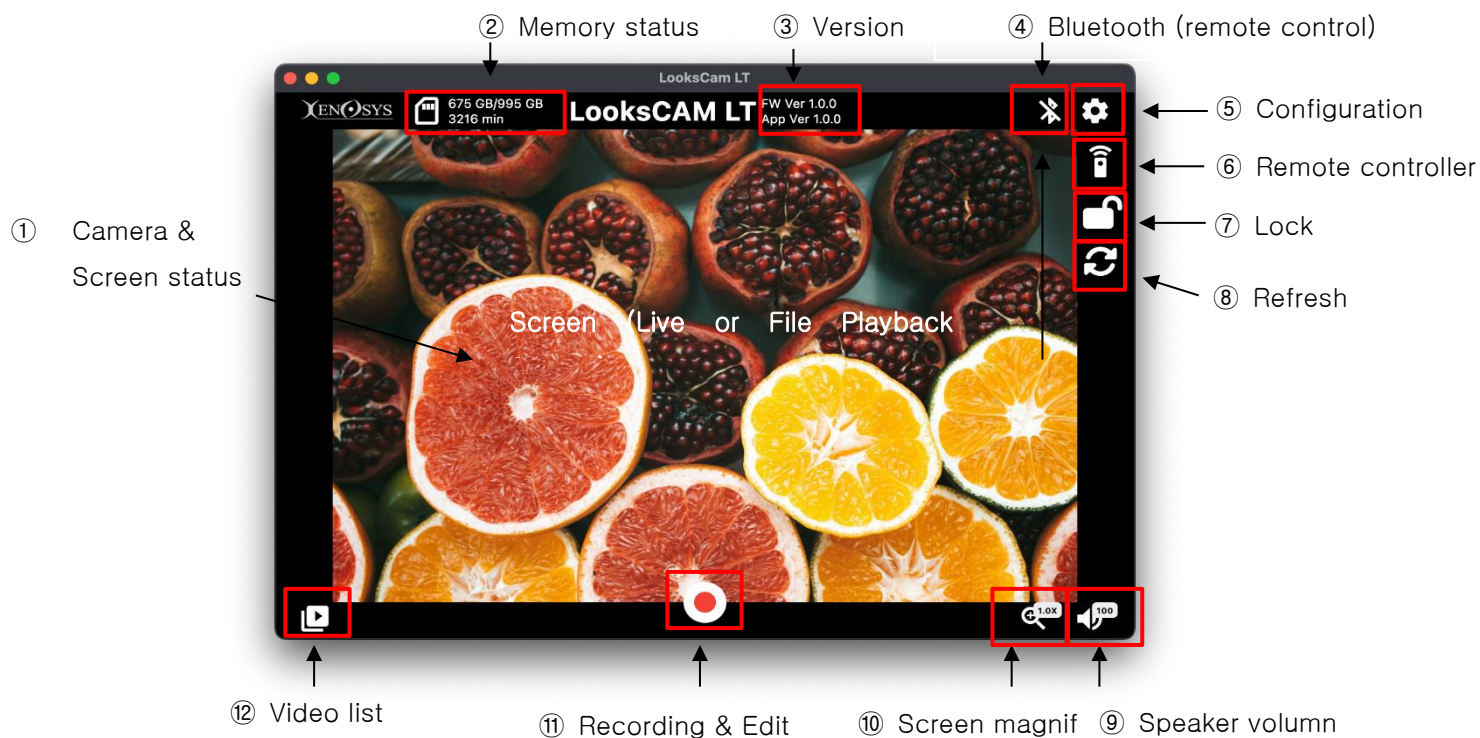
CPU : More than Apple M1

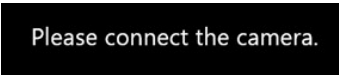

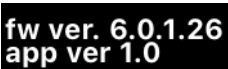
Supported Codecs – H.264 or H.265 (HEVC)

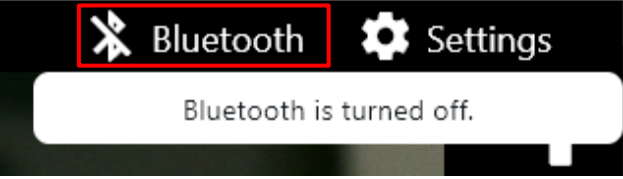


- 3) Install the “LooksCAM-LT” app from the Play Store for Android and the App Store for iPadOS. The installation program for Windows and macOS is provided by Xenosys, download and install it.

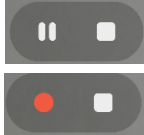




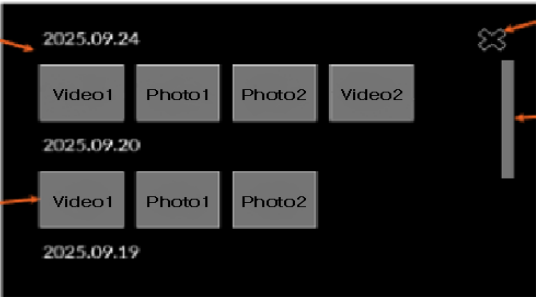


2. Viewer screen parts names and functions



Function	Description	
① Camera & Screen status	When you run the viewer, it automatically connects to LooksCAM LT and shows the video in real time (Live or File Playback screen).	
	 <p>Please connect the camera.</p>	If your mobile device and USB cable are not properly connected, the viewer will display the message "Please connect the camera."
② Memory Status		Free space/capacity Show recording time
③ Version		LooksCAM LT firmware version viewer app version display.

<p>④ Bluetooth connection status</p>	<p>L2SX5 LED lighting module (BLE supported model) can control the light through the viewer.</p>  <p>The Bluetooth device on the mobile device is active. Pair the viewer and remote control with reference to “How to set up pairing”.</p> 	
<p>⑤ Configuration</p>	<p>Configure the video save location and image environment settings, etc. (Refer to “3. Details of configuration option” below.)</p>	
<p>⑥ Remote controller</p>	<p>It has the same function as the remote control (LCLT-RC).</p>	
<p>⑦ Lock button</p>	<p>Camera & screen status indicators are fixed in their current state</p>	
<p>⑧ Refresh button</p>	<p>If you want to refresh or replay the live screen of LT Viewer</p>	
<p>⑨ Speaker volume</p>	<p>Control speaker volume on your mobile device</p>	
<p>⑩ Show screen magnification</p>	<p>Applying the pinch-to-zoom function (touch devices) Using the mouse wheel (PC) Applying magnifications of 1 to 8 (moves in 0.5 magnification units)</p>	
<p>⑪ Recording button and screen editing section</p>		<p>When you press the Start Recording button, the video will start saving to your mobile device.</p> <p>It is saved in 30-minute increments. Certain operating systems (OS) make a snapshot sound before recording starts (in 30-minute increments). (User notification, privacy protection)</p>

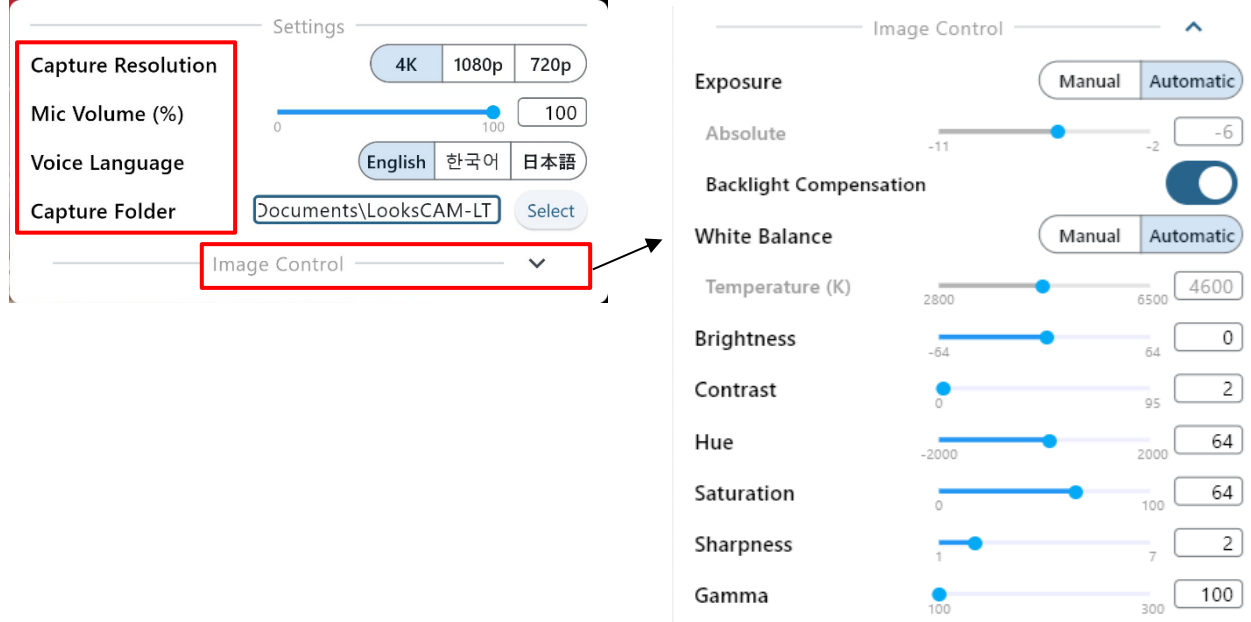
		<p>Pause button (left, shaped like two vertical bars): This button pauses recording when you press it while recording is in progress. This means that the video you have recorded so far will be saved, but you can temporarily stop recording and continue recording later. If you press it again while in the pause state (shaped like a red circle), recording will resume.</p> <p>Stop button (right, shaped like a square): This button completely stops recording. After recording ends, it is saved as a new file, and when you start recording again, a new recording file is created.</p>
		<p>Used to select a specific section from a playback file and save it as a new file.</p>  <p>Set the file edit(cut) range</p> <p>Save the cut section as a new video</p>
	 Highlight Tag	<p>When you press the highlight tag button on the remote control while recording, the tag display appears on the playback screen as shown below.</p>  <p>Show highlight tag location</p> <p>Switch to live screen</p> <p>Play / Pause button</p>
⑫ Video list	<p>Clicking the Video List button will display a list of videos mortgaged to your mobile device.</p> <p>Sort out by recent Video</p>  <p>Go to the playback screen when selecting a photo or video</p> <p>Go back</p> <p>Scroll</p>	



WARNING:

Some features of the viewer may not be displayed or work depending on whether the OS supports them.

3. Details of Configuration option



- 1) Set the resolution of the recording file. UHD (4K, 2160p), FHD (1080p), or HD (720p). The set resolution is displayed at the bottom right of the screen.



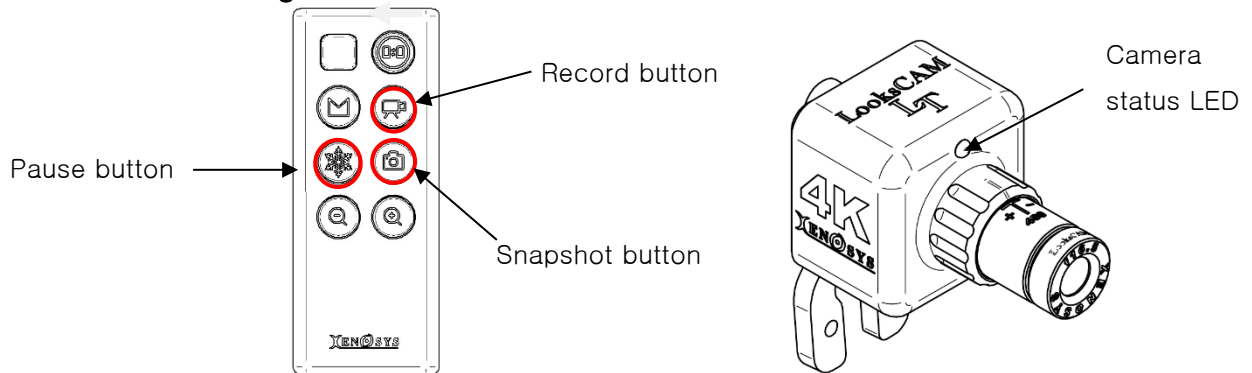
- 2) MIC Volume: Turns the microphone sensitivity of the recording file On/Off.
- 3) Voice Language: Select the language for the main notification message.
(Example) Memory shortage, recording start-stop, etc.
- 4) Capture Folder: Select the location where you want to save the recording file.
- 5) Image Control: Image colors can be modified or set automatically (automatic recommended).



WARNING:

Be careful when setting Exposure and Backlight Compensation: Longer exposure times or enabling Backlight Compensation may improve image quality, but may lower frame rates.

4. Video recording



- 1) Check that the LooksCAM LT assembly is properly connected to the USB-C port of your mobile device and run the dedicated viewer app to check that the camera status LED is normal (On).
- 2) [REC] Press the record button to start recording.
- 3) Pressing the record button again during recording will stop recording.
- 4) MIC setting is always ON, and the video recording file is saved with audio as well..
(MIC Off sets MIC Volume to 0% in the viewer settings)

WARNING:

If you use the main body in direct contact with your skin, there is a risk of low-temperature burns due to heat generation, so be careful when touching.

5. Video Pause & Snapshot

- 1) Pressing the Snap button captures the current screen and saves it as a photo.
- 2) If you press the pause button, the current video will stop, and if you want to take a picture, press the snap button. At this time, if the video is being recorded, the screen will stop, but the recording will continue.

WARNING: SD card memory recording time warning sound

- If the recording time is less than 1 hour, a warning sound is output once.
- If the recording time is less than 30 minutes, a warning sound will be output once.
- If the recording time is less than 10 minutes, a warning sound will be output 3 times.

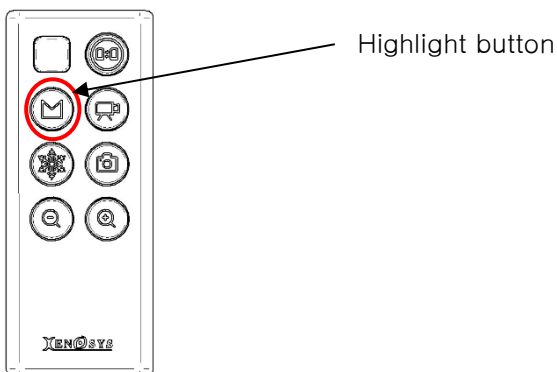


WARNING:

- Recording creates files in 30-minute increments.
- The location of the recording file folder is <Folder location specified in settings=d:DCIM> d:/DCIM/YYYYMMDD/. The extension is mp4 and the encoding mode is H.264.
Example of the name of the generated file: YYYYMMDD_hhmmssXX.mp4 (year-month-day_hour-minute-second-number.mp4)
- When the recording file exceeds the set unit of 30 minutes (approximately 8 GB), the next file is automatically created.

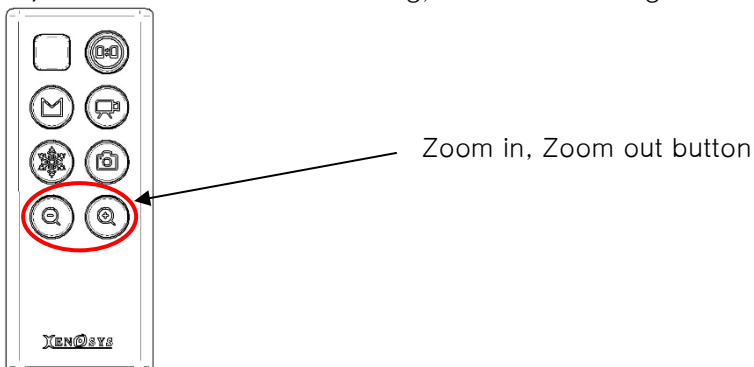
6. Insert Highlight tag

- 1) When you press the highlight tag button while recording a video, specific moments will be marked in the recording file.
- 2) You can easily find important moments through highlight tags..



7. Zoom In, Zoom Out

- 1) “Zoom”: Digital zoom in, zoom out function,
Magnification 1.0~8, The scale factor works at 0.5x.
- 2) It works even while recording, and the recording file is saved as 1x by default.



BASIC TROUBLESHOOTING



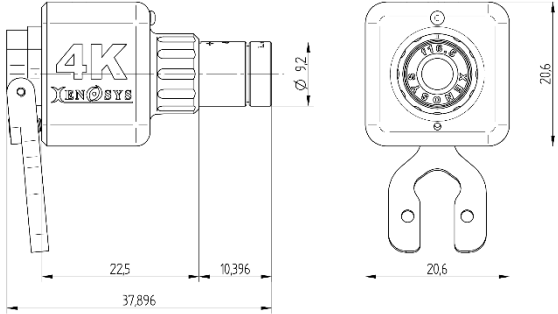
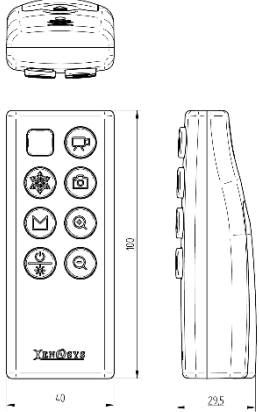
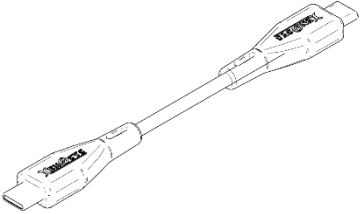
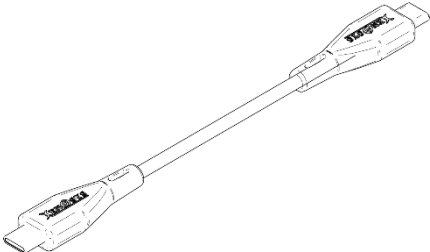
WARNING before applying after-sales services:

- Important data stored in the device must be regularly backed up by the user (stored separately). In some cases, all data in the product may be deleted for A/S.
- Before applying for A/S, users must personally back up important data.
- All A/S products received by Xenosys Co., Ltd. are considered as products that users have backed up, and no separate backups are performed. Therefore, please note that all responsibility for data management lies with the consumer.

Symptom	Troubleshooting	Repair
Camera not recognized	Check USB connection status Use a USB port directly connected to your PC motherboard Try using a different port Reinstall the driver	If not resolved, contact us or request a repair
Video does not play	Check hardware specifications and compatibility Check if your OS supports 4K video Check if you use a supported codec	If playback is not possible after troubleshooting, request repair
Video is choppy (Noise) or delayed	Check for poor USB cable contact Use a USB port directly connected to your PC motherboard Use high-quality USB cables provided by Xenosys	If not resolved, contact us or request a repair
Image quality is poor	Check the camera lens manual focal length Check the resolution setting	If not resolved, contact us or request a repair
Video is not recorded	Check the storage path settings Check the disk capacity	If not resolved, contact us or request a repair
Microphone is not working	Check your microphone settings Check your sound drivers	If not resolved, contact us or request a repair

SPECIFICATIONS

1. Dimensions & Weight








<p>1) LooksCAM LT Camera Control Unit (LCLT-CU)</p> <p>① Dimension: Refer to below photo</p> <p>② Weight: 16 g (X5 Mount & f16.5 lens)</p> 	<p>2) Remote Controller (LCLT-RC)</p> <p>① Dimension: Refer to below photo</p> <p>② Weight: 59 g (Except batteries)</p> 
<p>3) USB Cable (USBC-LT800)</p> <p>① Dimension: 800mm</p> <p>② Weight: 24 g</p> 	<p>4) USB Cable (USBC-LT5000)</p> <p>① Dimension: 5000mm</p> <p>② Weight: 170g</p> 

2. Packaging Appearance Dimensions and Weight



External Dimension	▪ W180 x H91 x T51 (mm)
Weight	▪ 0.25 kg (Including Carton Box: 0.25 kg)

3. Label

1) Outer Carton box

Product	External Medical Camera	MD	LooksCAM LT	UDI
Rating	5 V  , 270 mA	SN		
Weight	250 g			
QTY	1 set	EC	REP	
	XENOSYS CO., LTD 2, Venture-ro 100beon-gil, Yeonsu-gu, Incheon 22013, Korea TEL. +82-32-875-9811	Cormedics Medizintechnik GmbH Bahnhofstr. 32 82041 Deisenhofen, Germany TEL. +49 (0)89 666 58 79 15 Fax. +49 (0)89 54 999 030		
The medical device				   

2) Main unit

Product	Medical Camera (LooksCAM LT)
MD	LCLT-CU
	Xenosys Co., Ltd.
Rating	5 V  , 270 mA
SN	

3) Remote controller

Model	LCLT-RC (Remote Controller)
Rating	3 V DC
	Xenosys Co., Ltd. www.xenosys.co.kr Tel. +82-32-875-9811
SN	
  	

ELECTROMAGNETIC COMPATIBILITY

Electromagnetic Compatibility

It is designed to protect the medical equipment from the harmful interruption. This system occurs electromagnetic interruption within the acceptable range. And, if it is not installed nor used properly to the direction, it may generate radio wave energy to cause any harmful interruption to some other equipment around. It cannot guarantee that the interruption will not give any influence to specific equipment. When the device is powered on, you can find out if it generates electromagnetic interruption or not.

Recommend to choose one and more ways to solve the trouble in the following ways.

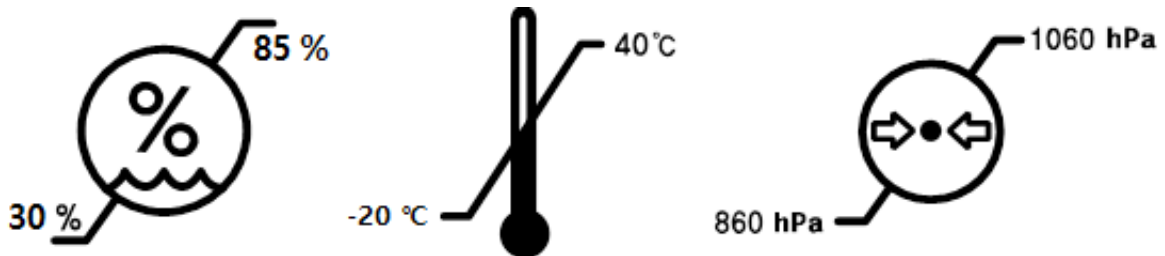
1. Relocate the equipment receiving the interruptive wavelength.
2. Put each equipment in longer distance.
3. Connect the equipment to the different outlets from the ones connected to other equipment.
4. If you need expert's help, contact to manufacturer or professional distributor.

TRANSPORTATION

1. When you carry LooksCAM LT by hand, hold it with two hands firmly for safe transportation.
2. The storage conditions of the product must be maintained according to the conditions in the table below.

Environment for Transportation (Non-operating)	
Ambient Temperature	-20 °C ~ 40 °C
Relative Humidity	30 % R.H. ~ 85 % R.H.
Pressure	860 hPa ~ 1060 hPa

– The markings on the outer packaging box are as follows:

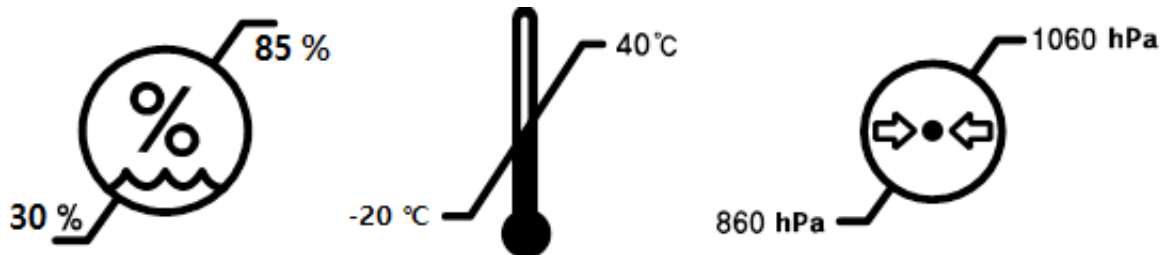


STORAGE

1. Maintain the following conditions for storing main products & components.

Environment for Storage (Non-operating)	
Ambient Temperature	-20 °C ~ 40 °C
Relative Humidity	30 % R.H. ~ 85 % R.H.
Pressure	860 hPa ~ 1060 hPa

– The markings on the outer packaging box are as follows:



2. Do not pull out, twist, nor bend excessively the power cord.
3. Wind up the power cord loosely, and store it by using the rubber bandage or cable tie.
4. Do not expose the main body to excessive shock, direct ray of light and high temperature

which may cause the defective reason.

CLEANING INSTRUCTIONS















1. Clean up the surface of LED lens module & camera lens by soft cloth with neutral detergent regularly to remove dirt, and leave it dry for usage.
2. Do not use volatile chemicals like benzene, alcohol, thinner, and acetone for cleaning. If there is any contact of these chemicals to the surface, clean it by soft cloth dipped with neutral detergent. However, the manufacturer is not responsible for any defect caused by these chemicals.
3. Do not expose the equipment to the sterilizing or cleaning process with excessive temperature and humidity. In case of the exposure, it will cause the damage to the equipment and out of warranty. Especially, inside parts of the main body do not allow the contact of any liquid.

SERVICES & WARRANTY

1. This service & warranty statement applies to all countries to the extent that there is no special warranty rule.
2. All services & warranty should be provided by Xenosys Co., Ltd. or authorized personnel by Xenosys Co., Ltd.
3. Warranty becomes effective from the sales date for material, production defective, or defect under the normal use. Thus, the warranty period starts from the first purchaser's sales date. Warranty will not be applied for abuse, improper use, negligence, improper installation, and operation or any remodeling, adjustment and modification by unauthorized personnel or technician. Refer to the warranty period in line #13.
4. Exchanged or any broken part after repair become to the property of Xenosys Co., Ltd.
5. There is no extended or renewed warranty period after the repair or replacement is done.
6. No warranty will be applied in case of the modification or personalized part by customer's request.
7. No warranty will be applied in case of no serial number or hard to detect the proper one.
8. Changes in this limited warranty require the previous approval from Xenosys Co., Ltd.
9. If there is any defect happens which cannot be handled by troubleshooting in this manual, return it to the manufacturer. Then Xenosys will take care of it. If the qualified engineer determines that the defect comes from the abuse or improper use, warranty will not be applied. The repair cost shall be notified prior to the service & repair work starts.
10. Before sending the equipment need for repair, contact the manufacturer or distributor. Then the manufacturer or distributor will report details with RMA No. and related reference which will make easier to track.
12. There are no user serviceable parts in this product. Please send the product to the distributor (dealer) for servicing. Technical description or manual is available upon request.

APPENDIX

About label symbols

Item	Symbols	Description	Sources
Manufacturer		Indicates the medical device manufacturer.	ISO 7000 – 3082
Date of manufacture		Indicates the date when the medical device was manufactured	ISO 7000 – 2497
Authorised representative in the European Community		Indicates the authorised representative in the European Community / European Union	ISO 15223-1 – 5.1.2
Serial Number		Displays the manufacturer's serial number to identify a specific medical device.	ISO 7000 – 2498
Medical device		Indicates this item is a medical device.	ISO 15223-1 – 5.7.7
Unique Device Identifier		Indicates a carrier that contains Unique Device Identifier information.	ISO 15223-1 – 5.7.10
Quantity		Custom symbol denoting number of medical devices units within a package.	–
Humidity limits		Indicates the range of humidity to which the medical device can be safely exposed.	ISO 7000 – 2620
Temperature limits		Indicates the upper temperature limit to which the medical device can be safely exposed.	ISO 7000 – 0632
Atmospheric pressure limits		Indicates the range of atmospheric pressures to which the medical device can be safely exposed.	ISO 7000 – 2621
		Read & follow the user documentation.	ISO 7010 – M002
		Separate collection for waste of electrical and electronic equipment.	DIRECTIVE 2012/19/EU
		'CE marking ' means a marking by which a manufacturer indicates that a device is in conformity with the applicable requirements set out in this Regulation and other applicable Union harmonisation legislation providing for its affixing	EU 2017-745 EU 2017-746 Reference no. ANNEX V
		To identify equipment meeting the safety requirements specified for Class II equipment according to IEC 61140.	IEC 60417 – 5172

List of acronyms

Acronyms	Description
EC	European Community
IEC	International Electrotechnical Commission
SN	Serial Number
UDI	Unique Device Identification
EC REP	Authorized Representative

Contact information for reporting side effects
(National Institute of Medical Device Safety Information,
+82-080-080-4183)

EC **REP**

EU Representative (EU Repräsentant)

1. Company: Cormedics Medizintechnik GmbH
2. Address: Bahnhofstr. 32, 82041 Deisenhofen, Germany
3. Tel (Fon): +49 (0)89 666 58 79 15
4. Fax: +49 (0)89 54 999 030
5. E-mail: a.huettl@cormedics.com

Web: <http://www.cormedics.com>

※ Revision List

Version No.	Date	Contents
Version 1.0	October 2024	First release