LUPUS-Electronics LUPUSCAM – LE 105HD
User's Manual

Version 1.0.0

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Introduction

Thank you for purchasing a LUPUSCAM® HD camera. Before you begin to use your camera, please carefully read the following security and installation instructions.

Keep the manual in order to be able to refer to it in case of any open questions in the future. Descriptions, figures, and technical data can change due to technological advancement. Hence, we advise you to download the latest PDF-version of this manual from our homepage.

Disclaimer

This manual was prepared with greatest care. If you notice omissions or inaccuracies, please inform us about these. LUPUS-Electronics GmbH assumes no liability for technical or typographical faults and reserves the right to make modifications to the product or user manual without a previous announcement at any time. The company is not liable or responsible for direct and indirect subsequent damages which are caused in connection with the equipment, the performance, and the use of this product.

Not guarantee for the content of this document is taken.

Important safety advice

The warranty will expire for damage due to non-compliance with these operating instructions. LUPUS-Electronics will not be liable for any consequential loss!

LUPUS-Electronics will not accept liability for damages to property or personal injuries caused by incorrect handling or non-compliance with the safety-instructions. In such cases the warranty will expire!

Important Note
Please read the manual carefully and completely before you use the camera.
This should also be noted when this product is passed on to a third party.

Notes for usage and installation

This camera is a high quality surveillance device. Please keep the following security information in mind:

- Never angle the camera directly into the sun
- Never angle the camera directly into a spotlight
- Handle with care. Strong vibrations or impacts could damage the camera
- Never tough internal components of the camera.
- Do not install the camera close to any strong electrical wires. This could influence the quality of the images.
- Do not install the camera directly on an aluminium or iron pole. You need to insulate it with rubber coating. Otherwise, the video transmission can be disrupted.
- Keep in mind that the cameras are not designed to be operated in areas with extreme temperature and moisture conditions. Adhere to the limits specified in the technical data stated on our homepage.
- This device is not designed to be handled by persons (including children) with limited physical, sensorial, or mental abilities, as well as, persons who are lacking the necessary knowledge. Only if they are supervised or instructed by someone responsible for their security, these persons should handle this device. Children should be supervised in order to make sure that they do not play with the device.
- Do not leave packing material lying around. Plastic bags, sheeting, etc. can pose a danger to children if played with. The camera includes cables which can could lead to strangulation if handled improperly. The camera contains small parts which could be swallowed, and should be kept out of reach of children for safety reasons. Install the camera in a position in which children cannot reach it.
- Please pay attention to the safety information and user guides of the other connected devices.
- Adhere to the operating voltage limits specified in the technical data. Higher voltages could destroy the device and pose a health risk (electric shock).

In case you encounter an error

In case you encounter an error, disconnect the camera from its power source and contact your distributor. Additional usage increases the danger of a fire or of an electrical shock.

Designated use

When you install the camera, make sure that you do not violate the personal rights of others. Any usage which is not described in this manual is not allowed and leads to a loss of warranty, as well as, a decline of liability. This also includes modifications.

1. General Introduction

1.1.   Overview

The LUPUSCAM – LE 105HD conforms to the HD-CVI standard. It supports long distance, high speed video signal transmission without any delay. It can be controlled by DVRs conforming to the HD-CVI standard.

1.2.   Features

- High-performance CMOS image sensor.

- Supports coaxial HD video transmission

- Supports 75-3 coaxial cable transmission without any quality loss

- Transmission range: ~500m / 546 yards

- Long distance, high speed transmission in real time

- Supports HD-CVI transmission in HD quality

- The LUPUSCAM – LE 105HD supports framerates of 25 frames per second in 720p

- High performance noise reduction

- Performs excellent in low illumination

- Features an ICR switch to allow surveillance by day and night

- Focal length: 3.6mm with fixed lens

- Features an OSD (on-screen display) to allow individual setup

- Runs on a DC 12V power supply (not included)

2. Framework and Dimensions of the LUPUSCAM - LE 105HD

Please refer to the following figures for information about the layout and dimensions of the LE 339HD. All measurements are given in mm.

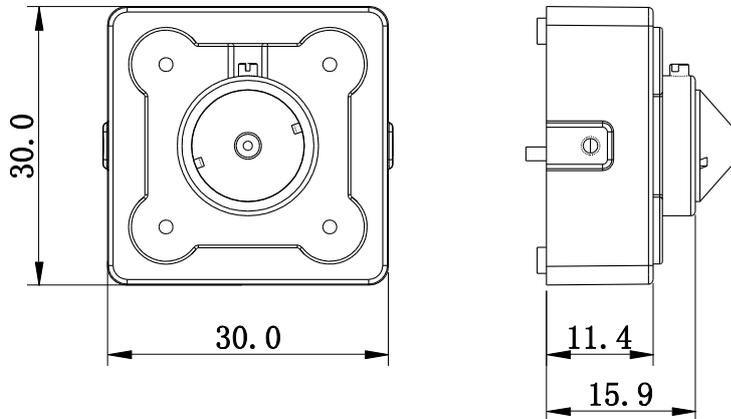*Figure 2-1* LUPUSCAM – LE 105HD Dimensions

3. Installation of the LUPUSCAM – LE 105HD

- **Important:**

   Before you install the camera, please make sure that the surface on which you want to install the camera, can at least support 3x the weight of the camera.

Step 1:

Connect the combined video and power adapter cable with the corresponding connector at the back of the camera.

Step 2:

Connect the camera via coaxial cable with your HDTV recorder.

Step 3:

Connect the camera with the a mains adapter (maximal 12V). The camera will now boot and you will receive an image at your HDTV recorder.

4. Audio input

The LE 105HD features an audio input. You can use the included cinch adapter cable to connect an audio source (e.g. a microphone) to the camera.

In order to receive an audio transmission, you need to enable "audio" and set "audio Source" to HDCVI in the menu Setup -> Camera -> Encode.

5. OSD-menu (optional)

It is possible to change settings via the OSD menu. Factory-provided, the camera has the optimal settings to ensure the best possible image. However, if you want to change some settings, please proceed as follows.

- To open the OSD menu, right click on the image while in single picture mode. In the menu, click on "Pan / Tilt / Zoom." The following will appear:

Figure 5-1: OSD menu

- Click on the arrow at the right edge of the menu. In the expanded menu, click on "Enter menu" in the upper right corner. In the following menu, click on "enter" to open the OSD menu.

To open the OSD menu via the Web interface of your HDTV recorder, please proceed as follows:

- Open the single image view of a camera and click on the black bar on the right to open the PTZ options

- Select "PTZ menu" and click on "On" to open the OSD menu.
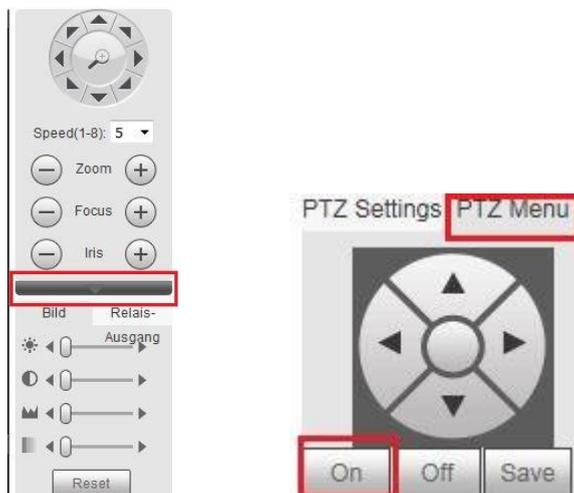

Figure 5-2 OSD menu (Web interface)

5.1.   OSD menu overview:

If you are not familiar with the function of the following settings, we advise you not to change any settings in the OSD menu!

Exposure	Shutter	Auto
		1/100
		1/120
		1/250
		1/500
		1/1000
		1/2000
		1/4000
		1/10000
		1/100000
	AGC	Middle
		Low
		Off
		High
	Brightness	1 - 10
White Balance	Auto	
	Indoor	
	Outdoor	
	User	R Gain
		B Gain
Day & Night	Auto	D > N level
		N > D level
	Smart	D > N level
		N > D level
	Color	
	B/W	D > N level
		N > D level
Image Setup	Brightness	1 - 10
	Contrast	1 – 10
	Color gain	1 - 10
	Sharpness	1 – 10
	NR	Low
		Middle
		High
		Off
	Mirror	None
		H
		V
		HV

	Language	
Function setup	Flicker	50Hz
		60Hz
	Anti-flicker	Outdoor
		50Hz
		60Hz
	OSD Color	White
		Yellow
		Red
		Green
	OSD BG	Off
		On
Rest		
Save & Exit		

Please note:

- **This manual is for reference only. Slight differences may be found in your user interface.**

- **All designs and software shown here are subject to change without any prior written notice.**

- **All trademarks and registered trademarks mentioned are properties of their respective owners.**

- **If there is any uncertainty or controversy, please contact us directly.**

- **Please visit our website or contact your local service engineer for more information.**