



MANUAL  
**CAMERA SECURITY SET**

CZ30RIP11S

Home is not a place, it's a feeling

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## Contents

Introduction .....	- 3 -
Package contents .....	- 3 -
Monitor & symbol overview .....	- 4 -
Overview camera .....	- 6 -
SD-Card .....	- 6 -
Camera installation .....	- 7 -
Mounting the camera .....	- 7 -
Overview menu screens.....	- 7 -
Navigation .....	- 8 -
1. Lighting settings .....	- 8 -
2. Alarm volume.....	- 8 -
3. Brightness level .....	- 8 -
4. General settings .....	- 9 -
4.1.1 Camera setup – Pairing .....	- 9 -
4.1.2 Camera setup – ON / OFF.....	- 10 -
4.1.3 Camera setup – Resolution .....	- 10 -
4.2.1 Recording setup – Duration .....	- 10 -
4.2.2 Recording setup – Planned recordings.....	- 10 -
4.2.3 Recording setup – Overwriting a file .....	- 11 -
4.3.1 System Settings – Date & Time .....	- 11 -
4.3.2 System Settings – Time zone .....	- 11 -
4.3.3 System Settings – Language .....	- 11 -
4.4.1 Motion Detection – Sensitivity/area .....	- 11 -
4.4.2 Motion detection - Continuous recording.....	- 11 -
4.4.3 Motion Detection - Recording on motion .....	- 12 -
4.5.1 Network setup – Extensive setup.....	- 12 -
4.5.2 Network setup – Reset password.....	- 12 -
4.5.3 Network setup – Information.....	- 12 -
4.6 Upgrade.....	- 12 -

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5. Other functions .....	- 12 -
5.1 Stand-By Modus / SCAN Modus .....	- 12 -
5.2 Expanding the camera set .....	- 13 -
6. ELRO Monitoring App .....	- 14 -
6.1 Connecting with the ELRO Monitoring App .....	- 14 -
6.1 Overview app & symbols .....	- 16 -
6.2 App management & settings .....	- 17 -
6.3 Edit device .....	- 18 -
6.3.1. Password Settings .....	- 18 -
6.3.2. Video settings \ Video quality .....	- 18 -
6.3.3. Light settings .....	- 18 -
6.3.4. Notification interval .....	- 18 -
6.3.5. Device information .....	- 18 -
6.4 View events .....	- 18 -
6.5 View Snapshots .....	- 19 -
6.6 Notifications on the Smartphone .....	- 19 -
7. FAQ / Frequently Asked Questions .....	- 20 -
8. Specifications .....	- 21 -
8.1 Specifications camera .....	- 21 -
8.2 Specifications monitor .....	- 22 -
Symbols .....	- 23 -

Go to [www.elro.eu](http://www.elro.eu) to download the latest version of these operating instructions.

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## Introduction

You can prevent criminality and vandalism with the **ELRO CZ30RIPS CAMERA SECURITY SYSTEM**. You can also monitor your property and belongings.

- **Monitor**  
The set comes with a 7 inch / 17 cm monitor on which you can view the live feed of the camera. The monitor has a “touchscreen”. Loop recordings is enabled if you insert a SD card into the card slot of the monitor. The monitor can be connected to the internet with the supplied UTP cable. You can use the ELRO Monitoring app to look at the live feed on a smartphone or tablet. The monitor has two antennas that provide an extra strong wireless connection to the camera.
- **Camera**  
The camera has 720P HD resolution for sharp images on which people are recognizable. Thanks to its IP65 rating, the camera can withstand all types of weather and is very suitable for outdoor usage. The camera is equipped with a motion detector so that it will only be activated after motion is detected.
- **Accessories**  
The set is expandable up to 4 cameras. The additional ELRO CC30RXX security camera is available separately.

## Package contents

- Monitor 7 inch / 17 cm
- Adapter (monitor) 5V DC / 2.0A / Cable length 2,4m
- Camera 720P HD
- Adapter (camera) 9V DC / 0.6A / Cable length 2,4m
- Antenna
- Network cable
- Mounting material
- Quick start guide

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## Monitor & symbol overview



1. **ANTENNAS**  
Unfold for optimum wireless signal reception
2. **ON/OFF-BUTTON**  
Press and hold for a few seconds (10-15 sec) to switch ON or OFF  
\* Short press in the ON position to enter the Stand-By/SCAN mode
3. **TABLE STAND**
4. **SPEAKER**
5. **UID-NUMBER / QR-CODE**  
Scan QR Code to connect to smartphone / tablet
6. **UTP-ACCES**  
Connect the monitor to the router for internet (Ethernet cable included)
7. **ADAPTER INPUT**
8. **VOLUME CONTROL**
9. **TALK**  
Press and hold to speak to a visitor via the camera
10. **SD-CARD SLOT**  
Excluding SD card, maximum 128 GB
11. **LED**  
Lights up **blue** when the integrated battery needs to be charged.
12. **RESET**  
Restarting the system



13. **SIGNAL INDICATOR**
14. **SD CARD**  
Visible when an SD card is inserted in the monitor. Press the SD Card to view the recorded images.  
**Blue**; there is recording space available.  
**Red**; the SD card is full.
15. **NEW RECORDING INDICATOR**  
New recordings are stored on the SD card.
16. **RECORDING INDICATOR**  
**Red** flashing; recording is being made.
17. **NETWORK STATUS INDICATOR**  
**Green**; connection to internet  
**Yellow**; no connection to the Internet but is connected to the network  
**Red**; monitor has no connection to the local network/Internet
18. **LED LIGHT CONTROL INDICATOR \***  
\* Not applicable, only applicable with CZ60RIPS due to Color Night Vision
19. **SD CARD OVERWRITE**  
The oldest files may be overwritten when the SD card is full
20. **CHANNEL INDICATOR**  
The live feed of this camera is shown
21. **BATTERY INDICATOR – BATTERY TIME +/- 2 hours**  
Flashing **red**; battery is empty  
Continuous **blue**; battery is full  
Flashing **blue**; battery is charging

22. **ZOOM INDICATOR**  
Select 1 of the 5 areas to zoom.
23. **TALK BACK INDICATOR**  
Symbol appears when “Talk” (see 9) is pressed
24. **SEQUENCE INDICATOR (SEQ)**  
Automatic channel switching.
25. **DATE & TIME (Y/M/D - H/M/S)**
26. **VOLUME INDICATOR**  
Symbol appears when “Volumeregelaar” (see 8) is used.
27. **SWITCH CHANNEL**  
Manual switch between channels.
28. **MOTION RECORDING INDICATOR**  
**Red**; automatic recording when motion is detection is ON.  
**Blue**; automatic recording when motion is detected is OFF.
29. **POP-UP MENU TAB**
30. **MICROPHONE**

## Overview camera



1.	<b>Microphone</b>	2.	<b>Night vision sensor</b>	3.	<b>IR-led's</b>
4.	<b>Camera Lens</b>	5.	<b>Coupling/Pairing</b>	6.	<b>Motion Sensor</b>
7.	<b>Antenna</b>	8.	<b>Speaker</b>	9.	<b>Mounting bracket</b>
10.	<b>Adapter Connection</b>				

## SD-Card

For the CZ30RIPS, use a SD card with the dimensions 32 x 24 x 2,1 mm.



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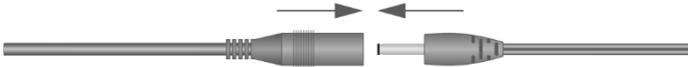
## Camera installation

### Important

- Before mounting, check the signal of the system by viewing the live feed of the camera on the monitor from the same location/position as where the camera is mounted.
- The location should be free of dust and not in view of a strong light source or direct sunlight.
- Avoid thick walls or obstacles between the camera and the monitor.
- This camera has built-in IR LEDs that allow you to view images under no/low light conditions.

### Mounting the camera

1. Mark the position of the screw holes using the mounting bracket on the wall.
2. Drill the holes and place the 4 dowels in the holes.
3. Attach the camera, insert the screws through the mounting bracket into the plugs and tighten them firmly.
4. Now point the camera at the area you want to secure.
5. Connect the 9V DC/ 0.6A power adapter (see the bottom of the mounting plate) to the camera.
6. Press the plugs together tightly to prevent moisture from entering.



### Note

You can install 3 additional cameras (up to 4 cameras). When you add cameras that were not in the original box, you must pair the cameras with the monitor. Refer to section [4.1.1 Camera setup – Pairing](#) about pairing the cameras in this manual.

### Overview menu screens



This chapter describes the monitor's pop-up menu screens in detail. Tap this on the tablet and the following pop-up menus are displayed.



#### 1. Light settings

Not applicable to this system



#### 2. Alarm



#### 3. Brightness



#### 4. General Settings

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## Navigation

Navigating the menu and subsections is very easy with the help of your index finger.



Tapping this will return you to the main screen.



Tapping this will return you to the previous screen.

### 1. Lighting settings

The ELRO CZ30RIPS does not have lighting. Are you looking for a camera system with lighting? Then we refer you to our CZ60RIPS with Color Night Vision.

### 2. Alarm volume

If the camera is activated by motion and starts recording the images, the monitor emits an alarm tone. Here you can set the alarm volume. Tap plus to increase the volume and minus to decrease the volume of the alarm.



### 3. Brightness level

This function allows you to set the brightness level for each camera. Make sure that only the image of the camera whose brightness level you want to set is on the main screen.



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## 4. General settings

The General Settings screen contains 6 subsections, each of which may contain other subsections. These sub screens allow you to set functions of your system. You can turn cameras on and off, set up a specific schedule for specific cameras to record, set the date and time, and set the sensitivity for motion detection. The rest of this chapter provides details on how to use these screens.



### 4.1.1 Camera setup – Pairing



The camera is factory paired with the monitor on channel 1. When a new camera is added to the system, you must "introduce" the camera and monitor to each other so they can communicate. You can also use this procedure to move a camera from one channel to another.

#### Do the following:

1. Tap pairing in camera setup screen.
2. Tap the channel number you want to pair the camera with.
3. message appears with instructions for pressing the camera's PAIR button. This must be done within 30 seconds. See [Overview camera – 5. Coupling/Pairing](#).
4. 3 seconds after the camera has been paired successfully, the monitor shows the image from the camera.

#### Note:

- If a camera has already been assigned to the selected channel, the pairing procedure overwrites the existing camera.
- Connect only one camera at a time! The monitor connects to the first camera it recognizes. If two or more cameras are in pairing mode, it is hard to determine which camera the monitor recognizes first.

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### 4.1.2 Camera setup – ON / OFF



When you add a camera to your system, connect the camera to the monitor and the system turns it on automatically. You may want to temporarily turn off a paired camera. Although the camera is turned off, it keeps its connection.

#### Do the following :

1. Tap the switch bar below the camera you want to turn on or off.
2. The switch bar indicator turns green when the camera is turned on. It is displayed in gray when the camera is turned off. The monitor will not receive video signals from that camera.

### 4.1.3 Camera setup – Resolution



Depending on your internet speed in combination with the app, we advise you to start with low video quality. A low resolution setting will result in a lower internet usage with higher video speed.

Tap the icon for selecting the resolution.

### 4.2.1 Recording setup – Duration



You can set how long the camera will continue recording after motion detection has activated recording. The options are 15 seconds, 30 seconds or 1 minute. Tap the icon for selecting the duration. (Default = 15 seconds)

### 4.2.2 Recording setup – Planned recordings



This function allows you to set a time schedule on which a camera should record. You can set multiple cameras at the same time and the recording times may overlap. The total recording time is limited to the available space on the SD card. If you set up the SD card to delete the oldest files when new it continues to record, otherwise it will stop the recording when the SD card is out of storage. Scheduled recordings are divided into files with a 10 minute duration. For example, if you record a 25-minute event, you have two 10-minute recordings plus a 5-minute recording.

In the screen "Scheduled recording overview" you can see on which days of the week and at which times a schedule is made. To plan and delete recordings, tap **Modify** at the bottom left of the screen. Multiple cameras can be selected at the same time and you can also choose to only start planned recordings after movement.

Modify

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### 4.2.3 Recording setup – Overwriting a file



This function allows you to set the system to overwrite the oldest files automatically when the SD card is full. This allows you to continue recording. If overwriting is not allowed, recording will stop when the SD card is full. (see [Monitor & symbol overview – 14. SD-Card](#))

### 4.3.1 System Settings – Date & Time



Set the current date and time here. You must keep your system connected to your network via the Ethernet cable in order to synchronize with the time server.

### 4.3.2 System Settings – Time zone



Set your time zone, summer time can also be selected here.

### 4.3.3 System Settings – Language



Set your language.

### 4.4.1 Motion Detection – Sensitivity/area



You can set the sensitivity (High - Low - Off) and the area to be scanned for each camera in this menu. This function is mainly used to make the detection as specific as possible. In the image of the camera, areas can be excluded, so that for example moving trees are not the cause of detection.

### 4.4.2 Motion detection - Continuous recording



You can record the camera set in two ways. Record all images continuously or record on detection. If the camera is to record continuously, simply set the Motion Recording Indicator to **BLUE**. (see [Monitor & symbol overview – 28. Motion Recording Indicator](#)). Often this is already the default setting and no further action is required.

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### 4.4.3 Motion Detection - Recording on motion



In addition to continuous recording, the camera set can also record events as soon as movement is detected. The advantage of this function is that the SD card is less likely to fill up.

You set this function by first setting the sensitivity (See [4.4.1 Motion Detection – Sensitivity](#)) to Low or High. Then set the Motion Capture Indicator to **RED** (see [Monitor & symbol overview – 28. Motion Recording Indicator](#)). Once you have followed these steps, the images will be recorded on detection.

### 4.5.1 Network setup – Extensive setup



Here you can choose DHCP Dynamic Host Configuration Protocol or STATIC (fixed) IP address. DHCP is the most common connection. Your router automatically assigns an IP address to your system. Static IP is for those who have the ability to specify an IP address for their system.

### 4.5.2 Network setup – Reset password



This function resets the system to the default password "000000". A new password can only be set via the app.

### 4.5.3 Network setup – Information



Here you will find your network information, nothing can be changed or set.

## 4.6 Upgrade

Here you can choose to upgrade the firmware using a SD card or the Internet.

## 5. Other functions

### 5.1 Stand-By Modus / SCAN Modus

SCAN Mode is a way of turning on the screen when movement is detected by the motion sensor. This function has the advantage that the screen is not constantly on and it is energy saving.

The SCAN mode is entered by briefly pressing the ON/OFF button (see [Monitor & symbol overview – 2. ON/OFF-Button](#)) when the monitor is ON.

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## 5.2 Expanding the camera set

The set is expandable to a complete security system with up to **4** cameras. Only the additional ELRO CC30RXX security camera is compatible with this system and is available separately from our sales channels.

To connect the additional camera, see [4.1.1 Camera setup – Pairing](#).



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## 6. ELRO Monitoring App

The ELRO CZ30RIPS camera set offers you the option of linking it to a smartphone. This allows you to view live images and review events. So you can keep an eye on everything remotely.

### 6.1 Connecting with the ELRO Monitoring App

Making a connection between the camera set and the ELRO Monitoring App is very easy. Just follow the steps below and you'll have everything connected within 5 minutes.

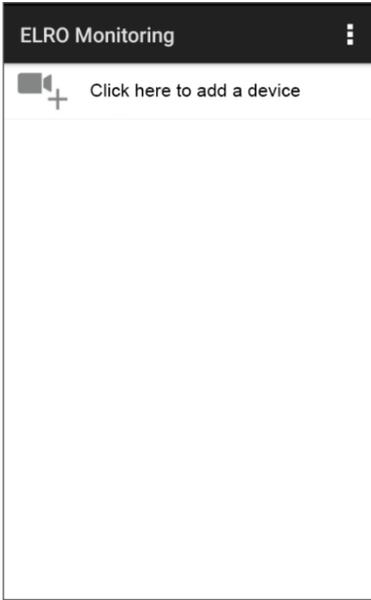
- Connect the monitor directly to your modem with the supplied Ethernet cable \*. Also think about the adapter. (See [Monitor & symbol overview – 6. UTP Acces & 7. Adapter Input](#))  
\* Note: The monitor does not have a Wi-Fi module and cannot be connected to a wireless network. Also, connecting the monitor to a computer/laptop will not work.
- Check that the Network Status Indicator (see [Monitor & symbol overview – 17. Network Status Indicator](#)) changed colour. If the colour is **green**, you can proceed with the pairing.
  - **Green**; there is a connection to the Internet
  - **Yellow**; there is connection to a network, but not to the Internet
  - **Red**; the monitor has no connection to the network/Internet

If the indicator is **yellow**, there is a LAN cable in the monitor, but no connection to the Internet. In this case, check whether the router is connected to the internet. The status of the internet can be checked with your provider.

- Download and install the ELRO Monitoring App on your smartphone or tablet. This app can be downloaded free of charge via the App Store or the Google Play Store.



- After the ELRO Monitoring App has been installed, you can open it to add the camera set. Then choose the option "Add Device".



- Then choose one of three ways to pair the set:
  - Scan the QR-Code on the back of the monitor. This automatically fills in the UID and you only need to fill in the password.
  - Search within the network. This makes the camera set appear automatically when it is found.
  - Fill in manually. Manually enter the UID (found under the QR Code) and also enter the password.
- Enter the default password 000000 (6 x zero).

**Add device**

**Device settings**

UID: 7D9ZJJN9H7LLW9WW11

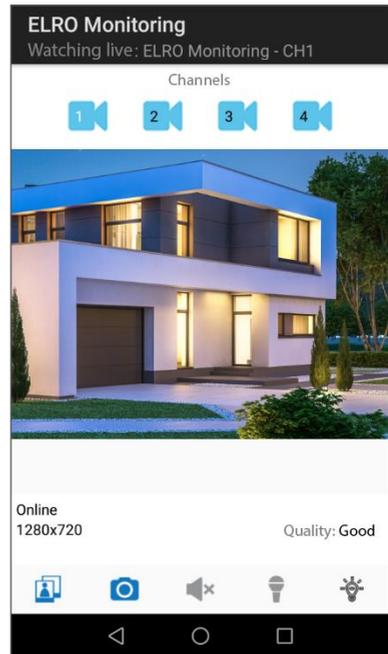
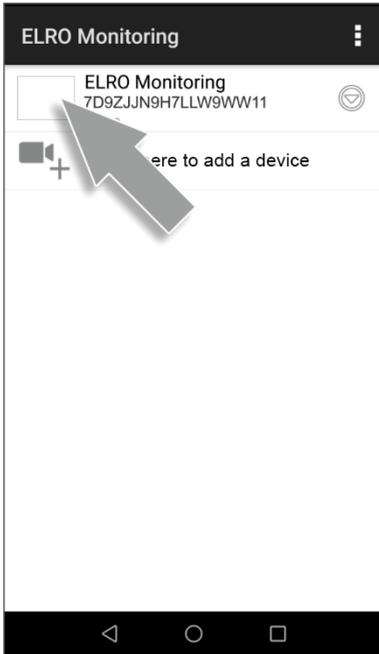
SCAN SEARCH

Name: ELRO Monitoring

Password: 000000

- The added camera set (called ELRO Monitoring) will now come online. If you press this button, you will be asked to change the default password. After a new password has been entered and confirmed, the image seen by the camera in the app will appear.

You can change the camera name and password later as required.



## 6.1 Overview app & symbols



This symbol indicates which camera channel is selected. The system can be expanded with three additional ELRO CC30RXX security cameras.



Tapping this will take you to the snapshot storage. Removing a snapshot is very easy by holding your finger on the snapshot for approx. 2 seconds. You will be asked if you'd like to delete the selected snapshot.



Allows you to take a snapshot, which will be automatically saved to your smartphone or tablet.



Using the speaker, you can hear the ambient noise which the camera detects. Grey is turned off; you won't hear anything. **Blue** means that it is turned on.



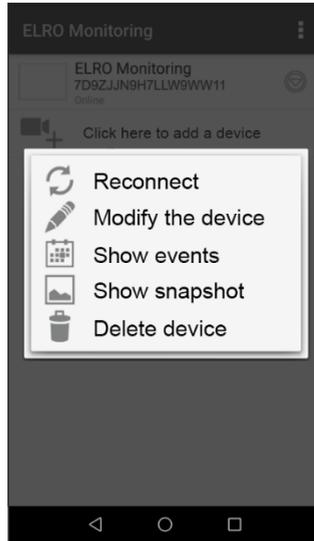
The microphone allows you to speak to an entity which is located near the camera. Grey is off, **blue** is on.



Lighting function - This function is not applicable to the CZ30RIPS Camera Security Set. Are you looking for a camera security set with lighting? Then please refer to our CZ60RIPS with Color Night Vision.

## 6.2 App management & settings

Tap to access the app settings. Here you can manage the camera in the app and set it up. "Reconnect" and "Remove device" speak for themselves.



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### 6.3 Edit device

Here you can change the name ELRO Monitoring to e.g. "Camera driveway".

Go to Advanced to adjust the advanced settings.

#### 6.3.1. Password Settings

Here you can change and confirm the password.

#### 6.3.2. Video settings \ Video quality

Video Quality selects the format in pixels. The larger the size, the more memory of your smartphone/tablet is used:

- High = 1280 x 720
- Medium = 640 x 480
- Low = 320 x 240

This information can also be found in the "Live View" screen. Here the quality is mentioned as: Good, Normal or Poor.

#### 6.3.3. Light settings

These settings do not apply to the CZ30RIPS. For a camera with lighting, please refer to our CZ60RIPS.

#### 6.3.4. Notification interval

Here you can set how long after the last detection you will receive a new notification.

- 1 MIN - 3 MIN – 5 MIN – 10 MIN – 30 MIN - A person enters the detection area and you receive a notification. The next notification will only be made if motion detection occurs again after 3 minutes.
- Off– You do not receive any notifications, but motion is detected and videos are stored on the Micro SD card (See [Monitor & symbol overview – 16. Recording Indicator](#))

#### 6.3.5. Device information

Here you can find your network information, nothing can be changed or set.

### 6.4 View events

Here you can view events. Press the magnifying glass to specify a search; within an hour, half a day, a day, a week and even customised.

The recordings are stored on the Micro SD card and therefore do not use the memory of your smartphone/tablet. (See [4.2.3 Recording setup – Overwriting a file](#))



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## 6.5 View Snapshots

Snapshots are saved on your smartphone/tablet. Removing a snapshot is very easy by holding your finger on the snapshot for approx. 2 seconds. You will be asked to if you would like to delete the snapshot.

## 6.6 Notifications on the Smartphone

If you have paired the camera set with the smartphone, you have the option of receiving notifications as soon as movement is detected. To set this up correctly, the following steps need to be taken:

- Make sure the sensitivity is set correctly on the monitor. Go to the Motion Detection (See [4.4.1 Motion Detection – Sensitivity](#)) and set the sensitivity to HIGH.
- Go to the settings of your smartphone and make sure that you give the ELRO Monitoring App access to send notifications.
- In the ELRO Monitoring App, go to Advanced Settings and now choose a notification interval (See [6.3.4. Notification interval](#))
- Finally, go back to the home screen of the app and the settings are saved. It may take some time for the settings to take effect but after a while you will receive notifications on the smartphone.

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## 7. FAQ / Frequently Asked Questions

Having problems with the installation? Go to [www.elro.eu/faq](http://www.elro.eu/faq) to get a quick answer to your question. Here you will find the most recent version of the manual and answers to frequently asked questions (FAQ). Take a look at some frequently asked questions below.

### My camera is out of range

Make sure that the antennas of the monitor are folded out when you use the system. This will result in an increased range of the camera set.

### My camera is out of range, within a few meters of the monitor

In this case, check whether the camera is still receiving power. You can check this by checking the following:

- Test with a voltmeter whether the adapter is still providing power.
- Do the temperature of the adapter and camera change when they are connected to the power network?
- G Does the camera make a clicking sound when you put your hand on the lens? This means that the camera goes into night mode (black and white images). If not? Then please contact us.

### Can I add a second monitor?

No, this is not possible. Only one connection can be made between a monitor and a camera.

### What is the range of the motion sensor?

The range of the PIR sensor is around 5 metres. It can vary due to different circumstances. Think for example of temperature and humidity.

### The camera does not/will not pick up motion.

Check the direction of the person walking in front of the camera. If the person walks straight towards the camera, the camera will not be able to detect the person (heat spot) properly. The heat spot must move from detection area to detection area to be able to detect movement.

### Can I connect the set to my WiFi?

No, this is not possible. You have to connect the monitor to the router.

### Can I connect my old ELRO camera with one of your new camera systems?

No, it is not possible to connect old ELRO cameras (before 2018) with our new ELRO systems.

Should any questions remain unanswered despite this comprehensive user guide, please refer to our website [www.elro.eu/faq](http://www.elro.eu/faq) and see if you can find the answer in the "Frequently Asked Questions" (FAQs).

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## 8. Specifications

### 8.1 Specifications camera

Frequency reach	2400MHz~2483.5MHz
Data speed	4 Mbps
Transmission power	16dBm (TYP)
Modulation	GFSK with FHSS
Camera dimensions	22cm x 8cm x 8cm
Adapter length	460cm (220cm + 240cm)
Wireless distance	100m (open room)
Image sensor	1/4" Color CMOS
Effective Pixels	(h) 1280 x (v)720
Light sensitivity	3,5 Lux (without IR-led)
Image format	MPEG-4
Image resolution/ Frame Rate	Cam x 1 : 720P / 15 fps Cam x 2 : VGAX 2 / 30 fps Cam x 4 : VGAX 4 / 10 fps
Lens	3,6mm / F1,9 (ICR-cutting filter)
Image angle	66° (FOV)
Daylight sensor	<5 Lux (IR On), >30 Lux IR Off
IR led range (night vision)	24 led / 850nm / 12m
Current voltage	9V DC 600mA ±5%
Power usage	460mA Maximum (IR led / intercom )
Operation temperature	-10°C ~ 40°C (14°F ~ 104°F)
Protection rating	IP65
Moisture	0% ~ 85%

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## 8.2 Specifications monitor

Frequency reach	2400MHz~2483.5MHz
Data speed	4 Mbps
Sensitivity	81dBm
Modulation	GFSK with FHSS
Size LCD Screen	7 Inch / 17cm
Monitor dimensions	19,5cm x 3cm x 12,4cm
Adapter length	240cm
Recording	ASF
SDHC- Memory card	Maximum 128GB recommended: 32GB
Lcd Resolution	800 RGB (H) x 480 (V)
Recording capacity	VGA:400M HD:900M in hours
Viewing angle	H-140° / V-110°
Lithium battery	3.7V 2000mAh
Capacity loss off battery	ca. 20% after 300 charging cyclus
Current voltage	5V DC 2A ±5%
Power usage	750mA maximum (1050mA)
Operation temperature	-10°C ~ 40°C (14°F ~ 104°F)
Moisture	0% ~ 85%

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## Symbols

Recycling and Disposal: The WEEE symbol (a) indicates that this product and its batteries must be disposed of separately from household waste. When this product reaches the end of its service life, take it to a designated waste collection point nearby to ensure safe disposal or recycling. Protect the environment and human health, use natural resources responsibly! Read the manual (b) before use and keep it in a safe place for future use and maintenance. For warranty (c) visit [www.elro.eu](http://www.elro.eu).



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