

## Specifications

### Outdoor unit

Camera resolution	: 700 TVL
Camera angle	: 46°
Power supply	: Via the indoor monitor
Working temperature	: -15°C - +50°C
Night view	: 6 x real white light LEDs, 2m
Dimensions	: 163 x 85 x 62 mm

### Indoor monitor

Screen size	: 7" (18 cm)
Resolution	: 800 x 480
Power supply (output)	: 12V DC, 2A, 24W
Power consumption	: 4,5 W – max. 9,5 W
Adapter Input Voltage	: AC 100 – 240V; 50 - 60 Hz
Cable length	: Max.30 m; 4 x 0,5 mm
Dimensions	: 215 x 152 x 18 mm
No. Of melodies	: 16

## Safety Instructions

1. Keep the indoor unit away from high temperature such as near an oven or under direct sunlight, and high humidity such as bathroom and greenhouse
2. Do not install the indoor unit close to a television or position with strong jamming- the signals the TV and the intercom use can be interfered with each other
3. Do not touch the unit with wet hands.
4. Avoid throwing, dropping or hitting the units
5. Clean the camera or screen with a soft cloth. Do not use detergent, thinner, volatile or corrosive liquid
6. Do not expose the camera of the outdoor unit to direct sunlight
7. Use the product under the circumstance of barrier-free and no interference
8. When a car or a motorbike passes by, the image may become blurred or be cut off due to the interference of radio wave

### Caution:

1. To prevent damage, the adapter should be fastened on the wall according to instruction
2. Power plug as disconnecting device should be kept convenient to operate

### Symbols:

Recycling and disposal: The WEEE symbol (a) means that this product must be disposed separately from other household waste. When it reaches its end of life, take it to a designated waste collection point in your area to guarantee a safe disposal or recycling. Protect the environment, human health and natural resources! Read the manual (b) before use and store it in a safe place for future use and maintenance.

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# Manual EN

## DV447WIP



## IP VIDEO DOOR INTERCOM WITH 7" (18cm) MONITOR

Home is not a place, it's a feeling

## IP Video Intercom System over APP

Congratulations on the purchase of your new ELRO Video Intercom System, featuring night view, 4-wire connected outdoor unit with nameplate, and a 7" (18cm) brushed aluminium indoor monitor with WiFi connection.

We want you to be able to use this ELRO product without having to read an extensive guide, so this user manual will help you to get started, make the outdoor unit and the indoor monitor work together and indicate the most important features. You will also learn which app you need for remote access.

If you need more detailed information, there is an extensive explanation of all features inside the app, or you can visit our website [www.elro.eu](http://www.elro.eu) for a service hotline and more details.

## Product description and features

This ELRO IP Video Intercom enables you to remotely view who rings your door bell, even if you are not at home. It has an aluminium finished outdoor unit with a protective rainshade for surface wall mounting. The 700 TVL camera with 46° view angle comes with 6 real white LEDs for color night view in the dark for at least 2 meters in front of the camera. The unit also has a lit nameplate.

The 7" (18 cm) indoor monitor has a brushed aluminium front and 16 melodies/sounds to choose from. You can individually set the ringtone volume (H/M/L) and the speaking volume (stepless). You can also adjust the brightness and color intensity.

When someone rings the intercom, the monitor will play a melody or sound and show the picture from the camera. You can then observe, answer and/or open the door or gate. The gate opener and door opener can be connected to either the indoor monitor or the outdoor unit.

Additionally, you can connect the indoor monitor to your router at home via WiFi, it is then possible to send calls to the ELRO Intercom app, which you can find in the Apple App Store or Google Play Store. The app allows you to see direct video of the visitor plus enables 2-way audio communication. You can save pictures or video from the app to your smartphone and even activate the door lock at your home (for both electric and magnetic door locks).

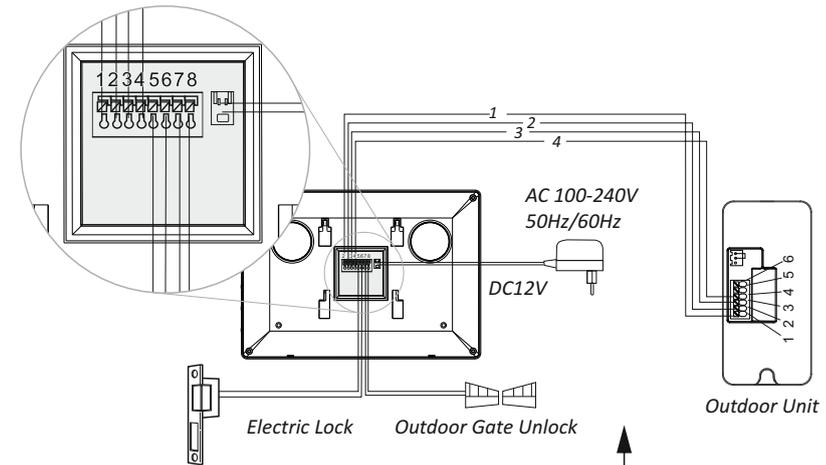


## Adding a door lock

Through the ELRO Intercom app, you can remotely operate a door lock.

Connect a door lock with 2 x 1,0 mm wire. You will need a separate power supply for connecting your door lock to the outdoor unit; check the wiring diagrams below.

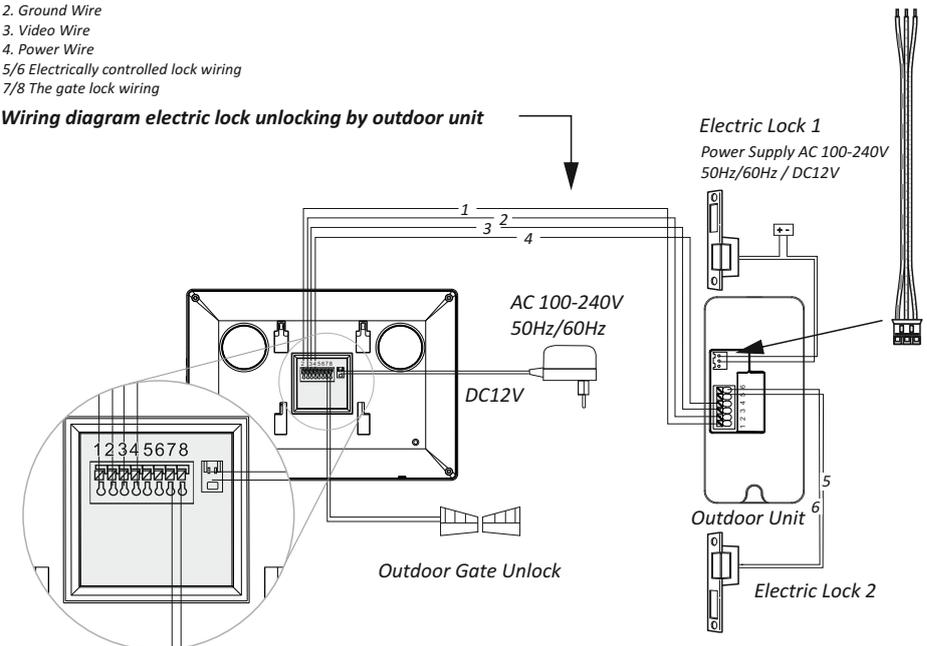
**Note:** Please verify carefully whether you want others to enter your home, even if you are not at home. Be aware of the risks involved in letting others in.



**Wiring diagram electric lock unlocking by indoor monitor**

1. Audio Wire
2. Ground Wire
3. Video Wire
4. Power Wire
- 5/6 Electrically controlled lock wiring
- 7/8 The gate lock wiring

**Wiring diagram electric lock unlocking by outdoor unit**



## Functions of the Indoor Monitor

When a visitor rings the bell, the chosen ringtone will sound and the picture will appear automatically on the monitor. You can then talk to the visitor by briefly pressing the TALK button of the monitor. By pressing the DOOR UNLOCK or the GATE UNLOCK button, you can unlock your door or gate. If you want to view the picture from the camera without someone having rung the bell, you can press the LIVE VIEW button to see the live picture for approx. 40 seconds. With the buttons on the side of the monitor you can select your ringtone, change the ring and talk volume and adjust the brightness and color intensity of the screen.



Live view



Door unlock



Gate unlock

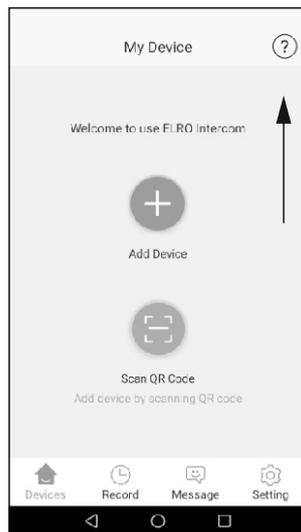


Talk

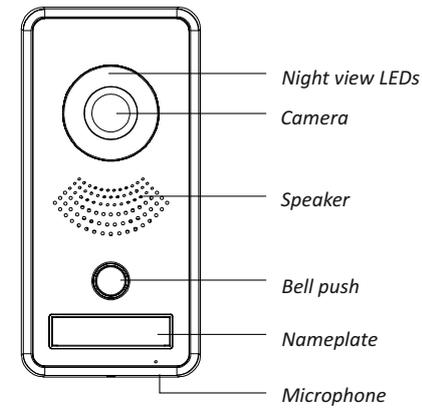
## App Settings

The ELRO Intercom App is designed for use with the ELRO DV040WIP and ELRO DV447WIP. Inside the app, when you have not added any device, you will find a question mark icon in the upper right corner.

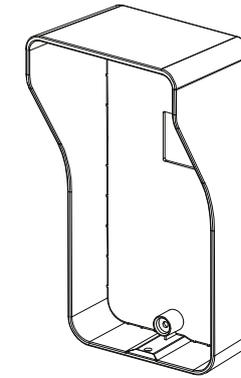
If you have already added a device, go to settings to find a question mark icon labelled "Help":



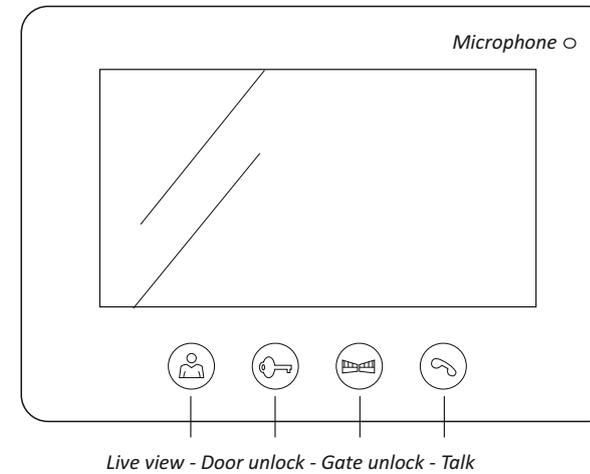
Outdoor unit



Rainshade

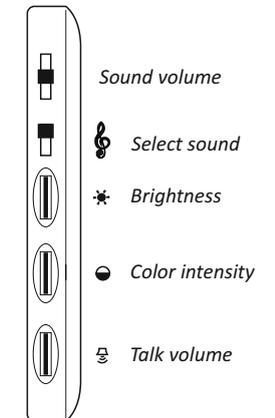


Monitor 7"/18cm

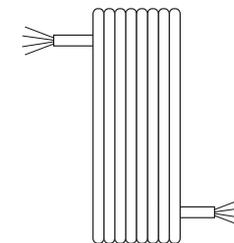


Live view - Door unlock - Gate unlock - Talk

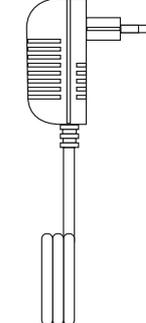
Side view monitor



15 meter 4-wire cable



Adapter



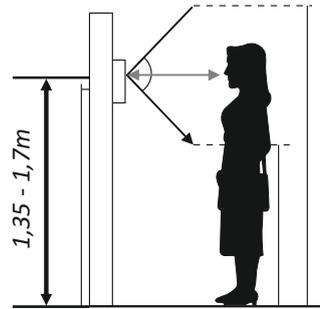
Door lock cable connector



## Installing your IP video doorphone

### **A: Mounting the outdoor unit (surface mount only)**

1. Take the rainshade and use it to mark the drilling holes on your wall. Make sure that you are able to reach this place from the back with the 4-wire connection cable (and the door lock cable if applicable) to link it to the monitor. We recommend a mounting height of between 1,35 and 1,70 meters. Try to avoid direct sunlight or rain as much as possible.



2. Put the 4-wire cable through the rectangular hole in the rainshade and connect the cables to slots number 1-4:

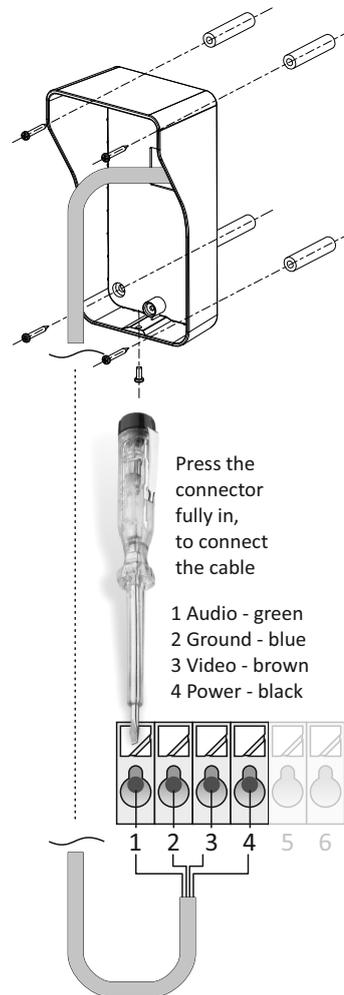
- 1 Audio wire – green
- 2 Ground wire – blue
- 3 Video wire – brown
- 4 Power wire – black

The cable has no special connector, so you can also use any existing 4-wire cable that is min. 4 x 0,5mm<sup>2</sup>. We recommend keeping the length of the cable to a maximum of 30 meter to avoid complications.

3. Optionally, link an electric door lock to port 5 and port 6. For connecting a door lock, always use 2 x 1,0 mm<sup>2</sup> cable. Please refer to the wiring diagrams in the section “Adding a door lock” for more wiring options to either the outdoor unit or the indoor monitor.

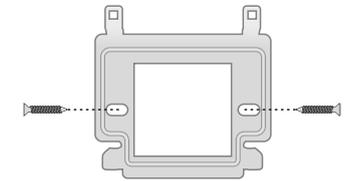
4. Fix the rainshade with the screws and dowels supplied with the set; take out the name plate paper, write down your name and put it back in.

5. Put the outdoor unit into the rainshade and fix it with the inbus screw.



### **B: Mounting the indoor monitor**

6. Use the mounting bracket to mark the drilling holes on your indoor wall and fix it to the wall so that the 4-wire cable and the power cable (plus optionally an extra wire for door/+gate lock) can go through from the back.
7. Connect the 4-wire cable to the slots number 1-4 in the same order as you did for the outdoor unit and then connect the power adapter cable to the indoor monitor and hang it on the bracket.

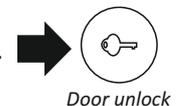


### **C: Connecting the System to the App**

8. Download the ELRO Intercom app from the Google Play Store for Android devices or from the Apple App Store for iPhones.
9. Make sure that your mobile phone and the indoor monitor are using the same WiFi network. Plug the adapter into a wall socket to power the system and wait for a beep.
10. Open the app and press the “+” button to add the new device. Follow the “Smart Konfig” instructions in the app. Keep your WiFi password available.



11. If pairing fails, return the indoor monitor to factory settings by pushing the door unlock key for min. 5 seconds; then try again.
12. You are now ready to receive calls on your mobile phone, both inside and outside of your home WiFi network.



### **C: Multiple users**

13. Optional: If more users want to access this doorphone on their own mobile phones, they just need to download the app and add a device through QR Code. To do this, go to device settings/QR Code and let them scan your specific device QR code from the app on your phone.