# User Guide
# CUBE/MOVE | cordless IP camera | Indoor

powered by ASSMANN

WIRELESS LAN | SMART LIGHT CONTROL | 2 WAY AUDIO | MOTION DETECTION | SHIFT &TILT

# 1. Foreword

## 1.1 MOVE | Cordless IP camera | Indoor

Would you like to know that your home, children's room or even office is protected, and are you looking for an economical means of surveillance, even readily when on the go? The cordless and controllable ednet MOVE IP camera enables you to cast an eye on your house and home, even when you are on the go. Simply open the App with your mobile phone or tablet and see what is happening live at home at any time. Alternatively you can also access the live pictures over the ednet IP camera portal. With the help of the integrated swivel and tilt slope function, you can flexibly expand the field of vision of your surveillance camera and even steer it, whether the camera should record further to the right, to the left, up or down. The camera is compact and inconspicuous at the same time, so that you can place it perfectly on your sideboard, for example. From there, you can cast an eye on your pets, your entrance area or even open living areas. Get cracking now: The only thing you need is an internet enabled mobile phone, an internet connection, and obviously power for your ednet IP camera.

## 1.2 Security becomes simple - with the ednet MOVE IP camera

- Access live images on the go via the App
- Revolving and swiveling camera, controllable over different network devices
- WLAN LAN in accordance with the latest 11n standard for fluid transmissions
- Image sensor: 1/5" CMOS color sensor
- High video resolution (VGA 640x480)
- image refresh rate: up to 30 fps
- High video resolution (VGA 640x480)
- High light sensitivity 0.68 Lux
- Conforms to 802.11b/g/n standard
- Supports movement recognition
- Supports the control of brightness, contrast, shade, saturation and focus
- image refresh rate: up to 30 fps
- Integrated LEDs for surveillance in the dark
- LAN-speed: 10/100Base-TX Ethernet
- Remotely controllable, motorized swivel and tilt function
- Electricity consumption: 4.0 W
- Operating temperature -5 °C to 55 °C
- Dimensions (L x W x H): 105 mm x 85 mm x 112 mm

## 1.3 CUBE | Cordless IP camera | Indoor

Would you like to know that your home, children's room or even office is protected, and are you looking for an economical means of surveillance, even readily when on the go? The cordless ednet CUBE IP camera enables you to cast an eye on your house and home, even on the go. Simply open the app with your mobile phone or tablet and see what is happening live at home at any time.

Alternatively you can also access the live pictures over the ednet IP camera portal. The camera is at the same time compact and inconspicuous, so that you can place it perfectly on a wall shelf, for example. From there, you can cast an eye on your sleeping children or your terrace door, for example. Get cracking now: The only thing you need is an internet enabled mobile phone, an internet connection and obviously power for your ednet IP camera.

## 1.4 Security becomes simple - with the ednet CUBE IP camera

- Access live images on the go via the App
- WLAN LAN in accordance with the latest 11n standard for fluid transmissions
- Image sensor: 1/6" CMOS color sensor
- image refresh rate: up to 30 fps
- High video resolution (VGA 640x480)
- High light sensitivity 0.68 Lux
- Conforms to 802.11b/g/n standard
- Supports movement recognition
- Supports the control of brightness, contrast, shade, saturation and focus
- Integrated LEDs for surveillance in the dark
- LAN-speed: 10/100Base-TX Ethernet
- Electricity consumption: 3.0 W
- Operating temperature -5 °C to 55 °C
- Dimensions (L x W x H): 60 mm x 40 mm x 92 mm

# 2. Contents

1. Foreword 2
1.1 MOVE | Cordless IP camera | Indoor 2
1.2 Security becomes simple - with the ednet MOVE IP camera 2
1.3 CUBE | Cordless IP camera | Indoor 3
1.4 Security becomes simple - with the ednet CUBE IP camera 3
2. Contents 4
3. Symbols & highlighting 8
4. Packaging contents & connection 9
4.1 Connectors 9
5. Important notes to start 10
5.1 Safety and guarantee 10
5.2 Disposal 10
6. Installation 11
6.1 Necessary parts 11
6.2 Installation of the ceiling/wall mounting 11
7. Preparation 12
7.1 Connect power supply 12
7.2 Connect camera to router 12
8. Software installation 13
9. Set up the user account 16
9.1 Create a user account with your Smarthpone/tablet 16
9.2 Create a new "ednet" account 16
9.3 Create user account with your PC 17

10. Add camera 18
10.1 With your smartphone/tablet 18
10.2 Adding the camera by scanning the QR-Codes 18
10.3 Add the camera with manual input of the camera ID & access password 18
10.4 Add the camera to the PC via the software browser 19
11. Wireless Lan set up 20
11.1 Set up Wireless Lan via the App 20
11.2 Set up wireless LAN via the software 21
12. Symbols 22
12.1 Operating controls upper menu 22
12.2 Operating controls lower menu 22
13. Functions & settings 23
13.1 System settings 23
13.2 Recording settings 24
13.3 Local alarm messages 25
13.4 Network 26
13.5 Device settings 27
13.6 Search 28
13.7 Change registration password 29
13.8 Log 29
13.9 Help 30
13.10 Camera notifications 30
14. Operating controls 31
14.1 Movement control area 31

14.2 Screenshot 31
14.3 Record video 32
14.4 Listen 32
14.5 Talking 33
14.6 Level movement 33
14.7 Move around vertically 34
14.8 Go to position 34
14.9 Set position 35
14.10 PTZ rate 35
14.11 Vertical flip 36
14.12 Reflecting 36
14.13 Wireless Setup 37
14.14 Alarm Log 37
14.15 Parameters 38
15. Glossary 39
16. Index 41

## Notes

## 3. Symbols & highlighting

In this handbook, symbols and highlighting are used to flag certain information.

This symbol denotes advice and tips that are useful in operation and use.

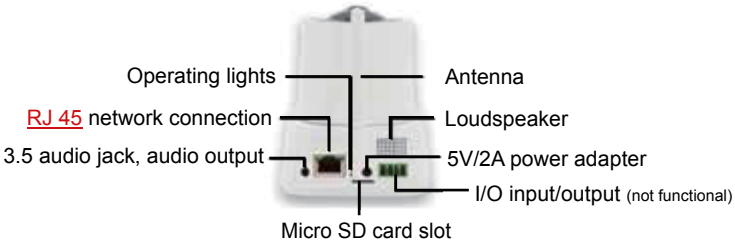
This symbol denotes important advice that you should follow by all means, in order to avoid malfunctions.

| Highlighting | Function | Examples |
|---|---|---|
| Inverted commas | Keys<br>Controls<br>Menus<br>Paths<br>Folder and file names | "F1" key<br>"Help"<br>"Parameters"<br>"C:\My Documents"<br>"Documentation" |
| Red & underlined | Address to enter in the internet browser | www.assmann.com |
| Red | Links and references within this handbook | Supplied with |
| Bold | Emphasis | Do not click on this button. |

# 4. Packaging contents & connection

1. 1x ednet IP camera
2. 1x network cable
3. 1x power adapter with connection cable (5V/2A)
4. 1x ceiling/wall mounting
5. 1x assembly kit
6. 1x quick installation manual

## 4.1 Connectors



# 5. Important notes to start

## 5.1 Safety and guarantee

This instruction manual serves to familiarize you with the the mode of operation of this product. Therefore keep these instructions safe at all times, so that you can access them at any time.

With the purchase of this product, you receive a two-year guarantee against defects when used properly. Please also note the general business conditions!

Please only use the product in its intended manner.
Any other use may lead to possible damage to the product or the product's surroundings.

Reconstructing or changing the product will impair the safety of the product. Attention danger of injury!

Never open the product independently. Never carry out repairs yourself!

Handle the product with care. It can be damaged by knocks or falls from even a low height.

Keep the product away from moisture and extreme heat.
Never immerse the product in water or other liquids.
Only use the product indoors.

Only use a type CAT5, RJ45 network cable.
Never insert the network cable into the audio jack.

### ATTENTION

*No liability will be accepted for consequential damage.*
*Subject to technical changes and errors excepted!*

## 5.2 Disposal

This electrical appliance does NOT belong in household waste.
For correct disposal, please refer to the public collection points in your community.

Please obtain details about the location of such a collection point and about appropriate available quantity restrictions per day/month/year as well as about contingent costs of collection from the respective municipality.

# 6. Installation

## 6.1 Necessary parts

First of all, please check the complete product contents of the camera in the original packaging (see "4 Packaging contents & connection" on page 9)

Furthermore, for installation you will require

Drill for the plug hole
Pencil for marking the drilling holes
Screwdriver

## 6.2 Installation of the ceiling/wall mounting

- First of all mark the drilling holes by means of the predetermined holes of the ceiling/wall mounting with a pencil.

*Placement of the plugs can be dispensed with if the base is made of wood. To attach the holder, the supplied screws are subsequently screwed directly into the base. In order to facilitate the screwing into wood, the positions should initially be drilled with a 2 mm bit for example (drilling depth scarcely under screw length).*

- Now drill the holes at the marked points and push in the plugs.
- Place the wall holder over the drilled holes and press against the wall, then introduce both screws and tighten with a screwdriver. To ensure the plastic holder is not damaged, tighten the screws sufficiently.
- Screw the female thread on the underside of the camera underside to the thread screw of the mounting and adjust the mounting to the desired angle by means of the lateral locking screws.

# 7. Preparation

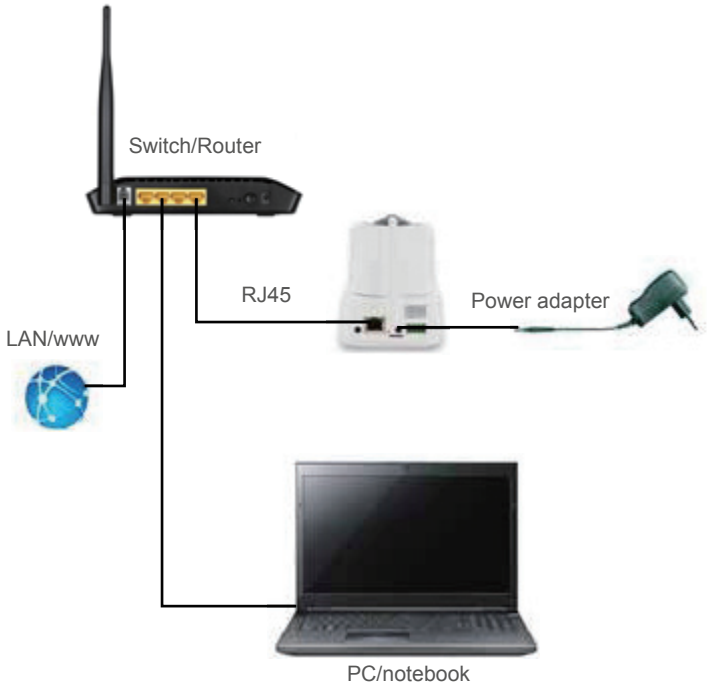
*Before you can use your IP camera, some preparations must be made!*

## 7.1 Connect power supply

Connect the connector plug of the enclosed power adapter with the power adapter connection on the camera.

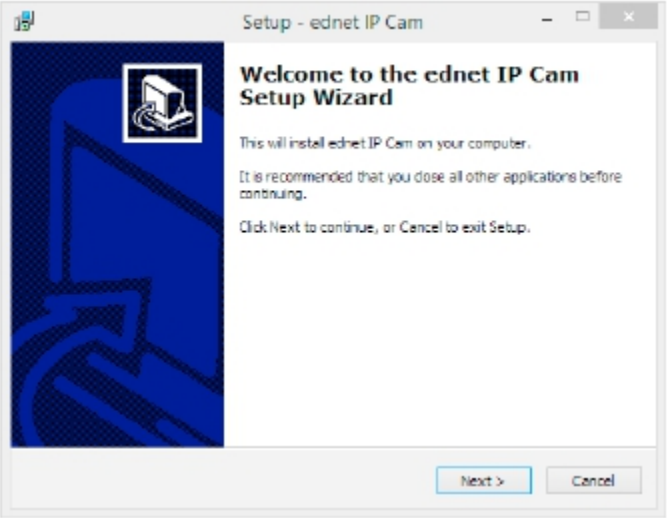
## 7.2 Connect camera to router

Connect one end of the included network cable to the LAN-connection on the camera. Connect the other end of the network cable to one of the connectors marked with “LAN” on the back of your router. Many routers have only one LAN-connection, others have several connections. Your router must have a working Internet connection.

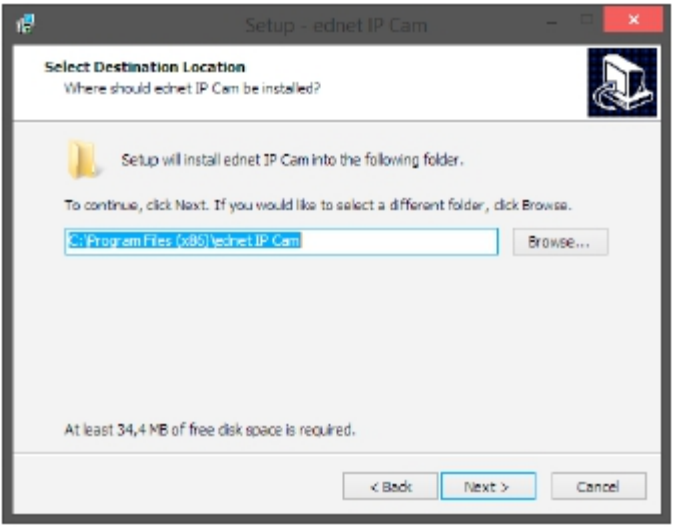


# 8. Software installation

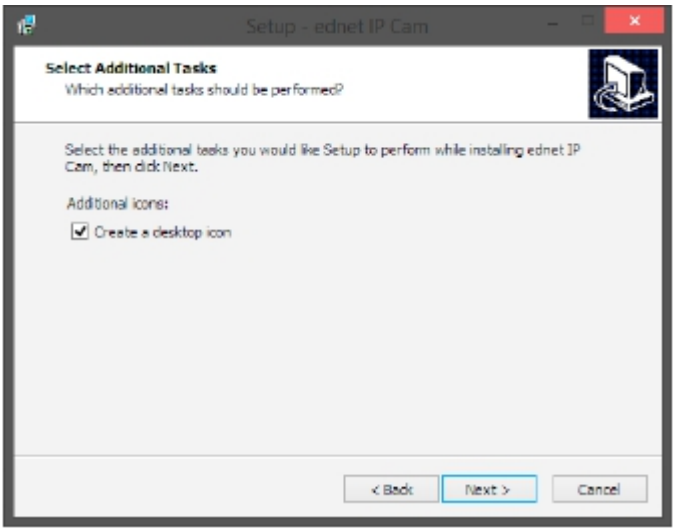
Install the supplied software or run the downloaded setup.exe.
Click on "Next" to move to the next step.

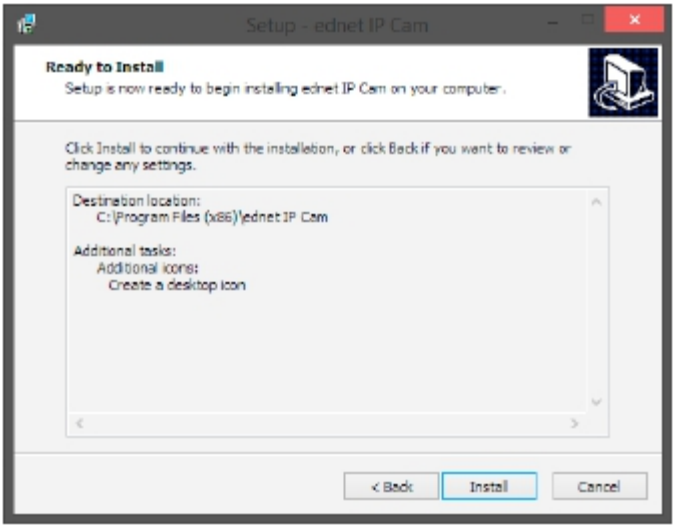



Select a folder where the software should be installed and click on "Next".

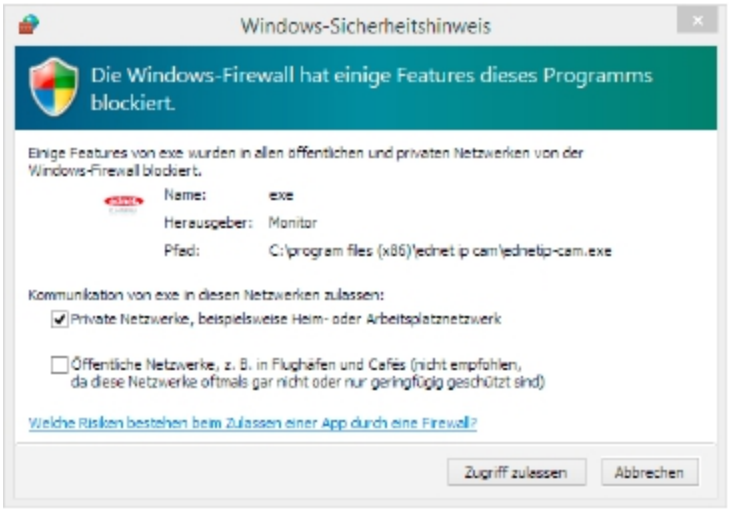


Select "Create a desktop icon", to access the software later directly from your desktop
Then click on "Install" to begin the installation.



Then confirm the firewall message with "allow access".



# 9. Set up the user account

*In order to use your ednet camera and to have a video image anytime and anywhere, you need to register your camera in a user account. The setup and control can both be done from your Smartphone/tablet as well as from a PC.*

## 9.1 Create a user account with your smartphone/tablet

If you have an Apple iOS device, you will find our "ednet IP camera" app in the Apple App Store. For Smartphones and Tablets with Google Android OS, you will find the "ednet IP cameras" app in the Google™ Play Store.

Input "ednet" or "ednet IP cameras" into the search field of the respective App store.

In the search results, the "ednet IP camera" app is denoted with this symbol. Then install the App on your mobile device. Start the App on your tablet or on your smartphone.

## 9.2 Create a new "ednet" account

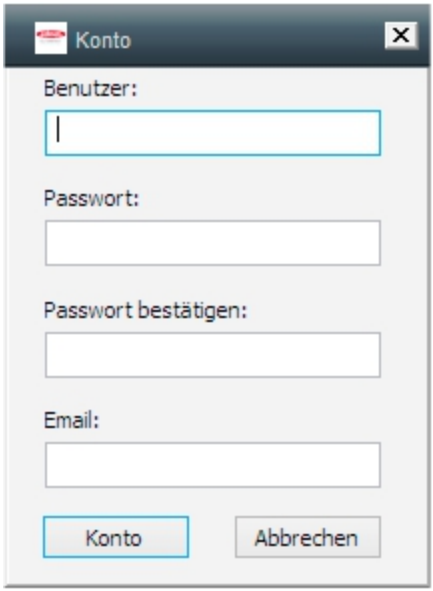
Create a new "ednet" account with an individual user name and password.
Click on "register". Please choose a user name, a password and confirm the selected password. Then enter your e-mail address. Confirm your input with "OK".

Then log into the App with "Login" using your user name and password. Now you can add your camera to the account (see "10 Add camera" on page 18").

## 9.3 Create user account with your PC

Please visit the website http://www.ip-cam.biz/.
Under "Software Download" you will find the software for Windows and Apple.
After the software has been installed on your computer, open it and select "account".

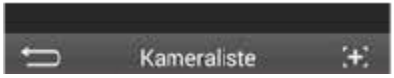
Create a new "ednet" account
Click on "account". Please choose a user name, a password and confirm the selected password. Then enter your e-mail address.
After that, confirm your input.



# 10. Add camera

## 10.1 With your smartphone/tablet

Click on the "ednet IP camera" app under "WAN" on the "+" symbol in order to add your camera.




This is easily done by scanning the QR-code with your smartphone/tablet or through manual entry of the activation data.

*The following devices are suitable for scanning the QR-code: Apple iPhone™, Apple iPad™, Android Smartphone, Android Tablet (with integrated back camera).*

The camera ID and the access password as well as the QR code can be found on the enclosed camera registration card.

## 10.2 Adding the camera by scanning the QR-Codes

Android devices show a grid on the display. Move the camera forward or backward until the QR-code fits into the grid.

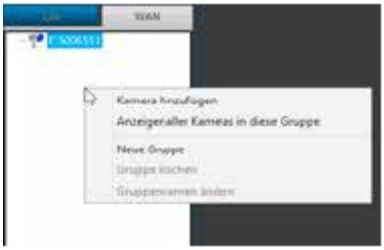
Apple iOS™ devices do not show any grid. To scan a QR-Code with an Apple iOS™ device, you may need to move the device backward and forward a couple of times, until it recognizes the code.

## 10.3 Add the camera with manual input of the camera ID & access password

The camera ID and the access password are on the enclosed camera registration card. Under "camera alias" please enter a name for the camera, and after that, please enter the "camera ID" from the card into the "camera ID" field. Please enter the "login password" from the card into the "access password" field.

After adding the camera, please check in the camera list in App whether your camera is listed under WAN.

## 10.4 Add the camera to the PC via the software browser




In order to add a camera to the PC, go to "WAN" and press the right mouse key. There you click on "add camera".

A new window opens, in which you enter a name for the camera under "camera alias". After that, please enter the "camera ID" into the field "camera identification" field and the "login password" into the "camera password" field. The camera ID and the access password are on the enclosed camera registration card.

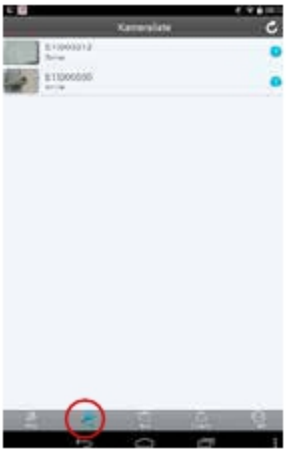
After successfully adding the camera, please check in the camera list whether your camera is displayed under "WAN".

*If you wish to use your ednet IP camera further with a network cable, the installation is finalized here.*
*If, however, you intend to use the wireless variant in the WLAN for the greatest possible flexibility in the choice of location, please continue reading.*

# 11. Wireless Lan set up

## 11.1 Set up Wireless Lan via the App

The set up of the wireless (WLAN) connection between the IP camera and WLAN-router/access point takes place via a PC or smartphone/tablet.



For this, go to the "LAN" area of the App and/or the software.

In order to connect the camera with the App via the WLAN go into the camera settings. To do this, press on the blue arrow.

Select the menu choice WLAN-network settings, there you can configure the camera's WLAN settings.

Activate the camera's WLAN-function, while clicking on "WIFI on" and then look for available wireless networks.

Select the network with which you want to connect and enter the network key.

Please confirm the input with "OK".

Now the network cable can be removed from the camera, and the camera can be operated over your wireless LAN.

## 11.2 Set up wireless LAN via the software

In order to connect the camera to the WLAN via the software, please click on the "WIFI "symbol.

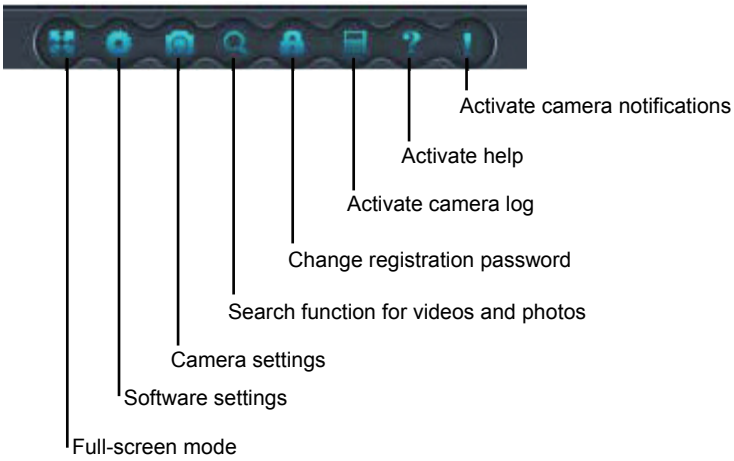
Activate the camera's WLAN-Function while clicking on "set up WLAN" and then look for available wireless networks.

Select the network with which you want to connect and enter the network key.
Please confirm the input with "OK".

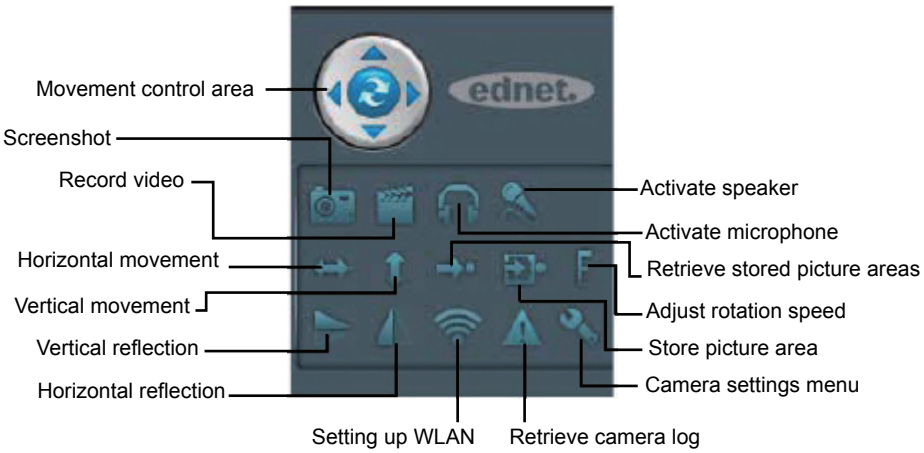
Now the network cable can be removed from the camera, and the camera can be operated over your wireless LAN.

# 12. Symbols

## 12.1 Operating controls upper menu

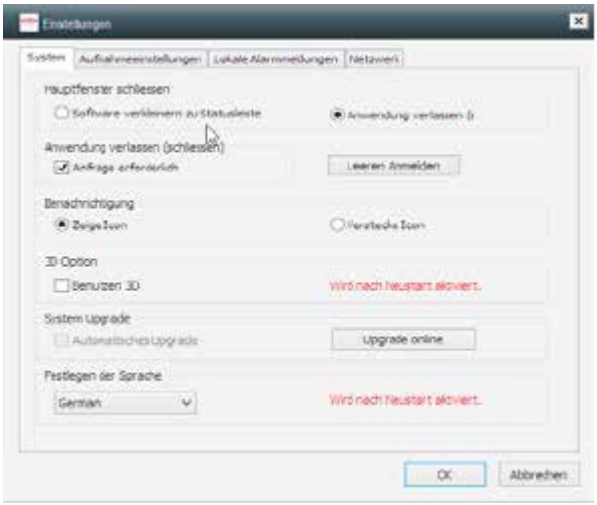



## 12.2 Operating controls lower menu



# 13. Functions & settings

## 13.1 System settings




In this settngs menu, you can carry out basic system settings.

Close main window/leave application (close)
Here you determine what should happen when the application is closed. You have the possibility to minimize the application into the taskbar so that the application continues to be available in the background or to close it completely. Moreover you can adjust whether a message should alert you for a confirmation before closing.

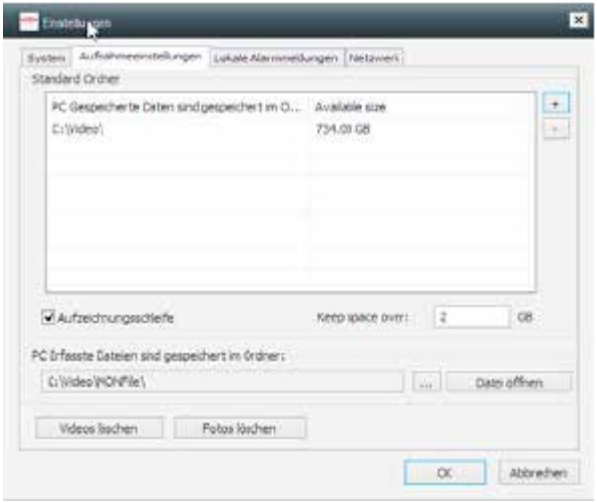
Notification
You can select whether the program symbol indicated in the information area is displayed or hidden.

3D option
To accept the settings, a restart is required.

System upgrade
Here you can check whether you have the latest software, as well as setting automatic upgrades.

Setting the language
Set the desired language of the application interface.

## 13.2 Recording settings

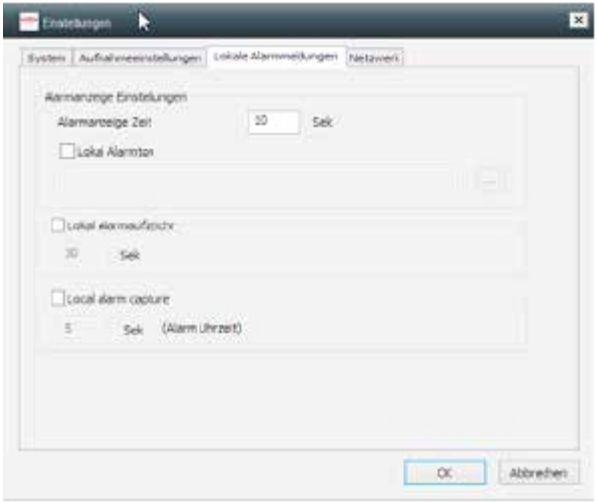



Root folder
With the recording settings, you determine the root folder, in which video and photo files should be stored on your computer. By clicking on "+", you can add files at will, and also remove them again by clicking on "-".

Loop recording
The "loop recording" function means that the recording automatically begins from the start when the specified file size is reached, and the recorded file is overwritten. If you deactivate this function, a file is saved without size restrictions.

Saved files
Here it is indicated where the files from the camera SD card should be copied to. With "open file", you open files from the SD card, and with "Delete videos" or "erase photos", you remove your recorded files on the camera SD card.

## 13.3 Local alarm messages

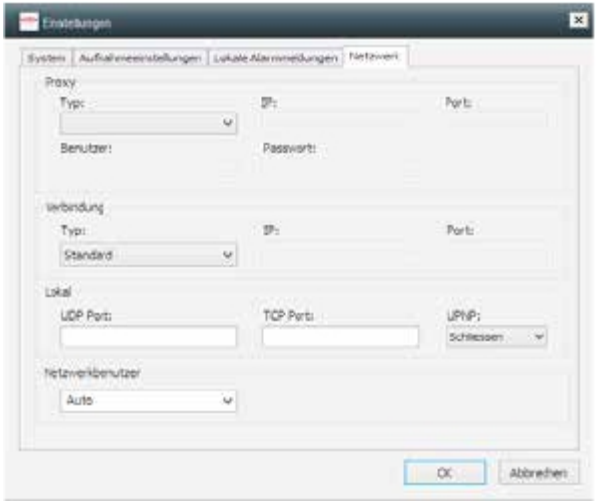



Alarm display time
The "alarm notice time" indicates how long alarm messages remain in the foreground and which tone should be reproduced.

Offline alarm recorder
Offline alarm recording indicates the time, that will be stored with an alarm.

Offline alarm capture
Local alarm capture indicates the time, at which photos are stored.

## 13.4 Network



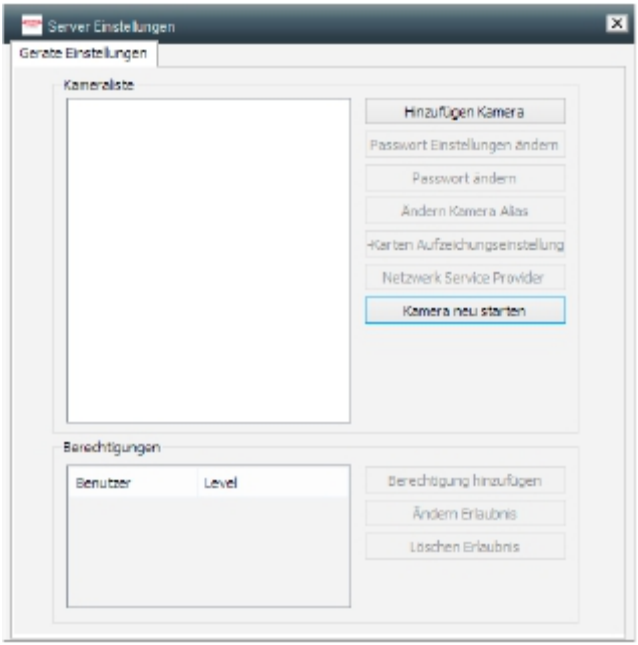

Proxy
Here you can make settings for a proxy server. These protocols are available for you: HTTP, SOCKS4 oder SOCKS5. After selecting the protocol, you have the input fields for the IP address, the port, as well as the user and the password.

Connection
Setting the network protocol, either over UDP (User Datagram Protocol) or TCP (Transmission Control Protocol), as well as setting the IP and the port.

Offline
The offline settings of the UDP-, the TCP- and the UPNP ports. (Universal Plug and Play)

Network user
Here you can set the network users.

## 13.5 Device settings



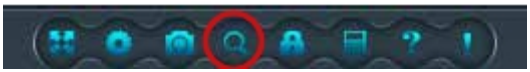

Camera list
Lists all cameras registered by you.

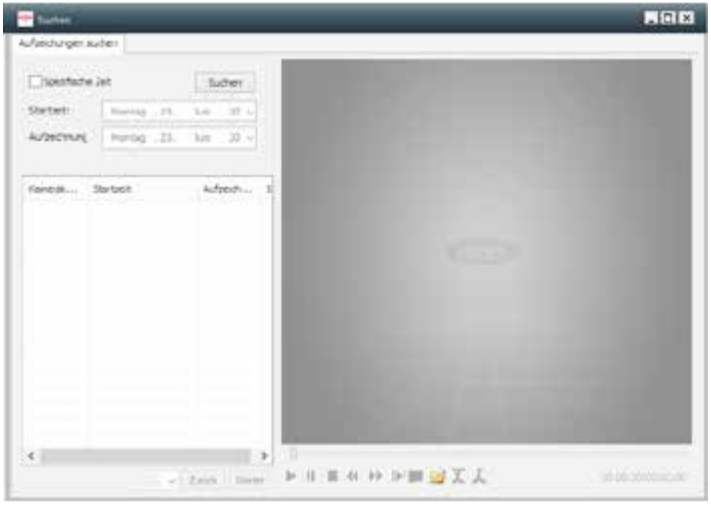
Authorizations
Here you can add users and change various authorizations.

Offline
The offline settings of the UDP-, the TCP- and the UPNP ports. (Universal Plug and Play)

Network user
Here you can set the network users.

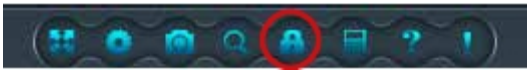
## 13.6 Search





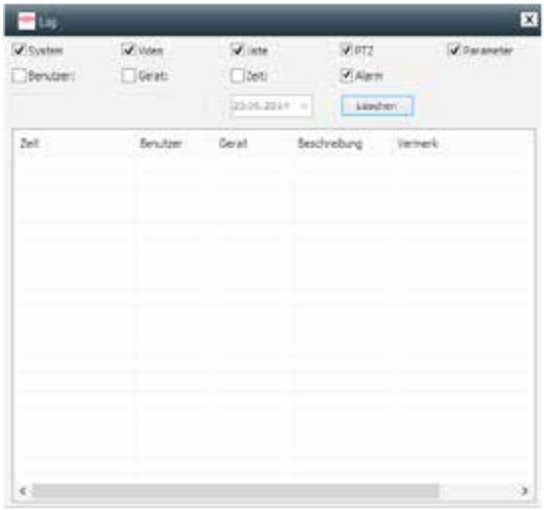
In the search menu you can search for camera recordings and play them back. To do this, click on "Search". The recorded files are then automatically itemized in the list.

## 13.7 Change registration password



Here you can change the registration password.

## 13.8 Log




Serves to examine the log file, which can be filtered according to the following criteria: System, video, list, PTZ, parameter, user, device, time, alarm.

## 13.9 Help

Calls up the IP camera help file.

## 13.10 Camera notifications

Shows the camera events by time, user, device and description of the events.

# 14. Operating controls

## 14.1 Movement control area

In addition, the movement control area serves to drive the camera automatically or manually. The middle area moves the camera automatically into all directions, with the respective arrows in the outer area the camera can be steered manually.

## 14.2 Screenshot

The screenshot function can record a fixed image from the present camera position and stores this in the file that you have indicated.

## 14.3 Record video

A single press on "video record" starts the camera recording ; pressing again will stop recording. The recorded videos are stored in the file indicated by you and can then be retrieved by means of the "search" function. (See "13.6 Search" on page 28)

## 14.4 Listen

Activates the camera microphone. Detailed sounds can be monitored.

## 14.5 Talking

Activates the camera loudspeaker , so that audio signals can be displayed on the camera.

## 14.6 Level movement

Starting the automatic, horizontal movement of the camera (to the right/to the left). Press again to end movement.

## 14.7 Move around vertically

Swings the camera vertically (up/down). Press again to end movement.

## 14.8 Go to position

With this function, you can steer the camera to a pre-determined point. 8 different points can be stored.

## 14.9 Set position

Here you can set different positions, that you subsequently retrieve with the "go to position"function. 8 different positions can be stored.

## 14.10 PTZ rate

With this function, you can set the rotation speed of the camera in 10 different levels.
1 = slow 10 = quick

## 14.11 Vertical flip

Here you can reflect the camera picture vertically.

## 14.12 Reflecting

Here you can reflect the camera picture horizontally.

*These functions are meaningful if you mount the camera on the ceiling, for example.*

## 14.13 Wireless Setup

The "Wireless Setup" opens the menu for setting up the WLAN. (See chapter 11.2 Set up Wireless LAN via the software" on page 21")

## 14.14 Alarm Log

With this button, you can retrieve the camera log.

Here you see all camera results. You can sort these according to the following criteria: System, video, list, PTZ, parameter, user device, time and alarm.

## 14.15 Parameters

Here you can open the camera settings. There you can carry out the following settings:

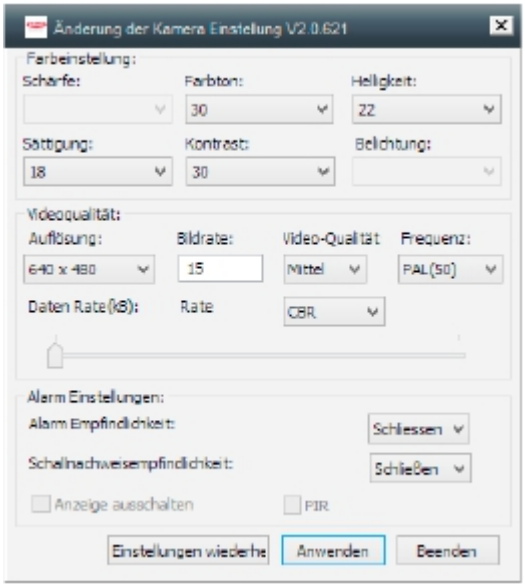
Color settings focus, shade, brightness, saturation, contrast, exposure

Video quality

Resolution, frame rate, video quality, frequency, data rate, bit rate

Alarm settings

Alarm sensitivity, noise detection sensitivity



# 15. Glossary

## App
With the application software (App for short), computer programs are designated, that are used, in order to carry out or process orders with a graphic surface.

## Resolution
The resolution is a measure of picture sharpness and is indicated in the computer sector in pixels, in the video area generally in lines (number of columns) and rows.
The resolution describes the smallest possible points or lines that a technology can reliably separate from one another, and can therefore be reproduced dispersed from one another.

## Image refresh rate
The refresh rate, also called frame rate, indicates how many pictures can be presented in a unit of time.

## CAT 5
Cat 5-cables are used for signal transmission with high data transfer rates and are used in networks.

## CMOS color sensor
The CMOS sensor is a picture sensor used in digital cameras and video camcorders. CMOS sensors are photosensitive components that transfer the light falling on them into voltage.

## Ethernet
Ethernet is a technology, that specifies software (protocols etc.) and hardware (cable, distributor, network cards etc.) for cable bound data networks, which was originally designated for local area networks (LANS) and was therefore also named as LAN technology. It enables data exchange between the devices connected to a local area network (LAN) (computers, printers and similar).

## LAN
A Local Area Network is a network of computers that comprises several computers and network capable devices within one building. Computers that are connected with the network can access, for example, shared printers and software. .

## Network cable
A network cable is a standardized cable that connects network components, such as, routers, switches, or network cards.

## QR code
QR codes are 2D-Codes that are can be scanned and read from mobile phones and Smartphones and tablets and in which web addresses, phone numbers, SMS and free text can be stored.

## RJ 45

RJ plug-in connections are standardized connections for telecommunication cabling. RJ plug-in connections are used today worldwide for telephone connections and network connections.

## VGA

Video Graphics Adapter (VGA) is a representation format for graphic screen representations.

## WAN

Wide Area Network: Most networks work over serial connections, in which network capable devices are distributed over long distances.

## WLAN

The WLAN (Wireless LAN or Wireless Local Area network) is a non wire-connected LAN that uses high frequency radio waves instead of cables.

# 16. Index

Symbols
3D option, 23

A

Activate microphone, 22
Activate speaker, 22
Add camera, 18
Adding the camera, 19
Adjust rotation speed, 22
Alarm, 25, 37
Alarm display time, 25
Alarm Log, 37
Alarm sensitivity, 38
Alarm settings, 38
Antenna, 9
App, 39
Authorizations, 27

B

Bit rate, 38
Brightness, 38

C

Camera list, 27
Camera log, 37
Camera notifications, 30
Camera settings, 22, 38
Camera settings menu, 22
CAT 5, 39
Change registration password, 29
CMOS color sensor, 39
Color settings, 38
Connect, 12
Connection, 9, 26
Contrast, 38
Create account, 16

D

Data rate, 38
Delete videos, 24
Device settings, 27
Disposal, 10

E

Ethernet, 39
Events, 30
Exposure, 38

F

Files, 24, 28
Focus, 38
Foreword, 2
Frame rate, 38
Frequency, 38
Full-screen mode, 22
Functions, 23

G

Glossary, 39
Go to position, 34, 35

H

Help, 22, 30
Highlighting, 8
Horizontal movement, 22
Horizontal reflection, 22

I

Image refresh rate, 39
Important notes, 10
Installation, 11, 13

L

LAN, 39
Level movement, 33
Listen, 32
Local alarm messages, 25
Log, 22, 29
Log file, 29
Loop recording, 24
Loudspeaker, 33

M

Menu, 22
Micro SD, 9
Microphone, 9, 32
Move around vertically, 34
Movement, 33
Movement control area, 22, 31

N

Network, 20, 21, 26, 27

Network cable, 39
Network connection, 9
Network settings, 20
Network user, 26, 27
Noise detection sensitivity, 38
Notification, 23
Notifications, 22

O

Offline, 26, 27
Offline alarm capture, 25
Offline alarm recorder, 25
Operating controls, 22, 31
Operating lights, 9

P

Packaging contents, 9
Parameters, 38
Password, 16, 17
Positions, 35
Power adapter, 9
Power supply, 12
Preparation, 12
Proxy, 26
PTZ rate, 35

Q

QR code, 39
QR codes, 18
Quality, 38

R

Record video, 22
Recording, 32
Recording settings, 24
Recordings, 28
Reflecting, 36
Registration password, 22, 29
Resolution, 39
Retrieve camera log, 22
Retrieve stored photo area, 22
RJ 45, 40
Root folder, 24
Rotation speed, 35

S

Saturation, 38
Saved files, 24
Screenshot, 22, 31
SD card, 24
Search, 28
Search function, 22
Search menu, 28
Set position, 35
Setting the language, 23
Setting up WLAN, 22
Settings, 23
*Setup*, 16, 20, 37
Shade, 38
*Smartphone*, 16, 18, 20
Software, 13, 14
Software browser, 19
Software settings, 22
Store picture area, 22
Symbols, 8, 22
System settings, 23
System upgrade, 23

T

*Tablet*, 16, 18, 20
Talking, 33

U

User account, 16
User names, 16, 17
Users, 27

V

Vertical flip, 36
Vertical movement, 22
Vertical reflection, 22
VGA, 40
Video quality, 38
Video Record, 32

W

WAN, 40
Wireless, 37
Wireless Lan, 20
Wireless LAN, 21
Wireless setup, 37
WLAN, 40

ednet is a registered trademark of ASSMANN Electronic GmbH.
Apple™, Apple App Store™ are registered trademarks of Apple Inc.
Android, Google, Google play™ are registered trademarks of Google Inc.

*Note:*
*All other trademarks not listed here, are the property of their respective owners*

Trademarks or trade names mentioned in this manual are used to describe the operating steps and do not imply that they are freely available.
In any case they are the property of the respective holder of the rights.

ASSMANN Electronic GmbH hereby declares that the ednet IP cameras conform with the requirements and directions of the guideline 1999/5/EG. The full Declaration of Conformity can be found under http://www.ednet-europe.eu