



User Manual

ProLine SIP
Compact SIP
ProLine SV SIP
ProLine SIP Compact
Compact SV SIP

ProLine 'for Teams'
ProLine Compact 'for Teams'
Compact SV 'for Teams'

Software version 3.6.13 or higher

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About this manual

This manual describes the installation and programming of the Robin SIP intercoms in combination with software version 3.6.10. You can update the software of the Robin to the latest version. For instructions on updating see page 63 of this manual.

This manual applies to:

Robin ProLine SIP (1, 2, 4 buttons or keypad)
 Robin Compact SIP
 Robin ProLine SV SIP (1, 2, 4 buttons or keypad)
 Robin ProLine SIP Compact
 Robin Compact SV SIP

This manual also applies to all 'for Teams' intercoms of Robin, these are optimized intercoms for use with the CyberGate service of CyberTwice.

If you have any questions after reading this manual, please contact us at:

website: www.robintele.com
 support website: support.robintele.com
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Important safety information

Take the following security measures when using a Robin:

- The use of port forwarding in routers / firewalls to access the Robin door phones is strongly discouraged. Use the Robin door phones on the local network (LAN) only
- Change at first use the passwords of both the 'admin' and the 'user' (in the menu -System-Security-), it is recommended to change them regularly
- Use strong passwords (minimum 12 characters long)
- Configure the used PBX / VoIP provider to only allow the Robin door phone to call its programmed destination numbers using the white-list function in the PBX / VoIP provider
- Update the Robin door phone regularly

By default, access to the webinterface of the Robin is limited to devices that are connected to the same network as where the Robin resides. It does allow access from other networks, but only for the first 30 minutes after reboot.

This security feature can be disabled (not recommended!) in chapter 5.2.5.4 *System / Security*.

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1 Introduction

1.1 Robin SmartView / ProLine SIP Door Intercom



Integrated functions

The Robin SIP models have many integrated functions in one single device:

- Telephone device with one piezo push-button
- SIP support for audio
- Door opener
- Advanced event mechanism
- Extended API (Application Programming Interface)

The Robin SV SIP models have the same features as the Robin SIP but extends its feature set with:

- SIP support for audio *and* video
- High-Definition, full colour camera with a wide-angle lens
- Security camera with movement- and audio detection
- RTSP streaming (audio and video)

The Robin ProLine is equipped with the same features as the Robin SV SIP models but extends its feature set with:

- Premium design
- Backlit button(s) for more convenience during night time use
- Engravable illuminating labels
- Recessed screws
- Modified GUI-layout
- ProLine - Equipped with one, two, four buttons or Keypad
- ProLine SIP Compact - Compact form factor, no visible screws

1.2 Robin features

Easy to install

A single module is all that has to be mounted; there are no extra modules necessary.

Simple operation

The Robin devices with 1, 2 or 4 buttons can dial predefined phone extensions. The door opener relay is activated via the device to which the call is directed. On the Robin devices with a keypad, the call is set up by typing a preset number on the keypad. It also features a PIN code feature that can be used to unlock the door. All Robin intercoms with an integrated camera are capable of sending e-mails containing a photograph of the person using the intercom to predefined recipients.

SIP communication

The Robin uses the Session Initiation Protocol (SIP). This means that the intercom can be connected to any IP-PBX or VoIP provider that supports the SIP protocol.

Robin 'for Teams'

The Robin 'for Teams' cannot be used with an IP-PBX or VoIP provider. It can only communicate to Microsoft Teams using the CyberGate service of CyberTwice.

Microsoft Teams support

The Robins can be connect to a Microsoft Teams environment using the CyberGate service of CyberTwice. CyberGate offers audio and video support. Calls made with a Robin that has an intergrated camera will be directed to a Microsoft Teams user that can cummunicate, see the person at the door and open the door remotely. For more information about CyberGate, see the website <https://cybertwice.com>

Door opener

The potential free relay switch (dry contact) embedded in the Robin is activated by typing in a key combination at the dialled device. The key combination can be specified in the WEB-GUI of the Robin. The relay can be used to open a door, a gate or a barrier.

Video support (Robin devices with integrated camera)

A real-time video image of the person using the Robin is displayed on the screen of the H.264 compatible videophone or softphone as soon as a call is answered.

! Note: When using an IP-PBX or VoIP provider, check the distributor of the IP-PBX or the VoIP provider for H.264 video compatibility. !

High-Definition video quality (Robin devices with integrated camera)

The integrated camera of the Robin is capable of displaying the video image in High-Definition. The image can be set to an aspect ratio of 4x3 or 16x9. A maximum of three simultaneous video streams is supported.

High-quality sound reproduction

Thanks to the advanced audio DSP in the Robin, its sound quality is exceptionally good without any echo or interference.

Security camera function (Robin devices with integrated camera)

The integrated camera can also be used for surveillance purposes. The Robin is able to deliver the video stream to many Video Management Software systems (VMS) in two formats, MJPEG and H.264 (RTSP).

Picture To Email (Robin devices with integrated camera)

All Robin devices with integrated camera are equipped with the Picture To Email feature. It will send an e-mail the captured picture of the visitor to an (per button or preset configurable) email address of choice. The document: How-To_Picture2Email_ENG.pdf describes the configuration of this function. You can also download this document on our support site: **<http://support.robintele.com>**

No separate power supply

The Robin is powered via Power over Ethernet (PoE IEEE 802.3af). This eliminates the need for a separate power supply; connection to a PoE network switch or Midspan is all that is necessary.

Web-based configuration

The Robin can be configured on a PC or Mac via a web browser (e.g. Firefox, Chrome, Safari). Using a web browser, modification of all the settings for the Robin is easy, regardless of the physical location of the Robin.

Compatible with WEBRelay

The Robin is compatible with an external IP relays, the ControlByWeb WEBRelay Quad-LS. This external device is equipped with 4 build-in relays and can be connected to the LAN. The 'Events' mechanism in the Robin can control the four relays (page. 56).

2 Operation

2.1 Operating the door phone

2.1.1 Robin with one, two or four buttons

To ring the door phone, press on the bell-sign on the Robin. The unit will play a ringing sound and the defined telephone set will be called. The Robin ProLine models will also blink the label illumination when the button is pressed.

2.1.2 Robin with keypad

The Robin with keypad has 16 keys.

- Keys 1, 2, 3, 4, 5, 6, 7, 8, 9 and 0, use these keys to type the desired preset
- Green call button, initiate the call to the entered preset
- Red disconnect button, disconnect the call
- The 'i'-key, call a programmed preset
- The 'C'-key, clear the input
- The '*'- and '#'-key, used for entering a PIN code

The Robin with keypad offers you the ability to create a call list with presets.

Each preset can be assigned up to three phone numbers, an e-mail address (optional) and a PIN code (optional). By dialing the preset number on the intercom it will start calling phone number one. If the first number is engaged or not answering it will continue with the second number. If the second number is engaged or not answering it will continue with the third number.

It also features a 'i-button' on the Keypad. This button can be programmed to dial a defined preset, for instance the reception or building manager.

If the green call button is pushed without dialing a preset first, the preset programmed for the 'i'-key will be dialed.

Keypad specific settings such as beep volume, -frequency or backlight settings can be changed in the menu -Telephony-Call settings-General-.

2.2 Answering

You answer a call initiated by the Robin by answering the phone that is being called. In case you use a H.264 compatible videophone or softphone, the video picture of the integrated camera is displayed on the screen of the phone.

2.3 Controlling the built-in door opener

The built-in door opener is controlled with predefined keys on the telephone set that answers the call. When you activate the door opener, the attached door, gate, barrier, etc. will open.

You can change the default code to open the door in the interface of the Robin in the menu -System-Switch- (default code: ##).

2.4 Access using a PIN code (Robin with keypad only)

The Robin with keypad can activate the door opener by entering a PIN code on the Keypad. This PIN code is preset depended, so every preset can have its own PIN code. When the correct PIN code is entered, the intercom will activate the build-in relay switch, but it can also trigger an (optional) external relay switch.

To enter a PIN code on the intercom, start by pressing the '*'-key and end it by pressing the '#'-key. Assuming the PIN code is 123456, you will need to enter: *123456# to unlock the door. When a valid PIN code is entered a tune will be played by the intercom and the build-in relay switch will be activated.

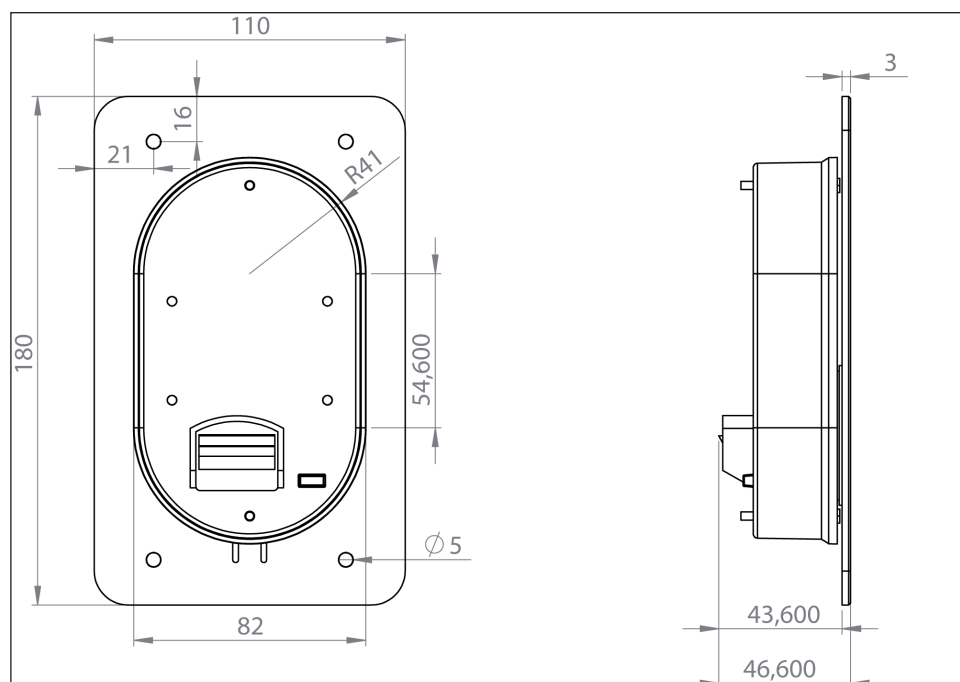
3 Installation

3.1 Package contents

- The Robin
- Anti-theft Allen key
- 4 anti-theft screws
- 4 wall plugs (6mm)
- Drilling template
- Tie-wrap

3.2 Installation dimensions Robin Compact SV / SIP

The installation dimensions of the Robin SV / SIP differ from the dimensions of the Robin ProLine SIP models.

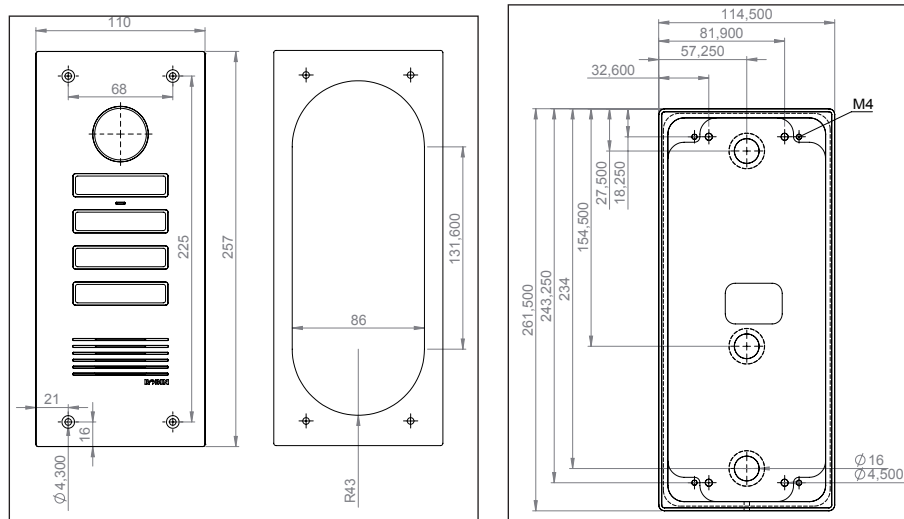


The dimensions of the surface-mount box are:

- | | |
|---------------------|----------------------------|
| ▪ 1 button - C01100 | 88 (B) x (47 (D) x 162 (H) |
|---------------------|----------------------------|

3.3 Installation dimensions Robin ProLine

The dimensions of the Robin ProLine are identical for all versions. The 1, 2, 4 button and the Robin with Keypad all use the same size of surface- and flush mount boxes.



The dimensions of the flush mount box and surface mount box are:

<ul style="list-style-type: none"> 1, 2, 4 button flush mount box - C01112 	88 (B) x 47 (D) x 239 (H)
<ul style="list-style-type: none"> 1,2,4 button surface mount box - C03001 	115 (B) x 45 (D) x 261 (H)

3.4 Tools and materials required for mounting without the flush mount box or surface mount box

The following tools and materials are required when mounting the Robin:

- Core drill, 90 mm in diameter
- Masonry drill, 6 mm in diameter
- Stone chisel
- General set of tools
- Anti-theft Allen key (supplied)
- Anti-theft screws (supplied)
- 6mm wall plugs (supplied)
- Drilling template (supplied)
- Tie wrap (supplied)

3.5 Mounting instructions for mounting without the flush mount box or surface mount box

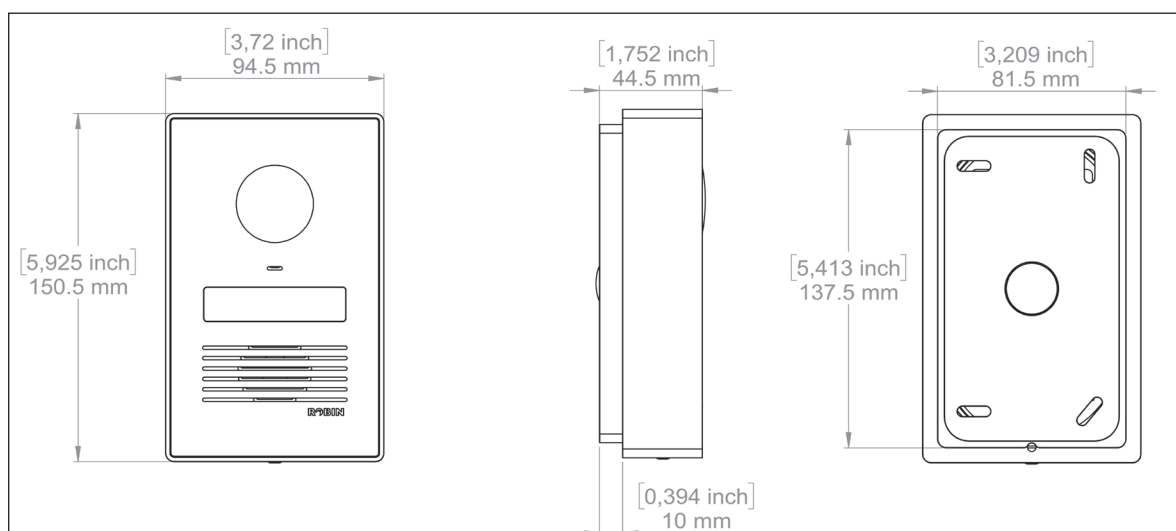
Follow the step-by-step plan described below for problem-free mounting of the Robin.

Step-by-step plan:

1. Drill holes of 90 mm in diameter and 60 mm in depth using the core drill.
Use the drilling template supplied in the package for this.
2. Remove the cores from the drilling using the stone chisel.
Shape the hole so that the plastic housing of the Robin fits with room to spare.
3. Feed the cable into the hole, leave enough excess length for a loop in the hole.
4. Drill the four fixing holes for the front panel using the drilling template and insert the wall plugs supplied with the set into the holes.
5. Connect the Ethernet cable to the clamp connector. (Chapter 3.9)
6. Optional - connect the cable for operating the door switch to the clamp connector.
7. Secure the cable to the plastic housing using a tie-wrap.
8. Position the Robin in the hole in such a way that the looped cable fits neatly behind the device.
9. Fix the device securely in place using the anti-theft screws supplied in the package.

3.6 Installation dimensions Robin ProLine SIP Compact

See the drawing for the dimensions of the Robin ProLine SIP Compact. It ships with a surface mount box.



3.7 Tools and materials required for mounting the Robin ProLine SIP Compact

The following tools and materials are required when mounting the Robin:

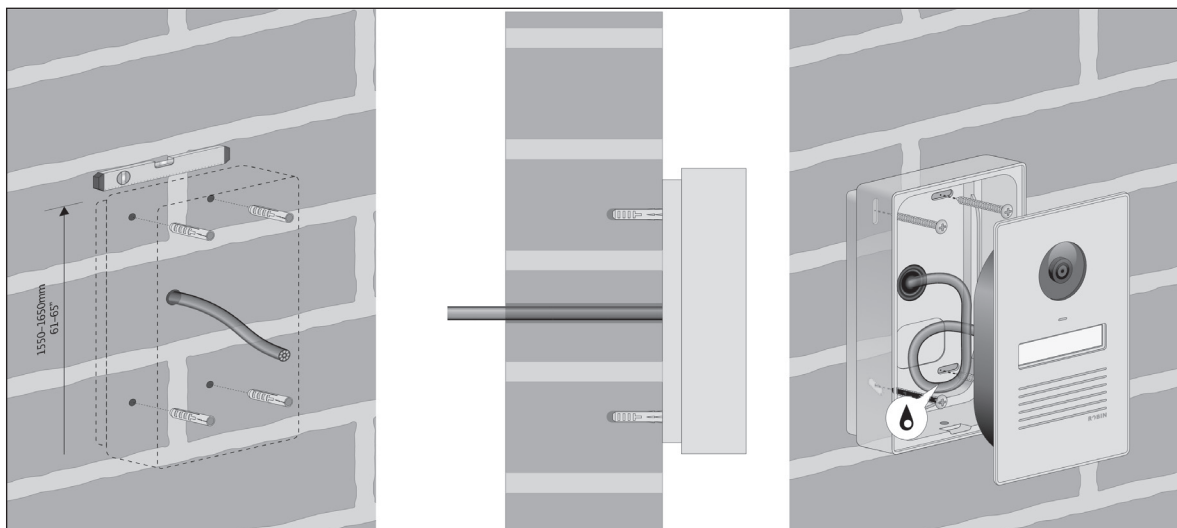
- Masonry or wood drill
- General set of tools
- Allen key (supplied)
- Screw (supplied)
- Tie wrap (supplied)

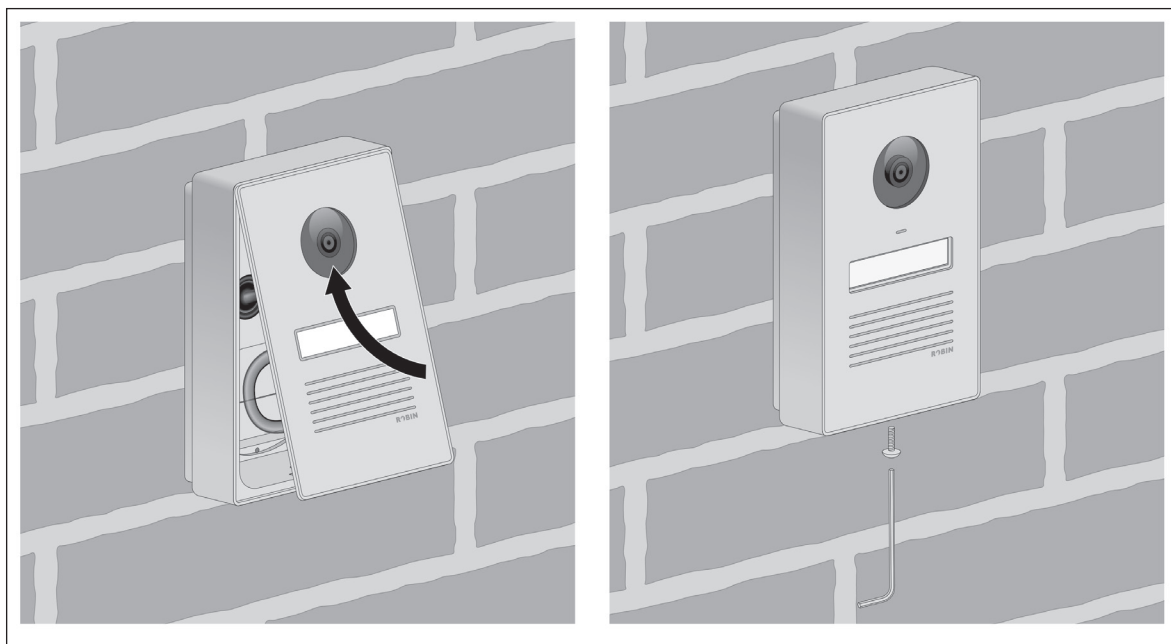
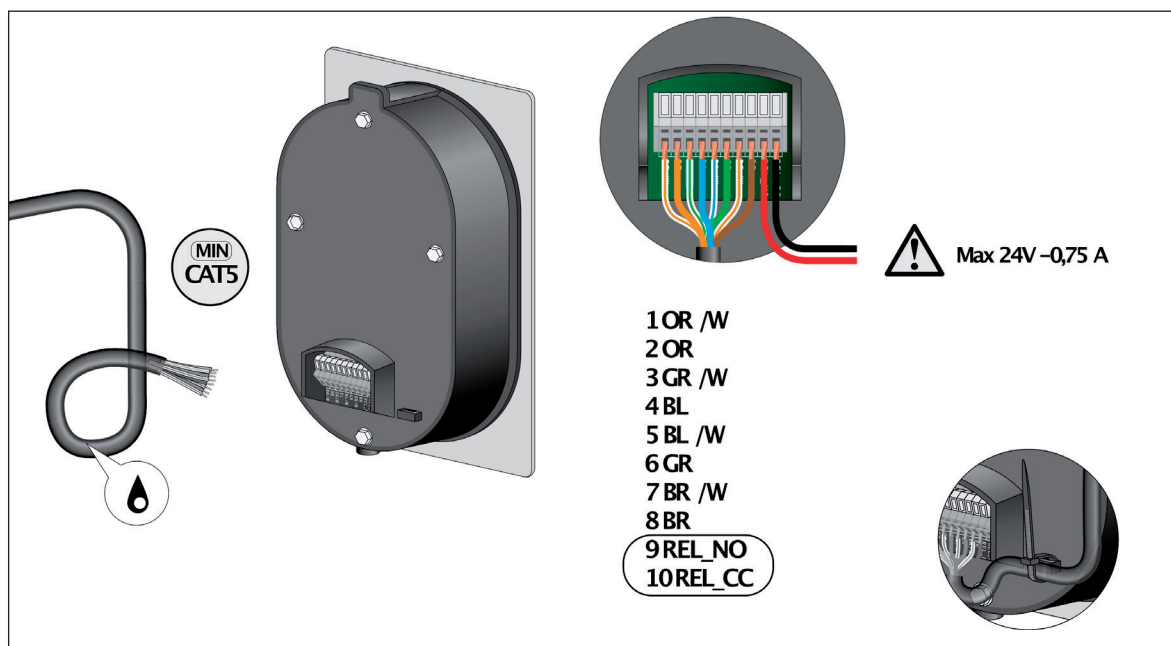
3.8 Mounting instructions

Follow the step-by-step plan described below for problem-free mounting of the Robin ProLine SIP Compact.

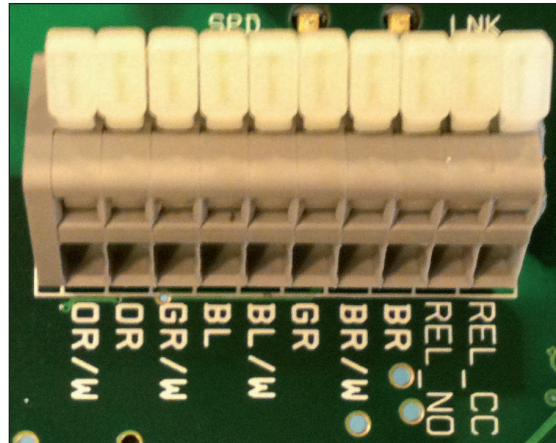
Step-by-step plan:

1. Keep the surface-mounting box in the right place on the wall and make sure it is level.
2. Mark the four mounting holes on the wall with a pencil.
3. Also mark the point where to make the hole for the doorbell cables.
4. Drill the holes.
5. Feed the ethernet cable and optionally the relais cables through the drilled hole.
6. Screw the surface-mounting box to the wall.
7. Connect the unit.
8. Place the unit at an angle in the mounting box. Secure the doorbell with the screw and Allen key supplied





3.9 Connecting the Robin



Connecting the Robin

To connect the Robin, use an Ethernet cable, type CAT5(e) or CAT6. The colours of the individual wires match the colour codes below the connector.

To connect to the built-in relay switch, use a second cable.

Colour codes

▪ OR / W	Orange / white
▪ OR	Orange
▪ GR / W	Green / white
▪ BL	Blue
▪ BL / W	Blue / white
▪ GR	Green
▪ BR / W	Brown / white
▪ BR	Brown
▪ REL_NO	Relays connection, 'Normally open'
▪ REL_CC	Relays connection, 'Common'

4 System installation

4.1 Requirements prior to installation

- Network connection with PoE (Power over Ethernet) is used to power the Robin; the power supply must be 802.3af compatible.
- PC with web browser.
- The following web browsers are supported:
 - FireFox
 - Safari
 - Google Chrome
- Network with or without DHCP support (DHCP support is recommended)
- Network cable
- Optional - Two-core cable for door switch operation

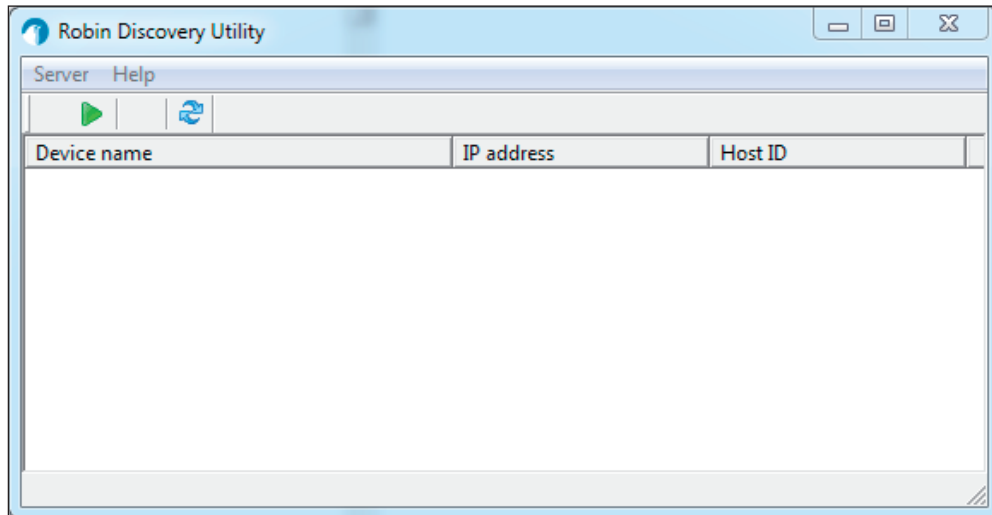
4.2 Connecting the Robin to a network

Connect the Robin to the network via the network connection socket on the rear. The Robin will boot automatically. This can take up to 60 seconds.

! Note: The length of the Ethernet cable may not exceed 100 metres. This is a limit of the Ethernet standard. !

Windows users:

Copy the 'Robin Discovery Utility' software to a PC that is connected to the network. Start the 'Robin Discovery Utility' software and click the "Play" button. The software will scan for Robin devices in the network. When a Robin is detected, it is displayed in the list. Double-click on the detected Robin you would like to configure; the web interface for the selected Robin will show.

*Mac / Linux users:*

Enter the IP address of the Robin in the address bar of the web browser that is installed on your PC in order to access the web interface.

The Robin can now be configured via the web interface (see Chapter 5, Configuration).

5 Configuration

5.1 Logging in to the Robin

The Robin can be used accessed as an 'Administrator' or as a 'User'.

- The Administrator can configure all settings of the Robin. To initially configure the Robin you will need to login as an Administrator.
- The User can only watch live video and optionally control the door opener. A User can't modify settings of the Robin.

The login credentials can be changed in the web interface of the Robin. The default credentials are:

- Administrator - Login: admin, Password: 123qwe
- User - Login: user, Password: has to be set

! Note: Change the password immediately after installation, both the Administrator and the User, (menu -System-Security-). The use of strong passwords is highly recommended !

The Robin will warn you when the default password for the Administrator hasn't been changed yet when logging in and will keep warning you until the default password is changed.

We assume here that the network supports DHCP; if so, all settings such as the IP addresses, netmask, gateway and DNS are automatically populated.

DHCP is a default setting of the Robin. If the network does not offer DHCP, the network details must be set manually.

5.2 Configuration of the Robin

The configuration program for the Robin features 5 sections; 'Telephony', 'Audio', 'Video', 'Network' and 'System'.

'Telephony'

In the 'Telephony' section, configure all of the settings that are required for the communication part of the Robin.

'Audio'

In the 'Audio' section, various modifications to the sound and sound processing features of the Robin can be made, such as loudspeaker volume, microphone sensitivity and echo suppression.

'Video' (on Robin devices with integrated camera)

In the 'Video' section, optimise the image quality, view the live video and set the motion detection settings.

'Network'

In the 'Network' section, view and change the network configuration settings for the Robin.

'System'

In the 'System' section, view and change the settings that influence standard operation of the Robin. It also contains the log files section for problem diagnosing.

! Note: In the Robin software you'll note 'APPLY SETTINGS' buttons. Use these buttons to confirm and activate all the changed settings. !

5.2.1 Telephony

5.2.1.1 Telephony / SIP

This is where you enter the data required for registering on an IP-PBX or with a VoIP provider. If the Robin is used for a direct connection (Peer2Peer / P2P) to the telephone handset (without using an IP-PBX or VoIP provider), registration is not required.

The Robin can make use of a secondary SIP proxy / Register server for failover purposes. It will only be activated if the primary server fails.

! Note: A secondary SIP proxy or Register server can only be used if both the SIP proxy or Register servers use the same login credentials. It is recommended to set the 'Expires' time to 300 seconds. (The maximum time between switching servers will be 5 minutes) !

The screenshot displays the Robin web interface for configuring SIP settings. The page title is "ProLine SIP 5 MP IP camera (WideAngle) - 1 Button". The navigation menu includes "Telephony", "Audio", "Video", "Network", and "System". The "SIP" tab is selected, showing sub-tabs for "Phonebook", "Call settings", "Call log", and "Control".

SIP settings

- ☒ Enable Teams mode
- ☒ SIP protocol:
- ☒ SIP proxy / Registrar:
- ☒ SIP proxy port number:
- ☒ Line ID:
- ☒ Authentication Username:
- ☒ Password:
- ☐ Register

SIP advanced

- ☐ Outbound proxy
- ☐ Dnsrv
- ☒ SIP DSCP Class:
- ☒ Audio RTP DSCP Class:
- ☒ Video RTP DSCP Class:
- ☒ Audio RTP port start:
- ☒ Audio RTP port end:
- ☒ Video RTP port start:
- ☒ Video RTP port end:
- ☐ RTP port random
- ☐ SIP port random
- ☒ Keepalive
- ☐ Enable REFER

SIP registration

▪ Enable Teams mode	Activates the Microsoft Teams mode. The necessary audio and video settings for Microsoft Teams and the CyberGate service are set
▪ SIP protocol	Select the SIP protocol, UDP or TCP, UDP is default
▪ SIP proxy / registrar	Enter the IP address or hostname for the IP-PBX or VoIP provider
▪ SIP proxy port number	Enter the IP port number for the IP-PBX or VoIP provider
▪ Use secondary SIP proxy / Registrar	<i>Optional</i> - Enter the IP address or hostname for the IP-PBX or VoIP provider
▪ Line ID	Enter the Line-ID. If not available, use the same name as the 'Authentication Username'
▪ Authentication Username	Enter the username for registration to the IP-PBX or VoIP provider
▪ Password	Enter the password for registration to the IP-PBX or VoIP provider
▪ Register	Activates or deactivates registration to for registration to the IP-PBX or VoIP provider
▪ Expires	Period of time during which the SIP door intercom can register.
▪ Registration status	Shows registration status

SIP advanced:

▪ Outbound proxy	Select this option when a SIP proxy server is used
▪ Outbound proxy host	Enter the IP address or hostname of the proxy server
▪ Outbound proxy port	Enter the IP port of the proxy server
▪ DNSsrv	Select this option when DNSsrv is used
<hr/>	
<i>DSCP Class</i>	<i>The DSCP class is used for Quality of Service.</i>
▪ SIP DSCP Class	Select the DSCP class for all SIP traffic
▪ Audio RTP DSCP Class	Select the DSCP class for RTP audio
▪ Video RTP DSCP Class	Select the DSCP class for RTP video
<hr/>	
▪ Audio RTP port start	Enter the lowest IP port that may be used for the RTP audio stream
▪ Audio RTP port end	Enter the highest IP port that may be used for the RTP audio stream
▪ Video RTP port start	Enter the lowest IP port that may be used for the RTP video stream
▪ Video RTP port end	Enter the highest IP port that may be used for the RTP video stream
▪ RTP port random	Use random RTP ports (within the specified range)
▪ Keep alive	Enable keep alive packages
▪ Enable REFER	Accept 'REFER' packages (off by default)

5.2.1.2 Telephony / Teams (Robin 'for Teams')

The Robin 'for Teams' versions feature a -Telephony-Teams- menu.

In this menu you can configure the Robin with your CyberGate subscription details found in the admin portal of the CyberGate.

Access the CyberGate admin portal here: <https://admin.cybergate.cybertwice.com>

ROBIN ProLine Video Intercom for Teams 5 MP IP Camera 1 button

Telephony Audio Video Network System

Teams Phonebook Call settings Call log Control

Teams settings

- SIP protocol:
- Username:
- Password:
- Register: ☐

Teams advanced

- SIP DSCP Class:
- Audio RTP DSCP Class:
- Video RTP DSCP Class:
- Audio RTP port start:
- Audio RTP port end:
- Video RTP port start:
- Video RTP port end:
- RTP port random: ☐
- SIP port random: ☐

Teams settings

▪ SIP protocol	Select the SIP protocol, UDP or TCP, UDP is default
▪ Username	Enter the username as provided to you in the CyberGate admin portal
▪ Password	Enter the password as provided to you in the CyberGate admin portal
▪ Register	Activates or deactivates registration to for registration to the CyberGate service
▪ Expires	Period of time the SIP door intercom will re-register.
▪ Registration status	Shows registration status

Teams advanced:

<i>DSCP Class</i>	<i>The DSCP class is used for Quality of Service.</i>
▪ SIP DSCP Class	Select the DSCP class for all SIP traffic
▪ Audio RTP DSCP Class	Select the DSCP class for RTP audio
▪ Video RTP DSCP Class	Select the DSCP class for RTP video

▪ Audio RTP port start	Enter the lowest IP port that may be used for the RTP audio stream
▪ Audio RTP port end	Enter the highest IP port that may be used for the RTP audio stream
▪ Video RTP port start	Enter the lowest IP port that may be used for the RTP video stream
▪ Video RTP port end	Enter the highest IP port that may be used for the RTP video stream
▪ RTP port random	Use random RTP ports (within the specified range)
▪ SIP port random	Use a random SIP port

5.2.1.3 Telephony / Phonebook

The Phonebook can hold multiple phonebook entries, each holding a telephone number / extension. These can be used as input elsewhere, for example when setting up 'Schedules'.

A 'Profile' can be associated with each phonebook entry. A 'Profile' is a set of audio and video settings. This allows definition of individual settings for each telephone number.

! Note: When 'Enable Teams mode' is activated, a default Teams profile is set. The 'Profiles' menu is not present when 'Enable Teams mode' is active. !

When using a Robin ProLine with Keypad, an extra menu will be visible, called 'Preset'. Within the 'Preset' menu you can create a list with presets. Every preset can contain up to three phone numbers (defined in the phonebook), for instance a fixed phone, a mobile phone and an extra phone. As soon as a preset is chosen using the Keypad, the intercom will first try to connect to the first number. If the first number is engaged or not answering it will continue with the second number. If the second number is engaged or not answering it will continue with the third number. Each preset can also contain an e-mail address and a PIN code. The e-mail address can be used for sending an e-mail containing a picture of the person using the intercom. The PIN code of (always 6-digits long) can be used to open the door.

Phonebook:

The green '+' creates a new line.

The '>>' behind a line opens the details for this line.

The red X behind a line deletes the line from the list.

▪ Description	The name that is associated with this number
▪ Number	The value entered for the telephone number (see comment)
▪ Profile	If required, you can select a 'Profile' for this number
▪ Allow register	Select this option only if the Robin SV has to support a 'Peer to Peer' connection with a telephone set*

! Note: The number can be entered in multiple ways:

1. Just the number (e.g. 104, 1002, 6032 etc.). The handset is located on a connected IP-PBX in the same network or using a VoIP provider.
2. The number, followed by the IP address of the handset that is to be dialled (e.g. 1000@10.0.0.53, 102@192.168.1.21 etc.). The handset and the Robin are connected to each other directly, i.e. the call is not routed via a IP-PBX or VoIP provider. The Robin SV dials the handset directly.
3. When used for Teams, the first part of the Teams user name (without the domain) can be entered.

*** Peer to Peer connection:** If a direct connection between the Robin and a telephone set is required - without the use of a IP-PBX or VoIP provider - please check our [whitepaper: How-To_Peer-to-ENG.pdf](#) on the supplied USB drive or on our support website: <http://support.robintele.com>

Profiles:

Define profiles. A profile is a set of audio- and video related settings.

The green '+' creates a new line.

The '>>' behind a line opens the details for this line.

The red X behind a line deletes the line from the list.

ROBIN Telecom Development
Robin SmartView
version dev-4474
Logged in as 'admin' (logout)

Telephony Audio Video Network System
SIP Phonebook Call settings Call log Control

Entry

✖ Delete Entry

- Description
- Codec ulaw ☒
- Codec alaw ☒
- Codec gsm ☒
- DTMF event payload type 101
- Codec h264 ☒
- Videosize 320x240
- H264 payload type 99
- Variable bit rate ☐
- Bitrate (kbps) 1024

Apply settings

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▪ Description	The name that is associated with this profile
▪ Codec ulaw	Support for the G.711 ulaw audio codec
▪ Codec alaw	Support for the G.711 alaw audio codec
▪ Codec gsm	Support for the GSM audio codec
▪ DTMF event payload type	Change the 'payload type' for DTMF signal transmission. (default value is 101)
▪ Codec h264	Support for the H.264 video codec
▪ Videosize	Set the resolution for the video*
▪ H264 payload type	Change the 'payload type' for H.264 video codec. (default value is 99)
▪ Variable bitrate	Support for variable bitrate
▪ Bitrate (kbps)	Select the maximum video bit rate. A high bit rate = higher video quality but more bandwidth usage.

! Note: The selected video resolution has to be supported by the device. If the resolution is not compatible, video distortion can occur. !

Presets (Robin with Keypad):

The green '+' creates a new line.

The '>>' behind a line opens the details for this line.

The red X behind a line deletes the line from the list.

▪ Id	The (unique) preset number (eg. the apartment number)
▪ First	Select the first number to dial
▪ Second	Select the second number to dial
▪ Third	Select the third number to dial
▪ Email	Select the e-mail address for this preset. Define the e-mail addresses in the menu -Network-Mail-, Address book
▪ Pin	Define the 6-digit PIN code for this preset

5.2.1.4 Telephony / Call settings (Robin with 1, 2, 4 buttons)

ROBIN Robin SmartView
version dev-4474
Logged in as 'admin' (logout)

Telephony Audio Video Network System

SIP Phonebook **Call settings** Call log Control

Call priority

- First
- Second
- Third
- Email

Schedule

+ Add Timeslot

The Timeslots is currently empty

General

- Auto answer ☐
- Auto answer delay seconds
- No answer timeout seconds
- Max call duration minutes
- Call status
- Video compatibility mode ☒

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Call priority:

The Robin can dial up to three numbers in a set sequence. If the first number is engaged or not answering* it will continue with the second number. If the second number is engaged or not answering it will continue with the third number.

For the 2 and 4 button equipped Robins the call priority settings can be defined for each individual button.

▪ First	Select the first number to dial
▪ Second	Select the second number to dial
▪ Third	Select the third number to dial

*** Change the duration in -Telephony-Call settings-General- using the 'No answer timeout' option.**

Schedules:

The Robin features a 'Schedule' function. The schedules can be defined in the menu -System-Schedules-.

This function allows you to set multiple timeslots: e.g. office hours, lunch break, etc. Consequently, during the lunch break the Robin can be set to dial a different telephone number from that configured for normal working hours.

The timeslots are not prioritised so they must be set consecutively, e.g.:

8:30-12:29 morning -> call reception

12:30-13:00 lunch -> call a mobile phone

13:01-17:00 afternoon -> call reception

! Note: When the 'Schedule' function is in use, timeslots take priority over the 'First, Second and Third' settings in -Telephony-Call settings-Call priority-. The intercom checks whether a timeslot is active based on the current time, if not, it reverts to the settings for 'First, Second and Third'. !

For the 2 and 4 buttons equipped Robins the schedule settings can be defined for each individual button.

Timeslots:

The green '+' creates a new line.

The '>>' behind a line opens the details for this line.

The red X behind a line deletes the line from the list.



▪ Schedule	Select the defined schedule
▪ Extension	Select the number to dial

▪ Auto answer	Enables auto answering of incoming calls to the intercom (off by default)
▪ Auto answer delay	Answer incoming calls after X seconds
▪ No answer timeout	End call attempt after X seconds
▪ Max call duration	Maximum duration of a call (0=no limit)
▪ Call status	Displays the status of the phone functionality of the Robin

5.2.1.5 Telephony / Call settings (Robin with Keypad)

ROBIN ProLine SIP 5 MP IP camera (WideAngle) - Keypad

version 3.0.9
Logged in as 'admin' (logout)

Telephony Audio Video Network System

SIP Phonebook **Call settings** Call log Control

Keypad

- ☒ Preset to call when i-button pressed
- ☒ Backlight brightness
- ☒ Beep volume
- ☒ Beep frequency
- ☒ Beep duration
- ☒ Max preset length

General

- ☒ Auto answer ☐
- ☒ Auto answer delay seconds
- ☒ No answer timeout seconds
- ☒ Max call duration minutes
- ☒ Call status
- ☒ Video compatibility mode ☒

[Apply settings](#)

Keypad:

<ul style="list-style-type: none"> ▪ Preset to call when i-button pressed 	Select the preset (menu -Telephony-Phonebook-) for the 'i'-key on the Keypad
<ul style="list-style-type: none"> ▪ Backlight brightness 	Change the intensity of the Keypad backlight
<ul style="list-style-type: none"> ▪ Beep volume 	Change the volume of the Keypad keys beep
<ul style="list-style-type: none"> ▪ Beep frequency 	Change the frequency of the Keypad keys beep
<ul style="list-style-type: none"> ▪ Beep duration 	Change the duration of the Keypad keys beep
<ul style="list-style-type: none"> ▪ Max preset length 	Define the maximum length of the preset. If for example the length is three, 999 is the highest number to dial. (for two it is 99 en for one it is 9). If the maximum length is reached the intercom will dial automatically

General:

▪ Auto answer	Enables auto answering of incoming calls to the intercom
▪ Auto answer delay	Answer incoming calls after X seconds
▪ No answer timeout	End call attempt after X seconds
▪ Max call duration	Maximum duration of a call (0=no limit)
▪ Call status	Displays the status of the phone functionality of the Robin

5.2.1.6 Telephony / Call log

The call log presents an overview of all the call events to and from the Robin.

You can delete the complete log file using the red X alongside the 'Delete all rows' label. You can delete individual log lines by clicking the red X behind the log line in question.

Call log:


Time	Number	Direction	Answered	Result
1970-01-01 01:00:37 +0100	@10.0.0.99	outgoing	✓	hangup ✗
1970-01-01 01:01:03 +0100	@10.0.0.99	outgoing	✓	hangup ✗
1970-01-01 01:01:28 +0100	@10.0.0.99	outgoing	✓	hangup ✗
1970-01-01 01:01:57 +0100	@10.0.0.99	outgoing	✓	hangup ✗

5.2.1.7 Telephony / Control

The Control menu allows you to manually initiate and end a call from the Robin.



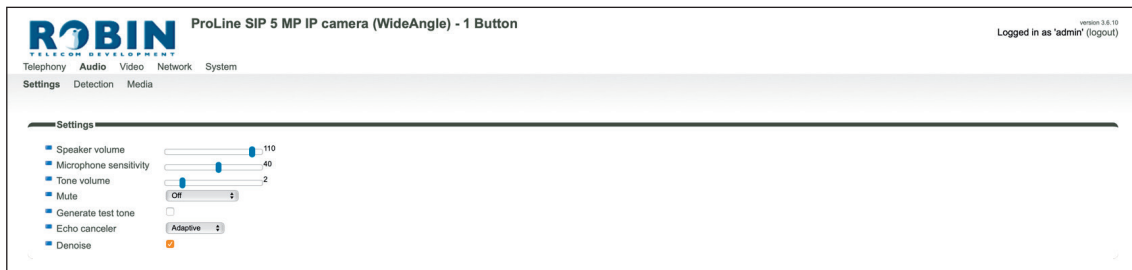
Call:

▪ Call	Initiate a call using the 'Call' button
▪ Hangup	End a call using the 'Hangup' button
▪ Registration status	Shows the IP-PBX or VoIP provider registration status
▪ Registration status secondary	Optional: Shows the secondary IP-PBX or VoIP provider registration status
▪ Call status	Shows the Robins call status (idle, ringing, connected)

5.2.2 Audio

5.2.2.1 Audio / Settings

In this menu you can control all audio related settings such as speaker volume and microphone sensitivity.



Settings:

<ul style="list-style-type: none"> Speaker volume Microphone sensitivity Tone volume Mute Generate test tone Echo canceler Denoise 	<p>Change the speaker volume</p> <p>Change the microphone sensitivity</p> <p>Change the tone volume</p> <p>Tones incoming: All incoming tones of a call (phone -> Robin) Tones all: All of the Robin generated tones All audio: Mute all output (listen-in function)</p> <p>Play a test tone</p> <p>Select the echo canceller mode</p> <p>By default, all background noise will be filtered to improve the sound quality. In a loud environment the sound quality might improve by disabling this feature</p>
<p><i>Half duplex setting only:</i></p> <ul style="list-style-type: none"> Vox level Vox hyst 	<p>Set the switch level of the microphone / speaker</p> <p>Modify this setting to smoothen the switch between sending and transmitting</p>

The echo canceller can be set to:

- Off, no echo cancellation
- Adaptive, active echo cancellation. Allows two-way simultaneous communication
- Half-duplex, makes use of sound detection to switch between speaker or microphone. This disables simultaneous two-way communication. You either speak or listen.

With the echo canceller set to 'half duplex' a 'Vox level' slider is visible. It allows you to set the switch level of the microphone / speaker

! Note: Tuning the 'Vox level' is necessary to establish good communication when set to 'half-duplex'. !

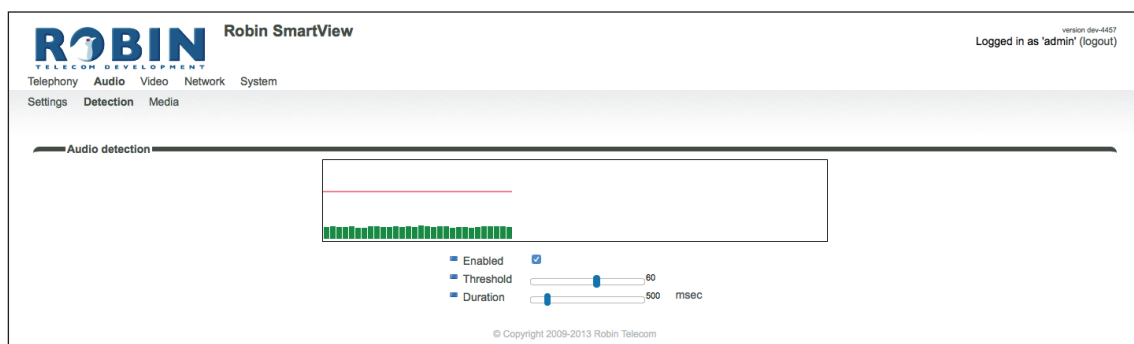
5.2.2.2 Audio / Detection

The Robin is capable of detecting sound through the microphone.

This detection mechanism can trigger 'Actions' such as activation of a relay switch or automatic calling to a phone set. These actions can be defined in the menu -System-Events-.

Depending on the location of the Robin and the type of sound that should trigger the detection, two parameters can be set: the volume and the duration.

Short audio spikes can be filtered by increasing the duration setting. Background noise can be filtered by increasing the threshold.



Audio detection:

▪ Enabled	Enable or disable the audio detection
▪ Threshold	Change the volume threshold of the detection
▪ Duration	Change the audio duration of the detection

The colour of the bars is green (= no detection) or red (= detection)

The red line indicates the boundary of the detection area.

5.2.2.3 Audio / Media

The Media menu allows you to import audio files into the intercom and play them through the speaker. You can use this to change the tone of the button and the ringback tone, so you can customize the melody that plays when you use the Robin. Use it for:

- Events
- Phone related functions (button, ring back, ring, disconnect, busy)

Upload:

■ Upload status	Shows the upload status
■ Status	Shows the result of the uploaded file
■ File	Select the file to upload (wav or mp3), max. size 1MB

Media list:

The Robin ships with some audio files preloaded.

■ Name	The name that is associated with this audio file
■ Play	Plays the audio file through speaker of the intercom

Tone selection:

Select an audio file to play for a selected phone related function (ring, ringback, disconnect, busy).



The green '+' creates a new line.

The '>>' behind a line opens the details for this line.

The red X behind a line deletes the line from the list.

<ul style="list-style-type: none"> ■ Tone 	Select the phone related function: Button - Sounds when the button is pushed Ring back - Sounds when the Robin is calling a number Ring - Sounds when a someone is calling to the Robin Disconnect - Sounds when te call is ended Busy - Sounds when the called number is busy
<ul style="list-style-type: none"> ■ Media 	Select the audio file:

5.2.3 Video (Robin with integrated camera)

5.2.3.1 Video / Live

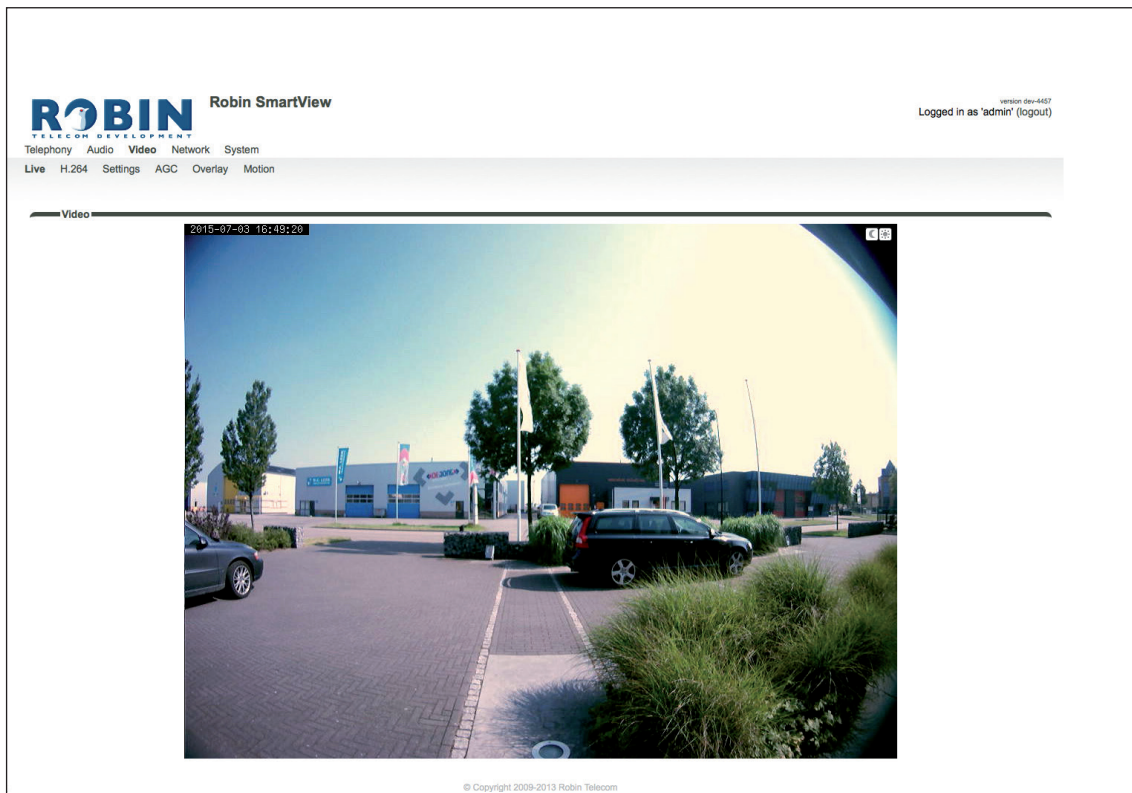
Shows real time video captured by the camera. Double click on the image to toggle between full screen video or default size video.

By using the on-screen controls in the upper right corner of the image you can modify the brightness of the image.

The three buttons below the video frame functions as controls for the built-in relays switch. They are used for:

- Switching off (Close)
- Switching on (Open)
- Switch on and after a predefined time automatically off (Pulse)

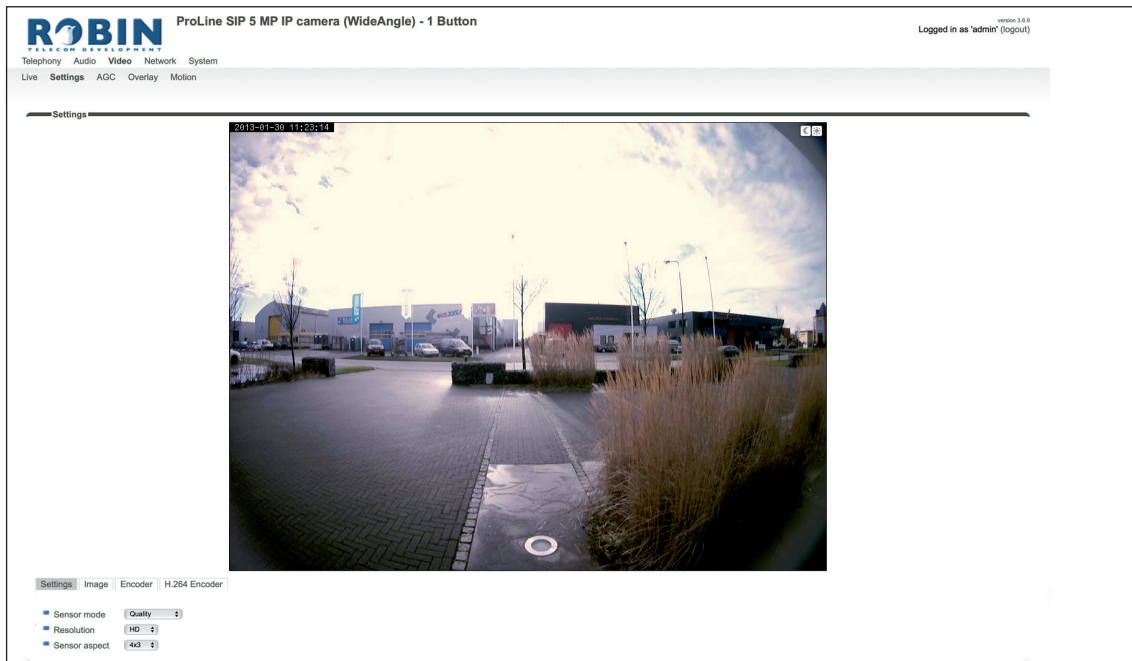
! Note: These three buttons are only visible if the option: ' User can control door opener' (-System-Security-) is enabled. !



5.2.3.2 Video / Settings

You can change all the camera related settings here.

- Settings: settings that are associated with the video quality
- Image - settings that are associated with the image quality
- Encoder: settings that are associated with the degree of image compression



Settings:

The 'Sensor mode' menu allows you to choose between two optimization profiles. You can choose between Performance or Quality.

- Performance - The Robin settings are optimized to achieve the highest possible frame rate. The video quality will loose some detailing.
- Quality - The Robin settings are optimized for the best video quality possible. The frame rate will be limited to approximately 15 frames per second.

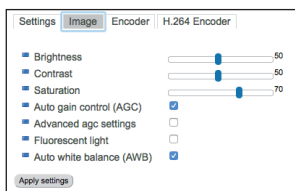
The 'Resolution' menu allows you to select the video image resolution. Choose between 'VGA', 'SD' or 'HD'.

- VGA - The video image will be presented with a vertical resolution of 480 pixels
- SD - The video image will be presented with a vertical resolution of 576 pixels
- HD - The video image will be presented with a vertical resolution of 720 pixels

The 'Sensor aspect' menu allows you to choose the preferred aspect ratio of the video image.

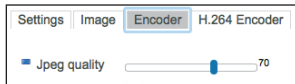
- 4x3 - The default aspect ratio
- 16x9 - Widescreen

Image:



▪ Brightness	Changes the brightness of the video image
▪ Contrast	Changes the contrast of the video image
▪ Saturation	Changes the colour saturation of the video image
▪ Auto gain control (AGC)	'Automatic Gain Control' automatically matches video image exposure to the light circumstances
▪ Fluorescent light	Activate this function if artificial light sources in a room cause interference, e.g. TL strip lighting
▪ Auto white balance (AWB)	'Auto White Balance' automatically matches the colour temperature of the video image to the circumstances

Encoder:



<ul style="list-style-type: none"> Jpeg quality 	Allows you to change the quality of the 'Live' video images in the web browser (higher quality but more bandwidth usage)
--	--

! Note: Higher quality will put extra load on the bandwidth. !

H.264 Encoder

Change the H.264 encoder quality. This will have an impact on the RTSP stream. The storage space and bandwidth required will increase at higher settings.

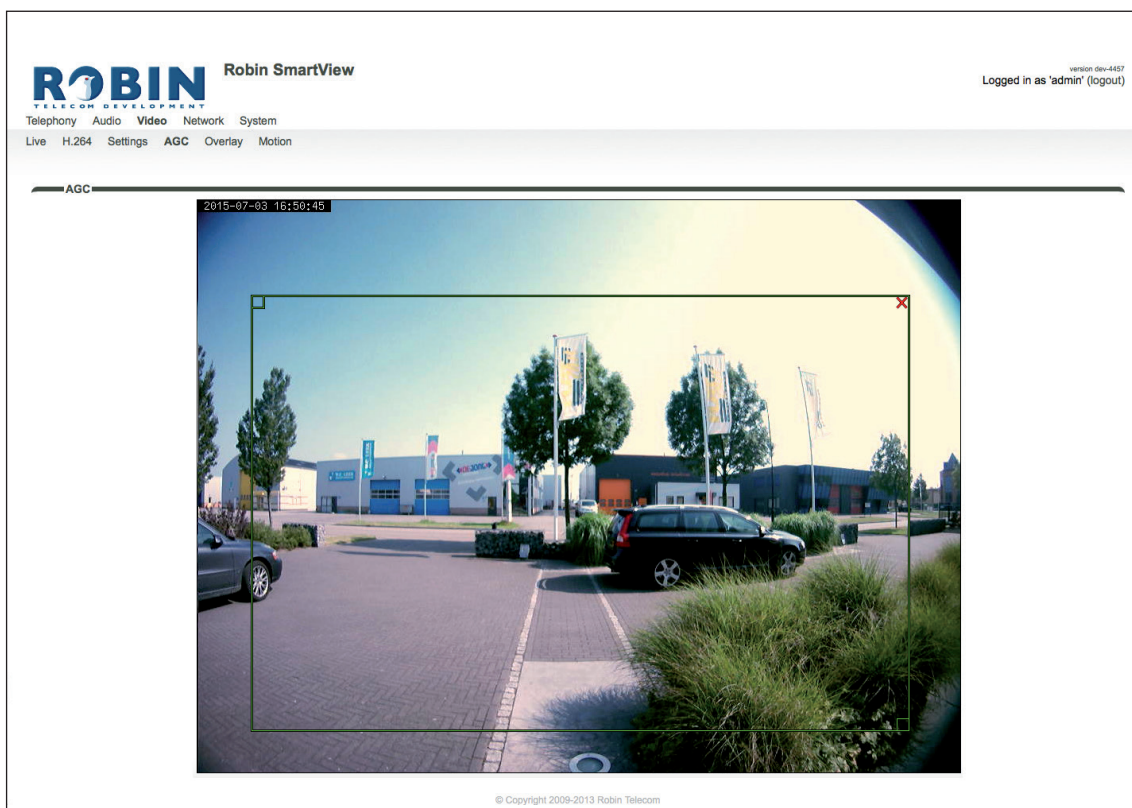
5.2.3.3 Video / AGC

Define a zone in the image that the AGC will use for the measurements.

The AGC (Automatic Gain Control) automatically matches video image exposure to the light circumstances. This option can be switched on or off at the -Video-Settings- menu.

Use the mouse to define a selection area in the image. Draw a frame in the video image and enlarge/reduce it by dragging the top left and bottom right corners. The red cross at the top removes the selection frame.

Make sure that the most important area in the image is selected for the AGC function. This will usually be the location where the people will stand when they use the Robin.



5.2.3.4 Video / Overlay

Use the overlay option to display extra information in the upper left corner of the video image.

Overlay:



▪ Enable video overlay	Enable or disable the video overlay function
▪ Show date and time	Display the date and time
▪ Show device name	Display the device name (change the device name in -System-Device-)
▪ Show device location	Display the location of the Robin (change the location in -System-Device-)
▪ Additional overlay text	Display additional text

5.2.3.5 Video / Motion

Motion allows you to select parts of the video image where you want movement to be detected.

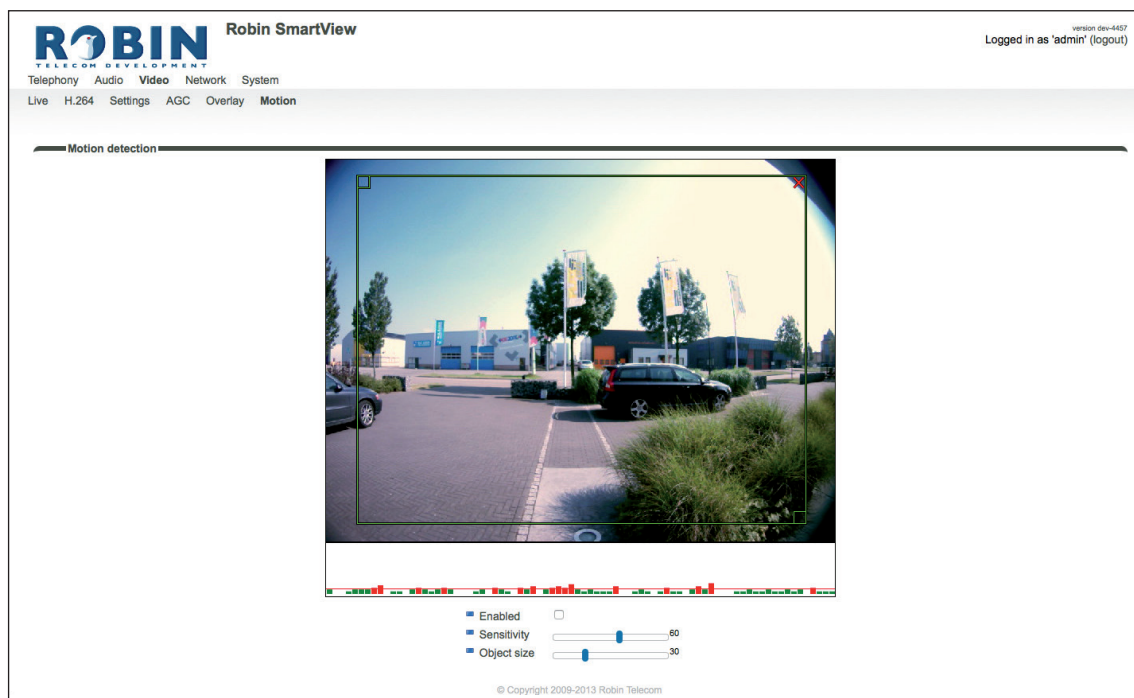
Detection of movement can trigger 'Actions' such as an acoustic signal, switching a built-in relay or initiating a call to a telephone. The actions are set in -System-Events-.

Use the mouse to select an area in the image. Draw a frame in the video image and enlarge/reduce it by dragging the top left and bottom right corners. The red cross at the top removes the selection frame.

Consider how to minimise the chance of a false alarm when selecting the zones. For example, avoid objects that move in the wind such as flags, branches on trees, etc.

Both detection sensitivity and the size of the object you want to detect can be adjusted. The graph at the bottom of the image allows you to verify whether the settings are correct.

The colour of the bars is green (= no detection) or red (= detection)
The red line indicates the boundary of the detection area.



Motion detection:

▪ Enabled	Activates Motion detection
▪ Sensitivity	Increases/reduces detection sensitivity
▪ Object size	Changes the size of the object to detect by the Robin

! Note: To make tuning the Motion settings easier, no 'Events' that may have been set will be activated when the -Video-Motion- window for the Robin is open. When you close the -Video-Motion- window, detection is enabled again. !

5.2.4 Network

5.2.4.1 Network / Status

Network status shows the current network information.

Network status:

The screenshot shows the 'Robin SmartView SIP 5MP IP Keypad' web interface. The top navigation bar includes 'Telephony', 'Audio', 'Video', 'Network', and 'System'. The 'Network' tab is selected, and the 'Status' sub-tab is active. The 'Network status' section displays the following information:

- Interface: eth0
- MAC address: 00:1d:02:43:85:1e
- IP Address: 10.0.0.188
- Netmask: 255.255.255.0
- Default gateway: 10.0.0.1
- Primary nameserver: 10.0.0.254
- Secondary nameserver: 8.8.4.4
- Linkstate: 100 Mbps full-duplex

▪ Interface	Shows the network interface that is used
▪ MAC address	Shows the Robins MAC address
▪ IP address	Shows the IP address of the Robin
▪ IP netmask	Shows the IP netmask
▪ Default gateway	Shows the IP address for the default gateway
▪ Primary nameserver	Shows the IP address for the primary DNS
▪ Secondary name-server	Shows the IP address for the secondary DNS
▪ Linkstate	Shows the speed and status of the Ethernet link

5.2.4.2 Network / Settings

Allows you to change the network settings of the intercom.

ROBIN Robin SmartView version dev-4467
 Logged in as 'admin' (logout)

Telephony Audio Video **Network** System

Status **Settings** HTTP Mail NAT RTSP

Configuration

Configuration method

Security

Enable 802.1x authentication ☐

Settings

IP Address 192.168.160.59
 Netmask 255.255.255.0
 Default gateway 192.168.160.1

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Configuration:

▪ Configuration method	Select automatic (DHCP) or manual.
▪ IP address	Enter the IP address for the Robin
▪ Netmask	Enter the IP netmask
▪ Default gateway	Enter the gateway or router address
▪ Primary name server	Enter the IP address for the primary DNS
▪ Secondary name server	Enter the IP address for a secondary DNS

Security:

▪ Enable 802.1x authentication	Enable 802.1x authentication
▪ Status	Displays the 802.1x status
▪ Authentication type	Select the type of authentication; MD5, PEAP, TLS
▪ Identity	Enter your identity
▪ Password	Enter your password
▪ CA certificate	Select the CA certificate (PEAP and TLS only)
▪ Supplicant certificate	Select the supplicant / client certificate (TLS only)

Settings:

▪ IP address	Shows the IP address
▪ IP netmask	Shows the standard IP netmask
▪ Default gateway	Shows the IP address for the default gateway

5.2.4.3 Network / HTTP

Proxy:

Set the HTTP Proxy server.

▪ Enable HTTP proxy	Activates the use of an HTTP proxy server
▪ Proxy server address	Enter the IP address or hostname for the proxy server
▪ Proxy server port	The IP port used by the proxy server for communication

Settings:

▪ HTTP port	Set the IP port for HTTP communication. (default value is 80)
▪ HTTPS port	Set the IP port for HTTPS communication. (default value is 443)
▪ Certificate	Optional - Select a certificate for the HTTPS connection

5.2.4.4 Network / Mail

Configure the e-mail settings for the Robin.

Server settings:

The green '+' creates a new line.

The '>>' behind a line opens the details for this line.

The red X behind a line deletes the line from the list.

▪ From address	Set the from e-mail address of the Robin
▪ Mail server	Enter the e-mail server address or hostname
▪ Encryption	Select a encryption method (none, SSL, TLS)
▪ Auth	Select this option if mail server authentication is required
▪ Submission	Select this option if the mail server uses the 'Submission' protocol

Address book:

The green '+' creates a new line.

The '>>' behind a line opens the details for this line.

The red X behind a line deletes the line from the list.

▪ Name	The name that is associated with this e-mail address
▪ Address	The e-mail address

Mail server test:

Tests the connection with the configured e-mail server.

▪ To	Enter a recipient address for the test e-mail message
▪ Test SMTP server	Initiates the test e-mail message
▪ SMTP test result	Shows the test result

5.2.4.5 Network / NAT

Depending on the network configuration, you may need to enable NAT.

The screenshot shows the 'Network' settings page for a ProLine SIP 5 MP IP camera. The 'NAT' tab is selected. Under the 'Settings' section, the 'NAT enabled' checkbox is checked. There is an 'Apply settings' button at the bottom.

The screenshot shows the 'Network' settings page for a ProLine SIP 5 MP IP camera. The 'NAT' tab is selected. Under the 'Settings' section, the 'NAT enabled' checkbox is checked. Below it, there are fields for 'NAT hostname' (with a dropdown arrow), 'NAT port' (set to 5060), and two checkboxes for 'Use STUN for NAT address discovery' and 'Use inband STUN for NAT address discovery'. There is an 'Apply settings' button at the bottom.

Settings:

▪ NAT enabled	Enable the use of NAT
▪ NAT hostname	Enter the IP address or the hostname for NAT usage
▪ NAT port	Enter the port for NAT usage
▪ Use STUN for NAT address discovery	Activate this option if a STUN server is used for discovery of the WAN IP address
▪ Use inband STUN for NAT address discovery	Activate this option if inband STUN is used for discovery of the WAN IP-address and the connection port to use with NAT. Inband STUN uses the Outbound proxy host as source

Use STUN for NAT address discovery

- | | |
|---------------|---|
| ▪ Stun server | The STUN server that will be used to retrieve the WAN IP-address (default STUN server: stun.xten.com) |
| ▪ Stun port | The connection port of the STUN server (default: 3478) |
| ▪ Stun status | Displays the status of the STUN request and the retrieved WAN IP-address |

Use inband STUN for NAT address discovery

- | | |
|----------------------|---|
| ▪ Inband stun server | The STUN server that will be used. The Outbound proxy host will be used as source |
| ▪ Stun port | The connection port of the STUN server (5060) |
| ▪ Stun status | Displays the status of the STUN request |

5.2.4.6 Network / RTSP

The Robin can stream the video and audio through RTSP. Most video management software (VMS) solutions use the RTSP standard*. The Robin uses H.264 for video and G.711 uLaw for audio.

! Note: The Robin uses the RTP over RTSP (TCP) standard. Not every VMS solution supports audio over RTSP. !

The screenshot shows the 'Robin SmartView' web interface. At the top, there's a navigation bar with tabs: Telephony, Audio, Video, Network (selected), and System. Below this is a sub-menu: Status, Settings, HTTP, Mail, NAT, and RTSP. The main content area is titled 'Settings' and contains a list of configuration options for RTSP:

- ☒ Enable RTSP server
- ☒ RTSP port: 554
- ☒ Require authentication
- ☒ Username: admin
- ☒ Password: [masked]
- ☐ Allow Multicast
- ☒ Enable keep alive
- ☒ Keep Alive Timeout: 120 seconds
- ☒ RTSP DSCP Class: CS3
- ☒ Audio RTP DSCP Class: EF
- ☒ Video RTP DSCP Class: AF41

At the bottom of the settings list is an 'Apply settings' button. The footer of the interface reads '© Copyright 2009-2013 Robin Telecom'.

For more information regarding RTSP support of the Robin in combination with VMS solutions see the document: How-To_RTSP_ENG.pdf. Download this document on our support-site: <http://support.robintele.com>

Settings:

▪ Enable RTSP server	Enable RTSP support
▪ RTSP port	Change the RTSP port (default 554)
▪ Require authentication	Use RTSP authentication
▪ Username	RTSP username
▪ Password	RTSP password (needs to be defined)
▪ Allow Multicast	Enable Multicast*
▪ Multicast address	Set the multicast address
▪ Enable keep alive	Enable RTSP 'keep alive'
▪ Keep Alive Timeout	Set the keep alive timeout
<hr/>	
<i>DSCP class</i>	<i>The DSCP class is used for Quality of Service.</i>
▪ RTSP DSCP Class	Select the DSCP class for all SIP traffic
▪ Audio RTP DSCP Class	Select the DSCP class for RTP audio
▪ Video RTP DSCP Class	Select the DSCP class for RTP video
<hr/>	

*** Multicast will reduce the load on the network and the intercom. ! Note: Not every video application supports multicast. !**

5.2.5 System

5.2.5.1 System / Device

Info:

▪ Product	Product type
▪ Serial number	Serial number
▪ Version	Software version
▪ Revision number	Software revision number

Identity:

▪ Device name	The name entered here is passed to the SIP protocol. This means that the name is visible, for example when a telephone has a caller ID display
▪ Location	You can enter the location of the Robin here, e.g. the main entrance, loading door, barrier, etc.
▪ Contact	Enter the details of the person responsible for managing the Robin

Button:

▪ Button sensitivity	Modify the sensitivity of the button(s)
----------------------	---

5.2.5.2 System / Clock

Change date and time related settings for the Robin.

Date and time:

▪ Timezone	Select the right time zone
▪ Current time	Shows the current date and time settings
▪ Method	Allows you to choose between manual or automatic (NTP) time setting
▪ NTP server address	Enter the address or name of the time server here.
▪ NTP status	Shows the status of the selected time server
▪ Set time	Enter the date and time here (manual setting)

! Note: The Robin does not feature a build-in backup battery. Every time the Robin reboots both the date and time need to be set. By default it will use an NTP server to set the date and time. In case of a 'manual' setting, this has to be done by hand after every reboot. We strongly recommend the use of an NTP server.!

5.2.5.3 System / Events

The Robin is equipped with various automation options. For example, starting an outgoing telephone call to a predefined number, the sending of an e-mail containing a picture of the person using the intercom, the playback of an audio message etc.

All actions are triggered by an Event (source). An event source can be movement in front of the camera, a loud noise that exceeds a predefined volume, a push on the button of the intercom or other sources. You can select the various events sources here and set the response action that take place when an event occurs.

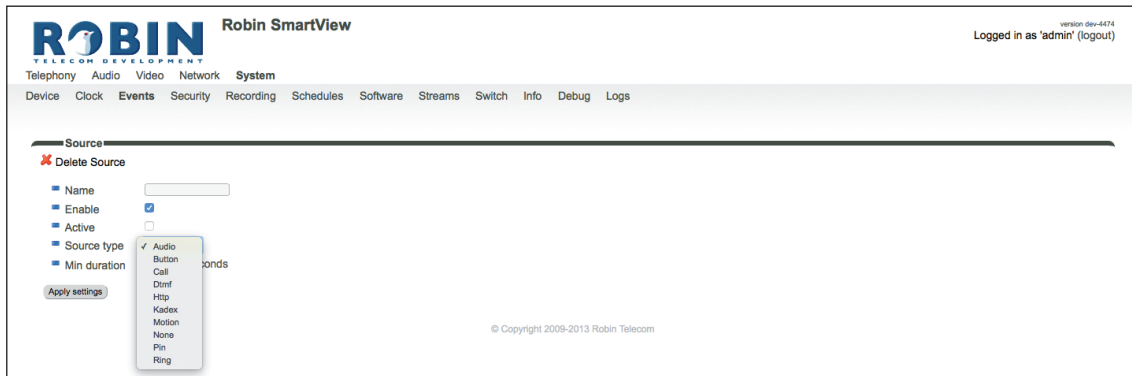
Event actions can be set to be time bound using the 'Schedule' mechanism of the Robin. That way an action can only start within a time slot, eg. lunch or after work hours. Definition of the schedules can be done in the menu -System-Schedules-.



Sources

Define the events:

- **Audio** - Triggers if audio is detected (VOX detection) - See menu -Audio-Detection-
- **Button** - Triggers when a button is pushed or a preset is chosen on the Keypad - (Choice: button 1, 2, 3, 4, 5, 6 or Keypad)
- **Call** - Triggers when a call is set up - (Choice: incoming or outgoing)
- **Dtmf** - Triggers when a combination of two keys are pressed during a phone call, starting with a '*' followed by another key (Eg. *1, *7 etc.) - (Choice: 0-9, or #)
- **Http** - Triggers if a http call is detected (default `http://<IP-ADDRESS-ROBIN>/evmgr/emit`). The 'emit' part in the URL is variable and can be changed in every other word. Change this in the field: 'HTTP path'
- **Kadex** - Triggers when a signal is detected coming from a Kadex home automation server. The Kadex event on which it needs to trigger can be set in the field: 'Event name'. As soon as this Event is set, the sub-menu 'Kadex' will be visible. Use this to fill-in the Kadex server details.
- **Motion** - Triggers when motion is detected by the camera - See menu -Video-Motion-
- **Pin** - Triggers when a correct PIN code is detected (Robin with Keypad) - See menu -Telephony-Phonebook-, Presets
- **Ring** - Triggers when a 'ring' is detected (incoming or outgoing)



The green '+' creates a new 'Event'.

The '>>' behind a line opens the details for this 'Event'.

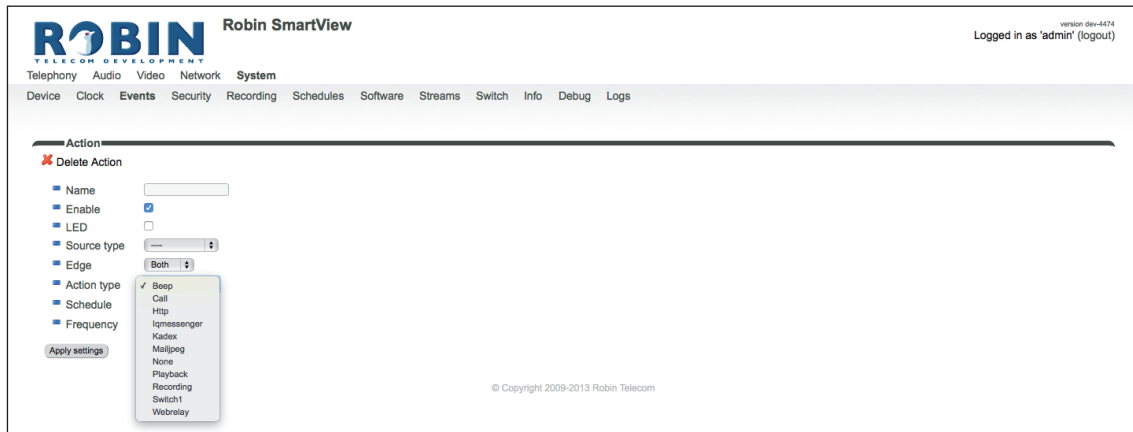
The red X behind a line deletes the 'Event' from the list.

▪ Name	The name that is associated with this event source
▪ Enable	Enable this event source
▪ Active	Shows whether an event source is active
▪ Type	Selects the type of event source
▪ Min duration	Set the event source minimum duration. It extends the time an event is active by adding the initial time an event is active with the min duration. Eg. the Button event takes approx. 0,5 sec. Modify the min duration to 2 sec. makes $0,5 + 2 = 2,5$ sec.

Actions:

Define the actions:

- **Beep** - Starts playing a beep through the intercom - (Choice: frequency of the beep)
- **Call** - Start a phone call to the default phone number(s) - (Choice: *Allow hangup* (on/off): When on, a repeated source input also disconnect the call)
- **Http** - Emits a http command. - (*two URLs*: one if the source becomes active and one if the source becomes inactive)
- **Iqmessenger** - Emits a URL to the IQ Messenger system - (*One URL*: URL of the used IQMessenger system)
- **Kadex** - Emits an event to a Kadex home automation server. - (*Kadex event*: Name of the in the Kadex defined event). As soon as this Action is set, the sub-menu 'Kadex' will be visible. Use this to fill-in the Kadex server details.
- **Mailjpeg** - Send an e-mail containing a photo of the person using the intercom to a predefined e-mail address - For the Robin Keypad, see menu -Telephony-Phonebook- Presets. For the Robin with 1,2,4 or 6 buttons, see menu -Telephony-Call settings- Call priority.
- **Playback** - Plays an audio file - (*Mediafile*: choose a file, *Playback loop*: play once or play in a loop) - See menu -Audio-Media-
- **Recording** - Start a local video recording*
- **Switch1** - Switch the internal relay switch in the Robin SV
- **Webrelay** - Switch a relay switch on an external relay unit from ContolByWeb; WEBRelay (*Address*: the IP adres of the WEBRelay - *Relay (1-4)*: the relay to switch - *Action (on/off/pulse)*: on, off or pulse the relay switch (user selectable pulse time) - *Use authentication*: when a password is demanded to switch the WEBRelay)**



The green '+' creates a new 'Action'.

The '>>' behind a line opens the details for this 'Action'.

The red X behind a line deletes the 'Action' from the list.

▪ Name	The name that is associated with this event action
▪ Enable	Enable the event action
▪ LED	Not used
▪ Source type	Selects the event source for which this event action is the response
▪ Edge	Start the event action at the beginning of the event source, the ending of the event source or on both (rising / falling / both)
▪ Action type	Selects the type of Action.
▪ Schedule	Select a defined schedule

*** : The recording of video on the internal SD card is only possible if the 'Recording' feature is enabled. See menu -System-Recording-. Note: The recordings are not directly available for playback! An API is available to retrieve the recordings. This API can be used for development of an App to make the recordings available for playback. See the "How-To_Remote_Control" PDF on the support website: support.robintele.com**

**** : For more information about the Robin / WEBRelay, see Tech-Note: "How-To_Robin_and_WEBRelay" PDF on the support website: support.robintele.com !**

5.2.5.4 System / Security

ProLine SIP 5 MP IP camera (WideAngle) - 1 Button

Logged in as 'admin' (logout)

Telephony Audio Video Network System

Device Clock Events Security Recording Schedules Software Streams Switch Info Debug Logs

Authentication

- ☒ Require authentication
- ☒ Admin username
- ☒ Admin password
- ☒ Confirm password
- ☒ User enabled
- ☒ User username
- ☒ User password
- ☒ Confirm password
- ☒ User account locked
- ☒ User can control door opener
- ☒ Allow HTTP access only from LAN

Apply settings

Authentication tokens

+ Add Token

The Tokens is currently empty

Certificates

+ Add SSL certificate

The SSL certificates is currently empty

Access control

- ☐ Enable API interface

Apply settings

Authentication:

<ul style="list-style-type: none"> Require Authentication 	Disable secure access to the web interface ! Note: Disabling Authentication is not recommended. !
<ul style="list-style-type: none"> Admin username 	The Administrator username. (admin)
<ul style="list-style-type: none"> Admin password 	Change the default password of the Administrator (default: 123qwe)
<ul style="list-style-type: none"> User enabled 	Activate the User (disabled by default)
<ul style="list-style-type: none"> User username 	The User username. (user)
<ul style="list-style-type: none"> User password 	Change the default password of the User (has to be defined)
<ul style="list-style-type: none"> User account locked 	When enabled, the User can only login during a period of one hour after a call is made by the intercom.
<ul style="list-style-type: none"> User can control door opener 	Displays three buttons below the Live video frame (menu -Video-Live-) to control the built-in relay switch
<ul style="list-style-type: none"> Allow HTTP access only from LAN 	Increases the security of the Robin. Access to the WEB interface is only allowed from the same network as the Robin. ! Note: Disabling this feature is not recommended. !

Authentication Tokens:

Authentication Tokens can be used instead of the username and password when controlling the Robin via its API. See manual: 'How-To_The_Robin_API_3.x.x.pdf' for more information.



The green '+' creates a new line.

The '>>' behind a line opens the details for this line.

The red X behind a line deletes the line from the list.

▪ Description	The name of the token
▪ Enabled	Enable the use of this token
▪ Token	Shows the generated token

Certificates:

The green '+' creates a new line.

The '>>' behind a line opens the details for this line.

The red X behind a line deletes the line from the list.

▪ Common name	The name of the certificate
▪ Certificate	Upload a certificate to the Robin
▪ Certificate info	Shows detailed information about the certificate

Access control:

De Robin is can be controlled via an API. Leave this setting disabled when the API is not used.

▪ Enable API interface	Enable access through the API interface
------------------------	---

5.2.5.5 System / Recording

The Robin is able to record video on the internal SD card. Enable the option 'Recording' to activate it.



! Note: The recordings are not directly available for playback! An API is available to retrieve the recordings. This API can be used for development of an App to make the recordings available for playback. See the "How-To_The_Robin_API_3.x.x.pdf" PDF on the support website: support.robintele.com !

5.2.5.6 System / Schedules

The Robin has multiple functions that can be made time bound. Use this schedule menu to create timeslots: e.g. office hours, lunch break, etc. Consequently, during the lunch break for example, the Robin can be set to dial a different telephone number from that configured for normal working hours.

The timeslots are not prioritised so they must be set consecutively, e.g.:

8:30-12:29 morning -> call reception

12:30-13:00 lunch -> call a mobile phone

13:01-17:00 afternoon -> call reception



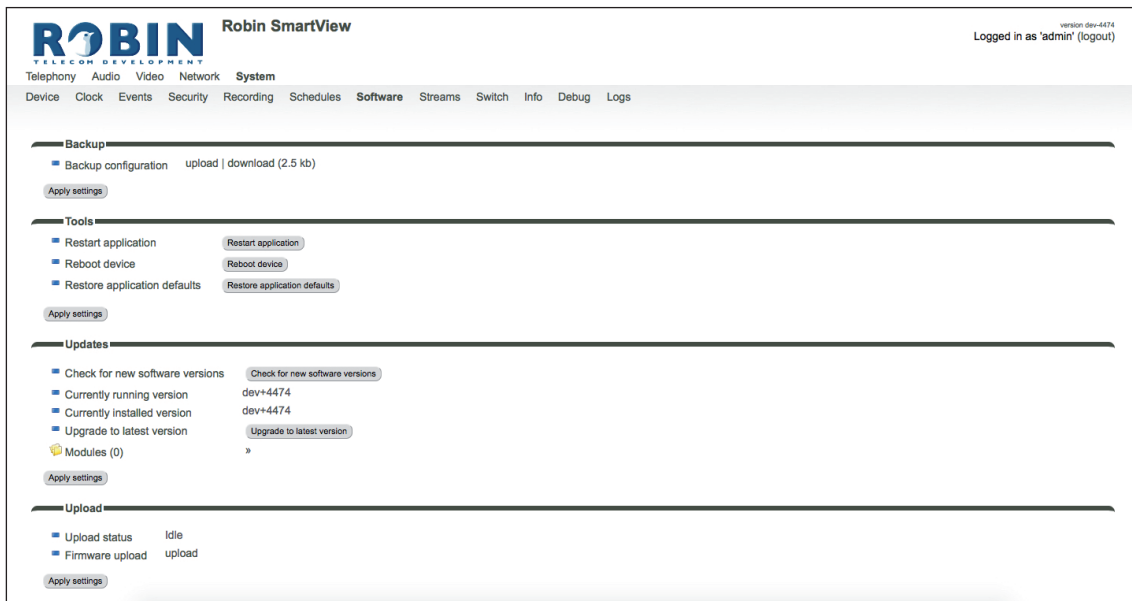
▪ Description	The name that is associated with this Schedule
▪ Day	Select the day / days for this schedule
▪ From	Start time
▪ To	End time

5.2.5.7 System / Software

New software versions for the Robin are released regularly. These versions include always include improvements and often introduce new functions.

Updating is a two-stage process; the first step is to check whether new software is available. the second step is to upgrade to the latest version.

After the upgrade, the Robin has to be rebooted.



Backup:

- | | |
|--|--|
| <ul style="list-style-type: none"> Backup configuration | <p>You can make a backup of the settings using the 'Download' button. A file called 'Backupsettings.txt' is downloaded to the PC</p> <p>You can restore a backup to the Robin using the 'Upload' button. Select a backup file that was created earlier. After restoring the backup, the Robin must be rebooted</p> |
|--|--|

Tools:

▪ Restart Robin application	Starts the Robin software up again. This is faster than rebooting the device
▪ Reboot device	Reboots the complete device. It may take 30 seconds before the Robin is active again
▪ Restore application defaults	Restores the default settings for the Robin

Updates:

▪ Check for new software versions	Checks whether new software is available
▪ Currently running version	Shows the current software version
▪ Currently installed version	Shows the software version that has already been installed
▪ Upgrade to latest version	Downloads the latest version of the software and installs it on the Robin

! Note: Internet access for the Robin is necessary to update the software of the Robin. !

5.2.5.8 System / Streams

The 'Streams' menu shows all active video streams.



! Note: Not more than 3 simultaneous video streams are recommended. If more streams are active, functioning of the intercom might become disturbed. !

5.2.5.9 System / Switch

The Robin has a built-in voltage free relay contact. It can be used to open a door or a gate. When a connection has been established between the Robin and a telephone handset, the relay switch can be operated via key combinations on the telephone.

For examples on how to connect the Robin to an electronic door lock, see: ***‘Appendix B, Electronic lock’***.

Control:

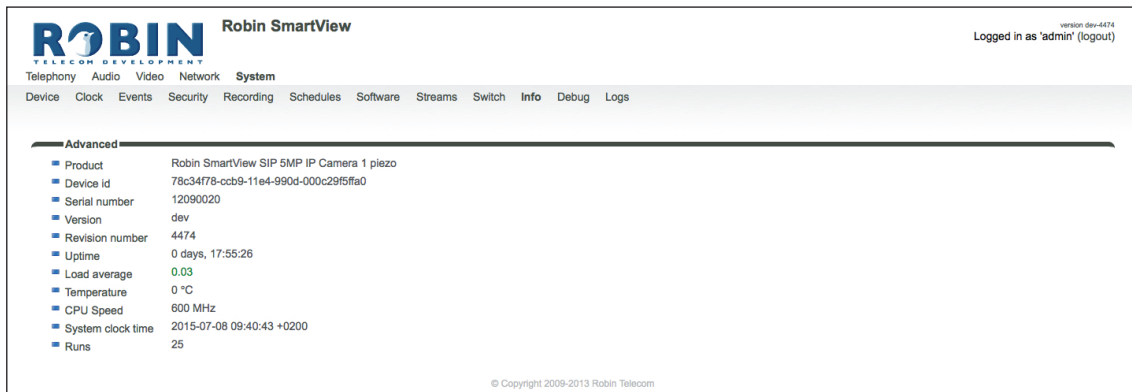
▪ State	Displays the status of the relay switch (open / close)
▪ Close	Deactivate the switch
▪ Open	Activate the switch
▪ Pulse	Activate and automatically deactivate the switch after a predefined time

	For the actions: to open, to keep open and to close the keys 0.....9, * and # can be used
▪ To open	The relay switch opens and closes again after a set time (Pulse time). The default key combination for this is ' ##'
▪ To keep open	The relay switch stays open, independently of the set time
▪ To close	The relay switch closes
▪ Pulse time	Set the time that the relay switch stays open (duration min. 1 second and max. 30 seconds)
▪ Play sound	Plays a tune when the relay switch is active
▪ Hangup after opening	Breaks the connection after activating the relay switch
▪ Close door after hanging up	Close the relay switch after the phone is disconnected
▪ Label for 'pulse' action	Change the display name for 'Pulse'
▪ Label for 'on' action	Change the display name for 'On'
▪ Label for 'off' action	Change the display name for 'Off'

! Note: The labels 'Pulse', 'On' en 'Off' will be visible under the live video image (-Video-Live-). The option 'User can control door opener' needs to be enabled (-System-Security-). !

5.2.5.10 System / Info

The Info menu displays detailed information about the Robin.



Advanced:

▪ Product	Shows the product type
▪ Device	Shows the device ID
▪ Serial number	Shows the serial number
▪ Version	Shows the software version
▪ Revision number	Shows the software revision number
▪ Uptime	Shows the time that the Robin is switched on
▪ Load average	Shows the average processor load (UNIX style)
▪ Temperature	Shows the temperature in the Robin
▪ CPU speed	Shows the current processor speed
▪ System clock time	Shows the system time
▪ Runs	Shows the amount of runs

5.2.5.11 System / Debug

The Robin features a built-in 'Debug' function. This allows you to create a network trace (pcap-file) of all the network traffic to and from the Robin. This tool allows for a fast and effective resolution of problems with the Robin.

The 'Go to Robin' function enables remote support for the unit. It connects the unit to Robin Telecom Development and can be used for remote support.

! Note: Go to Robin will only work after contacting the support department of Robin Telecom Development. !

The screenshot shows the Robin SmartView web interface. At the top, there's a header with the Robin logo and 'Robin SmartView'. Below it, a navigation bar contains tabs for 'Telephone', 'Audio', 'Video', 'Network', and 'System'. The 'System' tab is selected, and within it, the 'Debug' sub-tab is active. The main content area is divided into two sections: 'Trace' and 'Go to Robin'. The 'Trace' section, titled 'Network sniffer engine configuration', includes a list of settings: 'status' (set to 'idle'), 'Interface name' (set to 'eth0'), 'Default sniffer duration' (set to '60'), and 'PCAP filter line' (empty). There are 'Start' and 'Stop' buttons for the trace, and an 'Apply settings' button. The 'Go to Robin' section has a 'Connect' button, and below it, 'Status' (set to 'idle') and 'Message' fields. The footer of the interface indicates '© Copyright 2009-2013 Robin Telecom'.

Trace:

▪ Status	Shows the status of the trace
▪ Interface name	The interface for which the trace is created
▪ Default sniffer duration	Set the standard duration of the trace. The trace will stop automatically
▪ PCAP filter line	The trace is can be filtered to contain only relevant network data
▪ Start	Start the trace
▪ Stop	Stop the trace

Go to Robin:

▪ Connect	Connect to 'Go to Robin'
▪ Status	Display the connection status of 'Go to Robin'
▪ Message	Information regarding the 'Go to Robin' connection

5.2.5.12 System / Logs

The Robin registers all events that occur. These are logged in a log file.

Robin SmartView version dev-4474
Logged in as 'admin' (logout)

Telephony Audio Video Network **System**

Device Clock Events Security Recording Schedules Software Streams Switch Info Debug **Logs**

Log settings

- Max lines to keep in log: 500 lines
- Download
- Apply settings

Application log

Timestamp	Log level	Class	Message
2015-07-07 19:29:35 +0200	inf	udp	Sending retry UDP sip to : 10.0.0.99:5060
2015-07-07 15:46:43 +0200	inf	misc	AutoIP starting
2015-07-07 15:45:45 +0200	inf	misc	Mount tmpfs 25M at ./var/vbdt/hissegmenter
2015-07-07 15:45:45 +0200	inf	misc	QOS start UDP peak: 10mbit
1970-01-01 01:00:26 +0100	inf	rtsp	Starting RTSP server on port 554
1970-01-01 01:00:26 +0100	inf	http	HTTPS server listening on port 443
1970-01-01 01:00:26 +0100	inf	http	HTTP server listening on port 80
1970-01-01 01:00:26 +0100	inf	leaf	Startup done in 9215 msec
1970-01-01 01:00:26 +0100	inf	vbdt	Disable MCS phonebook
1970-01-01 01:00:25 +0100	inf	patchbox	pb: [in_v4] Started V4L driver: 960x720@15
1970-01-01 01:00:24 +0100	inf	sysinfo	Device "Robin SmartView" at ""
1970-01-01 01:00:24 +0100	inf	sysinfo	Robin SmartView SIP 5MP IP Camera 1 piezo vdev r4474 (Jul 7 2015 15:40:28) production mode
1970-01-01 01:00:22 +0100	inf	db	Database version dev-4473 does not match software version dev-4474, probably upgraded
1970-01-01 01:00:22 +0100	inf	hostphone	Disable EC
1970-01-01 01:00:19 +0100	inf	variant	Product: C02050 Robin SmartView SIP 5MP IP Camera 1 piezo

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Log settings:

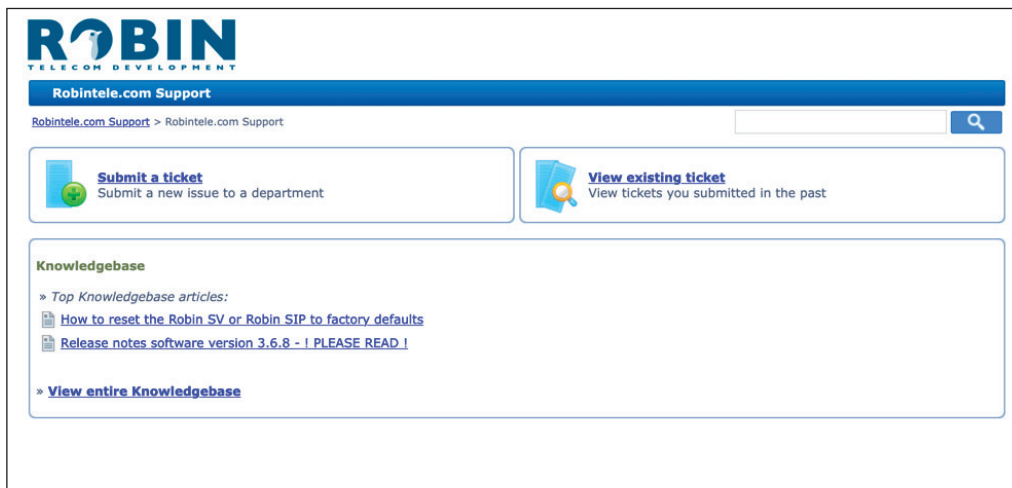
▪ Max lines to keep in log	The number of log file lines that are stored
▪ Download	Download the log file to the PC

Application log:

▪ Timestamp	Time stamp for the log entry
▪ Log level	The log entry classification
▪ Class	The software component in the Robin that led to generation of the entry
▪ Message	The actual log message

6 Support

For details of special settings, requests for support and FAQs, please use our 'online' support page:
<http://support.robintele.com>



Appendix A, List of key words

Default setting:

Standard programme setting.

DHCP:

‘Dynamic Host Configuration Protocol’.

Computer protocol that describes how a computer can obtain its network settings from a DHCP server.

DNS:

‘Dynamic Name System’.

Protocol for managing domain names and IP addresses on the Internet.

DNS server:

This is the system that compares all the domain names and IP addresses in a database with each other and links them with the aid of a DNS server.

End-to-end:

The ‘end-to-end’ principle is one of the core principles of the Internet and is reflected in the design of the underlying methods and protocols of the ‘Internet Protocol Suite.’

The principle is based on definition of the communication protocol actions in such a way that they take place at the ‘end points’ of a communication system, or as close as possible to the source that is to be verified.

Gateway:

A ‘gateway’ is a network point that acts as a “door” to a network other than the local network.

GUI:

‘Graphical User Interface’.

The graphical user environment is a tool for interacting with a computer that uses graphical images and text.

HTTP:

‘Hypertext Transfer Protocol’.

http is the protocol for communication between a web client (generally a web browser) and a web server. This protocol is not just commonly used on the World Wide Web, it is also used in local networks (which we call an intranet).

IP:

‘Internet Protocol’.

This is the part of the system that is used to allow computer networks to communicate with each other via other networks, such as the Internet.

LAN:

‘Local area network’.

Local area network of two or more computers that are connected with each other, either directly or via a shared medium.

MAC (address):

‘Media Access Control’.

The MAC address is a unique identification number that is allocated to a device in an Ethernet network.

Hardware address is another name for the MAC address. It ensure that the devices in an Ethernet network can communicate with each other.

Midspan (PoE):

A Midspan (PoE) is a device that injects power over a standard Ethernet connection.

NAT:

‘Network Address Translation’.

Network Address Translation, for which the terms Network masquerading or IP-masquerading are also used, is the translation of IP addresses and often also TCP/UDP port numbers from one separated range to another. Often used to allow multiple users of a home network to access internet via a single IP address.

Netmask:

Binary number that is used to create a subnet.

NTP:

‘Network Time Protocol’.

A protocol that is used by the time server.

PBX:

‘Private Branch Exchange’.

Abbreviation used for a business telephone exchange for private use.

PoE:

Power over Ethernet.

A system for delivering power and data via an Ethernet network.

Proxy server:

A proxy server is one that is located between a user’s computer and the computer where the information the user wants is stored.

SIP:

‘Session Initiation Protocol’.

A protocol that makes multimedia communication (audio, video and other data communication) possible and used among other things for the Voice over Internet Protocol (VoIP).

STUN:

‘Session Traversal Utilities for NAT’.

‘STUN’ is a protocol or tool that is used when applying NAT.

Time server:

A ‘time server’ is a network computer, which reads the time from a clock that has been allocated to it and transfers this information to other computers that use the same network.

VoIP:

‘Voice over Internet Protocol’.

A protocol that uses the Internet or another IP network to transport speech.

Web GUI:

A web browser-supported graphical user environment (see also GUI).

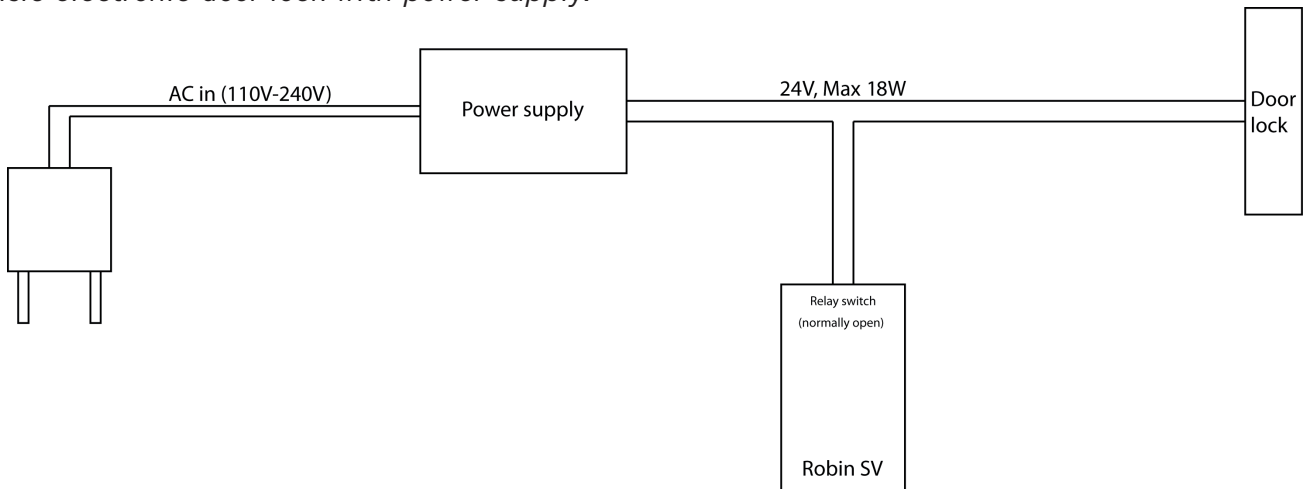
Appendix B, Electronic lock

The Robin has a built-in voltage-free relay contact. The Robin is not able to power a electronic lock, a power supply is required.

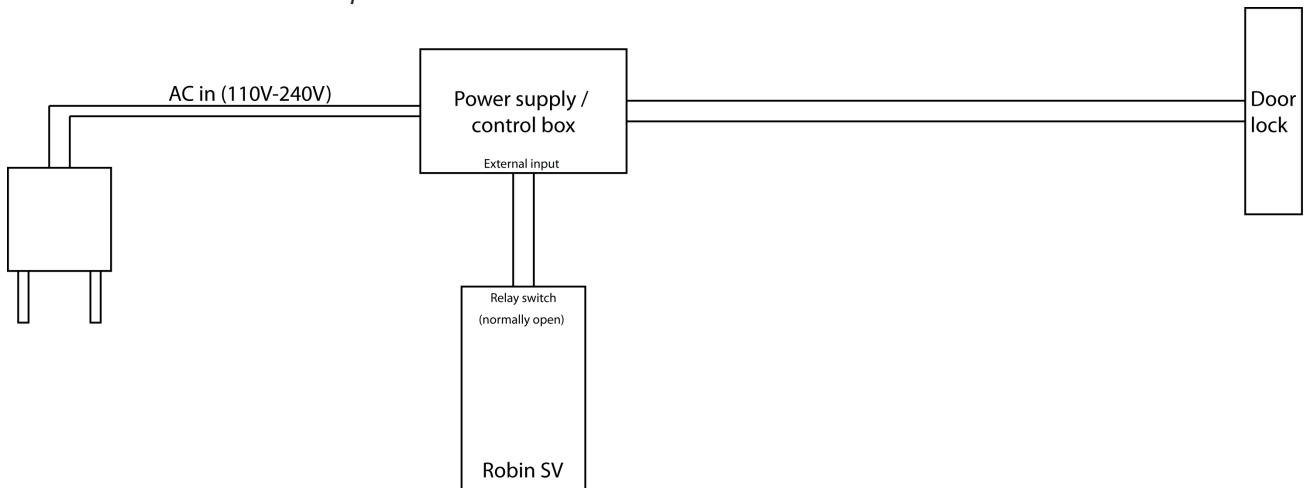
There are many different electronic locks on the market. We advise to use the prescribed method of the electronic lock manufacturer to connect the Robin.

This Appendix shows two common ways to connect the Robin to the electronic door lock although other options might also be possible.

Basic electronic door lock with power supply:



Electronic door lock with input contact on the control box:



! Note: The relay switch of the Robin doesn't supply power for the electronic lock! Make sure that the switched voltage does not exceed 24V and the switched power is max. 18W. !