



Wireless peripherals

EYE-02 GSM Security Camera

Application note

1 Content

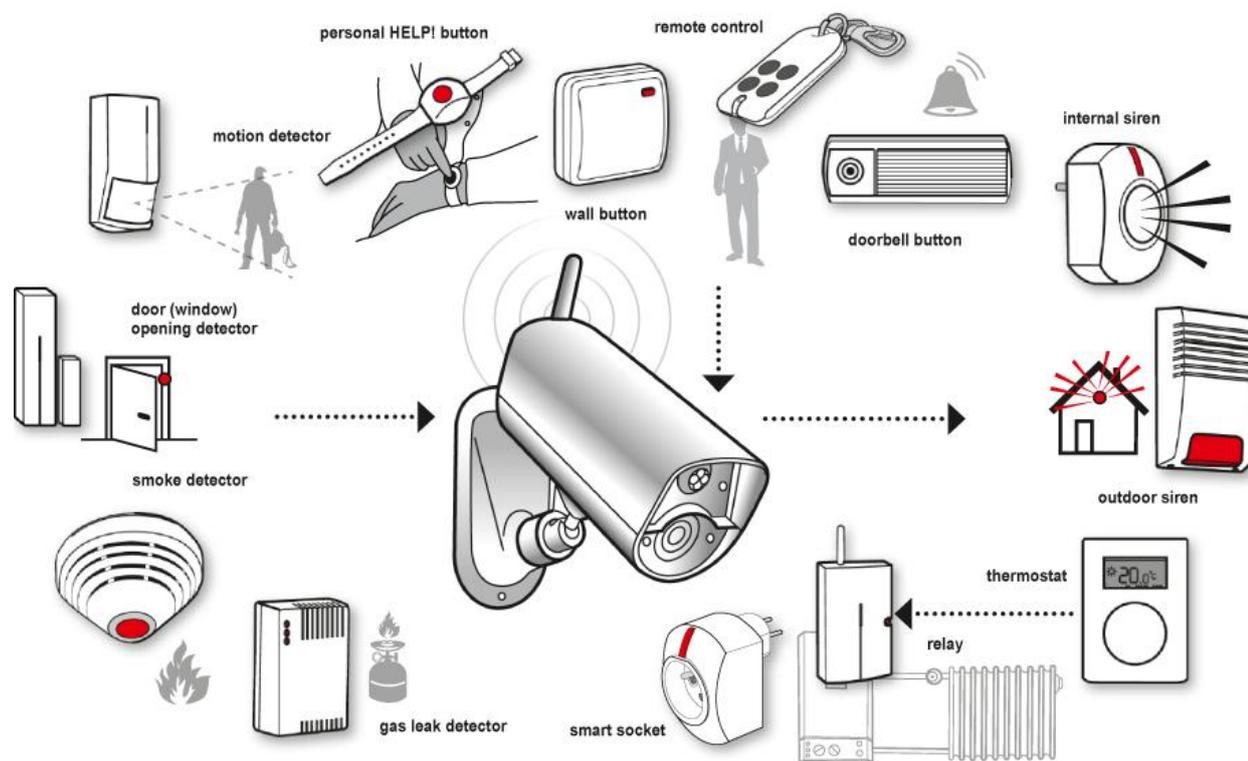
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2 Introduction

The application note describes possibilities of using camera EYE-02 with wireless peripherals from the OASiS system manufactured by Jablotron Alarms. Please visit www.jablotron.com to find complete list of peripherals. When the peripherals are used with camera EYE-02, the camera plays the role of the control panel. Camera EYE-02 is equipped with 7 internal detectors and 2 virtual switches. Wireless peripherals further expand camera capabilities.

2.1 Overview of peripherals

Five types of peripherals can be used with the camera: detectors, wireless switches, wireless buttons, sirens and thermostats.



Picture 1: Examples of peripherals used with EYE-02

Up to 20 wireless peripherals can be used with the camera at the same time. Operating range of peripherals is 100m in free space. Wireless buttons, detectors and sirens are powered by batteries with typical lifetime of at least 2 years. Exact battery lifetime depends on the battery type used and it is mentioned in the manual of each peripheral. Detectors and sirens communicate with the EYE-02 camera, i.e. they report information about device status. Camera informs the user

- when camera does not receive regular reports from the peripheral (communication with peripheral is interrupted) or camera starts receiving regular reports from the peripheral again (communication with peripheral is recovered).
- when detector battery is low or there is failure in AC power when detector is powered from the mains.
- when tampering (unauthorized manipulation) into detectors or sirens happened. Information is sent by the peripheral to the camera even when the camera is in SLEEP mode. *If you need to replace the battery in the peripheral, switch the camera to CONFIG mode to avoid false alarms.*

When detectors and wireless buttons are activated, camera makes Alarm event and informs the user by email, SMS, MMS, call or it sends information about the Alarm with video record to external JabloTool server.

3 Detectors

Detectors expand the area which camera monitors and also enable the camera to report additional events, e.g. Fire alarm generated by Fire and smoke detector.

3.1 Wireless fire (smoke and temperature) detector



JA-80S

JA-80S detects the presence of fire inside a building. It reacts to visible smoke or when a critical temperature in the room is exceeded. It contains a built-in local warning siren. It is typically mounted on ceiling in a room or hall.

The detector complies with EU Directives 98/34/ES and 98/48/ES stating the obligation to mount fire detectors in new buildings.

Example of use in cottage: Detector is activated by smoke and temperature caused by fire. Internal detector siren sounds and camera records video of the room inside. At the same time, the camera informs the user about Fire alarm by e-mail, MMS, SMS, call or by sending information to external JabloTool server.

3.2 Wireless magnetic detectors

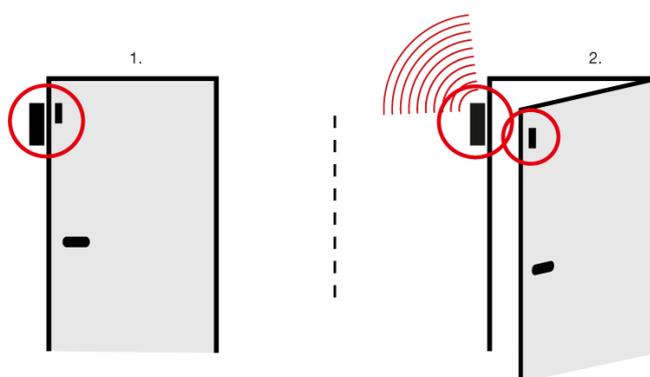
Magnetic door/window detectors consist of two parts. There is a magnet in one of the parts and if both parts are moved away from each other (window or door is open), the detector is activated. It sends information to the camera which records video and informs the user.



JA-81M

Magnetic door/window detector JA-81M

Example of use in public premises: A user wants to have a list of people who entered a building. Opening the door causes an alarm event and the camera records video for selected time after the door was opened.



Picture 2: EYE-02 camera used with Magnetic door (window) opening detector JA-80M

You can connect by wires additional detector to the JA-81M. You can use any detector which connects or disconnects contact after its activation. Camera will record video and inform the user also after this additional detector is activated. JA-81M can be also used with flood detector LD-81 that signals flooding of rooms or cellars.

Example of use in protecting precious paintings: JA-81M is placed on the door leading to a room. Inside the room, there is a painting hanging on the wall. Detector connected by wires to JA-81M is placed under the painting. If someone opens the door, the door detector reports alarm to the camera. If someone removes the picture from the wall, the detector closes or opens its circuit and so it informs by wires the detector JA-81. This informs the camera and the user.

Other available types: Magnetic door detector JA-82M which is fit directly into door or window frames. The transmitter JA-80D has terminal point to which additional detector can be connected by wires. It does not have its own magnetic sensor.

3.3 Passive infrared (PIR) detectors

PIR detectors are activated by changes of temperature. This typically happens when a person or animal enters the detection zone. Connecting of additional PIR sensors allows extending of the monitored area for spaces that do not need to be monitored visually. External PIR sensors also extend the distance at which the camera can detect motion by passive infrared detection. Activation of PIR detectors causes Alarm. Camera records video and informs the user about the Alarm.



JA-80P

Wireless PIR motion detector JA-80P

Example of use: Using detectors JA-80P to monitor motion in big factory hall. Several detectors can be used at the same time.

Other available types: **JA-80PB** is PIR detector combined with glass-break detector, suitable for areas accessible by breaking glass windows. **JA-80W** is PIR detector combined with microwave detector. When PIR detector registers movement, the MW detector is activated and confirms activation of the PIR detector. **JA-86P** is PIR detector with two PIR sensors inside Alarm is generated only when both sensors are activated. Suitable for areas where false alarms can be caused by small animals.

JA-88P is PIR detector suitable for outdoor use. Detector is protected from dust and flushing water (IP55). JA-85P and JA-85B are mini-size PIR detectors.

JA-82SH detects tilt and vibration of doors and windows.

3.4 Wireless gas leak detector



JA-80G

JA-80G is activated by combustive gases or fume leakages. This detector is mains-powered (230V AC) because of higher power consumption. It also provides a switch to shut down an electric gas inlet valve.

Example of use at home: Detector is placed in the room with gas heating. Gas inlet valve is connected by wires to the detector. If gas leaks, the detector reports this to the camera and camera generates Alarm. At the same time, the detector shuts down the gas inlet.

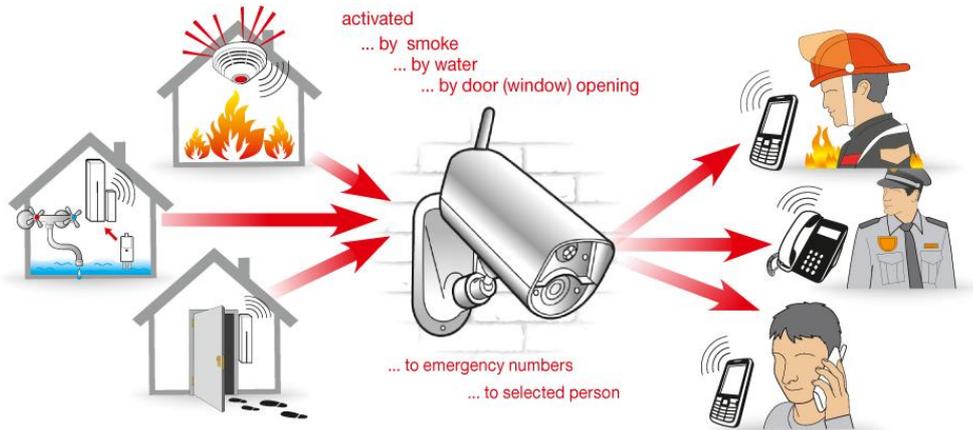
3.5 Wireless optical barrier



JA-80IR is optical barrier which indicates breach into a protected area by crossing the infra-red line between the transmitter and the receiver. It is a product of company Optex supplemented with transmitters compatible with OASiS system. There can be up to 60m distance between the units. The optical barrier can also be used outdoor, it is protected from dust and water.

JA-80IR

Example of use at home: Optical barrier is placed along swimming pool on the garden. If a small child crosses the barrier, the camera will inform the parents about this by call and SMS.



Picture 3: Example of using camera with Fire detector, Flood detector and Door opening detector.

4 Wireless Switches

Camera EYE-02 is equipped with two virtual switches. These switches work as wirelessly sent commands to wireless switches to connect or disconnect their contact.

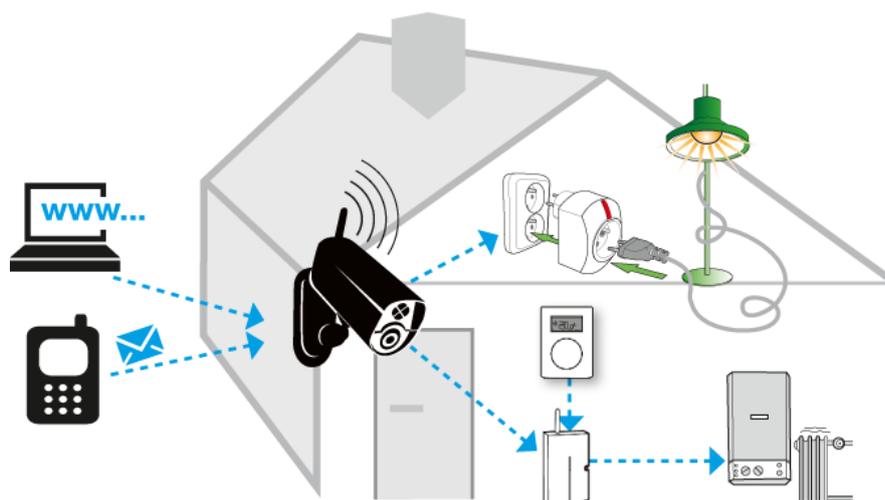
Wireless socket AC-88



It is switch made as do-it-yourself solution. You can remotely turn ON and OFF all domestic appliances, lighting, heating, watering, etc. powered by the mains (AC 230V). It can be also used in the inverse mode - it disconnects contact when it is turned ON. Wireless socket can be also turned ON and OFF manually by pressing its button.

AC-88

Other available types: **UC-82**, **AC-82** and **AC-83** are wireless switches are in the shape of boxes into which wires of electric circuit are attached. UC-82 is powered by 12V DC power, AC-82 is powered by AC mains. AC-83 is suitable for use in heating systems. For more information go to www.jablotron.com.



Picture 4: Using EYE-02 camera with smart socket, relay and thermostat

Use with garden watering: On your cottage you have a watering system with water pump placed in the well. You connect the power supply of the pump via the smart socket. Then you remotely turn on the sprinkler in your garden. You can adjust the time for which you turn ON the watering depending on the weather.

Use with thermostat: You leave home for a longer time. Before you return, you would like to have your home heated to comfortable temperature. You will use the smart socket together with thermostat TP-83. You will remotely turn ON the smart socket by the camera. The thermostat will then start controlling the socket. The socket will turn ON the heating if it receives such command from the thermostat. Your rooms will be heated to predefined temperature before you arrive. If you wish to maintain only minimum economical temperature you turn the wireless switch OFF.

4.1 Controlling and configuring the switches

Camera virtual switches send commands to the switches like wireless socket. Camera switches can be configured to several modes. Camera switches can be directly turned ON/OFF by the user or they can be configured to turn ON automatically when a predefined event happens.

Possible modes of camera switches:

SMS ON/OFF	<p>Switch will turn ON or OFF after pressing a button in JabloTool or after sending an SMS command. You can specify the time for which the switch should be turned ON.</p> <p><i>Example of use with watering: Switching garden sprinkler ON for 2 hours.</i></p>
SMS (pulse)	<p>Switch will turn ON for 2 seconds. Then it turns OFF again.</p> <p><i>Example of use at home: You open entrance gate into the yard.</i></p>
WATCH	<p>Switch turns ON and will remain turned ON as long as camera is in WATCH mode.</p> <p><i>Example of use as household protection: You automatically turn off domestic appliances by switching the camera into WATCH mode when you leave home. After you return you switch the camera into SLEEP mode and the appliances will turn on again. This minimizes the risk of fire when you are not at home and it reduces consumption of electricity. You need to set the smart socket to inverse mode so it disconnects contact when it is turned ON by camera.</i></p>
Panic alarm	<p>Switch will turn ON for 120 seconds.</p> <p><i>Example of use in social care house: client presses wireless button. Smart socket turns ON the light in the room where patient pressed their wrist HelpMe! button. Camera will record video of the room at this moment.</i></p>
Fire alarm	<p>Switch will turn ON for 120 seconds.</p> <p><i>Example of use in factory: Smart socket switches ON external high-capacity siren to signalize Fire alarm. Camera will record video in the hall where the wireless Fire detector was activated.</i></p>
Alarm	<p>Switch will turn ON for 120 seconds.</p> <p><i>Example of use in shop: Smart socket switches OFF power supply to electric door locker so the door remains locked after Alarm.</i></p>
Wake-up	<p>Switch will turn ON for the predefined wake-up time. The time can be configured in JabloTool via USB > Configuration, General settings.</p> <p><i>Example of use at home: Wireless socket switches ON lamp in courtyard when camera is woken-up. The camera does not report Alarm yet.</i></p>
AC fault	<p>Switch will turn ON and remain turned ON until AC power is recovered.</p> <p><i>Example of use in remote location: Smart socket turns ON diesel power generator after AC power failure.</i></p>
Light ON	<p>Switch will turn ON and remain turned ON as long as camera infrared illumination is turned ON.</p> <p><i>Example of use at night: Smart socket turns ON external infrared illumination after</i></p>

camera activates its internal infrared illumination. This will increase the reach at which the camera can take pictures at night.

Camera switches can be configured and controlled in JabloTool via internet (www.jablotool.com, tab Peripherals), or via USB cable (tab Configuration, External devices). Switches can also be controlled by SMS commands if they are set to SMS ON/OFF or SMS ON/OFF (pulse) mode.

Example of SMS command: "<Remote Access Password> DeviceX ON" will switch the DeviceX ON)

Example of SMS command: "<Remote Access Password> DeviceX ON 02:00:00" will switch the DeviceX ON for 2 hours.

Switches are called Devices in SMS commands. For more information on SMS commands see the camera manual.

5 Wireless buttons

Wireless buttons inform the camera and its user when a person presses them.



RC-80

4-button wireless remote control RC-80

Remote control can switch camera into WATCH, SLEEP, CONFIG and ENROL mode. User can also test camera internal detectors. This remote control is delivered with the camera. Additional controls allow more people to operate the camera independently.



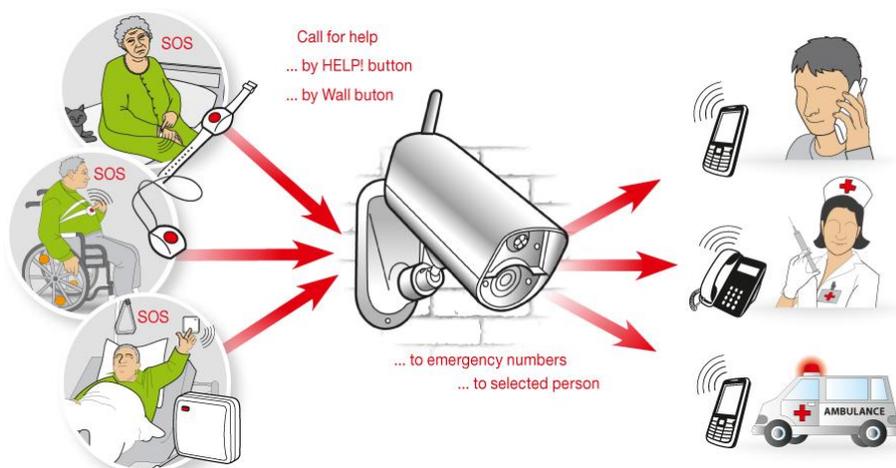
RC-87

Help! button RC-87

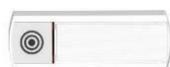
Pushing the button causes Panic alarm even if EYE-02 is in SLEEP mode.

Example of use: Elderly people who may be in emergency due to sudden drop in their health condition simply press the panic button and the camera will report the Panic alarm via SMS, MMS, call, email or JabloTool server and contact parents, neighbours or hospital for help.

Other available type: wireless wall button RC-88



Picture 5: Using EYE-02 with wireless buttons RC-87 and RC-88



RC-89

Wireless doorbell button RC-89

Example of use: The camera is focusing on entrance area in a building. Pressing the doorbell button wakes the camera up. The camera then records video of entrance area. The button can be also configured to generate Panic alarm.

The doorbell button RC-89 can be used in combination with indoor siren JA-80L which sounds a melody after the doorbell button is pressed.

6 Sirens

The primary function of sirens is to inform visually and acoustically about Alarm events.



JA-80L

Wireless internal siren JA-80L

JA-80L is a mains-powered (230V AC) siren with multiple functions.

It sounds when Alarm in the camera occurs. The sounding can be activated and its length adjusted between 0 seconds and 4 minutes (go to JabloTool, Peripherals, then click on the enrolled JA-80L).

The same length of alarm indication applies to the siren JA-80A if it is enrolled in same the camera.

The siren confirms intruder alarm to the camera when it is disconnected from power during the time while it sounds an Alarm.

Siren can signalize entrance or exit delay with a beep. Entrance and exit delay can be adjusted in JabloTool, tab Settings.

Detectors from the group RC-8x and JA-8x can be enrolled into the siren. The siren plays a melody after such detector is triggered. Different melodies can be associated with different detectors.

Example of use: Siren plays a melody after a (Doorbell button RC-89) at the entrance is pressed.

The siren plays a different melody when that back door at home is open (Door detector JA-80M).

The siren sounds Alarm when there is a fire in the kitchen (Fire and smoke detector JA-80S). More detectors can be enrolled in the siren at the same time.



JA-80A

Wireless outdoor siren JA-80A

JA-80A is completely wire-free siren in a solid housing. It signalizes intruder alarm acoustically and by red LED lights. The length of sounding in case of an alarm event can be set between 0 seconds and 4 minutes (go to JabloTool, Peripherals, then click on the enrolled JA-80A). If the internal siren JA-80L is also enrolled, it sounds alarm for the same period of time.

The siren is battery powered. Maximum battery lifetime is 3 years. Opening the cover signalizes unauthorized manipulation (Alarm) to the camera. LED lights keep flashing for 30 minutes after Alarm.

7 Thermostats

Thermostats control temperature in heated premises. They control a wireless switch and automatically switch it ON or OFF. If temperature in the room is lower than set temperature, the thermostat sends turns the wireless switch ON. The wireless switch connects contact and the heating turns ON.

Camera can be enrolled into wireless switch where thermostat is enrolled. Camera then works as a central switch. If camera turns the wireless switch OFF, the wireless switch will only connect contact when the temperature decreases below the economical temperature. If camera turns the wireless switch ON, the wireless switch will always follow the

command from thermostat so the room will be heated to the selected temperature. To work like this, camera needs to be enrolled into the wireless switch and also thermostat needs to be enrolled into this wireless switch.

Thermostat can be also enrolled directly to the camera. Thermostat will then report to the camera

- when battery in the thermostat is flat
- when temperature decreases below preset level (event Panic Alarm is generated in the camera); this can indicate that heating system has stopped working or there may be danger that heating system will freeze.
- when temperature exceeds 60°C (event Fire Alarm is generated in the camera)

More thermostats can be enrolled into one wireless switch. Heating is then turned ON if at least one thermostat requires this.



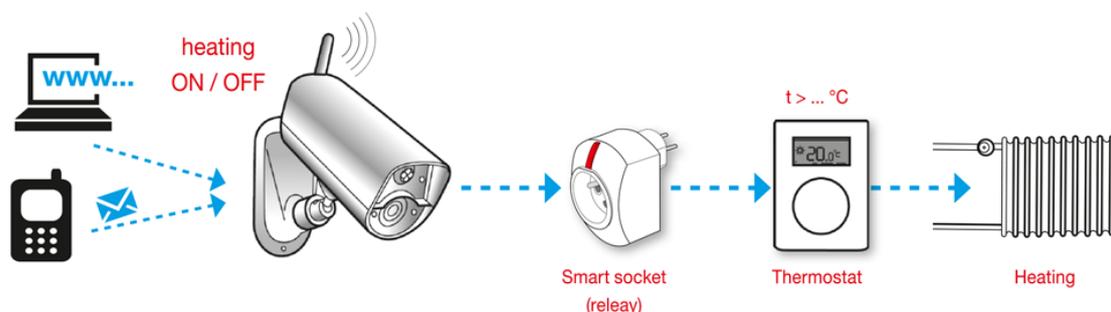
TP-82

Wireless thermostat TP-82

Programmable wireless indoor thermostat TP-83

TP-82 and TP-83 measure and set temperature that should be maintained in a room. Temperature adjustment is performed by turning the setting knob. Thermostats are enrolled into smart socket AC-88 or wireless switches AC-82, UC-82 and AC-83. These wireless switches then control the heating according to thermostat commands. The wireless switches can be then also enrolled into the camera so they can be remotely turned ON and OFF by the camera.

TP-83 has a programmable weekly heating schedule. You only set when you wish to achieve the selected temperature (e.g. on Friday evening) and the thermostat will begin to heat in advance so that your room is heated to the selected temperature at the selected time.



Picture 6: Scheme on how EYE-02 works with wireless relay and thermostat

8 JabloTool Applications

JabloTool is camera management interface. In JabloTool you connect to your camera to see live picture from the camera, events in the history or to configure and control your camera. You can connect to your camera either via your account on the internet portal JabloTool (www.jablotool.com) or you can download JabloTool software from www.jablocom.com/software and install it on your PC. Then you connect to your camera via USB cable.

Camera can report information from the detectors directly to the users by SMS, MMS, e-mail or voice call. In addition, you can activate reporting to an external server via internet. Users then connect to this server via internet and they can see events with pictures as camera reported them to the server in the past.



Picture 7: Example of reporting information from detectors via JabloTool application Access & Back-up

In order to use this possibility you need to activate the application Access & Back-up in your JabloTool account on www.jablotool.com. For more information on JabloTool Applications see www.jablotool.com/applications.

9 Enrolling peripherals

A peripheral and camera need to know each other so that they can communicate. The process when they get to know each other is called enrollment. Peripherals should be at least 1 meter away from the camera during enrolment. After you enroll wireless peripheral the camera leaves Enroll mode. Switch the camera into Enroll mode again to enroll next peripheral.

9.1 Switching camera into Enroll mode

When you enroll new peripherals you will need to switch the camera into Enroll mode. This is possible in JabloTool in your PC. When you do not want to use a PC you can switch the camera to Enroll mode with remote control RC-80.

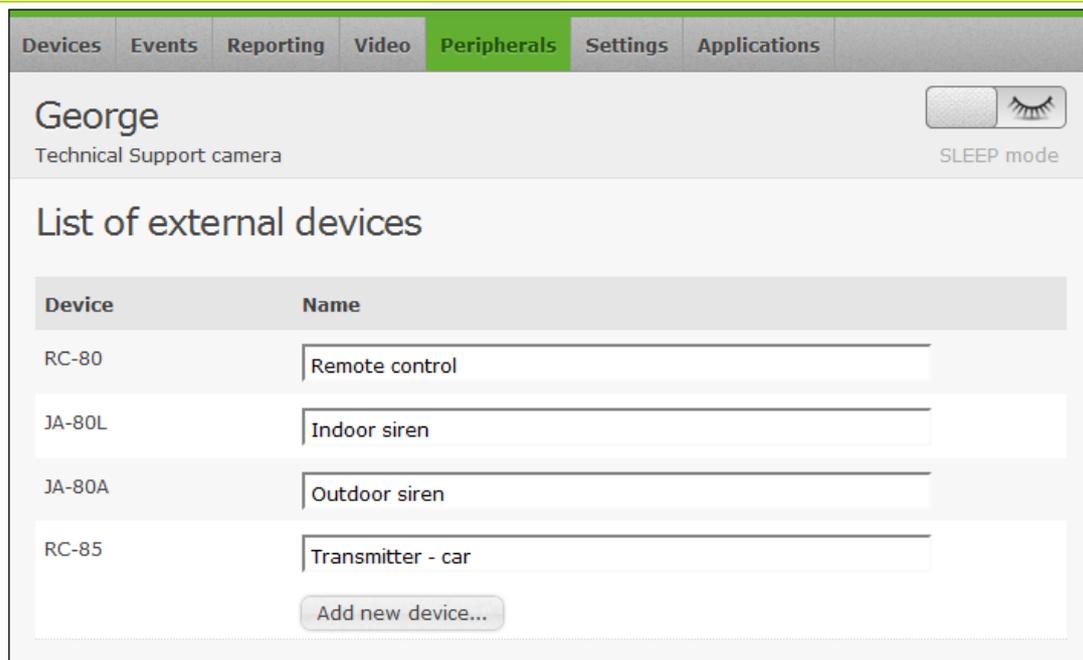
9.1.1 Switching camera to Enroll in JabloTool

- Connect to your camera with JabloTool - either via internet portal (or via JabloTool installed on your PC)
- Go to tab Peripherals (or Configuration, External devices)
- Click on Add new device

9.1.2 Switching camera to Enroll mode with remote control

- Press simultaneously both buttons in the right column (see picture)
- Press button with the symbol "+"

Procedure of enrolling peripherals is described separately step by step for each of their categories. Enrolled peripherals can be further configured in JabloTool. Wireless peripherals are described in more detail in user manual of each peripheral on www.jablotron.com.



Picture 8: Screenshot from JabloTool via internet, tab Peripherals

9.2 Enrolling detectors

- Go to JabloTool via internet, tab Peripherals and click on Add new device. This will switch the camera into Enroll mode. Other possibilities of switching camera to Enroll mode are described in the chapter 9.1.
- Insert battery into your detector: JA-80D, JA-80IR, JA-80M, JA-80P, JA-80PB, JA-80S, JA-80W, JA-81M, JA-82M, JA-82SH, JA-85B, JA-85P, JA-86P, JA-88P or
- plug the detector into the mains if you have detector JA-80G.

9.3 Enrolling wireless switches

9.3.1 Enrolling smart socket AC-88

1. First reset the socket. You can skip step 1 if no other device is enrolled in the smart socket.
 - Unplug the socket from the mains and plug it in again. The LED indicator will flash for a short moment.
 - Then press the button on the socket within 10 seconds after plugging in (the LED indicator will flash once) and hold it until the LED indicator starts flashing four times per second.
 - Release the button to enter the reset mode.
 - To perform the reset press the button and hold it again until the LED indicator goes off (approx. 3 seconds)
 - Unplug the socket from the mains
2. Plug the socket into the mains, LED indicator will flash for a short moment.
3. Press the socket button within 10 seconds after plugging in and hold it
 - until the LED indicator flashes once in intervals - the socket enters the Switch ON (normal) mode. The socket will connect contact if camera switch is turned ON, or wait
 - until the LED indicator flashes twice in intervals - the socket enters the Switch OFF (inverse) mode. The socket will disconnect contact if camera switch is turned ON. It will connect contact if camera switch is turned OFF.
4. Send the enrollment signal from the camera.
 - Go to JabloTool via internet, tab Peripherals and click on Add new device, or
 - go to JabloTool via USB, click on the icon of camera in the list of on-line devices, go to Configuration, External devices and click on Add new device.
5. Press the socket button to exit its enrolment regime.

Note: Do not use remote control to switch the camera in the Enroll mode when siren is in Enroll mode because the remote control would then enroll into the siren.

Now the smart socket will respond to switching ON or OFF the first camera switch (DeviceX).

9.3.2 Enrolling relays AC-82 and UC-82

1. First reset the wireless switch. You can skip step 1 if no other device is enrolled in the relay.
 - Undo the cover and repeatedly press the button of the first wireless switch (X), achieve the highest number of LED flashes (4, or if not possible, then 3)
 - Press the same button and keep it pressed until all the LEDs flash a couple of times (=reset)
 - Repeat the reset procedure with button of the second wireless switch (Y)
2. Enroll the camera into wireless switch X or Y. Repeatedly press the relevant X or Y button until 4 LED lights flash.
3. Send the enrolment signal from the camera
 - Go to JabloTool via internet, tab Peripherals and click on Add new device. Other options are described in the chapter 9.3.1, step 4.

Wireless switch will now respond to wireless instructions of camera virtual switches. If you enrolled the camera into the first wireless switch (X), the wireless switch will be controlled by camera switch DeviceX. If you enrolled the camera into second wireless switch (Y), the wireless switch will respond to instructions of the camera switch DeviceY.

9.3.3 Enrolling relay AC-83

1. First reset the wireless switch. You can skip step 1 if no other device is enrolled in the relay.
 - Undo the cover and repeatedly press the button of the first wireless switch (X) to achieve several LED flashes
 - Continuously press the same button and keep pressing it (for approx. 4 seconds) until all the LEDs flash a couple of times (= reset). Then release the button.
 - Repeat the reset procedure with button of the second wireless switch (Y)
2. Enroll the camera into the wireless switch X or Y.

Use the X or Y button depending on to which wireless switch you want to enroll the camera. Enter enrollment mode of wireless (this is indicated by red LED No. 2 or 4 flashing) by pressing its button X or Y.
3. Send the enrollment signal from the camera
 - Go to JabloTool via internet, tab Peripherals and click on Add new device. Other options are described in the chapter 9.3.1, step 4.

9.4 Enrolling wireless buttons

- Switch the camera into Enroll mode. Go to JabloTool via internet, tab Peripherals and click on Add new device. Other possibilities of switching camera to Enroll mode are described in chapter 9.1.
- Press (any) button on wireless button: RC-80, RC-85, RC-87, RC-88, RC-89

9.5 Enrolling sirens

Siren should be at least 2 meters away from the camera during enrolment.

9.5.1 Enrolling JA-80L

1. Reset the siren if it has been previously enrolled in another device
 - Unplug the siren from the mains socket.
 - Press and hold the siren button and plug the siren in the mains socket.
 - Keep the button pressed until two beeps are heard which confirms a reset.
2. The indicator keeps flashing after reset (device is in enrolment mode).

3. Send the enrolment signal from the camera

Go to JabloTool via internet, tab Peripherals and click on Add new device. Other options are described in the chapter 9.3.1, step 4.

9.5.2 Enrolling JA-80A

1. If another device has been previously enrolled in the siren reset the siren by unplugging its battery.
2. Switch the camera into enroll mode. The options are described in the chapter 9.1.
3. Insert battery into the siren.

The siren stops flashing after it is enrolled.

9.6 Enrolling thermostats and camera into wireless switches

If you want to use wireless switch with both thermostat and the camera you need to enroll thermostat into the switch first then you can enroll the camera. Follow these steps.

1. Enroll the thermostat into the controlling wireless switch
 - Reset the wireless switch AC-82, UC-82 (it is described in chapter 9.3.2, step 1) or AC-83 (it is described in the chapter 9.3.3, step 1)
 - Switch the wireless switch into enroll mode
 - AC-82 or UC-82: Repeatedly press the relevant X or Y button of the wireless switch until all 4 LED lights flash
 - AC-83: press the button X or Y, enroll mode is indicated by red LED number 2 or 4 flashing.
 - Insert battery into the thermostat TP-82 or TP-83.
2. Enroll the camera into the controlled wireless switch (it is described in the chapter 9.3.2/9.3.3, steps 2 and 3).

9.6.1 Enrolling thermostats into EYE-02 camera

1. Switch the camera into Enroll mode (it is described in chapter 9.1)
2. Insert battery into the thermostat TP-82 or TP-83

9.6.2 Enrolling thermostats and camera into wireless socket AC-88

1. First reset the socket.

You can skip step 1 if no other device is enrolled in the socket. Its reset is described in the chapter 9.3.1, step 1.

2. Plug the socket into the mains. LED indicator flashes once.
3. Right afterwards, press and hold the button on the socket until the LED indicator flashes once in intervals.
4. Insert battery into the thermostat TP-82 or TP-83
5. Press the socket button to finish the enrollment mode.
6. Unplug the socket from the mains
7. Plug the socket into the mains. LED indicator flashes once.
8. Right afterwards, press and hold the button on the socket until the LED indicator flashes once in intervals.
9. Send enrollment signal from the camera.

Go to JabloTool via internet, tab Peripherals, press Add new device. Other options are described in the chapter 9.3.1, step 3.

The wireless socket will now connect contact if thermostat gives command to increase the temperature.