YOODA SMART CONTROL UNIT





In order to fully explore available functions of YOODA SMART CONTROL UNIT (YSC\_UNIT) please take a moment and read this manual before using the device.

All devices work on 433 MHz frequency.

# Table of contents

- 1. Safety rules
- 2. YSC unit description
  - 2.1 Technical information
    - 2.2 Construction
    - 2.3 Working mode

3. First start-up

- 3.1. Initialisation
- 3.2. Downloading
- app and changing language
- 3.3. Connecting to Wi-Fi
- 3.4. Connecting by Ethernet cable

- 4. Mobile app interface description
- 5. Configuration and work mode
  - 5.1. Adding devices
    - 5.2. Controlling devices
  - 5.3. Crating groups
  - 5.4. Creating and activaitng scenarios
  - 5.5. Creating and activaiting choreography
  - 5.6. Connecting YSC unit to local Wi-Fi
  - 5.7. Remote access service
  - 5.8. Setting password
- 6. Controlling device from computer
- 7. Demo version

## 1. Safety rules



- 1. Before connecting or starting control unit please read this manual.
- 2. Device needs to be connected to the internet according to specific parameters.
- 3. Control unit should not operate in places with high humidity (bathroom, sauna etc.).
- 4. Control unit should not be places next to sources of high temperature (radiator, fireplace, furnace etc.).
- 5. Control unit should not be placed within the reach of children.

6. Control unit should not be covered. It's recommended to leave at least 10 cm of free space over and on the sides of the device.

7. Before cleaning or conservation control unit should be disconnected from power source. Unit is not water resistant and should be protected from any liquids or any other potentially harmful substances.

8. Unit should not be opened. Do not attempt to repair the unit yourself - only manufacturer or authorized retailer can perform any modifications or repairs.

- 9. Control unit should not be placed next to a strong magnetic field, as it can cause permanent damage to the device.
- 10. Control unit cannot be operated in explosive areas or where it is legally prohibited.
- 11. To protect the unit during a thunder storm power supply should be disconnected.
- 12. Control unit should not be connected to power supply that do not met all technical requirements.
- 13. Control unit should be protected from vibrations and shakes.
- 14. Control unit needs to be protected with a password see point 2.3.



This symbol found on the apparatus indicates that the apparatus must be placed in a separate collection facility for electronic waste and not disposed with household waste. Instead, it should be handed over to an applicable collection point for the recycling of electrical and electronic equipment.

Allowing for specialized collection point to handle used device will allow for raw materials to be recycled and will have positive impact on the natural environment.

## 2. YSC unit description 2.1 Technical information

- 1. Can control YOODA and CORTINO brand devices with smartphones, tablets and computers.
- 2. Allows to create and manage groups of devices.

3. Allows to create scenarios (combination of set actions to different devices) and determine the time of automatic activation.

- 4. Can generate own Wi-Fi network or work in local Wi-Fi network (wireless or by Ethernet connection).
- 5. Control unit can be set and controlled by dedicated app available for Android and iOS.
- 6. Encrypted network connection.

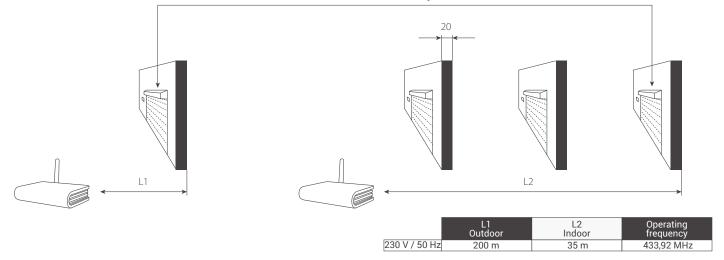
1. Interface:5. Protection degree:Wi-Fi, Ethernet, ISM 433 MHzIP 202. Memory:<br/>up to 255 devices6. Dimensions:<br/>110 x 80 x 27 mm3. Power consumption:<br/>1.6 W7. Power supply:<br/>Input: 230 V / 50 Hz

4. Setting memory: CR1220 battery 7. Power supply: Input: 230 V / 50 Hz Output: 12 V DC lub 5 V DC according to label on the control unit

Warning! Voltage and current should correspond with parameters declared by the manufacturer. Not complying with this regulations may result in damaging the control unit.

Radio signal range is a variable value and can differ from declared values depending on conditions in which device operates. Possible sources of changes in range are building construction, interference caused by other radio transmitters etc.

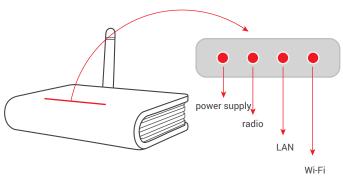
Roller shutter with remotely controlled motor

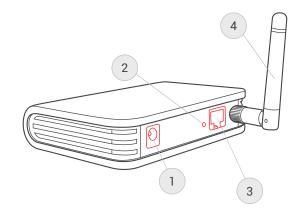


At the bottom of the control unit you will find rating label with detailed information:

- a) control units serial number S/N,
- b) MAC address of Ethernet and Wi-Fi interface,
- c) CE labelling,
- d) power supply.

YSC\_UNIT S/N: Y0-020017 MADE IN POLAND DC IN: 5 V T 2 A MAC ETH/WIFI: AC-A2-13-B7-FC-96





## LED diodes (front):

1. Power supply

- light up diode informs if the control unit is connected to power source.

- 2. Radio
- diode lights up whenever radio is activated.
- 3. LAN
- diode lights up when control unit is connected by Ethernet interface.
- 4. Wi-Fi
  - diode inform on work status of Wi-Fi interface.

## Panel (back):

- 1. Power supply input
- entry for power supply cable.
- 2. Reset button

- pressing RESET button will result in deleting all Wi-Fi setting of the control unit; pressing and holding for 5 seconds will result in restoring factory settings.

3. Gniazdo Ethernet

- allows to connect the control unit to LAN network or router by using Ethernet cable.

4. Antena

- antenna should be bolted to the antenna connection; antenna works in 433MHz operating frequency.

## 2. YSC unit description 2.3 Working mode



YOODA SMART CONTROL unit can work in one of the three modes. Work mode can be changed after creating first connection of control unit through app: Settings > Network connections > Wireless network connection

Warning! Control unit in default settings does not require password for connection, which allows for unauthorised users to set connection and control programmed devices. For safety reasons we recommend setting control units password (see section 5.7 of this instruction). Please remember, that control unit password is independent from Wi-Fi network password and has to be set individually - these are two different passwords.

#### 1. Control unit generates own Wi-Fi network

- This is the default mode, that activates after first startup.

- Allows to control programmed devices without the necessity to connect to other Wi-Fi network or to router.

 Control unit generates own Wi-Fi network named
 'SmartControl-UnitsSerialNumber'

- instruction of connection can be found in section 3.3.

- Generated Wi-Fi network is unprotected. Encryption method, name of the network and password can be changed in the app: Settings > Network connections > Wireless network connection.

- In this mode distant remote control is possible if control unit is connected by Ethernet cable to the internet source (directly or by router).

## 2. Control unit uses existing Wi-Fi network

- Easiest way is to connect control unit to working router using Ethernet cable.

- To connect app on mobile device with control unit can be done by logging into local Wi-Fi network - see section 3.4.

- Other way includes connecting to control units Wi-Fi network - see previous paragraph.

- Network generated by control unit can be switched off.

- This work mode allows distant remote control – see section 5.7.

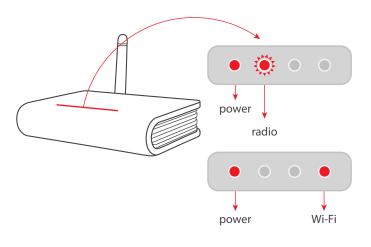
## 3. Control unit connects remotely to local Wi-Fi network

- This mode allows for control unit to be placed in the middle of the building so that optimal radio signal range can be achieved.

- Mode requires to set remote connection parameters of the control unit with local Wi-Fi network (see section 5.6.).

- Network generated by control unit can be switched off.

- This work mode allows distant remote control – see section 5.7.



1. After unpacking the control unit mount the antenna and connect the unit to power source. 'Power supply' diode should light up steady as long as the energy supply is uninterrupted. 'Radio' diode will be flashing until device initialization is finished.

2. After about 60 seconds, when 'Radio' diode stops flashing, control unit is ready for work.

#### 3. First start-up

3.2 Downloading app and changing language

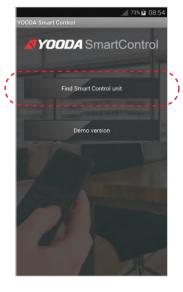
To operate control unit properly dedicated app needs to be downloaded and installed on the device. Using Google Play or App Store search 'yooda smart control' phrase or use QR code below.

Language of the app can be changed. When app is started for the first time it will automatically set to the language of the device (or English, if it's unavailable). To change the language (in regular mode or in DEMO mode) go into 'Setting' and then 'Language'.

#### 3. First start-up 3.3 Connecting to Wi-Fi



After connecting control unit and finished initialization it will automatically generate own Wi-Fi network named 'SmartControl\_SerialNumber'. Using mobile device (smartphone, tablet etc.) search and connect to unprotected SmartControl network.



After running the app, network configuration screen will appear. Press 'Find Smart Control Unit' for automatic IP address setting.



After finding control unit choose 'Connect'.

back of the unit



1.Included Ethernet cable should be plugged into back panel of the control unit and to free output slot in working router. If your router's LAN is set to IP address: 192.168.1.x, then before connecting the ethernet cable, disable wireless connection in your control unit: Settings >Network connections > Wireless network configuration 3.To return to the default mode in which the control unit provide its own wireless network press briefly the "reset" button on the

VODDA Smart Control

After connecting control unit to router by Ethernet cable run app and select "Find SmartControl Unit". Than choose Wi-Fi network generated by the router (not by the Smart Control unit).

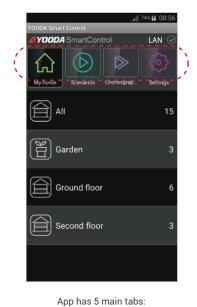


After successfully connecting to the network, control unit is ready to work.

## 4. Mobile app - interface description



Due to the changes introduced in the system functions and various sizes of mobile devices presented screenshots are only illustrative.



MY HOME

controlling devices

and group of devices, SCENARIOS

adding, editing and turning on created time scenarios,

CHOREOGRAPHY

adding, editing and turning on created choreography SETTING adding and editing devices, adding and editing groups of devices, changing control unit settings (work mode, connection settings, password) and changing language, YOODA SHOP Website with Yooda products

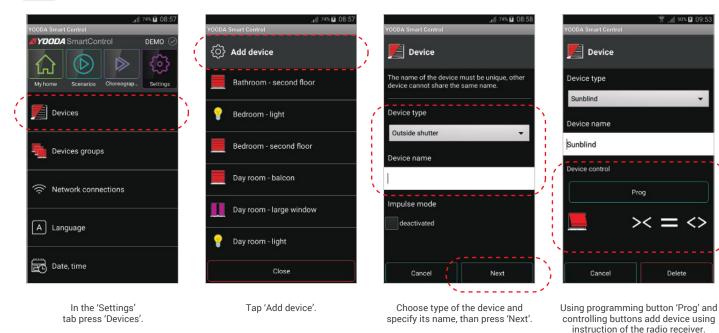


80 0

Status bar informs us on work mode. LAN control unit works in local network, NET remote access service, connection to internet, DEMO app is in demo mode,



Information on how to add radio receiver can be found in instruction of that device.



# 5. Configuration and work mode 5.2 Controlling devices

Controlling of the devices can be performed by using controlling buttons. There are 4 types of control depending on the device.

#### 1. Standard control



Control is performed via three buttons – 'UP', 'STOP', 'DOWN'. This mode is best to control roller shutters or roller blinds, horizontal blinds, projection screen, roller gate etc

2. Horizontal control



Control is performed via three buttons – 'OPEN', 'STOP', 'CLOSE'. (e.g. curtains, awnings or pergolas).

#### 3. On / off control



Device is controlled by two witches - 'ON' and 'OFF', e.g. lighting, power socket.

4. Step-by-step control



Device is controlled with a single switch, e.g. sectional garage door, up and over garage door, double-leaf garage door, sliding gate, garden watering system.

#### 5. Impulse control

Some devices, such as roller blind and horizontal blind, can be controlled using impulse mode. Before choosing this type of control device needs to be set to impulse as it is described in its instruction. Activating impulse mode changes control buttons.



Control buttons will be sending amount of impulses equal to the length of uninterrupted time of button being pushed. Motor works as long as the button is being pushed. Pushing button longer than for 2 seconds will result in moving the shade to its limit position.

	<b>.</b> ∎ 75% 🖬 09:00
YOODA Smart Control	
Device	
Outside shutter	-
Device name	
Bedroom - second fle	oor
Impulse mode	
Device control P	rog
	∧ = ∨
Cancel	Delete

#### Recently performed action is marked in the app.

As radio receivers can be controlled with different devices with app, recently performed action may not represent the state of the radio receiver status.

#### Homescreen widgets are available for devices with Android system.

Widgets allow to control different devices even more easily without the need to run the app. Whidgets can automatically switch between local network and remote access service. You can control the size of the widget for your convenience - e.g. when driving into the garage less focus is needed to control the app.

To create a widget, hold your finger on the homescreen of your mobile device. Depending on your Android system version, add a widget from the popup window or open a list of available applications and go to the widgets tab. Click on the "YOODA Smart Control" widget and then select the device or scenario to be operated by the widget. You can create several widget for your favorite devices or scenarios.

To change widget's size press and hold it for a while, than drag its borders.

# 5. Configuration and work mode 5.3 Creating groups

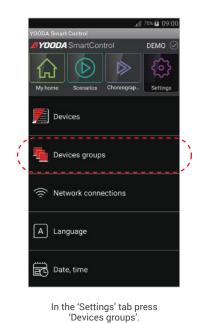
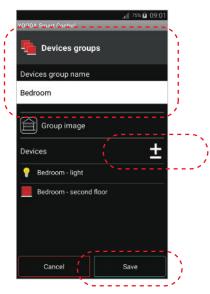


Image: Second floor 3 devices         Image: Second floor 3 devices	YOODA	Smart Control	75% 🖬 09:00
Ground floor 6 devices	<u>ن</u>	Add devices group	
6 devices	¥		
Termine La Constantina de Constantina de Constantina de Constantina de Constantina de Constantina de Constantin			
	Â		
		Close	



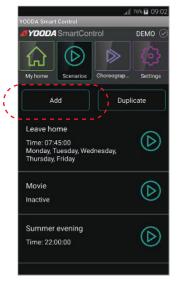


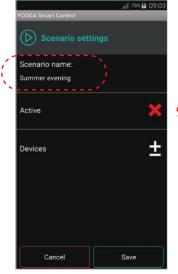
Specify name of the group, select preferred image and add devices into the group. Select 'Save' to save the settings after configuration.

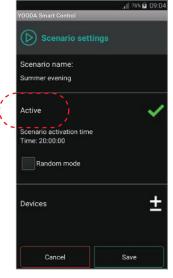
# 5. Configuration and work mode 5.4. Creating and activiting scenarios

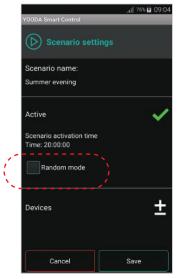
By creating scenario user selects different devices already added to the app and chooses its action when scenario is beeing run (e.g. roller shutter - close, TV - turn on, lights - turn off, etc.).

Scenario can be activated at any time **manually** or it can be started **automatically**, cyclically at a specific time, if it was determined and switched to **active**. For scenario to work correctly, accurate date and time has to be set for the control unit. Date can be set by choosing **'Date, time'** in the **'Settings'** tab.



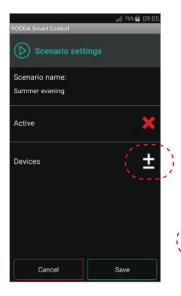




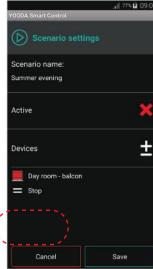


To add new action click 'Add scenario' in the 'Sscenarios' tab. Enter name of the scenario.

Activate scenario, then specify the time of when the event should work. By selecting random mode, the active scenario will run at random time within ± 15 minutes of the set activation time.



Add devices for the scenario.



After choosing devices specify its actions and save scenario by clicking 'Save'.

	JE 77% 🖬 09:06
<b>ATTOODA</b> SmartControl	DEMO 🕗
My home Scenarios Choreogr	rap Settings
Add	Duplicate
Leave home Time: 07:45:00 Monday, Tuesday, Wednesday, Thursday, Friday	Þ
Movie Inactive	$\bigcirc$
Summer evening Time: 22:00:00	

After creating new scenario it can be activated manually by clicking on the 'Play' button placed next to the name of the time event.

		THE WARM DATOR
	YOODA Smart Control	
	() Run scenario	
	Scenario name: Summer evening	
_	now	
-	later	
1	Time: 22:00:00	Change
	Run scenario	
	Close	

Manually by running the script, we can run it immediately or set a one-time automatic activation at a specified time (timer mode).

#### 5.Configuration and work mode 5.5. Creating and activiting Choreography



Choreography like a scenario allows you to run multiple devices. However, for each device you can set the activation time of the selected control command (since choreography started). It allows you to get interesting and aesthetic effects (e.g. sequent lighting of light sources in time intervals). In addition, each device can participate in a sequence of commands repeatedly (e.g. you can start closing the roller blind and stop it in the selected position after a few seconds).



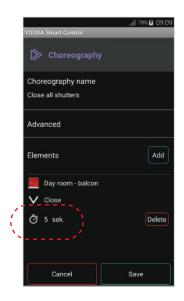
The choreography element is a command sent to the selected device at a certain time. An example could be opening the roller blind in the third second.

YOODA Smart Control	🈤 🦽 87% 🖬 09:43
Choreography	
Choreography name Close all shutters	
Advanced	
Elements	Add
Cancel	Save

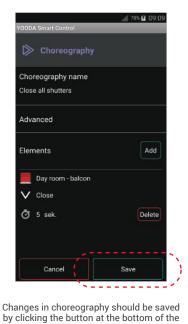
First step to create choreography is to add device.

	70% M 09.09
YOODA Smart Control	
Choreography	
Choreography name	
Close all shutters	
Advanced	
Elements	Add
- Day-rosm balcon ✓ Close 75 sek	Delete
Cancel	Save

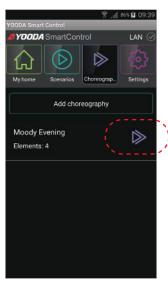
Select control command by clicking its name or symbol.



Click the clock icon to set the activation time of the command from the moment the choreography starts. Edited element can be repositioned to fit in the appropriate order on the elements list



screen.



To run a choreography click icon next to its name.

YOOD	常 🦽 87% 🖬 09:44 A Smart Control
⊳	Choreography
Mod	dy Evening
Ø	1s
	Bedroom window
$\sim$	Close
	Curtain
×	Close
2	Night light
1	Turn on
ſ	Cancel

Choreography elements will appear and the timer will activate commands at the appropriate time.

		Ť	/ 87% 🖬 09:
YOODA Smart Cont	trol		
Ø Choreo	graphy		
Choreography Moody Evening	name		
Advanced			
Delay: 10 ms			
Delay: 10 ms Elements			Add
Elements			Add
Elements	balcony		Add
Elements Bedroom t V Close			

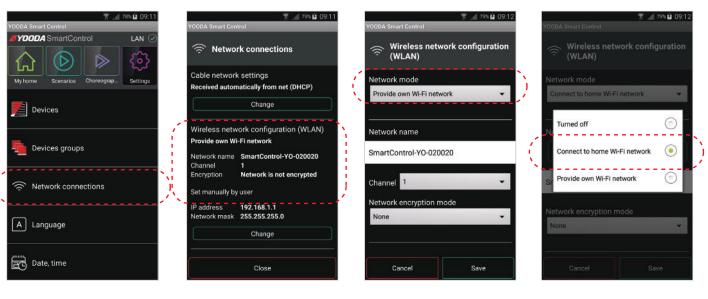
Due to external factors it may happen that some devices may not receive commands set to the same activation time. In this situation, return to editing choreography, click on "Advanced" and then "Delay" in order to increase the delay between control signals.

## 5. Configuration and work mode 5.6 Connecting YSC unit to local Wi-Fi



 After running control unit for the first time, in its default mode, it generates own Wi-Fi network that we can log into. After that there's a possibility to connect unit to other, already existing, Wi-Fi network.
 For returning the control unit to default mode press briefly 'Reset' button on the back panel of the control unit.

3. To change the mode, take the following steps:



In the 'Settings' tab press 'Network connections'.

Press 'Wireless network configuration'.

Change network mode to 'Connect to home Wi-Fi network'.

Y	😤 🎾 79% 🖬 09:13. OODA Smart Control	
	Wireless network configuration (WLAN)	
1	Network mode	i
	Connect to home Wi-Fi network 🔹	
_	Network name	1 
(	Choose Wi-Fi network	<b>`</b>
k	SmartControl-YO-020020	
,	Network encryption mode	
	None 👻	
ſ	Cancel Save	

In Android system choose network using 'Choose Wi-Fi network' button. In iOS enter name of the network.

	Wireless (WLAN)	s netwo	ork co	nfigura	ation
Netwo	rk name				
	Choo	ose Wi-F	i netwo	rk	
	2001				
	wlan				
nome-	wlan				
		tion mo			
	wlanj rk encryp	tion mo	de		•
Netwo		tion mo	ode		*
		tion mo	ode		•
Netwo None				)	•
Netwo None	rk encryp	m router		)	¥

We choose the encryption method, enter the password of the selected network and click "OK".



Choose network encryption mode, enter password and press 'OK'.

If the control panel has been wired to a home network before, it must be restarted (turn the power off and on) after changing the wireless settings. ŕ





After log in to the network, click " Search SmartControl control unit." New IP address of Smart Control unit will be shown. Press 'Connect'.

# 5. Configuration and work mode 5.7 Remote access service

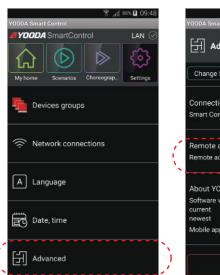
For remote access to work properly:

longer than when using local Wi-Fi network.

- 1. Smart Control unit needs to be connected to the internet.
- 2. Current time needs to be set on Smart Control unit.
- 3. Remote access service function needs to be activated.



Remote access service should be activated when automated devices are to be controlled outside from the local Wi-Fi network. Reaction time of automated devices controlled using remote access, considering usage of staging servers, is



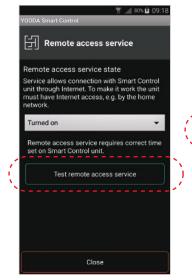
To activate remote access service choose 'Advanced' in 'Settings' tab.



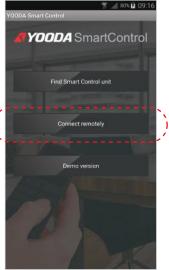
Run 'Remote access service' option.



Choose 'Turned on' option to activate remote access function.



After entering 'Remote access service' again test activated function.



When controlling device is out of reach of local Wi-Fi network control unit search screen will be displayed. To connect control device to Smart Control unit press 'Connect remotely'.



When controlling device is again within reach of local Wi-Fi network it can be reconnected, by turning it off using 'Settings' tab.

80% 🖬 09:17

s password

turned off

2.1.0 / 1.1.0 2.1.0 / 1.1.0

nit 192.168.1.1

## 5. Configuration and work mode 5.8 Setting password

🛜 📶 80% 🖬 09:17	9
YOODA Smart Control	Y00DA Smart Control
My home     Scenarios     LAN ②	Advanced settings
The Devices groups	Connection to Smart Control Smart Control unit IP address
Network connections	Remote access service Remote access service state
A Language	About YOODA Smart Control Software version
Date, time	current newest Mobile app version
Advanced	Close

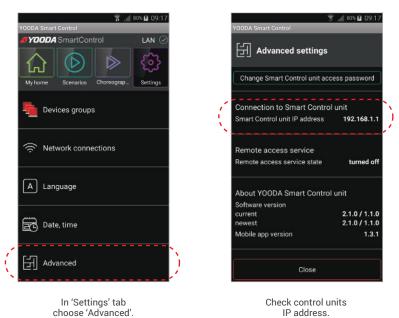
To set password go into 'Settings', and then choose 'Advanced'. Choose 'Change Smart Control unit access password'.

# 5. Configuration and work mode 5.9 Controlling device from computer



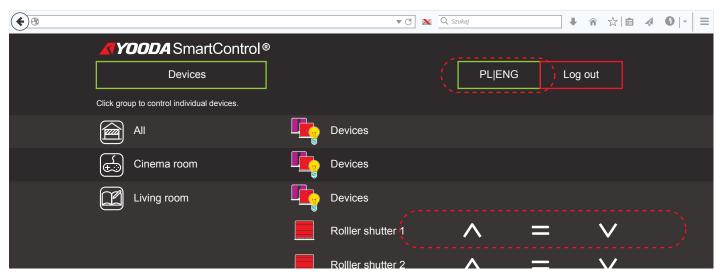
Control unit, as well as the computer, must be connected to the same local Wi-Fi network.

To control roller shutters using computers web browser it's necessary to know IP address of the control unit in local Wi-Fi network. We can check it in the mobile app.



$\left( \begin{array}{c} \end{array} \right)$	( 192.168.1.1/index	k.php			٧	Szukaj	•		A	<b>0</b>   -   ≡
<b>`</b>		<b>AYOC</b>	<b>DA</b> SmartContr	ol ®						
			Devices			PLIENG	Log	out		
		Click group to	o control individual devices.							
		AI			Devices					
		€ € Ci	nema room		Devices					
		Liv	ving room		Devices					

Enter IP into address bar of browser of computer connected to the same local Wi-Fi network as the control unit. The web site of the system will appear.



After choosing group of devices control buttons will be displayed. By using 'PL|ENG' buttons language version can be changed.

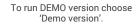


Demo version was designed to show all the possibilities of the YOODA SMART CONTROL app.

For the app to work in DEMO mode there is no need to connect to any control unit. App is equipped with exemplary setting.

\_ \_ \_ \_ \_ \_





	83% 2 09:30
YOODA Smart Control	
MYOODA SmartControl	demo 🕗
My home Scenarios Choreograp	Settings
All	15
Garden	3
Ground floor	6
Second floor	3

Exemplary programmed control unit with prepared app is being presented. Whenever using DEMO version its name is being shown in top right of the app.



To quit demo mode enter 'Settings' tab and click 'Close demo'.