

Wanderfull User Manual

Firmware Version 196 Document Version 196.02





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General

About us

SweetchOn is the european distributor of the company TouchWand. TouchWand develops and manufactures control and smart home systems in Petah Tikva, Israel. The company's systems are based on a stable and robust platform that supports international standards and serves as a link to various third-party systems. SweetchOn 's products are intended for various markets, mainly:

- Integrators dealing with smart home systems
- Integrators interested in office management systems and office buildings
- Integrators dealing with hotels
- Integrators working with construction developers.

Our products

The company is offering the following products:

- **Wanderfull Hub** or the controller is used to manage wireless systems in the Z-WAVE standard. It supports Wi-Fi-based units and KNX standard used for connecting to wired systems.

The controller has a management system that allows controling home and building systems in a simple and user-friendly way with a technician, administrator and user role hierarchy. The management system is based on external cloud services (currently AWS) and enables system survivability even during malfunctions.

The client and integrator are equipped with cloud services that enable remote access, backups, information and alerts.

A detailed description and other technical details of the product can be found on the website at the following link <u>https://www.sweetchon.com/our-application</u>

- InWand Double Micro Module Switch is a Z-Wave smart home micro module, the only micro module that offers dual functionality. It can be used to control either shutters or lights in the Z-WAVE standard. A detailed description and other technical details of the product can be found on the website at the following link https://www.sweetchon.com/inwand
- WallWand Z-Wave Touch Panel LCD is an intelligent electronic switch with LCD display for control of blinds, lighting and Z-WAVE scenarios. This sleek wall controller offers best in class functionality and design, supporting up to 15 icons that can be selected from a library of over 150 icons, representing various smart home



functionalities. A detailed description and other technical details of the product can be found on the website at the following link https://www.sweetchon.com/wallwand

- InWand Double Micro Module 24V DC is a small, hidden Z-Wave smart home micro module that offers dual functionality for 24v shutters, enabling control of an in-glass shutter and a scenario. A detailed description and other technical details of the product can be found on the website at the following link https://www.sweetchon.com/inwand24v
- TouchWand ACWand is a smart device that controls air conditioning units and monitors and saves energy. It uses a Wi-Fi connection and is connected and paired to the Wanderfull controller. A detailed description and other technical details of the product can be found on the website at the following https://www.sweetchon.com/acwand

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Note: Before going through the manual, make sure to use the latest updated document located on the company's website.

Service and support system

Training

The company holds ongoing training. You can register via the website at the following link: <u>https://www.sweetchon.com/contact-us</u> or contact us for further training whenever additional knowledge is required.

Phone support and on-site support

For telephone support please call +972-747-146-360. Our office hours: Monday – Thursday 09:00-17:00, Friday 09:00-12:00 ISRAEL time zone. Delivery time for Israel is up to 5 working days.

Mobile applications

All users can access the Wanderfull hub application through mobile phone by downloading the TouchWand mobile applications for iOS and Android. We support the latest Android and iOS versions starting from iOS 11.





Wanderfull controller configuration

Starting the controller

Unpack the unit and plug it to electricity through the power outlet port located in the back. Once the controller is powered up, all LED indicators will be lighted up and emit red light. The LED Indicators in the Wanderfull controller are for the Internet, Z-Wave, COM, IR, and RS232.

Internet LED Indicator	emitting GREEN	connected to the		
	light	Cloud		
	blinking RED light	no Internet connection		
	blinking YELLOW light	data is being transferred		
Z-Wave LED Indicator	blinking GREEN light	transferring data		
	blinking RED light	no connection can be		
		established		
	blinking YELLOW light	pairing mode		
COM LED Indicator	blinking GREEN light	transferring data		
	blinking RED light	no connection of any type		

Then, through the Ethernet port, plug in the network cable. Once the cable is plugged in, two green LED lights, located on either side of the ethernet port will be turned one, one flashing and the other will be on countinuosly. In addition, the LED light for the Internet, on the front of the controller, will turn green.

There are two ways to connect to the controller:

Through a local network – the controller gets an IP address. With the help of any IP scanner tool, find the controller's address. Usually, the controller MAC address is F8:DC:7A:XX:XX and the manufacturer is Variscite Ltd. Put the controller's address in your browser.



 Connect directly to the controller via Wi-Fi – the controller has an SSID (Service Set Identifier) written on the back of the unit. Find the controller's SSID amongst the Wi-Fi networks and connect to it. The login password is "Wanderfull". Open your browser and enter the following IP address 192.168.0.1.

After connecting to the controller in your browser the following screen will po	p up:
---	-------

Login
Username:
Password:
Show password
~
Don't have an account? Forgot Password?
Submit
or choose authentication provider:
🕜 🗗 😵 🧰
COUCHWAND

In the login screen click on Don't have an account?

A new screen will appear for Registration. To register, enter a valid e-mail address, password and then retype the password. After the initial registration is done, click on the **Authorize Device** button. If you are interested, you can sign up through different platforms and network channels (see "Connecting through social networks").



	Register
Email:	
Password:	
Retype Passwor	d:
	Authorize Device
	Do you have an account?

After clicking on the Authorize Device button, scan the QR code with a mobile phone or laptop camera. The QR code is located on the bottom side of the controller. This allows immediate registration via your mobile phone or laptop camera. During the registration process, a new screen, as seen in the picture below, will appear in the application.

Please wait		×
	Regibering	

After registration is completed, the initial interface is shown.

CTOUCH WAND				Status 🔪 👌
	Favorit	es	۵	Scenarios 🛛 🖉
	+ Add your favo	rite units	Α.	vay Night Day Home
Construction Construction	Rooms	Scenarios	Units	(Ö) Settings

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Click on the **Settings** sub-menu located in the bottom left on the interface.

Under Settings, click on the **General** tab. Select the country, time zone, latitude and longitude.

Settings	
General	Log Data
Reports	Authorization
Network Configuration	
Energy Options	Save
Users	Location
Firmware	Country.* 🗸
Backup	Timezone:*
Z-Wave	Set time manually
Alarm	
Bitwise	Longitude.

To find your latitude and longitude on Google Maps follow these steps:

1. Type in your address and right-click on the red pin that pops up:



2. Press on "What's here?" and click on the coordinates (marked on the picture below):





3. You will see your coordinates on the lefthand side of the screen (marked in the picture below).



At the end of the location setting, you can activate scenarios based on sunset and sunrise times.

Under General Configuration, select the appropriate temperature unit, language and religion calendar. To complete this part of the configuration, click on the **Save** button.

Also, when logging in to the application, you will be able to see your password by checking the box next to **Show password**.

Login	
testuser@gmail.com	
test password	
Show password	
	~
Don't have ar Forgot l	n account? Password?
Submit	
or	
6 🚯 🗓	
192.168.88.213	

The username isn't case sensitive which allows you to sign in to the application whether or not there is a capital letter in the username. Note: Passwords remain case sensitive.



Connecting through social networks

There is a possibility to log in to the application via different platforms and network channels. You'll be able to provide authentication through Facebook, Google Plus and LinkedIn.

These authentication providers are located in TouchWand's login page, under the Submit button.

	Login
Username:	
Password:	
	Don't have an account? Forgot Password?
	Submit
	Submit
	Submit or choose authentication provider:
	or choose authentication provider:

With just one click on any of the three social network buttons, you will be automatically redirected and logged into the application. For example, in the login page click on the LinkedIn button. After being redirected, the first page – the Dashboard in the application can be seen.



Note: Credentials of any social network should be the same as the username and password in the TouchWand application!



Set up the management system

The management system is divided into 5 parts:

- Dashboard the place where the customer meets with the system and performs most of its activities.
- Rooms rooms / offices, etc.
- Scenarios the way in which the customer adapts the operations to his needs.
- Units the types of units connected to the system, the way they connect and their names and status (on/off).
- Settings

Each part of the system is configured independently and connected to the other parts. It is very important to define the system fully before leaving the site by the installer. This booklet or its summary must be left in the customer's hands so that he can perform activities and settings independently to suit his needs.

The application logs off automatically after 30 minutes of inactivity!

Dashboard

The first page when entering the application is the Dashboard. The Dashboard can be edited according to the customer's preferences at any given moment!

Dashboard interface while using a computer

When logged in, initially the Dashboard is displayed. The dashboard is divided into several parts:

- If you've enabled the energy options located in General settings under Energy Options, the energy consumption will be displayed at the top to right of the screen. In this part, you'll be able to see calculated energy cost per month, energy consumption and status.
- Three different status icons (cloud, lamp icon for the devices and turn off button) indicate that:
 - If the cloud icon is **green**, then the controller is connected through the Internet.
 - If the cloud icon is **red**, then the controller is locally connected.
- On the right side are all types of scenarios in the house,
- Once a thermostat is paired, the thermostat widget is displayed on the left and can be seen under Temperature
 - the thermostat widget has the possibility to turn the thermostat (AC) ON/OFF by clicking on the slider next to the OK button, set the temperature with the temperature slider, see the actual room temperature and set the AC fan speed: low, medium, high or auto.
 - If you click on the thermostat name, which is located under the temperature slider in the thermostat widget, the application will redirect you to the unit in Units tab.
 - By clicking on **All units** in the thermostat widget, a list of all thermostat units will appear that are connected to the controller.



All units	*	ALL ON	×
\star 🚭 Thermos	stat Air Condit	21 [°]	
\star 🚭 Thermos	stat Air Condit	21 [°]	
\star 🚭 Thermos	stat Air Condit	21 [°]	

- The first slider is used for setting the mode of the AC cool or heat, and the other one **All on** is used for turning the units on or off. In the picture above all units are turned on, mode cool.
- The star icon located on the left side of the unit allows adding the selected thermostat unit to Favorites in the Dashboard.
- The thermostat widget that has thermostat assigned to a specific room is visible in the Rooms tab also.
- At the bottom is quick access to the rest of the app

CTOUCH WAND				Status 🏠 🖒	
	Favorit	es		Scenarios 🛛 🖉	
	+ Add your favo	rite units	Av	vay Night Day Home	
Dashboard	Rooms	Scenarios	Units	(Q) Settings	

Dashboard interface while using a mobile App

In the app, the dashboard is divided into several parts:

- Energy consumption is displayed at the top
- Below are the persistent scenarios of the house
- Preferred scenarios or sessions are followed by the client
- At the bottom is quick access to the rest of the app



CTOUCH WAND

Quic	k Scenari	os	Fav	vorites
Persiste	ent			
Away	/ Nig	jht	Day	Home
	Negation Edite	t quick	scenar	ios
Dashboard	Rooms	Scenari	os Un) its Setting



Rooms

Managing rooms

After defining the settings of the system, define the control spaces.

This step during the installation is very important. In homes, offices or buildings, each managed area that receives a name, allows you to assign the different units and activities to it.

If the client want to change the names of the rooms on their own, the process is easy and simple.

Add Room

Adding and editing rooms in the system can be done from the Rooms submenu located at the bottom of the interface.

The system enables adding spaces of rooms, offices, hotels and office buildings in a simple and fast way by clicking on the **Add Room** button. When adding a room, the user is able to add an icon as well.



Edit Room

You can edit the name of the room by clicking on the lower screen. Another screen will open, which allows you to edit the room.

Editing a room allows you to define the name of the room or select another icon.



COUCH WAND		Energy Co \$	est / Month 🔮 Energy Consum	nption Status
Bedroom				
는 Bathroom	Edit Room		:	×
က Outside poc	Bedroom		8	
+ Add Room	Cancel		Save	
Dashboard	Rooms	Scenarios	Units	Settings

There is an option to give unit or rooms an empty icon, thus removing the previous icon.

Edit Room					×
KNX(84)				Ħ	
Ca	ancel			12, ¢	Ħ
KNX(84) switch	0	KNX(84) switch	- A	₼	
				à	

Delete a room

Deleting a room can be done by using an admin user. Click on the \Box icon



Rooms

noonio			
All	~		☑ 亩
₩, B	edroom		
<u>ww</u> c	arden		
, kan b	ining Room		
+	Add Room		

Then, click delete on the screen that pops up.

Delete				×
	Are you su	ure you want this room?	t to delete	
	Cancel		Delete	

Manage units in a room

When you enter a room menu, you get a blank screen. At this stage you'll be able to define room details, such as the room's name or icon.

In addition, it is possible to assign different units (only after adding them to the system), such as lighting, shutter or air conditioner etc., to the room by accessing the Unit submenu.

After defining the various spaces, define the units.



System Units

Activity and alerts can be found on the Units sub-menu, located under Status.



Understanding the importance of the various units and their correct definition prevents many mishaps later.

Add Units

In this sub-menu, you can add new units through the **Add Unit** button. The system supports several types of communication at the same time transparently to the customer: Z-WAVE wireless system, KNX linear system, security cameras on the ONVIF standard, AC units and Wanderfull secondary controllers.





Once you select the desired type and click **Pair**, the controller will start scanning for all the potential units under the type you chose. Adding a unit will be performed parallel to the scanning of the controller while clicking on the configuration button (usually 3 times depending on the type of unit and its directory settings) while the camera is required to press and hold the RESET UNIT button until the camera sound is heard. When the process is completed, the name of the unit and the appropriate icon and management area of that unit must be defined. Further explanation on the pairing process can be seen in this manual (for cameras, and coolmasters), and in each unit's manual for TouchWand products.

Once the unit is added, there is a possibility to see the unit's activity through in the **Status** section. This can be very helpful when the device is not working properly. You can combine units from the Z-Wave, KNX, or IP work environments.

On the lefthand side of the screen you can see the units list.

- You can sort the units using the following conditions:
- 1. Alphanumerical
- 2. Unit ID (the order in which the units were added to the system)



Units		Manage Unit Groups
All Filter Units Filter by name Select Sort Select Sort Alphabetical Descending Alphabetical Ascending Unit ID Descending Unit ID Ascending (10.0.0.15)	Unit name (ID: 14) (10.0.0.17) In room: Rooms not assigned	Choose an icon
(10.0.0.14)	Status	
(10.0.0.12) + Add Unit	12.08.2019 03:35:05 connected 12.08.2019 03:34:57 disconnected	

You can filter them by type (switches, blinds, thermostat etc.), rooms or by the controller they're under (if you have secondary controllers connected). You can also filter the units by name.

When using a technician user you'll be able to determine which devices will be visible to the rest of the users in the Units list. This can be done by checking and unchecking the newly added green box, located next to the units in the unit's list (see picture below).

CTOUCH WAND				Status 🥕 🎽 🕐
Units				Manage Unit Groups
All 🗸		99%		•
Filter Units 🗸 🛛 Fil	lter by name			
Unit ID ↓	Vunit r	ame (ID: 417)	Control unit	
Switch 1 Touchwand (Office #5 Camera nu Office #9(Sec controller) Risco	Office #9 & In room: Touchwa Cond	rrmostat AC nd Office #9 & Office #5 : as favorite	Fan V	Auto 🗸
Camera nu Office #9(Sec controller) + Add Unit	umber 1 cond	D1.2019 14:58:56 Batt. level D1.2019 09:17:57 Batt. level	99%	
			2	(O)
Dasnboard	Rooms	Scenarios	Units	Settings



Note: Option to hide un	its is applicable only fo	r user with technician privileges!
Units		Manage Unit Groups
Filter Units V Filter by name		Q
600 EU Olja Kitchen	Unit name (ID: 37)	Control unit

You can also see which groups and scenarios a selected unit is assingned to from the sections **Present in scenarios** and **Present in groups**.

All	~				
Filter Un	its 🗸	Filter by nam	e	Status	Present in groups
Select So	ort		~		
0	swite Garde	ch garden			
	<mark>swito</mark> Bedro	c h bedroom Iom			
0	shuti Bedro	ter bedroom			+ Add to group
0	dimn Dining	ner g Room		Unit energy consumption history	Present in scenarios
0	blind	ls garden		Last week 🗸	Morning

Each unit can be assigned to a room, and several groups or scenarios.

Through the **Unit energy consumption history** there is a possibility to see the unit's consumption for the previous week.

Groups

You can define Groups to make the system easier to manage. For example, we can set a group for all the internal lights so we could easily set a nighttime scenario in which all the internal lights are turned off.

By pressing on Manage Unit Groups you can add or delete groups.



Manage	Unit	Groups
--------	------	--------

✓ R&D		8
✓ MCO		\mathbf{x}
 lights internal 		\otimes
• Add new group		
• <u>Add new group</u>		

In this screen, we can also remove units from groups:



Manage Unit Groups

✓ R&D	\otimes
∧ MCO	\bigotimes
R&D Scene	Ċ
R&D 3	Ċ
R&D 4	Ċ
✓ lights internal	8
+ <u>Add new group</u>	
Cancel	

Then, by pressing on **add to group** under the **Present in group** tab for each unit, we can choose which groups the unit will be in, by choosing the wanted groups and pressind **Add**.



GTOUCH WAND		Status
Units		Manage Unit Groups
All V Filter Units V Filter by na	Add to Group	ON OFF
Select Sort Switch garden Garden	Assign to group internal lights	
switch bedroom Bedroom chutter bedroom	external lights groups	
Bedroom dimmer Dining Room	Cancel Add	
blinds garden Garden	✓ Add to group	
+ Add Unit		

It should be noted that you can delete groups **only** when locally connected to the system.

System Units - Configuration Settings

In many cases, units added to the system require configuration given by the manufacturer for optimal operation. You should check in each unit's manual the required settings as pointed out by the manufacturer, this is done in **Configuration settings.** Once the data is entered, by clicking the **Save** button the configurations are added to the system.



	loom Dimmers	Add notification			
• Kitchen OFF	Shutters	gurations Settings			-
ee 💭 Bedroor	m AC Variab	e Data size	Desired value	Current value	-11
Bedroor OFF	m TV	Monitor Only 🗸	•		Ċ
Living R OFF	toom Speakers Warnin	ig: Nunc quis velit vehicula, consequ	iat nibh sit amet, consequ	iat turpisusce laoreet lacu	s non.
Kitchen	Sensors	I Configuration Settings	Save Changes		
+ Add Ur	nit				

Deleting or Un-pairing a unit

You can delete a unit in a relatively simple way. Therefore, it is important that only the administrator can perform this action. By clicking on the \Box icon the you can delete or unpair a unit.

Units			Manage Unit Groups
Filter Units	; 🗸 Filter by name	Ċ <u>998</u>	Q
()	Thermostat ZXT 600 EU Olja Kitchen	Unit name (ID: 37)	Control unit
• 0	ZXT-600 II Vivax	Thermostat ZXT 600 EU Olja	Fan 🗸 Auto 🗸
0.	Switch 1 Living Room	In room: Kitchen 🔻 🗌 Mark as favorite	

Clicking on the \Box next to the unit name opens the following screen.

Delete				\times
	Are you sur	'e you want t this unit?	o delete	
	Delete		Unpair	

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By clicking on the unpair button, the unit will no longer be available.

IP Camera Implementation

There is an option to connect IP cameras to the controller to receive snapshots based on triggers created by pre-defined scenarios. For example, you can define a scenario with a condition based on sensor triggering. The result will be a camera snapshot mailed to the customer.

Only users with technician and admin permissions can add and edit an IP camera!

Configuration settings

To add cameras to the system, first configure the IP cameras.

HIKVISION	Live View	Playback	Picture	Configuration
Local	TCP/IP DDNS	B Port NAT		
Network	RTSP Port	554		
Basic Settings	HTTPS Port	443		
Advanced Settings	Server Port	8000		
Q. Video/Audio				
🔝 Image		Save		
Event				
🖺 Storage				

HIKVISION camera

When configuring **Video/Audio** settings it is important that the entered parameter for the **Video Encoding** is H.264 (see picture below) and the **Profile** will be "basic profile" or "baseline".



HII	VISION	Live View	Playback	Picture	Config	guration
Ţ	Local	Video ROI				
	System	Stream Type	Main St	tream(Normal)	~	
Ð	Network	Video Type	Video S	Stream	\sim	
<u>Q.</u>	Video/Audio	Resolution	1280*72	20P	~	
1	Image	Bitrate Type	Consta	nt	~	
一	Event	Video Quality	Medium	1	\sim	
	Storage	Frame Rate	10		✓ fp	s
	otorage	Max. Bitrate	1024		Kt	ops
		Video Encoding	H.264		~	
		Profile	Basic P	rofile	~	
		I Frame Interval	5			
		Smoothing		0	50 [C	lear<->Smooth]
		E s	ave			

• PROVISION camera

When configuring a PROVISION camera in is important to configure settings as Index 1 or:

- Stream: Main stream
- **Resolution**: 1280x720
- Frame: 10
- Bitrate Type: CBR
- Bitrate (Kbps): 1024
- Video: Lowest
- I Frame: 40
- Video: H264
- **Profile**: Base line

DVISION <mark>ISR</mark>							Live	Confi	g S	earch	Logo
System Basic Information	Config H	lome ⊳ Imag Audio	e 🕨 Video/Audio								
Date and Time Local Config	Index	Stream	Resolution	Frame	Bitrate	Bitrate(Kbps	;) Video	l Frame	Video	Profile	
🛃 Image		Main strea	1280x720 🔽	10	CBR 🔽	1024	🖌 Lower 🗹	10	H264 🔽	Base Line	~
Display Video/Audio OSD Video Mask ROI Config		Sub stream	704x576 🔽	10	CBR 🔽	768	✓ Mediur <mark></mark>	100	H264 🔽	Main Profil	e 🔽
Alarm		Third stre	352x288 🔽	10	CBR 🗸	512	✓ Mediur ✓	100	H264 🔽	Main Profil	e 🔽



• HiLook camera

To add a **HiLook** camera, login to the camera's IP address via Internet Explorer and install the plug-in if needed. In the basic settings in **Network**, make sure that the port is set to **80**. In the **Advanced Settings** enable ONVIF and add a user with the same credentials as the login for the camera: user name, password and Administrator. Then go to **Video/Audio** and adjust the settings as seen in the picture below.

HiL⊙⊙k	Live View Conf	iguration	
🖵 Local	Video		
🚞 System	Stream Type	Main Stream(Normal)	\checkmark
Network	Video Type	Video Stream	\sim
Q. Video/Audio	Resolution	1280*720P	\checkmark
image	Bitrate Type	Constant	\checkmark
Event	Video Quality	Medium	\checkmark
Storage	Frame Rate	10	✓ fps
	Max. Bitrate	1024	Kbps
	Video Encoding	H.264	\checkmark
	H.264+	OFF	\checkmark
	Profile	Basic Profile	\checkmark
	I Frame Interval	5	
	Smoothing	0	50 [Clear<->Smooth]
	🖹 Save		



• Dahua Camera

Implement the following steps to install a Dahua camera in the application.

1. Login to the camera's IP via internet explorer. Follow the instructions and install the plug-in.

alhua	7	
Username:	admin	
Password:	Login Cancel	Forgot password?

- 2. Go to Settings tab
- 3. Go to Video
- 4. In Main Stream, compare settings with the following and press save in the end:

						Live	Setting
Video	Snapshot	Overlay	ROI	Path			
Main Stream					Sub Stream		
					 Enable 		
Encode Mode	H.264B	•			Encode Mode	H.264B	•
Smart Codec	Off	•			Resolution	640*480(VGA)	•
Resolution	1280*720(720	P) 🔹			Frame Rate(FPS)	10	•
Frame Rate(FPS)	10	•			Bit Rate Type	CBR	•
Bit Rate Type	VBR	•			Reference Bit Rate	208-1024Kb/S	
Quality	4	•			Bit Rate	1024	 (Kb/S)
Reference Bit Rate	512-3584Kb/S		1		I Frame Interval	20	(10~150)
Max Bit Rate	1024	 (Kb/S) 					
I Frame Interval	10	(10~150)				
Watermark Setting							
	Default	Refresh	Save]			
	Video Main Stream Encode Mode Smart Codec Resolution Frame Rate(FPS) Bit Rate Type Quality Reference Bit Rate I Frame Interval Watermark Settinor	Video Snapshot Main Stream Encode Mode H 264B Smart Codec Off Resolution 1280°720(720 Frame Rate(FPS) 10 Bit Rate Type VBR Quality 4 Reference Bit Rate 512-3584Kb/S Max Bit Rate 1024 I Frame Interval 10 Watermark Settinos Default	Video Snapshot Overlay Main Stream Encode Mode H 264B Smart Codec Off Smart Codec Off Resolution 1280*720(720P) Frame Rate(FPS) 10 Bit Rate Type VBR Quality 4 Reference Bit Rate 1024 I Frame Interval 10 Utermark Settinos	Video Snapshot Overlay ROI Main Stream Encode Mode H 264B • Smart Codec Off • Resolution 1280*720(720P) • Frame Rate(FPS) 10 • Bit Rate Type VBR • Quality 4 • Reference Bit Rate 1024 • (Kb/S) I Frame Interval 10 (10~150) Watermark Settinos Default Refresh Save	Video Snapshot Overlay ROI Path Main Stream Encode Mode H 264B • Smart Codec Off • Resolution 1280*720(720P) • Frame Rate(FPS) 10 • Bit Rate Type VBR • Quality 4 • Reference Bit Rate 1024 • (Kb/S) I Frame Interval 10 (10–150) Watermark Settinos Default Refresh	Video Snapshot Overlay ROI Path Main Stream Sub Stream Sub Stream Encode Mode H 264B • Smart Codec Off • Resolution 1280*720(720P) • Frame Rate(FPS) 10 • Bit Rate Type VBR • Quality 4 • Reference Bit Rate 512-3584Kb/S Max Bit Rate 1024 • (Kb/S) I Frame Interval 10 (10-150) Watermark Settinos Default Refresh	Video Snapshot Overlay ROI Path Main Stream Sub Stream Sub Stream Encode Mode H 264B • Encode Mode H 264B Smart Codec Off • Encode Mode H 264B Smart Codec Off • Encode Mode H 264B Resolution 1280'720(720P) • Frame Rate(FPS) 10 Frame Rate(FPS) 10 • Bit Rate 200-1024Kb/S Bit Rate 1024 • (Kb/S) I Frame Interval 20 I Frame Interval 10 • • • Watermark Settinos Default Refreence Save •

- 5. Now you can add the camera to the Wanderfull controller.
- 6. Go to units and add unit.
- 7. Select IP camera (ONVIF) \rightarrow Local and insert username and password.
- 8. The camera is now added to the controller. You can assign it to a room and give it a meaningful name.



• Tiandy camera

To add the **Tiandy** camera first login to the camera's IP address through Internet Explorer and follow the instructions to install the plug-in.



Go to the **Configuration** tab then **Audio Video Set** and **Stream Set**. In the **General Set** adjust the following settings.

Live View	Playback	Log	Configuration		
Audio Video Set Stream Set Key Region Camera Set VCA OSD Storage Management	Stream Set Stream General Set Resolution Bit Rate	1st Stream 720P(1280x720 1024)	~	
Network Management	bit Rate	1021			
User Management	Frame Rate	10		\sim	
Advance Set	N/P Mode	PAL		\sim	
	Priority	Frame Rate		\sim	
	Video Quality	Good		\sim	
	I-Frame Interval	10			
	Encoding Mode	Constant Bit Ra	te	\sim	
	Smooth Video Streaming			5	0 [Clarity<->Smooth
	Advanced Set				



Tiandy				
Live View	Playback	Log	Configuration	
✓ Audio Video Set Stream Set Key Region	Stream Set			
▶ Camera Set	Stream	1st Stream		~
▶ VCA	▶ General Set			
▶ OSD	R Advanced Set			
Storage Management Network Management	Corridor Mode	OFF		\sim
User Management	Video Encoding	H.264		~
Alarm Management Advance Set	S+	Disable		~
	Extended Code	baseline		~
	Channel Type	Local Channel		~
	Encrypt Type	Not Encrypted		~
	Encrypt Password			
	Password Confirm			
	Electronic Image Stabilization	Disable		~
	svc	Disable		~
		Save	Import Export	

In Advance Set adjust the Video Encoding - H.264 and Extended Code - baseline.

Note: If a camera is already included into the controller but the settings are not configured properly use the following steps: Remove the camera from the controller. Configure the camera settings. Install the camera to the controller.

Once these configurations are done, Tiandy, HiLook, Provision or Hikvision cameras can be added in the TouchWand application. Camera units are located in the Units tab. To add a new IP camera in the controller, first click on the **Add Unit** button located in the Units tab. In the new screen that will appear, select the type of the unit, in this case IP camera (ONVIF) and then click on the **Pair** button.



Pair New Unit			×
	7-Wave unit	~	
	Z-Wave unit KNX unit		
	IP camera (ONVIF) PIMA sensor		
Cancel			Pair

Once the type of unit is selected, you must choose between two types of cameras – Local or Remote.

Local Cameras

If a Local camera is being installed, then you must enter its username and password.

Pair New Unit		×
	IP camera (ONVIF)	
This	Local v	
Username:	Password:	
Cancel		Pair

After entering the credentials, click on the **Pair** button. Once the unit is paired, configure the unit by assigning the camera to a room and/or group, choose an icon and name. Then click on the button **Done**.

onic type		
camera	\odot	Assign to group
		Room 2
Unit name		Lights in hadroom
Camera #1		
		Mantis room #9
Assign to room		
Touchwand Office #9 & Offic	e #5 🗸	+ <u>New group</u>
Touchwand Office #9 & Offic	e #5 🗸	. <u>HEILOUGK</u>



The newly added IP camera is now visible in the Units list.



Remote Cameras

If a Remote camera is being installed you need to enter the following details:

- Username
- Password
- IP address
- HTTP Port
- RTSP Port

Pair New Unit			×
	IP camera (ONVIF)	~	
	Remote	~	·
Here we gonn	Please fill a generate rtps URL in this form param=value&	the fields: n: rtps://username:passwo param1=value1	rd@ipadress:port?
admin		•••••	
213.57.116.4			
101		1011	
Cancel			Pair

After clicking on the **Pair** button, the remote camera will be paired and visible in the Units list.

Deleting a camera

In the Units list select one camera and click on the \Box icon.



Units				Manage Unit Groups
Filter Uni	ts 🗸 Filter by name	- t		Choose an icon
03	Switch 1 Touchwand Office #9 Office #5	Delete	×	ït
0	Switch 2			
03	switch	Are you sure you this u	u want to delete unit?	
	Camera #1 Touchwand Office #9 Office #5			
	Camera #2		Remove	groups
	+ Add Unit		Mantis room 4	#9

Click on the **Remove** button in the new screen. The unit will then be removed from the list and the controller.



Scenarios

Smart home systems are measured by their simple operating ability in scenario construction. TouchWand has a user interface that allows you to control the creation of various situations in a simple and friendly way. In addition, the system includes the possibility of integrating Jewish and Muslim calendars to your scenarios.

(CTOUCH WAND								Status	20)
	Scenarios										
,	User Triggered	View All	Dynamic			View Al	Persist	tent			
	ARM ALARM SY	Run	Away from office	Run	Close all lights v	V Run	۲	Day		Ø	
		Ċ	Ø	Ċ	n ti ti	Ċ	0	Night		Ø	
			Weekend Notific	Run			0	Away		ø	
	Add User Scena	rio	d (i) e	亡	Add Dyna Scenar	amic io	0	Home		Ø	
•••	Dashboard		Rooms	Scen	न narios	Units		Set	ð. tings		

A scenario is a command that includes one or more units, or one or more groups, in a scheduled run, or a manual session.

The system enables the definition of several types of scenarios:

• User Triggered - intended for manual operation. Using this type of scenario, the user is able to perform fixed actions that are not at a fixed time. For example, shutting down general or closing blinds. The scenario will begin to run only as soon as the button is turned on.

• **Dynamic Scenario** - a scenario that is performed according to predertimned conditions, such as time, sequence of events etc.

• **Persistent scenario** - a scenario that is performed in a predetermined status setting – Day, Night, Away and Home.



Persistent scenario

Persiste	ent	
۲	Day	
0	Night	
0	Away	
0	Home	

Persistent scenarios can be created and edited by clicking on the \square icon. Once clicking on this icon, a new screen will appear. Here you can define the actions connected with it. By clicking on the **Submit** button, the scenario is going to be saved.

See **Dynamic scenario** for details on the available conditions and actions.

Dynamic scenario

A dynamic scenario is a scenario that is repeated frequently and includes a diverse set of conditions and actions.

To set up a dynamic scenario click on Add Dynamic Scenario.


CTOUCH WAND					Status	
Scenarios	w All Dynamic		View All Per	rsistent		
Add User Scenario	Add Dyn Scenai	amic io		 Day Night 		
				🔿 Away	۵	
				O Home	۵	
Dashboard	Rooms	Scenarios	Units	() Sett	ings	

On the following screen you'll be able to set the scenario's name, conditions and actions.

	CH ID			Status
1	Name			
·	Scenario name:			
2	Condition			
	When undefined V			
	Time Wall Panic Button Sensors Light	Alarm		
	is:			
	+ Add another			
3	Action			
	undefined V			
			(a) (4) (4)	
1	Dashboard Rooms	Scenarios	Units	ک Settings

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The following conditions can apply:

2	Condition	
	When undefined V When wall Panic Button Sensors Lights Alarm	
	is:	
	+ Add another	

By clicking on **Add another** you can set more then one condition. For example, for a morning scenario, you can set a time condition. For "empty office scenario" you can set a time condition combined with sensor condition (no movement for the last 15 minutes). The relationship between the conditions can be either "And" or "Or".

2	Condition						
	When						
	Image: Wall Controller Wall Panic Button Sensors Lights Alarm						
	is:						
	Hour V 09:30 O						
	And Or						
	And						
	Image: Wall Controller Wall Panic Button Sensors Lights Alarm						
	is:						
	Risco ✓ Home armed(ev ✓	亡					

After defining the condition, you can set the actions for the scenario.



3	Action												
	undefin	ned 🗸											
	Lights	Shutters	blinds	group	Dimmers	Thermostat	TV	Notifications	4 Activate	4 Deactivate	Alarm	Camera	
									Scenario	Scenario			
		~											
	+ Add an	other											

The actions can be applied for any kind of unit in the system (as seen in the pictutre). In addition, you can define a notification to be sent by e-mail. By clicking on **Add another** you can set more than one action for each scenario.

For each action chosen, you can set a delay that starts after the scenario's condition is triggered. For example, for a "morning" scenario, you can set the blinds to open up to 50% once the scenario starts, and after 15 minutes the bedroom lights will turn on.

3	Action	
	undefined V	
	Lights Shutters Binds group Dimmers Thermostat TV Notifications Activate Scenario Camera	
	shutter bedroor V Up V at 50 % at V	
	And	
	undefined V V Lights Shutters blinds group Dimmers Thermostat TV Notifications Activate Scenario Camera	
	switch bedroor V On V set Delay V at 15 min	

After definening the required details, press **Submit** at the bottom right of the screen.

Then, to activate the scenario, click on the slider next to its name. When the slider is green, the scenario is activated.





User triggered scenario

User triggered scenarios perform prefixed actions. For example, as seen in the picture below, a scenario that closes all the blinds. By clicking on the **Submit** button this scenario is saved.

< Back		Scenario
1	Name All blinds down	



2	Action				
	Lights Shutters blinds	C O (group Dimmers	AC TV Notifications	4 Activate Scenario Activate Scenario	
	All blinds V	wn 🗸			
	+ Add another				
				Cancel Submit	

Build group scenarios

Our system of units can be made up of another subject - groups.

To set a group mode, you must build a group in the units section in advance (see units section), and then you can create a scenario for this group of units.

Copy scenario

If we build a complex scenario, and we want to change this scenario in one session, there is no need to rebuild everything. You can make a COPY of the scenario itself and then move on.

Delete scenario

You can only delete a scenario when connected locally.

To delete a scenario press on the \Box icon and then press **Delete** on the screen that pops up.





Settings

General Settings – General Configuration

When setting up the system, it is important to set the temperature unit (Celsius or Fahrenheit) and the system language – Arabic, English, French, Hebrew, Magyar and Russian. The system also supports different religions calendars like Jewish and Muslim. Setting the calendar is important for defining different dynamic holiday based scenarios.

GTOUCH WAND					Status
General	Log Data				
Reports	Longitude:				
Network Configuration	General configu	ration			
Energy Options	Temperature	Celsius	~		
Users	Language*	English	~		
Firmware	Calendar		~		
Backup	Controller name:				
Z-Wave	Proxy ip	cloud.touchwa	nd.com		
Alarm	Proxy server port	443			
Bitwise	Proxy client port				
AcWand					
Dashboard	Roor	ns	Scenarios	Units	O Settings

Every user can then change the calendar, language and temperature unit on their own!



If the coordinates are not defined, the system will not be able to run time scenarios properly or not at all!



General Settings - A look at the system log

In the Settings sub-menu click on the General tab. You can select the amount of log data that will be displayed -1 month, 3 months, 6 months or 1 year. After selecting it, by clicking on the **Show logs** button, you can see the logs. In this selected period, there is a possibility to filtrate the data by the start and end date from the calendar at the top.

CTOUCH WAND				Status 🤌 🎽 🕐
General	< Back			
Reports	Projects 1	~	Start Date	End Date
Network Configuration	Unit	Room	Timestamp	Event
Energy Options	Projects 1	Projects	29.07.2019 18:28:39	Node is down
Users	Projects 1	Projects	29.07.2019 18:28:39	Off
Firmware	Projects 1	Projects	29.07.2019 18:28:37	Node is alive
Backup	Projects 1	Projects	28.07.2019 18:39:07	Node is alive
Z-Wave	Projects 1	Projects	28.07.2019 18:39:06	Node is down
Alarm				>
Bitwise				
Dashboard	Rooms	Scenarios	Units	O Settings

To check the operation of the system or to verify that certain conditions are working properly, the system provides information about all the activities that occurred.

System Log Overview:

You can see the unit type (detector / shutter / lighting) in the left column - Unit. If the unit is assigned to the room, you can see the division into rooms in the second column on the left – Room.

The last activity of the system is in the third column on the left – Timestamp.

In the right hand you can see the event or type of change / activity taking place at any given moment in the same unit that we review – Event.

Skilled installers will test the operation of the various units and situations after building and operating the different situations.

General Settings – Reports

In the Settings sub-menu click on the Reports tab. The application can create three different reports:

• Energy consumption and energy cost



- Energy consumption
- Energy cost

CTOUCH WAND				Status 🥕 🎽 🖞
General	Reports			
Reports	Energy Consumption & En	ergy Cost	✓ Last 7 Days	~
Network Configuration	Energy Consumption & Energy Consumption Energy Cost	nergy Cost		
Energy Options				
Users				
Firmware				
Backup				
Z-Wave				
Alarm				
Bitwise				
Dashboard	Rooms	Scenarios	Units	Settings

These reports can be applicable for the last 7 days or last month.

General Settings - Network Configuration

Network configuration can only be performed by users with technician privileges!

This configuration can be performed in the Settings sub-menu under Network configuration.



CTOUCH WAND				Status 🏂 🏠
Settings				
General	Network Configuration			
Reports		Internet: connected IP address:		
Network Configuration	Connection Status	 Cloud: connected MAC: 18rd e:7ar14:r19:5e Interfaces: eth5 : 192:163.63.124 		C Refresh
Energy Options				
Users	Internet			
Firmware	How does Wanderfull connect to Automatically configure (r Manually configure (advan	o the internet ecommended) iced)		
Backup	Ethernet	~		1
Z-Wave				
Alarm	LAN DHCP Server: () ON	O OFF	Vireless Wifi AP: ON	O OFF
Bitwise	Start address: 192.168.0.	3	Chanel: 1	~
Coolmaster				
Dashboard	Rooms	Scenarios	Units	O Settings

It is important to enter the SSID that was located on the back of the controller and the start and end address for the LAN. After entering all other necessary data click on the **Save & Apply** button.

In the Network configuration submenu, additional information for the connection status

- MAC address, Local IP and Remote IP address is added. There is also a possibility to refresh the data by clicking on the Refresh button.

General settings - Green construction and energy consumption

TouchWand management system is designed to provide data on energyconsumption in the building or at home.

To use this feature, the end units must include the option to provide energy consumption data.

There are several processes to follow:

• On the energy screen, select the setting - Energy Options



CTOUCH WAND				Status 🥕 🎽 (
General	Energy Options			
Reports	Show energy meter			
Network Configuration	0	Night hours start		
Energy Options	Price of kWt*H / day	00am V		
Users	Billing start date			
Firmware	Consumption anomaly			
Backup	When consumption is over avera	age with		
Z-Wave	50	%		
Alarm	SMS V	email		
Bitwise	And shut down units	All Units 🗸		
Dashboard	, ☐ Rooms	Scenarios	2 Units	(A) Settings

• By checking the **Show energy meter** box, all power supply updates will appear on each unit at the top right of the screen.

General Settings - Add a user

To add a user, go to the Settings sub-menu and click on the Users tab. A screen as seen in the picture below will appear.

Add User	×
Jsername:	
Password:	
Confirm password:	
Choose role:	
User	~
Cancol	Add

After entering necessary data like username and password, the user should choose user role. The management system supports several types of users:

A user with full access in all set up screens in called a **TECHNICIAN**. This user can add and edit network configuration, the Z-Wave configuration and the KNX.



A user with manageability and access to the setup screens. This user is defined in the system as an **ADMIN**.

A user who is only able to use the system without being able to make changes in settings or to construct different situations and scenarios. Such a user is called **USER**. In the following table is a detailed description of the permissions for every type of user.



	User	Admin	Technician	Admin cloud	Technician cloud
Dashboard					
Add favorites	n	у	У	у	у
Add fav scenarios	n	y	У	У	y
Rooms					
Add room	n	у	У	У	у
Edit room	n	У	У	У	у
Delete room	n	У	У	У	у
Scenarios					
Add user scenario	n	у	У	У	у
Add dynamic scenario	n	у	У	У	у
Edit scenario	n	У	У	У	у
Delete scenario	n	у	У	n	n
Activate scenario	у	У	У	У	у
Run scenario	у	у	у	У	у
Edit persistent scenario	n	у	У	У	у
Units					
Add unit	n	У	У	У	у
Edit unit	n	У	У	У	у
Delete unit	n	У	У	n	n
Control unit	у	у	У	У	у
Run unit	у	У	У	У	у
Add unit group	n	у	У	У	у
Delete unit group	n	у	у	n	n
Settings	disabled				
General		у	У	У	у
Reports		у	У	У	у
Network Configuration		n	у	n	у
Energy Options		у	у	У	у
Users		User + Admin	у	User + Admin	у
Firmware		у	у	У	у
Backup		у	у	у	у
Z-Wave		y/n	у	y/n	y/n
Associations		у	у	у	у
Update Z-Wave					
network		У	У	У	у
Reset Z-Wave network		n	У	n	n
Remove by node id		У	У	n	У
KNX		n	У	n	У
ALARM		n	У	n	У



General Settings-Cancelling authorization process from specific IP ranges

Cancelling authorization process from LAN is visible and available for editing only for users with technician and admin privileges!

You have the possibility to cancel authorization process from specific IP ranges, so you can stay logged in without disconnecting after 30 minutes without activity. To enable this option in the TouchWand application go to the Settings tab. Click on the General sub-menu. You will see the **Authorization** section.

(Cro	UCH				Status
Genera		Log Data			
Reports		~	Show Logs		
Network	Configuration				
Energy	Options	Authorization			
Users		Enable cookies			
Firmwa	re	Save			
Backup		Location			
Z-Wave		Country:*	~		
Alarm		Timezone:*	~		
Bitwise		Set time manually			
AcWand	ł				
	Dashboard	Booms	Scoparios		O
	Dashbudiu	ROOTIS	Scenarios	Units	Settings

Check the box by **Enable cookies**. After clicking the box, a new filter will apear – **Range**, from which you can select a specific IP range or choose the option **custom** and write down the IP address. Then click on the **Save** button.



~	•	
50	ttı	nσc
20	ιu	IISS
		0

0	
General	Users Add User
Reports	techf8dc7a1422e6 User rights: User v Change password
Network Configuration	Authorization
Energy Options	
Users	Enable unexpired cookies Range custom in address
Firmware	Save
Backup	

Only while logging into the application from this range the automatic log off will be disabled.

General Settings - Update firmware version

When connecting to the TouchWand application you'll receive a notification header on the dashboard if a FW update is available.

The header will include two links. One link is "What's new", which will refer you to the new features in this version in the TouchWand website.

Current version: "195 " Updated version: "196". It is recommended to update the version via settings. What's new.	×
Favorites	Scenarios 🛛
+ Add your favorite units	Away Night Day Home

The other one will redirect you to the settings page where you can perform the update.



Settings

General	Firmware
Reports	Firmware version: 195 Update FW
Network Configuration	
Energy Options	
Users	
Firmware	
Backup	

By clicking on the same button there is an option to update each secondary controller from the primary controller. During this process the application generates another notification.

Please wait	\times
Upgrading firmware. Do not close or refresh the window. It will be refreshed when upgrade is over	

If you have an updated version, the system displays the update and the latest version as seen in the picture below.

CTOUCH WAND		Status	2	ወ
General	Firmware			
Reports	Firmware version: 196 - Up to date Update FW			
Network Configuration				
Energy Options				
Users				
Firmware				

You can get information about the update and choose whether to do it now or in the future. Version updates refer to several options:

- Security updates made from time to time.
- Uploading new products to the management system.



- Connection and support for third party products such as alarm systems, air conditioners, AV and more.
- Adding support for Z-Wave end products.

	This service may incur an additional charge!
!	This service may incur an additional charge!

General Settings - Daily and manual backup

The backup tab is located in the Settings sub-menu.

CTOUCH WAND				Status 🏂 🖞
General	Backups			
Reports	Create backup to Cloud	Create backup to USB	Restore from USB	
Network Configuration	Date	Controller ID		
Energy Options	Sun Aug 04 2019 03:04:05 GMT+0300 ((שעון ישראל (קיץ)	f8:dc:7a:14:22:fa	Restore	
Users	Sat Aug 03 2019 03:04:02 GMT+0300 ((שעון ישראל (קיץ))	f8:dc:7a:14:22:fa	Restore	
Firmware	Fri Aug 02 2019 03:04:17 GMT+0300 ((אַרָעון ייַשראל (גייַ))	f8:dc:7a:14:22:fa	Restore	
Backup	Thu Aug 01 2019 03:03:56	f8:dc:7a:14:22:fa	Restore	
Z-Wave	GMT+0300 (שעון ישראל (קיץ))			
Alarm	Wed Jul 31 2019 03:04:00 GMT+0300 ((שעון ישראל (קיץ))	f8:dc:7a:14:22:fa	Restore	
Bitwise	Tue Jul 30 2019 03:04:02 GMT+0300 (שעון ישראל (קיץ))	f8:dc:7a:14:22:fa	Restore	
			3	0
Dashboard	Rooms	Scenarios	Units	Settings



Once the system is connected to the cloud services, every day at 3 AM a complete backup procedure is performed automatically for the entire management system.

The purpose of the backup is to create an option to restore the system settings and units from the cloud.

If a unit is damaged for anyreason, the installer can reach the customer's home with another unit, and using a name and password to upload the whole system within a short period of time.

The data backed up includes the names of the units, rooms and groups defined in the system, the scenarios that were built, the appropriate version, the client updates and alerts, user names, and user types in the system hierarchy.

Attention should be paid to a customer who chooses to enter using a fixed IP address, and not via cloud services, it is required to back up the controller via USB backup. In this case, uploading the latest version depends on the client and his backup time.

In the application this can be done by clicking on two buttons as seen in the picture above: Create backup to Cloud and Create backup to USB.

If you choose for example the option **Create backup to Cloud**, one warning message will appear in the application.



By confirming this message, another one is going to appear while backing the controller.



Backuping controller to Cloud. Do not close or refresh the window. It will be refreshed when restore is over

Uploading from a backup can be done when installing a new controller for your home or office network. Then enter the ADMIN username and password.



You should then go to the settings page and enter the BACKUP sub-menu. Click on the Restore from USB option.

List of backups that have been saved in the system in recent months can been seen in this interface. Access the appropriate time and restore. After uploading the updated file, you can continue working.



IMPORTANT NOTE FOR INSTALLERS - Do not leave the customer's site before backing up the system to the cloud! You've finished setting up your home perform a neat backup.



General Settings - Z-WAVE System Setup

About the Z-Wave system

- 1. Z-WAVE is the most popular smart home system standard in the world! Over 400 companies in the world are using this standard. It is now the only standard in the wireless field.
- The system operates at an independent wireless frequency according to the Ministry of Communication standard - 916MHZ for Israel or 868,42MHZ for Europe (does not operate in the WI-FI network environment which is considered a busy network).
- 3. The standard Z-WAVE ensures customers two important issues a system with a variety of suppliers and the possibility to purchase equipment from other sources and from the Internet.
- 4. The method of operating the system is in the form of MESH meaning that each unit operates autonomously without the need for a management system and activates the other switches in the system.
- 5. There is no need for a central system to operate the house in a smart way. The system enables independent operation of each unit independently of other factors.
- 6. A power failure does not affect the system and the units because each unit has internal protection.
- 7. The management system enables control of the application, including management of different calendars and languages.

The Z-Wave submenu is visible and available for editing only for users with technician/installer privileges!

Associations

When opening the Z-Wave Settings, the user is able to create associations from the **Associations** tab.

Associations are made directly between one device and another - it can control one device or a small 'group' of other devices (typically 5 or 6 units).

The advantage of using Associations is that commands are sent directly from the controlling device (source) to the controlled device(s) (targets), and not via the central Z-Wave controller, or in this case - the Wanderfull hub. This can save time when performing actions that involve a few units set up in close proximity, in an area far from the controller.

Create an association

- Enter to Settings \rightarrow Z-Wave
- Choose source unit, do not choose source unit that ends with "_root"!



CTOUCH WAND				Status 🏂 🖞
Settings				
General	Z-Wave Settings			
Reports	Association Adv	vanced WallWand JSO	N Editor	
Network Configuration	Source unit Assoc 4			
Energy Options	Group ID Kitchen R&D 1_root R&D 1			
Users	Clear All As Projects 1_root Projects 1 Projects 2			
Firmware	Assoc 3_root Assoc 3 Stottland			*
Backup	Assoc 4 Assoc 1_root R&D 1 Assoc 2(7) Projects 1 Estructure		Kitchen R&D 2	
Z-Wave	Projects 2 Entrance Projects 2 Entrance Hallway Away(2)	<i>~</i>		
Alarm	Stottland R&D 3_root	·		
Bitwise				
			S.	0
Dashboard	Rooms	Scenarios	Units	Settings

• Choose the units you want to associate with the source unit, and click on them

CTOUCH WAND				Status 🤌 🏷 👌
Settings				
General	Z-Wave Settings	Ivanced wallwan		
Reports	Source unit Assoc 4			
Network Configuration	Group ID			
Energy Options	2			
Users	Clear All Associations			
Firmware	Kitchen			•
Backup	R&D 1 R&D 2	_		
Z-Wave	Projects 2 Assoc 3		¢	
Alarm	Stottland Assoc 1	-		
Bitwise	Save			l
			2	0
Dashboard	Rooms	Scenarios	Units	Settings
Dashboard	Rooms	Scenarios	Units	Settings

• The target units will transfer to the right box



CTOUCH WAND				Status
Settings				
General	Z-Wave Settings		editor	
Reports	Source unit Assoc 4			
Network Configuration	Group ID			
Energy Options	2			
Users	Clear All Associations			
Firmware	Kitchen		R&D 2	•
Backup	R&D 1 Projects 1			
Z-Wave	Assoc 3 Stottland			
Alarm	Assoc 1 Assoc 2	•		
Bitwise	Save			
				0
Dashboard	Rooms	Scenarios	Units	Settings
	·			

• When finished, click on the **save** bottom

Advanced Z-Wave settings

In the Advanced tab, you can update/heal and reset the Z-Wave network. There is also a possibility to remove a unit, by entering the node ID in the Remove by note ID field.

NETWORK UPDATE – this stage takes place after all the end units have been defined in the structure and after the functionality of each one has been tested. The purpose of this procedure is to optimize the communication between the management unit and the end units. The duration of the procedure varies from site to site and on average takes about 15 minutes. While the procedure is being performed, do not touch/change physically and/or virtually the endpoints for the success and efficiency of the process.

NETWORK RESET – this is a sweeping reset of all Z-WAVE units on the network, including the disconnection of existing units from the controller only! Once we want to reuse these units, a local RESET must be performed for each unit at the endpoint. This means that even if NETWORK RESET is done and we want to go back to the previous step, you can load an existing backup in the system and the endpoint units can communicate immediately with the management unit.

JSON Editor

In the Z-Wave sub menu you can see the **WallWand JSON Editor** button.



Settings					
General	Z-Wave Settings				
Reports	Association	Advanced	WallWand JSC	PN Editor	
Network Configuration	Source unit: AlarmSer	sor ¥			
Energy Options	Group ID:				
Users	Clear All Associations				
Firmware	*				•
Backup	AlarmSensor Thermostat 1		1		
Z-Wave	Switch 2R Switch 3				
Alarm	Switch 4 Switch 5				
Bitwise	WallController 6		•		
Coolmaster					
Dashboard	Rooms	Sce	narios	Units	(O) Settings

When clicking on this button a new tab will automatically be opened in the browser which leads to the tp_json editor. This editor enables to create the WallWand display. Further explanation on this editor can be found in the WallWand user manual.

cloud.touchwaha.com/tip_solt/index_st.html	
ENGLISH - MAIN SCREEN -	
LOAD JSON LOAD IMAGES CLEAR BACKGROUND	
UPLOAD ICON PREVIEW SUBMIT	



BitWise System Setup

The Bitwise submenu is visible and available for editing only for users with technician privileges!

General	Bitwise Settings	
Reports	Bitwise	
Network Configuration	Server Status	; Refresh
Energy Options	Client Connected	; Refresh
Users		
Firmware	Enable connection Set "0.0.0.0" to access connections from any ip and "127.0.0.1" for local connections only"	
Backup	Listen on IP 0.0.0.0 V	
Z-Wave	Port 7443	
KNX	Max Connections 2	
Alarm	Save	
Bitwise		

The Bitwise settings can be added and edited in the Settings tab. You can check the server status and client's connection by clicking on the **Refresh** as seen in the picture above. When clicking the Enable connection checkbox, you will be able to connect with the BitWise. In the **Listen on IP** field, enter the wanted IP address. By entering 0.0.0.0 the you can access connections from any IP address. use 127.0.0.1 for local connections. The controller creates a TCP server and listens to the clients on the port specified in the settings (7443 in the example above).

BitWise AV Controllers are designed for customizable control of sub-systems at home or any other location. In case of BC2 controller or BC1 controller, the client is the bitwise controller itself and the max clients number in settings of our controller can be set as 1 client. In case of BC4 controller the max number of connections can be set by maximally permitted simultaneous connections from your mobile devices to the Wanderfull controller. The number of connections should be entered in the **Max Connections** field.

The module or script Device from BitWise is designed to enable Bitwise users to manage the electrical circuits and scenarios defined in the Wanderfull controller.

To set up the script Device the user must configure controller's IP address, port and TCP protocol. When the Wanderfull script Device is installed on BC4 controller for example, you should also set the protocol to TCP GUI and set up SERIALPORT1 to GUI Two-Way (TCP).



Devices that perform functions of the script must have the following name format (two fields): <ID>_<NAME>

- The device name can include only an ID number, without the name.
- The ID number must be a real ID number corresponding to unit ID number in the Wanderfull controller.
- The unit ID and unit name must be separated by underscore character ("_").
- The name field can contain any asci characters (there is no validation on name field).

Scenario functions

- Persistent and user scenarios can be triggered only by an 'activation' function.
- Dynamic scenarios can be only activated or deactivated. Dynamic scenario will not be triggered by an 'activation' function.

Feedback

There are four kinds of feedback for each unit – value, text, state and name.

- Value feedback: current value of the unit (in decimal percepts, in case of binary switch it will be 0 or 255).
- Text feedback: custom text label that is sent from the controller.
- State feedback: 1 or 0 corresponding to unit current state.
- Name feedback: current name of the unit from the Wanderfull controller.

KNX System Setup

The KNX submenu is visible and available for editing only for users with technician/installer privileges!

KNX Settings		
Advanced		
Connection St	tatus Connected to 224.0.23.12 State: idle Last action: Wed Apr 17 2019 09:20:21	C Refresh
	Membershin reports : (1)	
Multicast State	Source: 192.168.1.40 Last report: Wed Apr 17 2019 09:20:06	C Refresh
Enable conne	ection	
Connection Type	Multicast 🗸	
Check Connection	None ~	
Units Response Timeout	None 🗸	
Physical Address	0-15 - 0-15 - 1-255	
	Save	

- In the Settings page, KNX tab, you can get the KNX status information.
- There is an option for the controller to check its connection to the KNX IP router and to ping units at specific intervals.



- There is an option now to enter physical address of the KNX IP router. When no address entered, the default will be 15-15-15.

When connecting the KNX system, the connection can be activated in two ways:

- A direct connection in which the KNX IP address is required.
 - A direct connection can be required when some of the home internet routers/switches block the multicast messages inside the LAN, and the best solution is direct connection.
- Connection by means of a multicast. The multicast connection type is a connection in which the KNX router listen/sends events to specific reserved IP address, additionally to direct connections (if they exist).

We recommend that the standard installer use the direct connection setting and not allow the system to find the IP-KNX unit on its own.

If the connection with KNX does not reflect a unit's status, change the connection type from multicast to direct, adding the KNX IP adaptor address in the IP field.

KNX Settings			
Advanced	d		
Connection	Status • Con	nected	C Refresh
Enable con	nection		
Connection Type	Multicast	~	
	Save		
KNX Settings Advance	d		
Connection	Status 🕒 Co	nnected	${\cal G}$ Refresh
Enable con	nection		
Connection Type	Direct	~	
IP	192.168.1.131		
	Save		



KNX thermostat panel implementation

The KNX thermostat panel can be visible by users with admin and technician permissions!

New KNX unit type – thermostat panel is implemented in the TouchWand application. The panel is associated with one of the AC units (thermostats) in the controller and can listen to specific KNX group addresses in order to control the AC unit from the panel. The controller will send any changes in the associated AC unit to the panel, through the same group addresses.



PIMA Alarm system

The Alarm submenu is visible and available for editing only for users with technician privileges!

Î

<u>ATTENTION!</u> If the customer is using PIMA mobile application, the alarm system cannot connect to the Wanderfull controller. The customer should choose between the two. Connecting the alarm system allows the user to create scenarios based on the alarm system and sensors status on top of showing statuses, arming and disarming the system.

The security system PIMA is an alarm system to home automation systems. Captain 8 is an 8-16 zone advanced intruder alarm system for medium-sized commercial and residential installations. Starting with eight security zones, the Captain 8 system is easily scalable, using both hardwired and wireless technology to meet growing security needs.

The Hunter-Pro Series offers a top-of-the line hardwired/hybrid security alarm system for medium to large residential and commercial facilities.

Using PIMA's Installation Wizard, installers benefit from easy system setup with intuitive, menu-driven system programming. For added convenience, users can arm or disarm Hunter-Pro remotely with PIMA's smartphone app. Offering a choice of multiple communication channels, including GSM/GPRS, SMS, TCP/IP, PSTN and long-range radio, Hunter-Pro can be integrated into virtually any existing infrastructure. The highly-versatile intruder alarm system can be expanded with wireless sensors to a total of 144 security zones.

Get Started

Log in the application and connect the alarm system

 Connect the alarm system with the controller. This can be done directly or through a local network.

If connecting directly - use the supplied cable, SA-232 converter and LCL-11A adaptor. If you connect through a local network (LAN) use the net4pro-i network card.

When entering names, digits and characters in the alarm system use the table below.
 Every key in the unit corresponds to the described letters and numbers.



	No. of p	oresses						
Кеу	1	2	3	4	5	6	7	8
[1]		,	?	!	1			
[2]	А	В	С	2				
[3]	D	Е	F	3				
[4]	G	Н	Ι	4				
[5]	J	К	L	5				
[6]	М	Ν	0	6				
[7]	Р	Q	R	S	7			
[8]	Т	U	~	8				
[9]	W	х	Y	Z	9			
[0]	Space	Zero						
[*]	()	/	*	:	-	+	#
[#]								
[END]	Cancel/Ret	urn to prev	vious scre	en/s witho	out saving			
[NEXT]	Next char.							
[BACK]	Prev. char.							
[ENTR]	Save							

Setting the serial port



Set the serial output use, regarding the connection to the MS (monitoring station). The MS can be connected locally, using RS-232 cable, or remotely, through the net4pro IP interface. It can use a home automation ("Smart home") or PIMA proprietary protocol.

After setting the setting up the alarm system' you can connect it to TouchWand's system following these steps:

- Then log in to the TouchWand application from the following link: <u>http://cloud.TouchWand.com/login.html?path=/</u> enter user credentials and click on the **Submit** button.
- Open the application and select the sub-menu **Units** located below the dashboard.
- The PIMA alarm will be visible with the rest of devices in the Units section.



 Unlike other units, there is no need for pairing this unit. Just click on the Add unit button and select what kind of unit will be added in the first field, in this case PIMA sensor (as seen in the picture below). Enter the rest of the data that is needed - type, sensor name and zone and click on the Pair button.

PIMA sensor 🗸 🗸	
Туре	
Motion sensor 🗸	
Sensor name	
PIMA Motion	
Zone	
1	

Once this is done, the unit is added to the controller.

The PIMA alarm has flood, motion, magnet and smoke sensors. Every sensor reports via the alarm application to Wanderfull about it's status. The system identifies the statuses activates them accordingly (when the alarm system is triggered/neutralized).



Note: Please disarm and arm the system to make sure that the system is responsive and working correctly with the Wanderfull controller.

Click on the Settings tab located at the bottom right of the application. PIMA Alarm settings can be added and edited in the Settings tab.

First, the user should check the box **Enable connection**.



CTOUCH WAND				Status 🧏 🎽
Settings				
General	ALARM Settings			
Reports	PIMA	RISCO		
Network Configuration	Enable connection			
Energy Options	Save			
Users				
Firmware				
Backup				
Z-Wave				
KNX				
Alarm				
Bitwise				
Dashboard	Rooms	Scenarios	Units	Settings

After enabling connection, you will be able to see PIMA's status – connected and disconnected. You can also reconnect, arm or disarm the alarm. If enabling a connection, you should enter the following parameters:

- Type of the PIMA alarm in the PIMA type filter
- IP address
- Port
- Password and then click on the **Save** button.

General	ALARM Settings				
Reports	PIMA Status	 Not connected 			
Network Configuration	Arm Homel He	ome2 Reconnect	Disarm		
Energy Options	_				
Users	PIMA type	832/896	~		
Firmware	IP:	192.168.1.89			
Backup	Port	10001			
Z-Wave	Password	·····			
KNX	opioad Cov	Save	liusen		
Alarm					I
Dashboard	Rooms	5 5	Gcenarios	Units	(Q) Settings



RISCO protocol

Connecting TouchWand products to RISCO Alarm

RISCO Alarm system connection to Wanderfull controller is visible in the **Alarm** submenu under **Settings** tab and available for editing only for users with technician privileges!



<u>Note:</u> To enable working with Risco alarm application in parallel with Wanderfull application Risco alarm should have multi-socket card.

The user with Administrator permissions will be able to arm, disarm and reconnect the unit as seen in the picture below.

After the you've finished installing the alarm system, follow these steps to allow connection to the TouchWand system:

- 1. Make sure Risco has Multi-Socket
- 2. In the user keyboard, press the menu button
- 3. Enter your password
- 4. go to Activities \rightarrow config SW \rightarrow CS connect \rightarrow via IP
- 5. Press 'V'

To install Risco click on the **Settings** tab located at the bottom right of the application. RISCO settings can be added and edited in the Settings tab under the **Alarm** sub menu.

CTOUCH WAND				Status 🥕 🎽 🖞
General	ALARM Settings			
Reports	PIMA	RISCO		
Network Configuration	Add risco			
Energy Options				
Users				
Firmware				
Backup				
Z-Wave				
Alarm				
Bitwise				
Dashboard	Rooms	Scenarios	Units	(O) Settings

Click on the **Add Risco** button. At this moment RISCO alarm system is not connected and its status is Disabled not mounted. After clicking this button, check **Enable connection box**. You



should enter the **IP address, port, password** and **upload** a **CSV** file. Then click on the **Save** button.

CTOUCH WAND			Status 🖗 🤰
Settings			
General	ALARM Settings		
Reports	RISCO Status	Disabled not mounted	
Network Configuration			
Energy Options	Am Dis	Reconnect	
Users	Enable conn	ection	
Firmware	IP	192.168.1.77	
Backup	Port	1000	
Z-Wave	Password Upload CSV	Choose File No file chosen	
KNX		Sava	
Alarm			1
Bitwise			

Once connected, Risco initial status is disarmed. To arm the alarm, click on the **Arm** button located below the unit's status.

Every time you would like to disarm the alarm, you must enter a password. For example, in the Setting tab click on the **Disarm** button. Another screen appears where the password should be entered.

- Disarming Risco in the Settings tab



- Disarming Risco in the Dashboard

	Disarming!	
		cenarios 🖉
qa Risco disarmed		Right Cury Horne
	Carcel	ок



Once the unit is added, Risco will appear in the Units list with the rest of the devices. You will be able to control the unit, view its status (disarmed or armed), assign it to a room, a group or mark as favorite.

) KN	IX DIMM 1	Unit name (ID: 295)	Control unit
	IX DIMM 2	TP-3 SW 1	ON OFF
CL	sw 1	In room: Not assig V Mark as favorite	
GL	SW 2		
Ris qa	ico	Status	Present in groups
		05.07.2018 15:59:23 Node is alive	

Adding RISCO sensors

In the **Units** tab click on the Add unit button to add a Risco sensor. In the new page, select the Risco sensor then select the type (RISCO Doors & windows, RISCO motion sensor, RISCO Flood sensor, RISCO Smoke sensor), name and zone. Then click on the **Pair** button.

>
Dair

After the Risco sensor is added, in the **Units** tab the you can see the unit's status. In the example below, the door sensor status log changes whenever the door is opened or closed.



CTOUCH WAND					štatus 🚧 🏆 👌
Units					anage Unit Groups
Filter Units	✓ Filter by name	Status		Present in groups	-1
0= 0=	KNX DIMM 2 KNX SHUTT	os.07.2018 16:53:55 os.07.2018 16:53:52	close open		
0= 0=	GL SW 1 GL SW 2	os.07.2018 16:53:49 os.07.2018 16:53:47	close open		
	Risco qa			Add to group	_
	Risco Door Sensor			Present in scenarios	
	+ Add Unit				
Bitwise					

You can arm or disarm Risco in the Dashboard in Favorites and from the Rooms tab also.



There is also a possibility to operate Risco using scenarios. In the Scenarios tab, click on Add User Scenario section. Then in the new page enter a name of the user scenario or in this case RISCO USER SCENARIO ARM EVENT and assign an action. Select the Alarm icon, then the alarm from the filter and option to arm.



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There is also an option to use dynamic scenario option with Alarm and sensors and enable activation of units while a condition is applicable.

Example is when "Risco alarm is armed" and sensor "xx" senses movement then the action will be to start the siren unit, or send a "notification" via e-mail or switch garden light on etc. The options for the scenarios are almost unlimited.

Also, new button **Home** is visible in the RISCO Alarm settings in the Alarm submenu. This functionality enables the alarm to be in the "stay at home" armed status.

CTOUCH WAND		Status	2	ወ
General	ALARM Settings			
Reports	PIMA RISCO	 		
Network Configuration	Warning Using upon your risk			
Energy Options	RISCO Status			
Users	Arm Home Disarm Reconnect			
Firmware				
Backup	Enable connection			
Z-Wave				
Alarm	Password			
Bitwise				
Coolmaster				
KNX				



Air-condition VRF connection via cool master (IP connectivity)

Connecting TouchWand Wanderfull controller to VRF type air conditions is done via the cool master device. The connection needs an IP adaptor. This option enables houses / offices with VRF ACs to be controlled by the Wanderfull via the cool master adaptor. In Tab "Settings" choose sub menu "Coolmaster" and check box "enable connection".

CTOUCH WAND	status 🏂 🤰 🖞
General	Coolmaster Settings
Reports	Coolmaster
Network Configuration	
Energy Options	Connection Status Disabled not connected Centersh
Users	Enable connection
Firmware	Saw
Backup	Import AC units
Z-Wave	
Alarm	
Bitwise	
AcWand	
Coolmaster	
KNX	
Wanderfull	4

Then Input the parameters as defined:

- Choose AC type from drop down list.
- Define IP of the coolmaster.
- Define port #.
- Define poll frequency IE how often to pull the info from the cool master (can be between1 sec to 1day).

Then "Save" the parameters.

WAND					% "	t
General	Coolmaster Set	tings				
Reports	Coolmaste	r				
Network Configuration						
Energy Options	Connection S	Status	i not connected		C Refresh	
Users	Enable co	nnection				
Firmware	Туре	AC TYPE	~			
Backup	IP	192.168.1.*				
Z-Wave	Port Poll every	10102	~			
Alarm			-			
Bitwise		5499				
AcWand	Import AC u	mits				
Coolmaster	•					
KNX						
Wanderfull	4				_	


To add an AC, use the "add unit" button in "Units" tab. Then choose "Coolmaster AC unit". Define the following:

- Line #
- AC name
- ID

and then click on the "Pair" button.

Then configure the unit name and press "Done". The unit will be added to units and can be assigned to a room, and will be part of the coolmaster AC units.

Jnits			Manage Unit Croups
Filter Units V Filter by name Select Sort Pair New Unit	Ō		×
5 192.1 Public Stott Stott Stott	COOLMASTER Z-Wave unit ACWAND	~	
A Righ Confe A Righ Kan	KNX IP camera (ONVIF) WANDERFULL PIMA		
RAD RAD + Ad			
Cancel		Pair	
s			Manage politics
Configure Unit			× summary top
Ac Ha	Chouse an Icon	Assign to group	The lower at
AC the AC confinem		*Negation	
Com Garden	,	_	
+ Au Unit		Dore	
CTOUCH WAND			Status 🤌 🏆 🖞
Units			Manage Unit Groups
Filter Units Y Filter by name	亡		Choose an icon
Rão Lights	Unit name (ID: 311)	Control unit	
Contracter Contracter Contracter Risco	AC conf room	Fan 🗸	Auto V
C confroom	Status	Present in gro	ups
+ Add Unit	 25.07.2018 15:01:45 	mode i fan	1



In the UNITS submenu you can use the cool master unit to switch al ACs On/Off, check their status and add an AC unit or the cool master to the favorites screen if you want to activate all ACs from the favorites tab.

Import Coolmaster units

Coolmaster Settings are visible in Coolmaster submenu under Settings tab and available for editing only by users with technician privileges!

The **Import AC Units** button in the **Coolmaster** settings, allows to import AC units directly from the Coolmaster control unit.

vpe		
	AC TYPE	~
Р	192.168.1.196	
Port	10102	
^o oll every	2 sec	~

The available options are:

- 1. Select all AC units.
- 2. Choose specific AC units.

After options have been selected press the *Import* button.

Connection Statu Line: L1 ID: 100 Line: L1 ID: 101 ID: 101 ID: 101 ID: 101 ID: 102 Port 1 Line: L1 ID: 103 Line: L1 ID: 103 Line: L1 ID: 104 ID: 104		Choose units or Select all \square	×	1 1 C
Enable connec Type IP ID: 101 Ine: L1 ID: 102 Port Ine: L1 ID: 103 Poll every Line: L1 ID: 103 Ine: L1 ID: 103 Ine: L1 ID: 104	Connection Statu	Line: L1 ID: 100		C Refresh
IP Line: L1 IP 1 ID: 102 Port 1 Line: L1 ID: 103 Poll every Line: L1 ID: 104	Enable connec	Line: L1 ID: 101		
Port Line: L1 Line: L	IP 1	Line: L1 ID: 102		
Line: L1 ID: 104	Port 1	Line: L1 ID: 103		
		Line: L1 ID: 104		
		1 ma 11	•	
Import AC units Cancel Import	Import AC units	Cancel Import		



Implementation of primary-secondary controllers

Configuring primary and secondary controllers is available only for users with technician privileges!

Primary-secondary controllers are implemented with the 187-th firmware version. For large size spaces that include several floors and many units, it is advisable to include

more than one controller in the network.

Controllers can be connected through wired IP and could control the house/building easily. Therefore, you need to set up one primary controller that can include several secondary controllers and would include all secondary units. Once this is done, you can build up scenarios between units that are paired to different controllers.

When logging in to the application, the user is able to choose between installed controllers at the premises. This is visible at the login page in the filter located below the password.

	Login
Username:	
Password:	
(192.168.88.213)	~
(192.168.88.124) (192.168.88.213)	
<u> </u>	Forgot Password
	Submit
3 Q	or C
cho	ose authentication provider:

ഫ–	h
	I
	I

Note: All primary and secondary controllers must be on the same local network! This is important for the primary secondary configuration.

After the desired IP address of the controller is selected, click on the Submit button and enter the application.

With this firmware version the you have the possibility to name a controller. This is possible through the Settings tab, in the General sub menu. Under General configuration, you can enter the name of the controller in the new field **Controller name**.



General	Log Data		
Reports	Temperature unit	Celsius	~
Network Configuration	Language*	English	~
Energy Options	Calendar	Jewish	~
Users	Controller name:	Office	
Firmware	Proxy ip	cloud.touchwand.com	
Backup	Proxy server port	443	
	Proxy client port		
Z-Wave			~
	Proxy protocol	https	•
Alarm	Proxy protocol Camera cloud ip	52.47.121.225	•

In the Settings tab, there is a new sub menu – Wanderfull. When clicking on it, you are able to define the controller's type- primary or secondary.

If the primary controller type is selected, then you only have to save this configuration.

CTOUCH WAND				Status 🧖 🎽 🕐
Settings				
General	Wanderfull			
Reports	Controller type Master	~		
Network Configuration	Save			
Energy Options				
Users				
Firmware				
Backup				
Z-Wave				
KNX				
Alarm				
Bitwise				
			S)	0
Dashboard	Rooms	Scenarios	Units	Settings

After clicking on the **Save** button, a new screen will appear where you have to enter the mac address. By clicking on the **OK** button, the controller is saved as a primary controller.



CTOUCH WAND		Status	*2	ዋ
Reports	Controll	٦		
Network Configuration				
Energy Options	Warning Refore changing from master to slave please verify that all other slave controllers, that was added before			
Users	should be remove first!			
Firmware				
Backup				
Z-Wave				
KNX				
Alarm				
Bitwise	Cancel			
Coolmaster				
Wanderfull				

If a secondary type is selected, you have to enter the following details:

- Primary IP address
- Primary username
- Primary password
- Primary mac address

There is an option to include these settings by clicking on the **Save** button or go to the primary controller by clicking on the **Go to master** button.

In order to add secondary controller to the primary, you must login to the primary controller and in the Units tab press **Add Unit** button. Another page will appear on the screen from which you should select the Wanderfull controller and click on the **Pair** button.

Pair New Unit			×
	Z-Wave unit	~	
Cancel	Z-Wave unit KNX unit IP camera (ONVIF) COOL MASTER		Pair
	WANDERFULL		

After selecting the controller unit, enter your username, password and name and click on the **Pair** button.



Pair New Unit	:		\times
	WANDERFULL (192.168.88.124) ✓ Iogin password Please fill out this field. name 192.168.88.124	~	
Cancel		Pair	

Once the pairing is done, you'll be able to see all units from the secondary controller in the primary controller.

Units		Manage Unit Groups
All Filter Units Filter by name	Ō	\odot
Thermostat	Unit name (ID: 47) Unit is offline	Control unit
Second controller	Thermostat Gree	Fan 🗸 Auto 🗸
Thermostat Ac	In room: ROOMS DI Mark as favorite	
Door alarm sensor		
C Switch	Status	Present in groups
C C shutter	• 19.09.2018 15:04:30 Batt. level 97%	
+ Add Unit	• 19.09.2018 09:03:39 Batt. level 97%	

In the Units tab, you also have the possibility to choose between controllers and their units. This can be done from the filter located above Filter units.

Units		Manage Unit Croups
All Second floor Second controller	Ċ	O
• Thermostat	Unit name (ID: 47) Unit is offline	Control unit
Second controller	Thermostat Gree	Fan 🗸 Auto 🗸



Wanderfull Hub Factory Reset / Version Repair

The following process describes the steps to perform factory reset or to perform version repair process of the Wanderfull Hub.

Both processes are enabled **only** from firmware version 188 and up.

Therefore, before performing factory reset / repair please verify that the Wanderfull Hub version is 188 or higher.

Carefully follow the following steps:

Preparations:

Make sure you have a Pin 0.75 mm diameter X 30 mm (minimum). A suitable Allen key with these specifications will do the job or you can use any type of a small paper clip with the diameters as defined.



Connect the Wanderfull hub to power

Insert the Pin through the small hole, on the top right side of the Wanderfull HUB.

The pin should be inserted in vertical position to the ground of the surface of the Wanderfull HUB.

When inserting the pin, you should feel the push button before making the long press.





Proper insertion



Wanderfull HUB Repair Process

- This process repairs the database and installs the previous version (the earliest is version 187), which is already backed up locally in the Wanderfull Hub (only if version 188 was already updated prior to this action).
- 2. Insert the PIN through the hole and press on the hidden reset push button located inside the Wanderfull Hub for approx. 5 seconds.
- 3. The unit will beep once after 5 seconds.
- 4. Remove the pin from the hole.
- 5. The LED will flash twice in green lights and then the green lights will be on for approx. 10 seconds.
- 6. After approx. 10 seconds the unit will beep long once and the green LED lights will go off.
- 7. The Wanderfull Hub will initiate the restart process that will take approx. 2 minutes.
- 8. Wanderfull Hub version will be 187.
- 9. Now you can update the firmware version again to the latest version 188 or higher.
- 10. For visual review of the factory repair process press here.



Wanderfull Hub factory Reset

- 1. This process removes all previous database files and installs version 187, which is already backed up locally in the Wanderfull Hub (only if version 188 was already updated prior to this action).
- 2. Insert the PIN through the hole and press on the hidden reset push button located inside the Wanderfull Hub for approx. 10 seconds.
- 3. The unit will beep once after 5 seconds.
- 4. Keep pressing the pin until the unit will beep twice after approx. 5 seconds from the last Beep.
- 5. Remove the pin ftom the hole.
- 6. The LED lights will flash green 3 times and then the green light will be on for approx. 30 seconds.
- 7. After approx. 30 seconds the LED lights will flash in red for 3 times and the unit will beep 3 times.
- 8. The red LED will light continuously for approx. 20 seconds and the unit will beep long once.
- 9. The red LED lights will go off.
- 10. The controller will initiate the restart process that will take approx. 2 minutes.
- 11. Wanderfull Hub version will be 187.
- 11. Now you can update the firmware version again to the latest version 188 or higher.
- 12. For visual review of the Factory reset process press here.



Troubleshooting

The controller will not turn on

A possible cause of the phenomenon

- 1. There is no power input from the transformer
- 2. There is no electricity at the power point

Recommendations for solving the problem

- 1. Testing the power transformer and replacing a dedicated 12V transformer supplied by TouchWand only
- 2. Testing and connecting to an additional power point at home

Symptom - No network connection

A possible cause of the phenomenon

- 1. Local carrier problem
- 2. A specific network problem
- 3. A problem with the network cable

Recommendations for solving the problem

- 1. Checking with the ISP regarding a communication problem
- 2. Testing infrastructure and replacing the connection to a different network point in the home
- 3. Replace the network cable

Symptom - Cannot register controller when scanning QR code

A possible cause of the phenomenon

- 1. Incorrect device camera (tablet, computer, cellular)
- 2. ALLOW You cannot use the camera while running the application
- 3. Defective internet connection
- 4. Problem with the cloud service

Recommendations for solving the problem

- 1. Check camera integrity by scanning another QR code
- 2. Check the device's permissions that the camera can be used when using the TouchWand application
- 3. Delete and reopen the application and click the "Allow" or "ALLOW" button when the question "Allow the TouchWand application to take pictures and record video?"
- 4. Checking the general connection of the Internet and contacting the ISP if there is no connection



- 5. Disconnect for 5 seconds and reconnect the controller to the power
- 6. Contact SweetchOn's technical service through our home page at https://www.sweetchon.com/contact-us
- 7. Incorrect username and password You must provide a username and password and stick to them when entering the controller

Symptom - A dynamic scenario is running in an inaccurate timing

A possible cause of the phenomenon

- 1. Network connection problem
- 2. Partial definition of user data in app settings

Recommendations for solving the problem

- 1. Set the settings tab:
 - a. Exact latitude and latitude of the location the following site can be used to locate the data: <u>https://www.latlong.net</u>
 - b. Make sure COUNTRY is correct for the country you are in

Symptom: Failed to add new unit

A possible cause of the phenomenon

- 1. The distance between a physical unit and a controller
- 2. Background noise an environmental factor affecting the internal communication
- 3. A fault in the end unit

Recommendations for solving the problem

- It is necessary to ensure that the direct distance of each end unit shall not exceed 5-7 meters. If the distance exceeds the direct range, yoe need to add relay points to serve as range boosters. Each point will be connected to L and N and will increase the home network as part of the MESH network.
- 2. If there are external noises, consider the relevant positions and re-adjust the position of each unit optimally where the noise will be minimal for each unit.
- 3. Make sure to contact SweetchOn, you can contact us through the homepage: https://www.sweetchon.com/contact-us
- 4. A central position of the controller should be maintained. If the house has 3 levels, the controller unit should be located on the middle floor.
- 5. Make sure that there is no proximity between the controller unit and factors with an internal noise source, such as an external power transformer with high power

Delay symptom (too long-time gap) between a command mission from the controller and feedback on the end unit



A possible cause of the phenomenon

- 1. Some units are connected to the controller but are out of range
- 2. After the initial definition, disturbing units were added, such as a cabinet, mirror and any other possible factor
- 3. A unit appears in the list of units as MALFUNCTION, meaning an invalid unit
- 4. A concrete/reinforced wall that affects the local media

Recommendations for solving the problem

- 1. Add a relay unit to increase the range and check that there are no units that appear as MALFUNCTION, that is, a valid unit, in the UNITS menu
- 2. Perform a procedure called Update Z-Wave network through the Z-WAVE menu in the Settings tab
- 3. The unit must be removed from the list either by resetting or re-adding or deleting, and the unit can be replaced by selecting REPLACE after pressing the trash button
- 4. Position the antenna with respect to the frame plastic of the switch. The antenna should exit the micro module



Frequently Asked Questions

Question1. Is there a number on how many PIMA sensor alarms units can be connected to the hub?

- No, there is no limited number of how many devices can be installed.

Question 2. Is there a possibility to delete the devices once a unit is added?

Yes, there is possibility to delete the PIMA device. If you want to do this, for any reason, click on the ¹/₁ icon in the Units sub-menu. Another form will appear in the application where the Remove button should be clicked. After clicking on this button, the sensor alarm will be removed.

Delete ×	
Are you sure you want to delete this unit?	
Remove	e e

Note: Only the only the administrator can perform the activation in such a way!

Question 6. How do I change my password?

Enter the application and click on the Settings tab. Then click on sub-menu Users, where a list of all users will be visible. Current user has a possibility to change the password by clicking on the Change password text.

Question 7. Can I use the system with no internet?

- Yes. The system can be used locally without internet. You have to be connected to the local network in the house to use the system.

Question 8. The shutter is stuck after an electricity pause. What do I need to do?

When there is an electricity pause/break the Shutter unit (InWand or WallWand) is in an unknown state. Which means it needs to get to a position where it knows if its edge position is up or down. For safety reasons when the shutter is in unknown state it will go up first to its edge and then it gets its known state. This means that it needs to perform the whole path (timing wise) to get to a known state.

Therefore, there are 2 options:



a. Open the application, go to the shutter and slide the shutter up to 100% or just click on the up button and wait until it shows 100%.

b. Push on the up-switch for the amount of time it takes the shutter to open to its full 100%. Remember if the shutter is open in 50% and the full opening time is 25 seconds you need to hold the switch up for at least 25 seconds even if the shutter got to its upper position after 12 seconds. Only when the shutter will make the whole path it will get into its calibrated known state.

Question 9. How can I remember my password?

Most of the browsers support remember password option. While login the first time or after delete history you can use the remember password option and the browser will save your password.

For example, Google Chrome (menu Settings/Advanced/Passwords and forms) offers the possibility to fill in and save passwords

In the application via mobile, if you are connected with one controller, it will remember the last login and password entered.

Question 10. Who can help me to build the scenario?

Detailed description about building the scenarios can be found in the What's new documents, installation and in the Scenario section in this manual.

You can always send us a message through our website and e-mail on the following link <u>https://www.sweetchon.com/contact-us</u> or contact our offices.

Question 11. How can I use the timer on the scenario page?

The timer in the scenarios page is used for switches that are considered as lights, other on/off switches that are part of "lights" dropbox action in the scenario, hot water boiler activation or similar devices and other devices. Any user can switch on/off a switch many times along the 24 hours, or even build up a sequence of actions with different switches by adding another action one after the other using the same scenario based on the same condition. The timer can be set for up to 24 hours (1,440 min) from condition triggered. Example:

Go to the Scenarios tab in the application and click on "Add Dynamic Scenario". Enter the name of the scenario, condition and action. When entering the condition which in this case is time, define the time you want the scenario to start. For example, I want to switch on a light at a certain time for 2 hours (120 min). In the Action section define the actions to be performed.

Action #1 Hallway light "on" (no timer is needed because you want the light to switch "on" when the condition is triggered. Then add another action using "and" Action #2 Hallway light



switch "off". Set the timer to 120 min. This will switch off the light after 120 min. Then submit the scenario and use the slider to activate it.

Question 12. How do I connect the controller to Pima Alarm System?

To connect the PIMA alarm system please do the following steps:

a. Log in the application and connect the alarm system - This can be done directly or through a local network. If connecting directly - use the supplied cable, SA-232 converter and LCL-11A adaptor. If you connect through a local network (LAN) use the net4pro-i network card. b. Setting the serial port - Set the serial output use, regarding the connection to the MS (monitoring station). The MS can be connected locally, using RS-232 cable, or remotely, through the net4pro IP interface. It can use a home automation ("Smart home") or PIMA proprietary protocol.

c. Log in the TouchWand application and open Units tab

PIMA alarm will be visible with the rest of devices in the Units section. There is no need for pairing this unit. Just click on the **Add unit** button and select what kind of unit will be added in the first field in this case PIMA sensor. Enter the rest of the data that is needed - type, sensor name and zone and click on the **Pair** button.

Question 13. How do I connect the controller to RISCO Alarm System?

To connect the RISCO alarm system please do the following steps:

a. Log in the application and click on the Settings tab. RISCO settings can be added and edited in the Settings tab under the Alarm sub menu.

b. Click on the Add Risco button. At this moment RISCO alarm system is not connected and its status is Disabled not mounted.

c. Check Enable connection box.

d. Enter the IP address, port, password and upload a CSV file.

e. Click on the Save button.

Risco initial status is disarmed. To arm the alarm, click on the Arm button located below the unit's status.

Question 14. What is a network healing? How do I use it?

Network healing (Network update) is the stage that takes place after all the end units have been defined in the structure and after the functionality of each one has been tested. The purpose of the procedure is to optimize the network communication. The duration of the procedure varies from house to house pending number of units and size of the house (level, floors etc...) and on average is about 5-20 minutes. While the procedure is being performed, do not touch / change and / or physically and / or virtualize the endpoints for the success and efficiency of the process.



Question 15. What is the procedure to connect to KNX system?

The Wanderfull system supports an integrated connection or a KNX system connection only or a Z-WAVE system connection only. As a result, the connection can be activated in two ways:

a. A direct connection in which the KNX IP address is required. This type of connection can be required when some of home internet routers/switches block the multicast messages inside LAN, and the best solution is direct connection.

b. Connection by means of a multicast. The multicast connection type is the connection when the KNX router listen/sends events to specific reserved IP address, additionally to direct connections (if they exist).

For detailed explanation on how to connect the device with the application, please see the KNX section in this manual or contact us on our website https://www.sweetchon.com/customer-support

Question 16. How do I connect more than 1 switch to activate the same light?

There are few option for this case:

 a. When there are 2 switches that are operating the same light you need to install the InWand in the switch that is connected directly to the light.
 Follow the connection scheme below.



b. When there are 3 switches that are operating the same light need to install the InWand in the switch that is connected directly to the light. Follow the connection scheme below.





c. There is an option to use a double switch that one of the switches is not connected to a light and use it as a virtual switch to perform remote operation of a light. (using a scenario or an association process).

Question 16. How secure is your system?

Our controller is connected to the router in the house and to the TouchWand cloud. For security reasons we have our cloud hosted in Amazon AWS and IBM Bluemix and rely on Amazon and IBM security and firewall.

These clouds are the most secure cloud hosting provider in the market. Keep your login and password safe. If your mobile was stolen or lost make sure that you change the password like you probably will do with any other application you are using.

Question 17. When a device fails to pair What do I do?

There can be several reasons for a device that does not pair properly.

- The device is already paired.
 Please perform unpair by choosing any paired device in the units and perform the unpairing process on the device. After controller shows that unit was reset perform the pairing process from start.
- b. The device is too far from the controller and mesh network has not been optimized. Bring the device closer to the controller or the controller closer to the device. Perform the pairing and at the end of installation perform network healing (network update). In setting/Z-Wave/advanced/Z-Wave network update.

Note: make sure not to press on Z-Wave network reset. This will erase your network.



Question 18. What do I do when the Association process fails to perform?

If a device is not performing the association properly it can derive from 2 reasons:

a. Source device endpoint is associated with more target endpoints than it be associated with.

i.InWand

Each endpoint in source unit can associate with 7 target endpoints.

ii.WallWand

Each endpoint in source unit can associate with 5 target endpoints.

You need to verify how many target endpoints are associated with source endpoint.

b. The device was previously associated as source to other targets or as target to other sources and has been unpair without properly clearing it associated target or source. In this case the controller does not recognize (show) already installed associations in the device. In this case need to unpair the unit from the controller reset the unit and re-pair the unit and perform the association process.

Question 19. What is a primary-secondary condition?

For large size spaces that include several floors and many units it is advisable to include more than one controller in the network. The controllers will be connected wired IP and could control the house/building easily. Therefore, we set up one primary controller that can include several secondary controllers and would include all secondary units. Thus you can build up scenarios between units that are paired to different controllers.

Question 20. The KNX doesn't report back its status to the controller. What do I do?

This depends on the IP adaptor and router. You can change the connection type from multicast to direct. Detailed description for this can be found on <u>page 60</u> in this manual.



Supervision process, plans and installation communication problems

To avoid potential network problems or at least to solve potential network problems, the electrician should be required to install closed electrical boxes in problem areas. If you go to the installation and there are network problems because of the remote location of the controller, you must put repeater units along the way to the remote units.

After the house is already built to cut concrete for electric boxes, this is a major problem and can cause a serious problem in the process.

When there is a basement and there is a desire to put Z-Wave units down in the basement and there is a barrier to the grid, it is therefore necessary to plan electrical programs and install down stairs boxes of electricity that will allow the installation of InWand rectifiers. When you have setup a large network that has more than 10 or 15 units, you should Check the network stability.



! Warnings!

Do not modify the unit in any way. Risk of electrical shock. Risk of fire. Risk of burns.

Do not dispose the electrical appliances as unsorted municipal waste, use separate collection facilities. Contact your local government for information regarding the collection systems available.