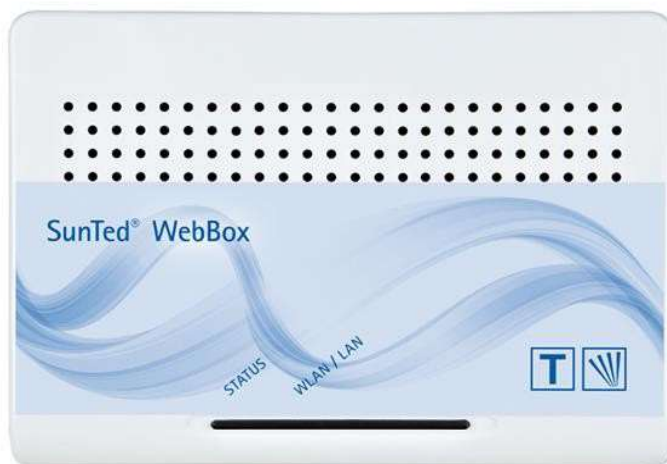


# SKX-WEB manual



## Commissioning

Congratulations on the purchase of your SunTed WebBox.

On the following pages you will find detailed instructions on how to set up and operate your SunTed WebBox.

You don't like to read and want to get started quickly? Then proceed as follows

- Connecting network cable
- Connecting power cable
- Wait until the WebBox LED lights up green
- <https://webbox.sunted.de> call up the IP address in your internet browser
- Create a folder (File/Folder) (ground floor, garage, 1st floor, etc...)
- Creating a sub-folder (Living room, Kitchen, Bath, ...)
- Making devices (Geräte/Devices) (Light, Jalousie, ...)
- Creating scenarios (Szenarien/Scenario) (these are commands that can expire automatically and/or by hand transmitter at certain times if required)
- Installing the app on your smart device (Apple & Android)

We hope you enjoy installing and operating your devices.





## Connecting to your SUNTED WEBBOX

Access to your SunTed WebBox is via a Web browser.

We prefer to use Google Chrome or Mozilla Firefox.

- Connecting with a network cable
- Connect your SunTed WebBox to your Router via a Network cable.
- Connect the power cable to your SunTed WebBox.

After a few seconds, the LED "WHITE" starts flashing, indicating that the WebBox is starting up.

Wait until the White blinking LED turns solid "GREEN", this indicates that the WebBox has established a network connection.

- Access via Browser "sunted.webbox"
- In your browser, type in the following <https://webbox.sunted.de> url.

If you now see a Web page with an IP address, you can click on it, then the login page follows where you have to choose a language and create a password, did everything work correctly. Read on at "Set language" and password".

If your WebBox is not found via the URL mentioned, you still have several options to still obtain the necessary access to your SunTed WebBox.

### Access via the IP address

If your Router distributes IP addresses via DHCP, connected devices are automatically assigned an IP address, you can then access your WebBox via the assigned IP address.

How do you find the allocated IP address of your

WebBox? There are several possibilities for this:

In the Rule, the IP Address is shown, if you can call up a list of the connected computers in the Web interface of your Routers.

Alternatively, you can use an iPhone or Android App. Connect you smartphone to your Router's Wi-Fi or use an app for Window or Mac OS, type



for this in your browser search window the term "LAN Scanner", as these programmes change very quickly we cannot give you a preference for this.

If your computer is in the same network as your SunTed WebBox, you can find its assigned IP address using the URL-LINK below; <https://webbox.sunted.de> only if it is connected to the Internet.

## Access via static IP address

It may happen that you have entered incorrect data for Wi-Fi as well as IP address and your WebBox is no longer accessible, for this reason there is a fixed IP address available in the WebBox, to still access your SunTed WebBox in such an emergency situation. To do this, you must connect your computer directly to your WebBox

Change your network setting of your computer as follows;

---

- Local IP Address: 172.31.253.216

---

- Sub network 255.255.255.0

- You can now [access](#) your WebBox via <http://172.31.253.217/>.

## Connecting via Wi-Fi with WPS

- Plug the supplied WLAN adaptor into the USB port of your WebBox
- Connect the power cable to your SunTed WebBox.

After a few seconds, the LED "WHITE" starts flashing, indicating that the WebBox is starting up, then the LED "BLUE" starts flashing.

- Now press the WPS button on your Router.
- Shortly afterwards, press the WPS button on the back of your WebBox.

The LED on the WebBox flashes while searching for an active WPS signal, if a WPS signal is found the "BLUE" LED starts flashing rapidly until the password is found. The LED briefly flashes "WHITE" and then "RED". This is a good sign, the WebBox will now reboot and connect



automatically with the Wi-Fi network, if everything went well, the LED will light solid "BLUE" on your WebBox.

You should keep the Wi-Fi distance between your Router and your WebBox as small as possible, as the WLAN adaptor provided has a small range, if this distance is too large you may experience connection problems between your Router and the SunTed WebBox.

## Accessing your SunTed WebBox

Access to your WebBox can [be](#) via the URL method <https://webbox.sunted.de> or via the IP address of your WebBox.

- Act as described above to find your WebBox IP address.

## Manually setting the Wi-Fi data

If your Router does not have a WPS function or the WPS connection failed, you can connect the WebBox via a network cable and manually enter the required Wi-Fi data in the administrator menu at the Network Settings.

- More information can be found in the "Networking" section.

## Administrator

This chapter shows you how to manage your WebBox.

When you first start the SunTed WebBox, you will be asked to select the WebBox interface language you want to use (make a choice English or German).

You also need to create a password to log in as an administrator.

After this step has been completed, you can create folders and devices in the administration section of the left menu, click on (Geräte/Devices) you can now create folders (Ordner/Folders) to organise your project clearly.

You can also create scenarios to switch several devices simultaneously. For example, switching all lights on or off in the entire room at the touch of a button. You can define switching times for a scenario, e.g. you can programme that every morning at 6:30 a.m. the lights of a room are automatically switched on and the shutter opens and in the evening the lights are switched off again, etc.

## Folders, devices and aliases

Login to your SunTed WebBox as administrator and click on devices (Geräte/Devices) in the "Administrator" menu.

### Creating folders

You can place in folders (Ordner/Folders) and sub-folders (Unterordner/Sub-Folders) the devices conveniently, which are located in your home or project.

As a folder (Folder/Folder), you can, for example, create your floors or areas, such as, ground floor, 1st floor, basement, garage, etc.

In each folder (Ordner/Folder), you can create sub-folders (Unterordner/Sub-Folder). Here, for example, you can create sub-folders for each floor and or area, such as, kitchen, living room, bedroom, children's room, etc.

You are free to choose whatever structure best suits your environment and or application.

### Ordner

- ☰ Gästehaus
- ☰ Keller
  - ☰ Fahrradraum
  - ☰ Waschraum
- ☰ Erdgeschoss
  - ☑ **Frühstücksraum**
  - ☰ Küche
  - ☰ Aufenthaltsraum Gäste
  - ☰ Personal

### Frühstücksraum

Name	Typ
☰ <b>Rolladen 1</b>	Rolladen
☰ <b>Rolladen 2</b>	Rolladen
☰ <b>Deckenlicht</b>	Lichtschalter
☰ <b>Sonnenschutz</b>	Jalousie

+ Neues Gerät
+ Neues Szenario
+ Neuer Alias

✎ Umbenennen
🗑️ Löschen

## Devices

Select a folder and or sub-folder from the left-hand menu. Click on new device (Neues Gerät/New Device).

- In the new opening window
- Select the device type (Typ/Type)
- Enter your device name in the (Gerätename/Item name) field
- Selecting one, two or more control buttons
- Your button selection number determines the broadcast code number.
- How many transmission codes you can assign depends on the type of device.
- Enter the relevant transmission code "+", "-" and "o"

With the option Make stop button visible (Stopp-Knopf anzeigen/Show stop button) you define that a stop button is visible in the user menu, this only makes sense if your device can execute a stop command. In many devices, you achieve a stop command by issuing an opposite command.

The option device active (Gerät aktiv/Device enabled) is already ticked, which means that the relevant device is shown in the user menu. If you do not want to use the device temporarily, you can deselect it here.

The following choice of device types are available:

- Shutters (Roller Shutters/Roller Blind)
- Marquis (Markise/Blind)
- Jealousy (Jalousie/Jalousie)
- Light switch (Lichtschalter/Light Switch)
- Sliding window (Fenster/Window)
- Sensor (Sensor/Sensor Device)
- Universal device (Universalgerät/Generic Device)

Tip:

If you already have a hand transmitter for your device, you can take over the hand transmitter code by first transmitting the relevant command via your hand transmitter and then pressing the relevant function via the button (Letzten Funkcode einfügen/Insert last transmitted radio code).

## Light switch

A light switch possesses two functions, "on" and "off" ("An/On" and "Aus/Off").

## Roller shutters, awnings, blinds

Roller shutters, awnings and blinds possess two functions "Up" and "Down" ("Auf/Up" and "Zu/Down"). In the case of blinds, a tilting function is also possible.

## Window (sliding window)

Sliding windows (Fenster/Window) etc. possess 2 to 4 functions, Open and close ("Öffnen/open" and "Schließen/close") ventilation position and stop

## Universal device

A universal device (Universalgerät/Generic Device) has multiple functions, opening and closing, sequential operation, etc. you can choose your own symbol (Symbol wählen/Select Icon) from the choice selection.

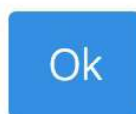
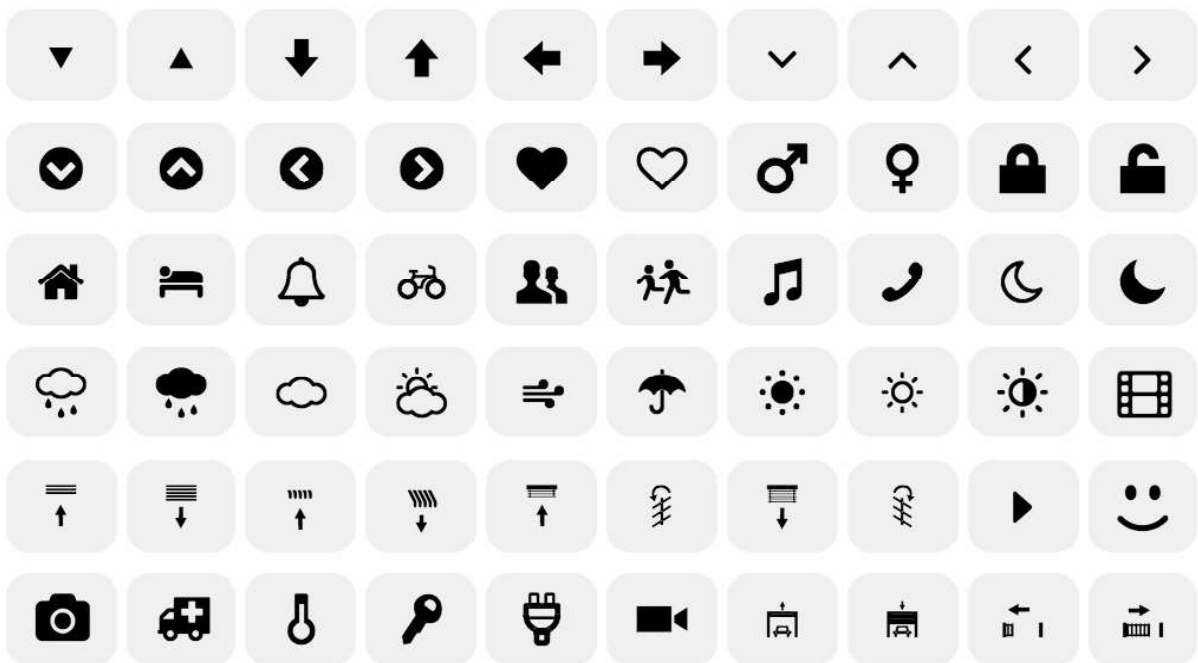
If you have a device, which is controllable via one, two, three or four buttons and does not fit into the types listed above, you can make a universal device.



With a universal device, you choose the number of buttons.

For each button, you can select a symbol from a list of symbols here. There are icons that represent opening or closing a garage door or opening and closing a garden gate, for example.

### Bitte wählen Sie ein Symbol



## Kwan Yin Haus - Gerät erstellen

Typ

Jalousie

Gerätename

Jalousie 2 Wohnzimmer

Auf

++-+-0--0

T3 öffnen

Code senden

+ - 0 ←

 Letzten Funkcode einfügen

Zu

++-+-0---

T4 schließen

Code senden

+ - 0 ←

 Letzten Funkcode einfügen

Stop-Knopf anzeigen

Gerät aktiv

Speichern

Abbrechen



## Sensors

A sensor is a device that can transmit certain weather-dependent commands, the equipment in your home can be configured so that at certain sensor code (e.g. when there is too much wind) the drop-down shutters will be retracted, etc. The creation of a sensor allows the administrator to test the sensor transmission code etc.

For a sensor, buttons can be displayed in the user menu, for example, the service mode buttons (Service-Modus Knöpfe/Service mode buttons). These buttons can disable the weather-dependent commands for a certain time, so that the equipment temporarily does not react to the commands in case of service work and or cleaning work (glass scrubber), preventing the shutters etc. from closing during service mode.

## Sensor status

In the mobile apps and in the Web App, you can see under "Sensor-Protokolle/Sensor messages", which sensor commands are currently active. If you are wondering, why the operation of an awning, for example, is not currently possible, an answer can often be found here.

## Kwan Yin Haus - Gerät erstellen

Typ

Sensor

Gerätename

Sensor Ostdach

Code 1

++--00

+

-

o

←



Letzten Funkcode einfügen

Test codes

Sonnenaufgang

Sonne schwach

Sonnenuntergang

Wartung

Licht ok

Starke Sonne

Starker Wind

Schwacher Wind

Regen

Kein Regen

Sonnensens. deakt.

Sonnensens. aktiv.

Service-Modus Knöpfe im Benutzer-Bereich anzeigen

Knöpfe zum Aktivieren/Deaktivieren des Sonnen-Sensors im Benutzer-Bereich anzeigen

Speichern

Abbrechen

## MANAGE SCENARIOS

Multiple devices in a group can be summarised in a scenario. You can then control all included devices at (almost) the same time or even time-shifted by pressing a single button. For example: switch on all the lights in one room.

A scenario can include breaks. For example, staircase automation can be realised.

Or you can slowly switch on light after light in a room. For each scenario, you can set it to run automatically on certain days of the week and at certain times

You can be gently "pre-awakened" in the morning before the alarm clock rings. Have a scenario automatically switch on lights and open shutters etc

### Kwan Yin Haus - Szenario erstellen

Name des Szenarios

Code 1

T1 öffnen

+ - o u ←

📶 Letzten Funkcode einfügen

	Name	Funktion	Pause - Sekunden	
≡	Light Switch	An	0	🗑️
≡	Wählen Sie ein Gr	Funktion wähl	0	🗑️

Schaltzeiten

Zeit	Mo	Di	Mi	Do	Fr	Sa	So	Alle wählen	Aktiv	
06 : 30	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Alle wählen	<input checked="" type="checkbox"/> Aktiv	🗑️
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Alle wählen	<input checked="" type="checkbox"/> Aktiv	🗑️

Speichern

Abbrechen

## User management

- Administrator

An administrator can change all settings, such as create folders and devices or import and export backups. Also, just like a normal user, he can control all devices. When you access your SunTed WebBox for the first time via your web browser, you will be asked to assign an administrator password. You can also choose to access it without giving a password.

Later, you can change the password in the "Administration"-> "Benutzer/User" section.



The screenshot shows the 'Benutzerverwaltung' (User Management) section of the SunTed WebBox interface. It features two tabs: 'Administratorpasswort' (selected) and 'Benutzerpasswort'. The main heading is 'Administratorpasswort ändern'. A checkbox labeled 'Für den Admin-Bereich ist ein Passwort erforderlich' is checked. Below this are three password input fields: 'Aktuelles Passwort' (Current Password), 'Passwort' (New Password), and 'Passwort (wiederholen)' (Repeat Password). A blue button labeled 'Einstellungen speichern' (Save Settings) is positioned at the bottom of the form.

## DATE AND TIME

- Date and time checked via internet

The SunTed WebBox can check the current date and time of a time server on the internet. During setup, it checks this at every system start-up and periodically thereafter.

If your WebBox is not connected to the internet, you can set the date and time manually. The box takes over the time and date. With the help of a built-in battery, the time keeps running even during a power failure and is set correctly again at the next system start-up.

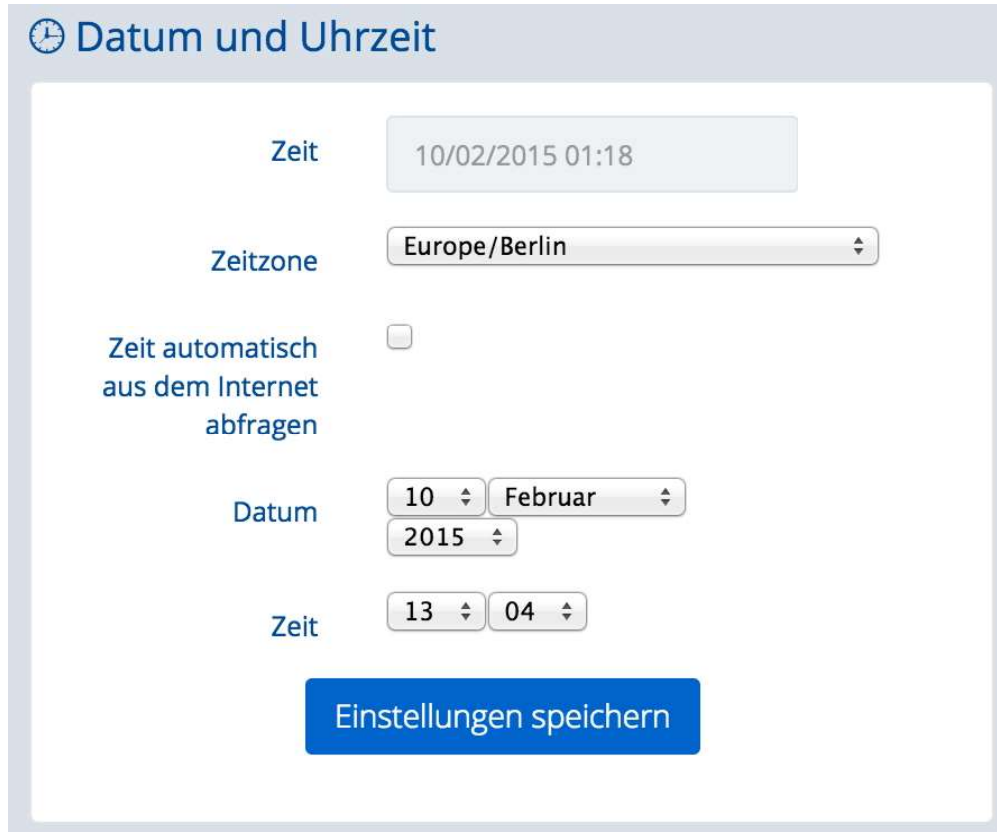
After some years, the battery, a button cell, runs out of power. If this happens, make sure you reset the time if necessary after starting the system.

## Set date and time manually

To enter date and time manually, proceed as follows:

- Select "Datum und Uhrzeit" from the "Administration" menu.
- Remove the checkmark next to "Zeit automatisch aus dem Internet abfragen" (automatically download time from the internet)
- Select the time zone, usually "Europe/Berlin" from the list of available time zones
- Enter the date and time corresponding to your local time
- Confirm the time on the box, by pressing "Save settings".

If you reset the time from manual to "Zeit aus dem Internet abfragen" (take time automatically from the Internet), it can sometimes take two or three minutes, before the time is current. The SunTed WebBox's time is refreshed every 10 seconds and is displayed in the grey bar at the top.



**Datum und Uhrzeit**

Zeit: 10/02/2015 01:18

Zeitzone: Europe/Berlin

Zeit automatisch aus dem Internet abfragen:

Datum: 10 Februar 2015

Zeit: 13 04

**Einstellungen speichern**



## NETWORK SETTINGS

The SunTed WebBox can be connected to your router via a network cable or via Wi-Fi. We recommend using a network cable, as this connection is generally more stable as a Wi-Fi connection.

### LAN

The network configuration for the network is obtained automatically via DHCP from your router. You can manually assign your own IP address. To do so, go after "Administration" -> "Netzwerkeinstellungen" and select "LAN".

In the drop-down box, you can switch from "DHCP" to "Manuell".

Field	Description	Example
IP Address	IP address on the local network. An IP address consists of 4 numbers in range 0 to 255, separated by dots.	192.168.0.50
Teilnetzmaske	records how big your network is. If only the last digit is a 0, it means that all computers in your network have an IP address that starts with the same 3 numbers.	255.255.255.0
Router	Please enter your router's IP address here. The SunTed WebBox then knows, that it needs to target the router, to request updates, for example.	192.168.0.1
DNS server	This is usually also where your router's IP address is located. This is then responsible for converting internet domain names to an IP address.	192.168.0.1

IPv6 addresses are not supported.





## Static IP address

When you press save, your box will start with the new settings. Wait until the LED lights up green and enter the new IP address in your browser's address bar. In our example, this would be <http://192.168.0.50>. This is where you can then reach your box.

## Wrong IP address?

If you make a mistake, you can always reach your box under <http://172.31.253.217/>. To do this, however, you will also need to convert the IP address of the computer connected to the box. This is described in the section: connecting to your SunTed WebBox.

## WI-FI

To use Wi-Fi, you need to choose a Wi-Fi network and enter your password. Alternatively, you can use WPS, to transfer your router's password to your SunTed WebBox.

### Manual entry

You can enter your Wi-Fi connection details manually. Open the "WLAN" tab. Enter the following details:

Field	Description	Example
Netzwerkname	The name of your wireless network	shockomaus
Verschlüsselung	The encryption method used by your network	WPA
Passwort	The access password for your Wi-Fi network. If you haven't changed anything, you can often find the default password on a sticker under find your router.	topsecret11!

Konfiguration	Here you can set whether you want to manually set the network settings such as IP address, router, subnet mask as described under point "LAN" or not.	DHCP
---------------	---	------

## Setting up via WPS

WPS is a procedure in which the Wi-Fi password stored on your router is transmitted to a device on the local network. WPS is more insecure, which can be cracked by trying many combinations, without the attacker needing physical access to your router. To transfer your password to the SunTed WebBox via WPS, proceed as follows:

Press the WPS button on your router. You usually need to hold it down for a few seconds, until the LED starts flashing.

Now, without waiting, press the WPS button on the SunTed WebBox. This is located on the right-hand side at the back of the device.

Wait for about two minutes. If all goes well, your router will tell the SunTed WebBox the saved password and you will be able to access the WebBox via Wi-Fi in the future.

The LED of your SunTed WebBox starts blinking blue when it searches for a router that is in WPS connection mode. It flashes blue faster when the router is found and the details are requested. It briefly turns red when everything is OK and the router restarts.

The connection does not always work on the first try. Repeat the process again if necessary.

## WAN

In this section, you can set whether you want remote access to your SunTed WebBox. This is actually very convenient, because you can then, for example, walk around the garden with your phone and switch the lights on and off from there even outside the range of your Wi-Fi network or, if you are on the road, also control your lights and shutters. But that also means, that data is transmitted via the internet. Below you can read how this is converted and what data is involved:



## If you enable remote access, the following happens:

Your system generates a random string such as e.g. "640ea921-d0a2-4cab-8f6f-167518a764de".

Your box connects to the SunTed WebBox server and says, here is box no. "640ea921- d0a2-4cab-8f6f-167518a764de".

If you log into the box via iPhone or Android App with Internet access via the app, the box says to the iPhone: I am box no "640ea921-d0a2-4cab-8f6f- 167518a764de".

After that, you can use your iPhone to connect to the SunTed WebBox server from outside your local network as well and say, I belong to box No. "640ea921-d0a2-4cab-8f6f- 167518a764de".

If you send a command to open a blind or switch on a lamp, the actual required radio code is not sent over the Internet, but only a reference to box "640ea921-d0a2-4cab-8f6f- 167518a764de": please switch on device no 17. The box acknowledges this with an acknowledgement "OK" and an "Ausgeführt", so you can see on your mobile phone, that something is happening.

## What data will be stored by me on the internet?

If you disable the option "Meine mobilen Geräte dürfen über das Internet zugreifen", no data will be transferred on the Internet.

If you enable this option, as little data as possible will be sent.

Following data is transferred and stored on the server for a short time:

your IP address and the local IP address of your box

the randomly generated string to identify your box (see above)

The following data is only transmitted from your box to your mobile phone, but not stored on the server:

Name of the folder you created, e.g. something like "1st floor" and "Anna's room"



the names of the devices, e.g. "maximum" or "blind 3 north side" All data are encrypted via SSL

## Assign new box ID

If you want all phones that have accessed your box to no longer have access, before they have logged in to the local network again, you can have a new box ID assigned. Then the character string that uniquely identifies your box, in the above example "640ea921-d0a2-4cab- 8f6f-167518a764de", will be re-assigned. To do this, please press "Neue Box ID zuweisen".

## BACKUPS

The data you have entered as an administrator is stored in a database on the SunTed WebBox. Since you probably spent some time setting up the WebBox, it is advisable to back up your data and store it in a safe place.

Take backup seriously: the SunTed WebBox data is stored on an SD card. The file system of the SD card can break down; if the box has no power supply at that time, nothing will be saved.

## Backing up

Go to "Administration" -> "Backups" and press the "Backup erstellen" button. A file will be downloaded. You should save this in a safe place so that you can restore the WebBox if necessary.

## Restore with backup

To restore a backup on the box, proceed as follows: go to

"Administration" -> "Backups"



click on "Datei auswählen", select the previously created backup and press "Import backup"

When you have imported a backup, the time zone set on your SunTed WebBox is reset to the time zone included in the backup. This ensures, that every switching time for scenarios are executed at the right time.

The box ID is reassigned when importing a database. All mobile devices must then therefore reconnect. That is: you need to send all users a new Token so that they can reconnect to the Webbox. After that, the Webbox can again be accessed remotely.

## Reset to factory settings

If your box no longer functions properly, you can restore it to factory settings. First, try rebooting the Webbox by simply interrupting the power supply before resetting the factory default settings. In most cases, the Webbox then works again, because if you haven't made a backup, all your data will be lost.

This can be done as follows if no other option remains. Unplug the box.

On the back of the device, there is a small hole immediately to the right of the network connector. This is where the reset button is "hidden". Press this button with a pointed object such as a straightened paperclip.

Plug the box back in while holding the reset button. Hold it for a few more seconds, until the box's LED starts flashing. Wait about 5-10 minutes, until the system is fully restored. During this time, do not disconnect the power supply under any circumstances.

You can now connect the box to your web browser as usual and assign an administrator password.

Please be the first to download software [updates](#) now.

Once the update is installed, you can import the backup of your database as described above.

## Note:



Please download the backup only after you have installed an update. Otherwise, the box may no longer start, due to a database that is only compatible with a newer version, the users' tokens must be recreated and sent if you have restored a backup.

## Delete database

Sometimes it may be desirable to delete the entire database. You can do this using the "Datenbank löschen" option in the "Administration" -> "Backups" section. When you delete the database, you delete all created folders and devices, as well as the scenarios. You also need to recreate the user accounts.

## UPDATES

If you want, you can install updates for your SunTed WebBox. Updates may include bug fixes and new features. If you want to check if there is an update, please connect your SunTed WebBox to the Internet. Now go to "Administration" -> "Updates".

The box receives information about this update. If an update is found, the changes are displayed. You can start the installation of the update, if you press "System-Update einspielen".

The update will now be downloaded and installed. Part of the SunTed WebBox is then restarted. You will see a pause screen waiting during this time. If the screen does not appear immediately, please wait. The whole process may take some time to complete. Do not unplug your box during the upgrade.

Tip: It doesn't hurt to back up your data before importing an update.

Please note! If you restore a backup, all your users' tokens must be recreated and sent, and users will be off-line.

This is only necessary when restoring a Backup, when up-dating, all connection data are not changed and all settings are retained.



## MEANING OF THE LIGHT EMITTING DIODES

The SunTed WebBox has two light-emitting diodes, hereafter referred to as "LEDs" for short.

- 
- |                         |               |
|-------------------------|---------------|
| • received radio signal | green (short) |
|-------------------------|---------------|

- 
- |                         |              |
|-------------------------|--------------|
| • transmit radio signal | blue (short) |
|-------------------------|--------------|

### Right-hand LED

- 
- |                      |                 |
|----------------------|-----------------|
| • System reinstalled | violet flashing |
|----------------------|-----------------|

- 
- |                |                |
|----------------|----------------|
| • System start | white flashing |
|----------------|----------------|

- 
- |                     |       |
|---------------------|-------|
| • Application start | white |
|---------------------|-------|

- 
- |  |       |
|--|-------|
| • Application ready, network via cable | green |
|--|-------|

- 
- |   |                |
|---|----------------|
| • Application ready, no network. latest LAN | flashing green |
|---|----------------|

- 
- |  |               |
|--|---------------|
| • Application ready, no network. latest WLAN | blue flashing |
|--|---------------|

- 
- |                                       |      |
|---------------------------------------|------|
| • Application ready, network via WLAN | blue |
|---------------------------------------|------|

- 
- |                         |     |
|-------------------------|-----|
| • Completed application | red |
|-------------------------|-----|

- 
- |   |                    |
|---|--------------------|
| • WPS-WLAN exploration started, no access point in WPS mode found yet | blue slow blinking |
|---|--------------------|

- 
- |  |                    |
|--|--------------------|
| • WPS-WLAN exploration started, access point found in WPS mode | blue fast blinking |
|--|--------------------|

## Operation and button colour responses

You can control your equipment via the web interface or via the app for Android or iPhone. For that control, you can be logged in as a normal user. You do not need to have administrator authorisation. Click on the link above on the left. This can be named as "Home" or "Haus" or it contains the individual name, which you have assigned your house.

You will now see the folder and subfolders of your house, e.g. different floors and rooms represented.

When you open a folder, you will see the devices included in it.

Click on a device. A window opens. You will see the available buttons for the device. Click a button with your mouse, to broadcast the saved radio code.

The button changes colour:

---

Colour:	Significance:
blue	the job was transferred to the SunTed WebBox
green	the radio command was sent
red	the radio command could not be sent

---

If the button does not change colour, it indicates that you are not connected to your box. Check your box's internet connection. If necessary, reloading the browser page may help.



## Creating users

To create users (Benutzer/Users) and give an authorisation over a certain area of the Webbox, you can authorise one or several folders (Ordner/Folder) for a user. First create a new user by clicking on (Benutzer/Users) in the left-hand selection menu a new window opens (Benutzerverwaltung/User Administration) click on new user (Neuer Benutzer/new user) fill in the required user name in his Email address and choose whether this user may also act as Manager, in which case a password is required, a manager cannot make any changes to the administration structure but can create and modify new users as well as control the devices etc. by logging in via a web browser. For a normal user you do not need to create a password, you can specify a Login duration of the token so that when it expires the user is automatically logged out, if you do not enter a date the login is valid indefinitely. Then click on save (Benutzer speichern/save user) the window closes and returns to the user overview.

Please note! Never use the same e-mail address more than once, as it will be combined as user name with the corresponding (Token) password.

## Create token

Again open the newly created user and create a token (login key for the app) click on (Create token/Create token) a token will be generated and also a QR code, note your Webbox needs to be connected to the internet. You can send the token by e-mail to the new user or simply have the QR code scanned on site, after receiving the token the user can choose to download the app for Android and or IOS, after the download he can click on the link to automatically log in, after which he can use the app, please note the token is only valid for 24 hours to log in to your app for the first time, after this the app will remain online until the chosen validity period has expired. If the user accidentally logs himself out after the 24-hour login time has passed, a new Token must be requested and or sent to the user again. If the app connection is offline use the reconnect function and not the Logout/Login function to reconnect.

## User authentication

To now authorise the user for a particular area of the Webbox, return to the menu item (Geräte/Devices) you make a selection of the folder this user is allowed to control, click on it after which the (Geräte/Devices) folder opens.

Click on the tab (Zugriffrechte/Access authorisation) and make a selection in the user list (verfügbare Benutzer/Available users) and move it by means of the arrows to the field (Ausgewählte Benutzer/Selected users) the users who are placed here get access to the selected folder and can only operate these devices. If no users are authorised in the main folder, all users have access to this parent folder, e.g. you can create a main entrance and/or shared car park in this folder so that all users can use it.

## MOBILE APPS

We recommend operating the SunTed WebBox using the mobile apps on your iPhone or Android mobile phone. You can find the apps in Apple AppStore and Google PlayStore.



App Store



Google play

## App connection

When you are successfully connected to the box, the first tab shows your folders and devices, which you can simply control, as in the web app.

### Favourites

Devices you use often can be marked as "favourites". Favourites are displayed in the middle tab.

To mark a device as a favourite, proceed as follows:

go to the desired device and click on it. The usual dialogue box to bid this device opens.

at the top left is a star symbol. Click on this symbol, to set the current device as a favourite.

Favourites can be set individually for each iPhone or Android mobile phone. This allows each user to set their own favourites.

### Tip:

Please note that favourites disappear if you change the box ID.

## Project systems

You can also obtain your Webbox system in a project housing (completely closed housing) and expand it by means of slave/repeater units to provide large projects in public areas with a master and slave/repeater system equipped with closed housings, preventing unauthorised resetting.

The Webbox master (SKX-WEBI) can be expanded with slave/repeater units (SKX-WEBIS), which are housed in the same closed project housing so that unauthorised access is not possible here either. An unlimited number of slaves can be connected to the master Webbox via a wired LAN connection so that in a large project, for example, a repeater can be placed on each floor to increase the transmission range and thus ensure good coverage. A selection can be made when creating the devices (Geräte/Devices) as to which slave/repeater will transmit the transmission code.



Each repeater also acts as a receiver and transmits the received signals to the master Webbox, also sensor signals from a weather station (SW3(D) or SW4) are received and further processed by the master Webbox.

## Create repeater

Make a selection in the left menu, click on Repeater, the "Repeater Administration" window opens, click on (Repeater hinzufügen/Add repeater) a dropdown list is created with all MAC addresses of the connected repeaters.

You can find these MAC addresses as a barcode and MAC address number description in the relevant slave/repeater.

These unique MAC addresses can now be given a meaningful name, making it easy to find your repeater in your system and also recognisable in the selection menu when creating the devices (Geräte/Devices) these names are shown in the dropdown menu (Funksignal über einen Repeater versenden/Send radio telegrams using a repeater), from this you can easily make the right choice, if you do not select a repeater (leave the tick unchecked) the radio signal is sent via the master Webbox.

## Help and support

You can always contact us by phone for technical support, in most cases we can assist you via Teamview.

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