x-touch**BOX** x-touch**PANEL**

OPERATION MANUAL

a world of bright ideas®

TRIDONIC.ATCO

Table of contents

1 About this user manual

This user manual contains important information in order to operate the system safely, properly and economically.

The user manual is intended for the owner of the system and the operating personnel.

Only few things are different between x-touchBOX and x-touchPANEL. The differences are indicated in this user manual.

Mounting instructions for x-touchBOX and x-touchPANEL supplement the user manual.

The following symbols are used in this user manual:

Symbol	Meaning
	Notes contain important information for operating the units.
-	Prerequisites that must be checked prior to a certain action are marked with a hyphen.
➢	This symbol is used for instructions that consist of a single action.
1.	In the case of instructions consisting of several actions, the individual actions are numbered.
=	Results of an instruction are marked with an equal sign.
bold	Buttons and terms used in the ›x-touch‹ software are marked in bold.

2 Safety

Designated use

x-touchBOX/PANEL is used for commissioning and operating DALI lighting systems. DALI is a standardized digital protocol for controlling lighting technology devices in accordance with the IEC 929 standard.

x-touchBOX can be connected to a maximum of 64 DALI operating devices. x-touchPANEL contains two DALI lines and can be connected to a maximum of 128 DALI operating devices.

Only operating devices equipped with a DALI interface may be connected.

Safety instructions

The following safety instructions must be observed when operating the x-touchBOX/PANEL:

- Every operator must read this user manual carefully and comply with the instructions contained therein.
- The owner must ensure that the wiring instructions and specifications for DALI lines are observed.
- Only one x-touchBOX may be connected to each DALI line since the bus supply is already integrated. Combinations with one or several x-touchPANEL in one DALI line are possible, however.
- Touching the display with a sharp-edged object can damage the display. All display functions can be called up by touching the buttons.
- Only calibrate the device using the touchpanel and not via the web browser.

3 Design and function

x-touchBOX/PANEL is an operating and control device for DALI lighting systems. The ›x-touch‹ software which is controlled via a colour touchscreen is integrated in the x-touchBOX/PANEL. The unit is designed as a box and a panel. When the unit is surface-mounted, it can be wired in a standard flush-mounted socket. The unit can be combined with controllers of the ›comfortDIM series‹.

The ›x-touch‹ software provides the following functions:

- Applications
  - **Basic** for white light applications
  - **Colour** for RGBW applications
- Configuration of
  - 16 scenes
  - 99 light sequences
  - 7 time-controlled schedules
  - 1 calendar-controlled schedule list
- Real-time clock/calendar
- Configuring the buttons for manual call
- Designing the buttons for manual call
- Manual switching and dimming
- Frame light and adjustable display light (only x-touchPANEL)
- Communication via interfaces:
  - Infrared (IrDA)
  - Ethernet (TCP/IP) (only x-touchPANEL)

The functions of x-touchBOX and x-touchPANEL are identical with only a few exceptions. These exceptions are listed in the following table (see also "Technical data", page 51).

Feature	x-touchBOX	x-touchPANEL
Number of DALI lines	1	2
Connection	max. 64 DALI operating devices	max. 128 DALI operating devices
Bus supply	integrated	external
Interfaces	IrDA	IrDA, Ethernet
Frame light	—	yes
Display light	automatically dimmed 2 minutes after last activation	permanently ON or automatically dimmed 2 minutes after last activation

3.1 DALI – Communication standard

DALI (Digital Adressable Lighting Interface) is a digital standardized protocol in acc. with IEC 929 for flexible, room-based lighting management.

A maximum of 64 DALI operating devices can be assigned to up to 16 individually controllable lighting groups in one DALI line. One or several DALI lines can be connected via control devices.

DALI provides the system programmer with a set of commands that facilitates specific programming without special knowledge of lighting technology:

- Control line polarity does not have to be observed
- Standard cables can be used
- Fail-safe transmission due to digital technology

Compared with analog technology, DALI offers the following additional advantages:

- Each DALI operating device can be activated individually.
- DALI operating devices can be assigned to several groups simultaneously.
- Scene lighting and grouping are stored in the DALI operating device.
- Special settings such as the speed of colour change (fading) and net recovery behaviour are possible.
- When individual scenes are activated, all DALI operating devices reach their dimming value simultaneously.
- The dimming range depends on the DALI operating device and is between 0.1 and 100 %.

3.2 Software ›x-touch‹

The following explanations will help you understand the ›x-touch‹ software.

Term	Meaning
Operating device	DALI operating device
Group (G)	The ›x-touch‹ software communicates with the operating devices (max. 64 for each DALI line) via groups (max. 16). A group can be switched and dimmed individually. Groups can also include EM, HID, LV, INC, CONF, LED or Somfy operating devices.
Zone (Z)	Zones are only used in the **Colour** application. One zone consists of four predefined groups representing the colours red, green, blue and white.
Scene (S)	A scene serves for storing a lighting situation defined by the setting of one or several groups.
Sequence (SQ)	Several scenes are stored in a time-specific order in a sequence.
Schedule (SDL)	One or several sequences and/or scenes are stored in a time-specific order in a schedule. A schedule starts automatically every 24 hours at a preset time of day.
Schedule list (SDLL)	Every schedule is assigned to one weekday. In this way, a schedule list is created for the calendar-controlled, uninterruptible automation of lighting situations.
Scheduler	When Scheduler is activated, it appears in the **Home** menu and enables a sequence, schedule list and schedule to be controlled manually (Start, Pause, Stop and Off).

Basic application

Typical application examples for the **Basic** application are rooms where mostly white light is used, such as e.g. public rooms, production halls, restaurants and hotels.

You can define a maximum of:

- 16 groups
  - with up to 64 devices for x-touchBOX
  - with up to 128 devices for x-touchPANEL
- 16 scenes
- 99 sequences
- 7 schedules
- 1 schedule list

The configuration of the **Basic** application is described in chapter "Basic application", page 19.

Colour application

All colours of the RGB colour space are composed additively of the basic colours red, green and blue (RGB). For a better representation of white light, an additional white light source is used (RGBW colour mixing).

The colour control of a lighting system is performed in the **Colour** application. The **Colour** application is different from the standard **Basic** application with respect to the grouping of the operating devices.

In the ›x-touch‹ software, each RGB/RGBW operating device is assigned to a colour scale (red, green, blue, white) of a zone. Four zones with 4 colour scales are available. The colour scale of a zone corresponds to a group. In the **Home** menu, the white light can be switched and dimmed via groups 1 to 4.

The table shows the assignment of the 16 groups to the four colours of the individual zones. Zone assignment is automatically controlled by the software.

	W	R	G	B
Z1	1	5	6	7
Z2	2	8	9	10
Z3	3	11	12	13
Z4	4	14	15	16

Typical application examples for the **Colour** application are rooms where mainly RGBW operating devices are used to implement freely designed colour changes and colour effects, e.g. in shop windows, bars and exhibition spaces.

You can define a maximum of:

- 4 zones with the 4 colours red, green, blue and white
  - with up to 64 devices for x-touchBOX
  - with up to 128 devices for x-touchPANEL
- 16 scenes for white light
- 8 colour scenes
- 99 sequences
- 7 schedules
- 1 schedule list

The configuration of the **Colour** application is described in chapter "Colour application", page 30.

3.3 Navigation

When you navigate through the ›x-touch‹ software, you are guided through menus that are called up by pressing symbols and buttons. Certain functions - e.g. grouping - can be operated using Drag & Drop, i.e. a symbol can be touched and moved to the intended position on the touchscreen.

The symbols have the following meanings:

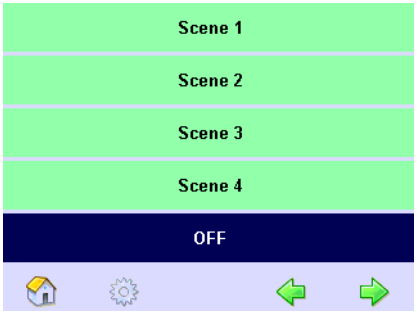
Button	Function
	Opens the **Home** menu.
	Opens the **Main Menu**.
	Opens the **Time & Date** dialog box.
	Displayed when a function is active (e.g. called up sequence). Opens the page where the function is started/stopped.
	Opens the following or previous page in a menu.

 **Home**

In the **Home** menu, lighting situations can be called up manually (see also "Operation in the **Home** menu", page 34). The number and selection of lighting situations are configured depending on the application. The buttons of the lighting situations can be designed as desired, e.g. with pictograms or specific names (see "Configuring buttons in the Home menu", page 37).

The following actions are possible in the **Home** menu:

- Switching a scene on and off
- Dimming group/s or all operating devices up or down
- Switching a group on and off
- Dimming a group up and down
- Starting, interrupting and ending a sequence, schedule or schedule list
- Deactivating the touchscreen for cleaning

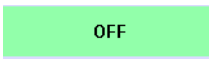


1. Press the **Home** button.

2. Press the arrow keys as often as necessary until the desired lighting situation is displayed (e.g. scene).

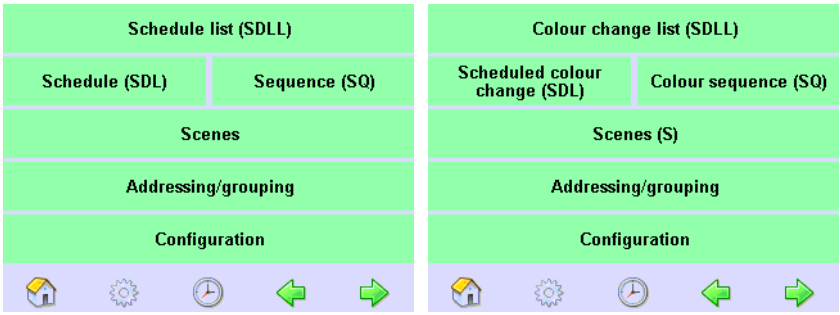
3. Press the button to call up the lighting situation (e.g. scene).

4. Press the arrow keys to dim the operating devices up or down.



5. Press the **OFF** button to switch the lighting situation off.

Main Menu In the **Main Menu**, basic software settings are configured, lighting situations are defined and time sequences are specified. The **Main Menu** is different in the **Basic** and **Colour** applications.



Button	Function
Schedule list (SDLL)	Opens the page where you can assign schedules to certain weekdays.
Schedule (SDL)	Opens the page where you can define schedules.
Sequence (SQ)	Opens the page where you can assign sequences to the timeline and determine fade times.
Scenes (S)	Opens the page where you can assign the corresponding groups to a scene.
Addressing/grouping	Opens the page where you can select the addressing method, address the devices and group them in groups or zones.
Configuration	Opens the page where you can configure the software and communicate via interfaces.

1. Press the **Main Menu** button.
2. Press the button for the desired submenu.

4 Basic settings

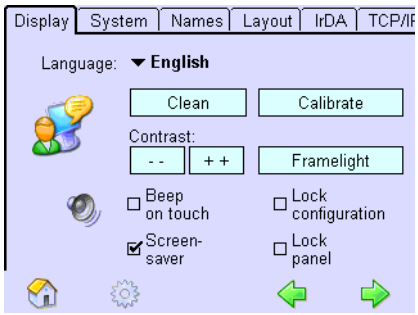
The following table shows the basic settings that can be made in the tabs of the **Configuration** menu.

Tab	Entry	Function
Display	Language	Setting the ›x-touch‹ software language.
	Clean	Briefly locking the touchscreens for cleaning.
	Calibrate	Centering the screen surface and touchscreen.
	Contrast	Reducing or increasing the screen surface contrast.
	Beep on touch	Activating or deactivating beep on touch.
	Lock configuration	Locking or releasing the user interface in the **Home** menu (password-protected).
	Screen-saver	Activating or deactivating the screen saver.
	Lock panel	Locking or releasing the touchscreen (password-protected).
System	Program version	Indicates the ›x-touch‹ software version.
	Display name	Enter name for x-touchBOX/PANEL (for identification when several devices are used).
	Reset to factory defaults	Resetting the values to the factory default values, e.g. **Layout**, **Names**.
	Action at net recovery	Controlling the behaviour after a power supply interruption.
	Application	Selecting the **Basic** or **Colour** application.
Names	Sequences, Edit	Assigning application-specific names to sequences 1 to 99.
	Scenes, Edit	Assigning application-specific names to scenes 1 to 16.
	Groups, Edit	Assigning application-specific names to groups 1 to 16.
	Schedules, Edit	Assigning application-specific names to schedules 1 to 7.
	Customized buttons	Using application-specific graphics for buttons in the **Home** menu.

Tab	Entry	Function
Layout	S1...S4, S5...S8, S9...S12, S13...S16	Selecting buttons for the **Home** menu (4 scenes on each page).
	Dim	Activating the dimming function for buttons activated in the first column.
	S1...S8, S9...S16 (Colour application : 2 zones, 4 zones, colour scenes)	Selecting buttons for the **Home** menu (8 scenes on each page, in the Colour application 2 zones, 4 zones or 8 colour scenes).
	Scheduler	Activating the Scheduler. Scheduler enables controlling the sequence, schedule list and schedule manually (Start, Pause, Stop and Off).
	G1...G4, G5...G8, G9...G12, G13...G16 (Colour application : G1...G4)	Selecting buttons for the **Home** menu (4 groups on each page). Only the 4 groups White are possible in the **Colour** application.
	Cleaning	Selecting buttons **Clean**, **OFF** and **ON** for the **Home** menu. **Clean** deactivates the touchscreen for 20 seconds during cleaning. The **OFF** and **ON** buttons are used for switching configured lighting situations.
IrDA	Infrared devices	Field that displays the IrDA device that communicates with x-touchBOX/PANEL.
	Reset	Repeat establishing the connection.
	Send	Starting transmission.
	Status	Shows the transmission status.
	Enable discovery	Activating or deactivating device identification.
	Enable file reception	Activating or deactivating file reception.
TCP/IP	MAC	Shows the MAC address of the x-touchPANEL.
	IP Picker	Entering the IP address (for Ethernet connection).
	Subnet Mask	Entering the subnet mask (for Ethernet connection).
	Gateway	Entering the gateway (for Ethernet connection).
	Status	Shows the connection status.

4.1 Opening the Configuration menu

1. Press the **Main Menu** symbol.
2. Press the **Configuration** button.
   = The **Configuration** window with the **Display** tab is displayed.



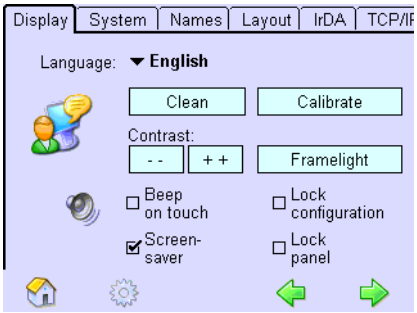
3. Press the green arrow key to call up the following tab.

4.2 Selecting the language

The language of the software interface is selected in the **Display** tab.

– The **Main Menu** is open.

1. Press the **Configuration** button.
   = The **Configuration** window with the **Display** tab is displayed.



2. Press the arrow key next to **Language**.
   = The list of available languages is displayed.
3. Press the language you wish to select.
   = The software interface is now displayed in the selected language.

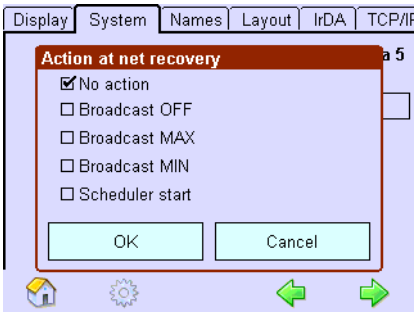
4.3 Behaviour at net recovery

In the **Configuration** menu you can define how the system will behave after a power failure.

Function	Action at net recovery
No action	No commands are transmitted.
Broadcast OFF	All operating devices are switched off.
Broadcast MAX	All operating devices are set to maximum luminous intensity. Somfy components are started.
Broadcast MIN	All dimmed operating devices are set to the stored dimming value and all other devices are set to maximum luminous intensity. Somfy components are shut down.
Scheduler start	The Scheduler is started. A sequence is restarted, schedule and schedule list are continued.

– The **System** tab is open in the **Configuration** menu.

1. Press the **Action at net recovery** button.
   = The dialog box **Action at net recovery** is displayed.



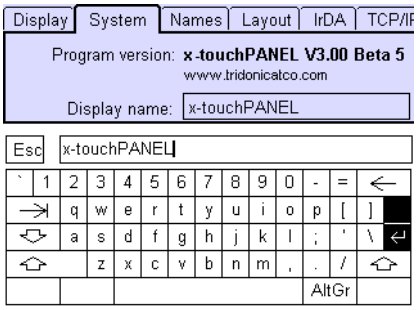
2. Activate the desired check box and confirm with **OK**.

4.4 Determining the display name and program version

If an Ethernet connection is established you can use the keyboard of your PC or laptop.

– The **Main Menu** is displayed.

1. Press the **Configuration** button.
2. Press the **System** tab.
   = The display name and **Program version** are displayed.
3. Press the display name to change it.
   = The dialog box **Keyboard** is displayed.



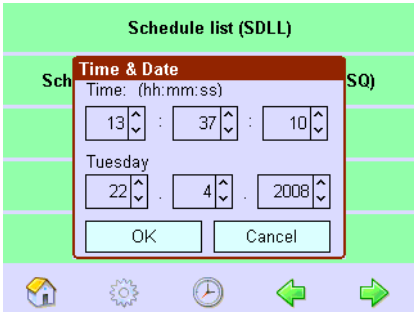
4. Enter the new name and confirm with the **Enter** key.
5. Press the **Esc** button to abort the process.

4.5 Setting the time and date

In order for the functions of time-controlled actions and for the frame light to work, the time and date must be set.

In the case of a power failure, a back-up battery supplies the clock for at least 24 hours. If no voltage is supplied to the x-touchBOX/PANEL for a longer period of time, the date and time must be set again.

1. In the **Main Menu**, press the **Time & Date** symbol.
   = The dialog box **Time & Date** is displayed.



2. Set the time and date with the arrow keys and confirm with **OK** .

4.6 Adjusting the touchscreen

In the **Display** tab, the user interface can be adjusted to suit your requirements.

It is possible to load an application-specific screen saver (see "Loading application-specific buttons and screen saver", page 40).

– The **Display** tab is open in the **Configuration** menu.

- - ++

➢ To modify the contrast, press the **- -** or **+ +** buttons.

➢ To activate a confirmation sound that is generated whenever a button is pressed, activate the **Beep on touch** check box.

➢ To switch on the screen saver, activate the **Screen saver** check box.
= When the screen saver is activated, it appears two minutes after the touchscreen has been touched last.

➢ To center the touchscreen, press the **Calibrate** button on the touchscreen and follow the instructions. Only carry out this function on the touchscreen and not via the web browser.

4.7 Setting the frame light and display light

Setting of frame light and display light is only possible in conjunction with x-touchPANEL x-touchBOX lacks frame light and the display light is set at the factory and cannot be modified.

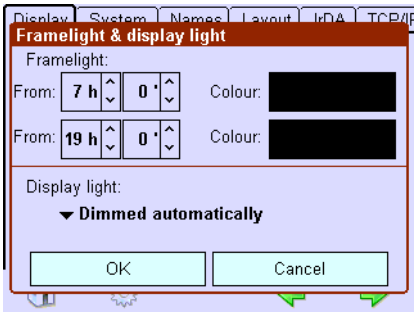
The frame light is controlled in two intervals. Therefore, you can assign one colour for each interval to the frame light or switch it off for one interval (e.g. night service). Select the colour in the dialog box **Framelight**.

If you do not activate the screen saver, TridonicAtco recommends using the display light **Dimmed automatically** for x-touchPANEL, since this will prevent an image persistence.

– Time and date are set.
– The **Display** tab is open in the **Configuration** menu.

Framelight

1. Press the **Framelight** button in order to change the frame light or display light.
   = The dialog box **Framelight & display light** is displayed.



2. To set the two starting times for the frame light, set the times with the arrow keys.
3. To set the frame light colour, press the colour field and select the desired colour or enter the colour using the RGB values and confirm with **OK**.
   - or -
   To switch off the frame light, press ›Black‹ or enter the RGB values 0/0/0 and confirm with **OK**.
   = The frame light is displayed in the selected colour or goes out.
4. Press the arrow key to set the display light.
   = The selection window is displayed.
5. To dim down the display light 2 minutes after the device has been operated last, activate **Dimmed automatically**.
   - or -
   To maintain the display light, activate **Always ON**.

4.8 Assigning names

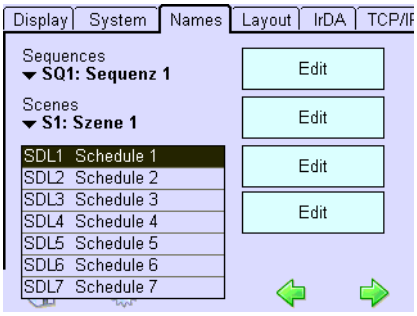
To facilitate configurations and operating steps for later operation, you can assign application-specific names to **Scenes, Sequences**, **Groups** and **Schedules**.

If an Ethernet connection is established, you can use the keyboard of your PC for entering the names to be assigned with x-touchPANEL (see "Ethernet interface", page 44).

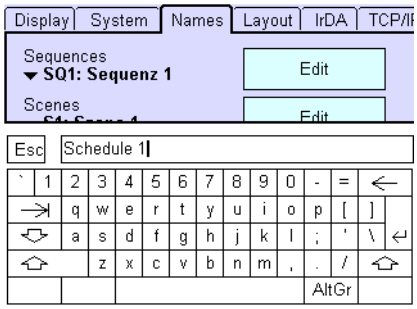
Names are assigned in the same way for scenes, sequences, groups and schedules.

– The **Names** tab is open in the **Configuration** menu.

1. Press an arrow key below the entries **Sequences**, **Scenes**, **Groups** or **Schedules**.
   = The selection window is displayed.



2. Select the lighting situation and press the **Edit** button next to it.
   = The dialog box **Keyboard** is displayed.



3. Enter the new name and confirm with the Enter key.

4. Press the **Esc** button to abort the process.

If you activate the check box **Customized buttons**, application-specific graphics are assigned to the buttons of the **Home** menu, irrespective of the assigned names. The graphics can contain symbols or other fonts (see "Loading application-specific buttons and screen saver", page 40).

4.9 Password protection

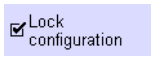
If you assign a password, you can limit the access in two stages.

- **Lock configuration**:
  The **Home** menu can be freely accessed for operation. Configuration of the buttons and the **Main Menu** are password-protected.
- **Lock panel**
  The entire touchscreen is password-protected.

4.9.1 Locking the configuration

Make sure that you open the **Home** menu after you have locked the configuration. Only then will the password protection take effect.

– The **Display** tab is open in the **Configuration** menu.



1. Activate the **Lock configuration** check box.
   = The password-protection is now set (factory setting ›1234‹). A dialog box is displayed where you can change the password.
2. To change the password, press **Yes** and enter the old password in the dialog box. Enter the new password in the following two dialog boxes and confirm with **OK**.
3. To modify the password, press **No**.
4. Press the **Home** menu to activate password protection.
   = The **Main Menu** can only be called up after entering the password.

4.9.2 Locking the panel

Make sure that the screen saver appears after you have locked the entire touchscreen. Only then will the password protection take effect.

– The **Display** tab is displayed in the **Configuration** menu.

1. To lock operation of the entire touchscreen, activate the check boxes **Screen-saver** and **Lock panel**.
   = The password-protection is now set (factory setting ›5678‹). A dialog box is displayed where you can change the password.
2. To change the password, press **Yes** and enter the old password in the dialog box. Enter the new password in the following two dialog boxes and confirm with **OK**.
3. To modify the password, press **No**.
   = When the screen saver appears, the touchpanel can only be operated after entering the password.

4.10 Cleaning the touchscreen

In order to clean the touchscreen without accidentally changing settings, the touchscreen can be temporarily deactivated.

– The **Display** tab is displayed in the **Configuration** menu.

1. Press the **Clean** button.
   = The touchscreen is deactivated for 20 seconds. The remaining time is indicated.
2. Clean the touchscreen with a soft, damp cloth.

If you activate the **Clean** check box in the **Display** tab of the **Configuration** menu, a button is displayed in the **Home** menu which also deactivates the touchscreen for cleaning. Cleaning is then also possible without a entering password if the configuration is locked.

5 Basic application

This chapter contains the following topics:

- Addressing and grouping
- Scenes (S)
- Sequences (SQ)
- Schedules (SDL)
- Schedule list (SDLL)

In order to facilitate programming and operating steps, you can assign names to groups, scenes, sequences and schedules (see "Assigning names", page 16).

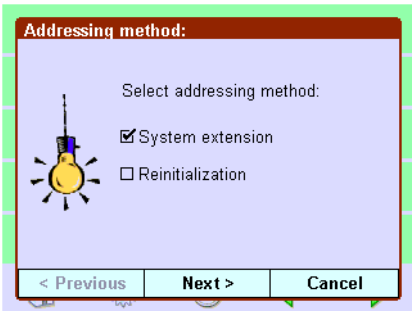
5.1 Addressing and grouping

To enable communication of x-touchBOX/PANEL with the operating devices, every operating device of the system must be individually addressed and assigned to a group. Addressing is performed automatically, grouping must be done manually.

For the subsequent operating devices, the address number is supplemented with the specific abbreviation. Identification of the components is only displayed if this is supported by the units.

- EM
- HID
- LV
- INC
- CONF
- LED
- Somfy

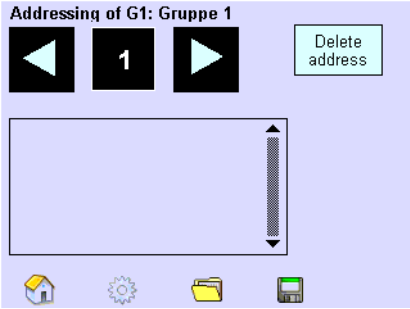
The dialog box **Addressing method** provides two ways of addressing:



- **System extension**
  Only newly added operating devices are addressed. The existing addresses remain unchanged.
- **Reinitialization**
  All operating devices of the system are re-addressed. The existing addresses are overwritten.

After automatic addressing, the addresses (1 to 64/128) and, if applicable, specific operating devices are indicated (e.g. HDI).

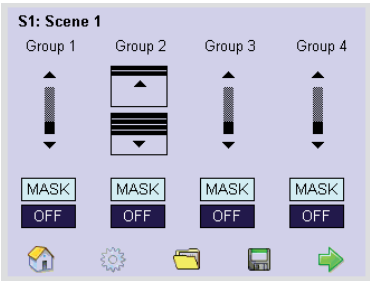
The following operating elements are available for grouping.



Element	Meaning/Function
Addressing of G1: Group 1	The group number (G1) is set at the factory, the group name (Group 1) can be assigned as desired.
1	Use the arrow keys to select the operating device that you want to assign to a group.
delete	Use this button to remove the selected device from the group.
	The **Folder** button opens the dialog box **Load group**.
	The **Save** button opens the dialog box **Save as group**. You select a group to save the current settings.

If an operating device is assigned to several groups, the value of the higher group number is saved.

If the **Groups** are displayed in the **Home** menu, the dimming function is replaced by moving the blinds if there is an integrated blinds controller (Somfy). This is indicated as follows:



5.1.1 Addressing and grouping operating devices

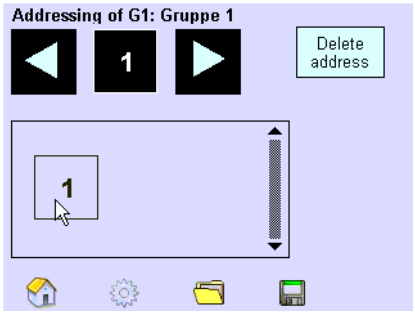
For x-touchBOX, 64 device addresses are available, for x-touchPANEL, addresses 1-64 are assigned for DALI line 1, and addresses 65-128 are assigned for DALI line 2.

Use Drag & Drop to group the operating devices, i.e. touch the device address and drag the symbol over the touchscreen to the group field.
When the device address is touched, the corresponding operating device will react.

TridonicAtco recommends storing Somfy operating devices in separate groups, i.e. separately from other operating devices.

– The **Main Menu** is open.

1. Press the **Addressing/grouping** button.
   = The dialog box **Addressing method** is displayed.
2. Activate the check box **System extension** or **Reinitialization**.
3. Press the **Continue >** button.
   = The ›x-touch‹ software searches for connected operating devices and indicates the number of devices it has detected.
4. When the message **Search completed** is displayed, press the **Complete** button.
   = Every device is addressed.
   The **Addressing of G ...** page is displayed.
5. Press the **Folder** button to select the group in which the operating devices are to be stored.
   = The dialog box **Load group** is displayed.
6. Select the group with the arrow keys and confirm with **OK**.
   = The group is indicated.
7. Select the address of the operating unit using the arrow keys.
8. Move the address of the operating device (1) to the group field using Drag & Drop.
   = The device address is displayed in the group field of the currently selected group.



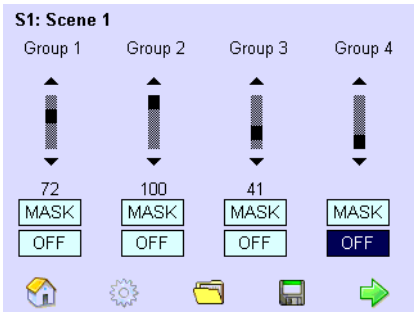
9. Select further addresses using the arrow keys and drag them to the same group field.
10. Press the **Save** button.
    = The dialog box **Save as group** is displayed.
11. If necessary, change the group in which the operating devices are to be stored and confirm with **OK**.
    = The group is stored.
12. Repeat steps 5-11 until every operating device is assigned to a group.

Grouping is not stored until you press the **Save** button and confirm with **OK** in the dialog box.

5.2 Scene

One or several groups are stored in a scene. The groups are dimmed, masked or switched off in such a way that a lighting situation is created which meets the requirements. Up to 16 scenes with up to 16 groups can be stored in one scene.

To set a scene, the following operating elements are used:



Element	Meaning/Function
S1: Scene 1	The scene number (S1) is set at the factory, the scene name (Scene 1) can be assigned as desired.
	A scroll bar shows the setting of the dimming value. Use the arrow keys or the black field on the scroll bar to change the dimming value. The dimming value appears below the scroll bar in percent (51).
	If a group is occupied by Somfy components, the **OPEN** and **CLOSE** buttons are displayed in this group. Use these buttons to open or close the blinds.
MASK	If the **Mask** button is activated, the settings for this group are maintained independent of this scene.
OFF	If the **OFF** button is activated, the group is switched off in the scene.
	Press the **Folder** button to open the dialog box **Load scene**.
	Press the **Save** button to open the dialog box **Save scene**. The group settings are stored in the desired scene.
	Use the green arrow key to go to the next page.

5.2.1 Configuring scenes

In a scene, one of the following settings is made for each group:

- **Dim**
  - or -
- **Off**
  - or -
- **Mask**

To configure a scene, one operating device must only be assigned to one group, because otherwise conflicts might occur.

– One or several groups are defined.

– The **Main Menu** is displayed.

1. Press the **Scene** button.
   = The **S...:** page is displayed.
2. Press the **Folder** button to select the scene in which setting of the groups is to be saved.
   = The dialog box **Load scene** is displayed.
3. Use the arrow keys to select the scene (**S1** to **S16**) and confirm with **OK**.
   = The scene is displayed.
4. Press the arrow keys of the scroll bar until the desired value is reached to set the dimming value for the first group.
   - or -
   Press the **Mask** button so that the settings of the scene do not influence the first group.
   - or -
   Press the **OFF** button to switch off the first group.
5. Repeat steps 3 to 4 for the three remaining groups.
6. Press the **Save** button.
   = The dialog box **Save as scene** is displayed.
7. If necessary, change the scene in which the groups are to be saved and confirm with **OK**.
   = The scene is saved.
8. To define further groups for this scene, press the green arrow key and repeat steps 3 to 6 on the following two pages.
9. To define additional scenes, press the **Folder** button and select a new scene using the arrow keys. Repeat steps 2 to 7 if necessary.

A scene is not saved until you press the **Save** button and confirm the dialog box **Save as scene** with **OK**.

5.3 Sequence

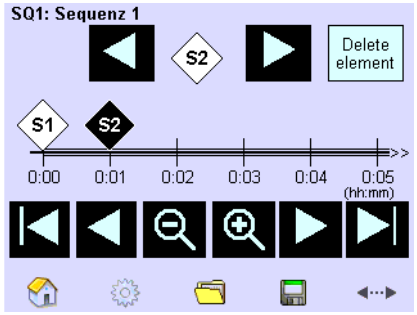
Start, duration and repetition of scenes are saved in a defined order in a sequence. You can assign scenes to a sequence several times and in any order.

A sequence is ended if:

- Schedule list, schedule or another sequence is called up.
- The sequence is ended manually.
- The end of the sequence is reached.

A scene will only achieve its final dimming level within a sequence if no other sequence is called up during the fade time.

To define a sequence, the following operating elements are available:



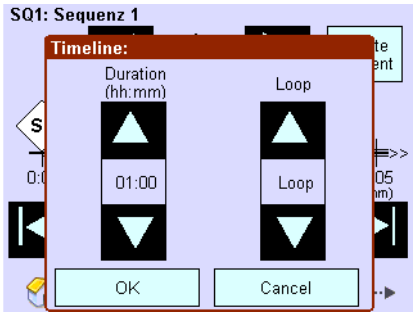
Element	Meaning/Function
SQ1: Sequence 1	The sequence number (SQ1) is set at the factory, the name (Sequence 1) can be assigned as desired.
S1	Use the arrow keys to select the scene you want to include in the timeline.
Delete Element	Use this button to remove the selected scene from the sequence.
S1 S2 OFF 0:00 0:15 0:30	The timeline visualizes: - The duration of a sequence (max. 23:59:59) - The start of a scene - The intervals between scenes - The end of a scene
	Use the arrow keys to move the visible section of the timeline.
	Use the magnifier to scale the timeline section up or down.
	Press the **Folder** button to open the dialog box **Load sequence**.
	Press the **Save** button to open the dialog box **Save sequence**. The current settings are saved in the desired sequence.
	Press the **Timeline** button to set the duration and the number of repetitions of a sequence.

5.3.1 Configuring sequences

In a sequence, scenes are saved at a defined position on a timeline. The number of repetitions is determined with the digits **2** to **6** and **Loop**. If you enter **1**, the sequence is only called up once. If you enter **2**, it is called up twice, and so on. **Loop** means that the sequence will be permanently repeated.

– One or several scenes are defined.
– The **Main Menu** is displayed.

1. Press the **Sequence** button.
   = The **SQ...** Page is displayed.
2. 
   Press the **Folder** button to select the sequence in which the scenes are to be stored.
   = The dialog box **Select sequence** is displayed.
3. Use the arrow keys to select the sequence (**SQ1** to **SQ99**) and confirm with **OK**.
   = The sequence is indicated.
4.
   Press the **Timeline** button to enter the duration of the sequence.
   = The dialog box **Timeline** is displayed.



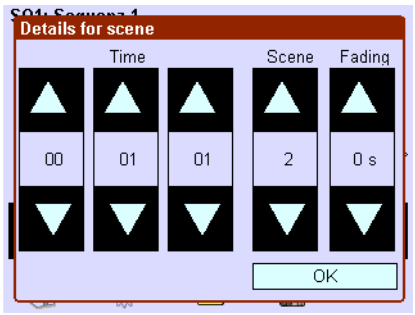
5. Press the arrow keys of the **Duration** field until the desired period is set.
   - or -
   Press the numbers in the number field. Select the duration in the dialog box **Time entry** and confirm with **OK**.
6. Press the arrow keys in the **Loop** field until the correct number of repetitions is set.
7. Confirm the entries with **OK**.
8. 
   With the arrow keys and the magnifier, adjust the timeline section in such a way that the starting time for the scene is visible.
9. 
   Use the arrow keys to select the marker **Scene** (**S1**-**S16**).
10. 
    Move the marker **Scene** to the desired position on the timeline using Drag & Drop.
11. Repeat steps 8 to 10 to enter further scenes.
12. 
    Press the **Save** button.
    = The dialog box **Save sequence** is displayed.
13. If necessary, change the sequence in which the scenes are to be saved and confirm with **OK**.
    = The sequence is saved with the current settings.
14. To define additional sequences, repeat steps 2 to 13.

A sequence is not saved until you press the **Save** button and confirm the dialog box **Save sequence** with **OK**.

5.3.2 Setting the exact starting and fade time of a scene

After you have moved the scenes to the timeline you can set the exact starting and fade times for the individual scenes.

– One or several scenes are stored in a sequence.

1. Touch the marker **Scene** on the timeline until the dialog box **Details for scene** is displayed.
   = 

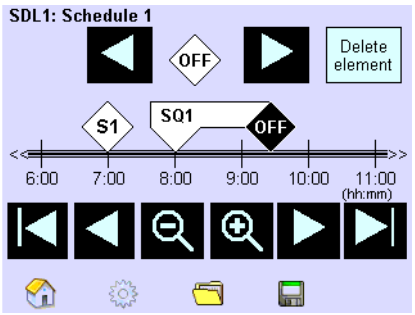
2. Press the arrow keys on the first 3 fields **Time** (hh:mm:ss) until the desired starting time is set.
3. Check that in the 4th field **Scene** the scene is set for which this is to be the starting time. Press the arrow keys as often as necessary until the desired scene is displayed.
4. In the 5th field **Fading** press the arrow keys until the desired fade time (0 to 90 s) is displayed.
5. Confirm the settings with **OK**.
6. Press the **Save** button.
   = The dialog box **Save sequence** is displayed.
7. If necessary, change the sequence in which the scenes are to be saved and confirm with **OK**.
   = The sequence is saved.
8. To set the exact starting or fade time of scenes for further sequences, repeat steps 1 to 7.

5.4 Schedule (SDL)

A schedule comprises the time between 0:00:00 and 23:59:59. A schedule is a defined sequence of scenes and sequences. A schedule can be started manually or it can start automatically within an activated schedule list. x-touchBOX/PANEL can save up to 7 schedules, i.e. no more than one schedule for each weekday.

Depending on the application, you can use scenes and sequences several times and in any order in a schedule. The duration of the sequences is visualized by the marker flags on the timeline.

To define a schedule, the following operating elements are available:



Element	Meaning/Function
SDL1: Schedule 1	The schedule number (SDL1) is set at the factory, the name (Schedule 1) can be assigned as desired.
SQ1	Use the arrow keys to select the sequences and scenes you want to include in the timeline. After **S16** the marker **Off** is displayed. The marker **Off** ends a scene, sequence or schedule and can be set several times.
Delete Element	Use this button to remove the selected scene or sequence from the schedule.
S3 SQ1 OFF 6:00 7:00 8:00	The timeline visualizes: - The complete schedule (0:00 to 23:59) - The start of a scene/sequence - The duration of a scene/sequence - The end of a scene/sequence - The intervals between scenes/sequences
	Use the arrow keys to move the visible section of the timeline.
	Use the magnifier to scale the timeline section up or down.
	The **Folder** button opens the dialog box **Load schedule**.
	The **Save** button opens the dialog box **Save schedule**. The current settings are saved in the desired schedule.

If a Sequence, Schedule or Schedule list is started in the Scheduler, the currently enabled function (Sequence, Schedule, Schedule list) is terminated.

5.4.1 Configuring schedules

A schedule is defined by the order of scenes and sequences on the timeline.

– Time and date are set.
– Scenes and/or sequences are defined.
– The **Main Menu** is displayed.

1. Press the **Schedule (SDL)** button.
   = The **SDL ...** window is displayed.
2.  Press the **Folder** button to select the schedule in which the scenes/sequences are to be saved.
   = The dialog box **Load** is displayed.
3. Select the schedule with the arrow keys and confirm with **OK**.
   = The schedule is displayed.
4.  Use the arrow keys to select the marker **Scene** or **Sequence**.
5.  Move the marker scene or sequence to the desired position on the timeline using Drag & Drop.
6. To enter additional scenes or sequences, repeat steps 4 and 5.
7.  Press the **Save** button.
   = The dialog box **Save** is displayed.
8. If necessary, change the schedule in which the scenes/sequences are to be saved and confirm with **OK**.
   = The schedule is displayed.
9. To define additional schedules, repeat steps 2 to 8.

 A schedule is not saved until you press the **Save** button and confirm the dialog box **Save schedule** with **OK**.

 The exact starting time of a sequence is set in the same way as for a scene (see "Setting the exact starting and fade time of a scene", page 26).

5.4.2 Loading or checking a schedule

– Time and date are set.
– Scenes and/or sequences are defined.
– The **Main Menu** is displayed.

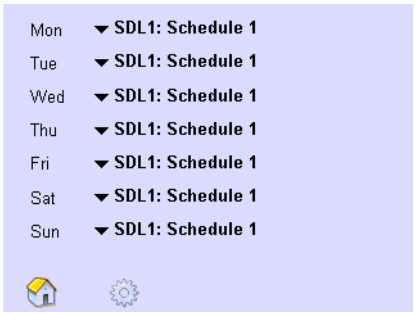
1. Press the **Schedule (SDL)** button.
   = The **SDL ...** window is displayed.
2.  Press the **Folder** button.
   = The dialog box **Load schedule** is displayed.
3. Select the schedule with the arrow keys and confirm with **OK** .
   = The schedule is displayed on the timeline.
4.  Change and save the schedule as required.

5.5 Configuring a schedule list

Assign the schedules you have defined to the days of the week to create an uninterrupted schedule list. In the factory setting, the first schedule is assigned to all weekdays.

– One or several schedules are defined.
– The **Main Menu** is displayed.

1. Press the **Schedule list (SDLL)** button.



=

2. Press the black arrow key.
   = The selection window is displayed showing **SDL1** to **SDL7** and **Off**.
3. Select the required schedule.
   - or -
   Select **Off**.
4. Repeat steps 2 to 5 for each weekday.
   = The schedule list is now saved without confirmation.

A schedule list is started, ended or interrupted in the **Home** menu (see "Manually switching a sequence, schedule or schedule list", page 41).

6 Colour application

This chapter only explains the operating steps that are different from the **Basic** application.

It contains the following topics:

- Changing the application to **Colour**
- Addressing and zone assignment
- Colour sequences

The following topics are performed identically in both applications. They are explained at the points indicated.

- Configuring scenes (see "Configuring scenes", page 23).
- Configuring schedules (see "Schedule (SDL)", page 27).
- Configuring a schedule list (see "Configuring a schedule list", page 29).

6.1 Changing the application

When the application is changed, the ›x-touch‹ software is automatically restarted.

– The **System** window is open in the **Configuration** menu.

1. Press the **Application** button.
   = The dialog box **Application** is displayed.
2. Press the arrow key.
   = The **BASIC/COLOUR** selection window is displayed.
3. Press the **COLOUR** button and confirm with **OK**.
4. Confirm the security enquiry with **OK**.
   = After restarting, the **Colour** application is set.

If you want to change to the **Basic** application, proceed in the same way.

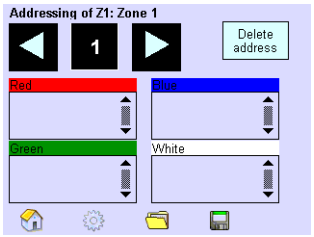
6.2 Addressing and zone assignment

Addressing

Addressing of the operating devices is performed in the same way in the **Colour** and **Basic** applications (see "Addressing and grouping", page 19).

Zone assignment

In the ›x-touch‹ software, each RGB/RGBW operating device is assigned to a colour scale (red, green, blue, white) of a zone using Drag & Drop. Four zones with 4 colour scales are available. Each colour scale of a zone corresponds to a group.



Since the three groups **Red**, **Green** and **Blue** are necessary for colour mixing and only the group **White** is not required, only the groups **White** (max. 4 groups) can be controlled individually. For basic lighting, e.g., the group **White** of the four zones is used.

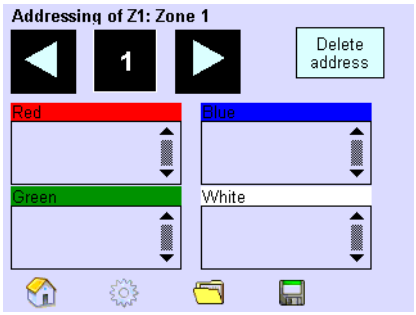
The groups **White** can be dimmed, masked or switched off and saved in scenes in analogy to the **Basic** application. Depending on the configuration, the groups can be switched and dimmed individually using the **Home** menu(see "Creating a layout for the Home menu", page 36).

6.2.1 Addressing RGBW operating devices and assigning them to zones

Refer to chapter "Addressing and grouping", page 19 for a description of the procedure and the addressing methods **System extension** and **Reinitialization**.

– The **Main Menu** is displayed.

1. Press the **Addressing/grouping** button.
   = The dialog box **Addressing method** is displayed.
2. Activate the check box **System extension** or **Reinitialization**.
3. Press the **Continue >** button.
   = The ›x-touch‹ software indicates the number of the operating devices it has detected.
4. When the message **Search completed** is displayed, press the **Complete** button.
   = Every operating device is addressed.
   The **Addressing of Z ...** window is displayed.



5. Press the **Folder** button to select the zone in which the operating devices are to be saved.
   = The dialog box **Select zone** is displayed.
6. Set the zone with the arrow keys and confirm with **OK** .
   = The zone is displayed.

7. Use the arrow keys to select the operating device address to be assigned to the zone.

8. Move the address of the operating device (1) to the group field representing the respective colour via Drag & Drop.
   = The address is displayed in the group field of the currently selected zone.
9. Repeat steps 8 and 9 until the operating devices of this zone are assigned to one of the four group fields.

10. Press the **Save** button.
    = The dialog box **Save zone** is displayed.
11. If necessary, change the zone in which the operating devices are to be stored and confirm with **OK**.
    = The zone is stored.
12. Repeat steps 5 to 12 until every operating device is assigned to a zone.

Zone assignment is not stored until you press the **Save** button and confirm with **OK** in the dialog box.

6.3 Configuring colour sequences

In a colour sequence, scenes (white light) and colour events (RGB(W)) are saved at a defined position on a timeline. How often the colour sequence will be repeated is determined with the digits **2** to **6** and **Loop**. If you enter **1**, the sequence is only called up once. If you enter **2**, it is called up twice, and so on. **Loop** means that the colour sequence will be permanently repeated.

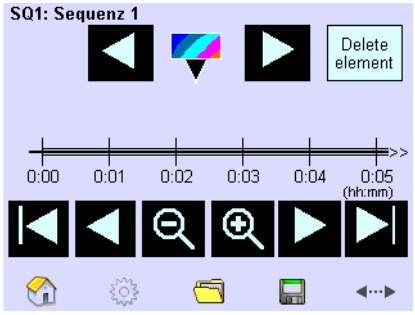
Only after a colour event has been assigned to a colour sequence can the event be configured.

A colour sequence is ended if:

- Another colour sequence/scene is called up.
- The colour sequence is ended manually.
- The end of the colour sequence is reached.

– The **Main Menu** is displayed.

1. Press the **Colour sequence (SQ)** button.
   = The **SQ ...** window is displayed.

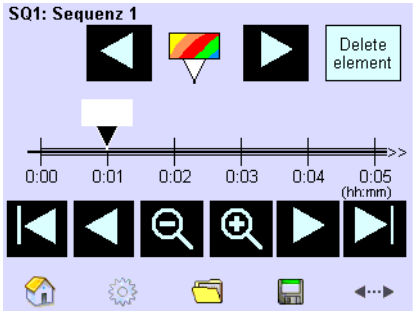


2. Press the **Folder** button to select the colour sequence in which the scenes are to be stored.
   = The dialog box **Load sequence** is displayed.
3. Select the colour sequence with the arrow keys and confirm with **OK**.
   = The sequence is indicated.

4. Press the **Timeline** button to enter the **Duration** of the colour sequence.
   = The dialog box **Timeline** is displayed.
5. Press the arrow keys of the **Duration** field until the desired period is set.
   - or -
   Press the numbers in the number field. Select the duration in the dialog box **Time entry** and confirm with **OK**.
6. Press the arrow keys in the **Loop** field until the correct number of repetitions is set.
7. Confirm the entries with **OK**.

8. With the arrow keys and the magnifier, adjust the timeline section in such a way that the starting time for the colour event is visible.

9. Move the marker **Colour event** to the desired position on the timeline using Drag & Drop.
   = The start for the **Colour event** marker is specified.



10. Repeat steps 6 to 9 to enter further colour events.

11. Press the **Save** button.
    = The dialog box **Save sequence** is displayed.

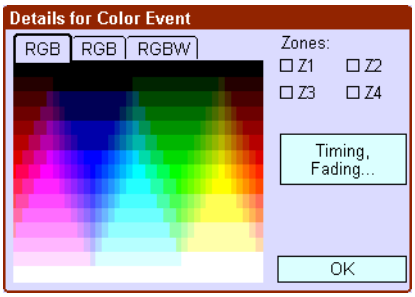
12. If necessary, change the colour sequence in which the colour events are to be stored and confirm with **OK**.
    = The colour sequence is saved with the current settings.
13. To define additional colour sequences, repeat steps 2 to 12.

6.4 Configuring colour events

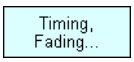
This chapter explains how to configure the exact starting time, fade time and colour for the colour event. You can select the colour in a colour table or enter the individual values for the RGBW colours (red, green, blue, white) numerically.

– The **Main Menu** is displayed.

1. Press the **Colour sequence (SQ)** button.
2. Touch the marker **Colour event** on the timeline until the dialog box **Details for colour event** is displayed.
   = The dialog box **Details for colour event** is displayed.



3. To determine the RGB value using a colour table, press a colour in the first **RGB** tab.
   - or -
   To enter the RGB value numerically, enter the RGB values in the second tab.
   - or -
   To enter the RGBW values numerically, enter the RGBW values in the third tab.
4. Activate the Zones check box (**Z1** to **Z4**) to assign the colour event to one or several zones.



5. To define the exact duration and fade time, press the **Timing, Fading** button. Set the values with the arrow keys and confirm with **OK** .
6. Confirm the entries with **OK**.
7. To define additional colour events, repeat steps 2 to 6.
8. Confirm the settings with **OK**.
   = The colour event is stored in the colour sequence.

7 Operation in the Home menu

In the **Home** menu, lighting situations are called up manually using freely configurable buttons.

The following rules apply for operation with the **Home** menu:

- If an action is called up manually, this is independent from time-controlled lighting situations.
- Manually calling up a scene/group interrupts a sequence or a schedule only until the following scene of the sequence or the following scene or sequence of the schedule starts.
- If a schedule/sequence is called up manually, a currently active schedule/sequence is ended. The manually called up function is active until it is manually switched off or until it ends.

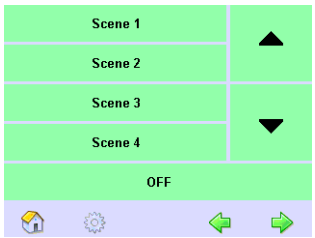
7.1 Overview

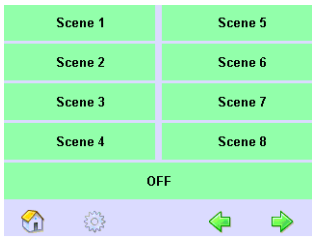
The number of pages in the **Home** menu depends on the application (see "Configuring buttons in the Home menu", page 37) and the settings in the **Configuration** menu (see "Creating a layout for the Home menu", page 36).

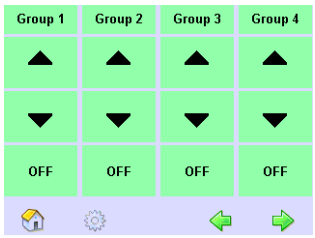
All buttons of the **Home** menu that can be activated are described in the following chapter. The Scheduler is described in chapter "Manually switching a sequence, schedule or schedule list", page 41.

Basic application

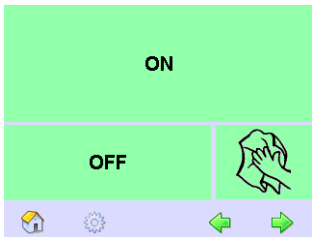
- Switching a maximum of 4 pages with 4 scenes on and off and dimming them.
- Switching a maximum of 2 pages with 8 scenes.
- Switching a maximum of 4 pages with 4 groups on and off and dimming them.

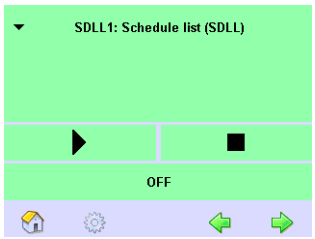






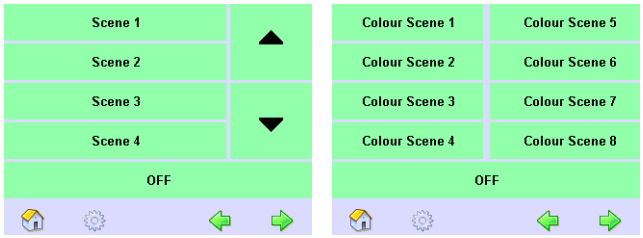
- 1 Page with the ON, OFF and Clean buttons.
- 1 Page with the selection window and the Scheduler and OFF buttons.



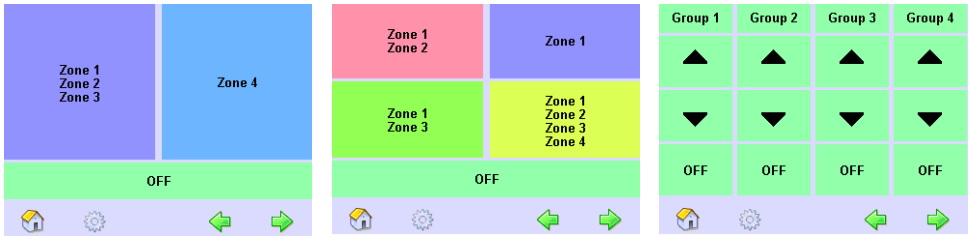


Colour application

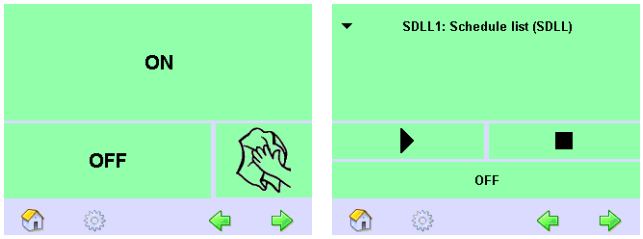
- Switching and dimming a maximum of 4 pages with 4 scenes.
- 1 Page with 8 colour effects for 4 zones for each colour scene.



- 1 Page with 2 colour effects for a maximum of 4 zones for each colour effect.
- 1 Page with 4 colour effects for a maximum of 4 zones for each colour effect.
- Switching a maximum of 1 page with 4 groups on and off and dimming them (group White in each of the 4 zones).



- 1 Page with the ON, OFF and Clean buttons.
- 1 Page with the selection window and the Scheduler and OFF buttons.



7.2 Creating a layout for the Home menu

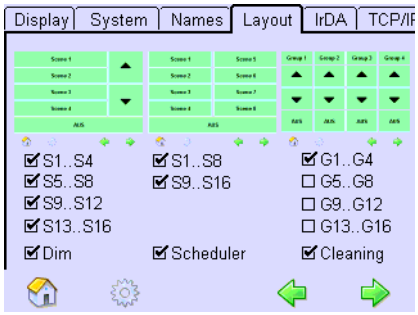
The **Home** menu is configured in such a way that only the buttons you want to appear are displayed. Activate the buttons in the **Layout** tab. All buttons are activated at the factory.

In addition, you can change the factory-set functions of the buttons (see "Configuring buttons in the Home menu", page 37) and protect the configurations with a password if required (see "Password protection", page 17).

Use the **Dim** function to activate the dimming function for the buttons in the first column.

Use the **Scheduler** function to start and stop time-controlled actions manually in the **Home** menu.

The **Cleaning** button deactivates the touchscreen for 20 seconds. The **ON** and **OFF** buttons can be configured and, e.g., switch all operating devices on or off, or a frequently used lighting situation such as cleaning or night lighting is assigned to them (see "Configuring buttons in the Home menu", page 37).



– The **Layout** tab is open in the **Configuration** menu.

☑ ➢ Activate the check boxes for the functions you want to be displayed as buttons in the **Home** menu.

7.3 Configuring buttons in the Home menu

The following table lists the optional button configurations depending on the application. The **Dim** buttons can be configured in the **Basic** application. In the **Colour** application, it is only possible to dim the white light (group 1 to 4).

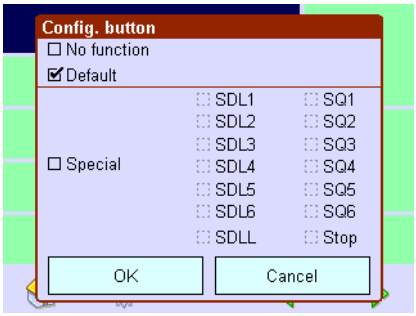
Button/ **Option in the Basic application**	**Button/** **Option in the Colour application**
Scene ■ No function ■ Default (factory setting) ■ Special: - SDL1 to SDL6 - SQ1 to SQ6 - Schedule list - Stop	**Scene** ■ No function ■ Default (factory setting) ■ Special: - SDL1 to SDL6 - SQ1 to SQ6 - Schedule list - Stop
—	**Zone** ■ 1 colour for 1 to 4 zones
—	**Colour scene** ■ 4 zones (1 colour for each zone)
OFF (on Cleaning page) ■ No function ■ Broadcast OFF (switch off all operating devices) ■ Group OFF - G1 to G16	**OFF** (on Cleaning page) ■ No function ■ Broadcast OFF (switch off all operating devices) ■ Zone OFF - Zone 1 to 4
ON (on Cleaning page) ■ No function ■ Broadcast 100% (switch on all operating devices) ■ Group 100% - G1 to G16	**ON** (on Cleaning page) ■ No function ■ Broadcast 100% (switch on all operating devices) ■ Zone 100% - Zone 1 to 4
OFF (on Scene, Group, Scheduler page) ■ No function ■ Broadcast OFF (switch off all operating devices) ■ Group OFF - G1 to G16	**OFF** (on Scene, Zone, Colour scene, Group, Scheduler page) ■ No function ■ Broadcast OFF (switch off all operating devices) ■ Zone OFF - Zone 1 to 4

In the **Home** menu, the buttons are displayed with the names you have assigned to them in the **Names** tab of the **Configuration** menu.
It is also possible to assign an application-specific graphic to the buttons (see "Loading application-specific buttons and screen saver", page 40).

7.3.1 Configuring the Scene button

During planning please observe, that a button can only be assigned the first 6 schedules or sequences that were saved.

– Sequences or schedules are defined.
– Layout for **Home** menu has been created.
– The **Home** menu is displayed.

1. To assign a new function to a button press the button (e.g. Scene1) until the dialog box **Config. button** is displayed.
   =


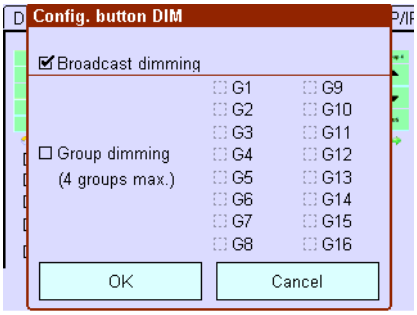
2. To remove the function from the button, activate the check box **No function**.
   - or -
   To assign the factory setting to the button, activate the check box **Default**.
   - or -
   To assign a lighting situation to the button, activate the check box **Special** and activate then the check box Schedule list **SDLL**, Schedule **SDL**, Sequence **SQ** or **Stop**.
3. Confirm the entry with **OK**.
   = The button is now displayed with the desired function and name in the **Home** menu.

7.3.2 Configuring the Dim buttons

The **Dim** buttons can only be configured in the **Basic** application. Depending on the settings, it is either possible to dim all operating devices or just the activated groups with these buttons.

TridonicAtco recommends activating the **Dim** buttons for no more than 4 groups in order to guarantee dimming without any time lag.

– The **Layout** tab is open in the **Configuration** menu.

1. Activate the **Dim** check box.
   = The dialog box **Config. button DIM** is displayed.


2. In order to dim all operating devices, activate the check box **Broadcast dimming**.
3. To dim one or several groups, activate the respective check boxes.
   = In the **Home** menu, the adjusted operating devices can be dimmed using the buttons.

7.3.3 Configuring the Colour scene button

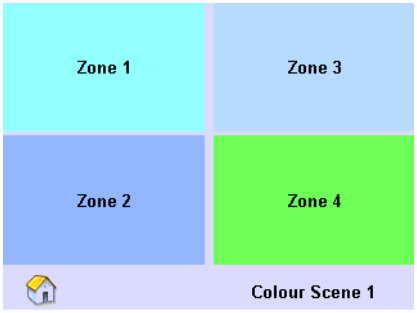
Configuration of the **Colour scene** buttons is suitable for applications where you want to call up different colour lighting situations in zones by pressing a button.

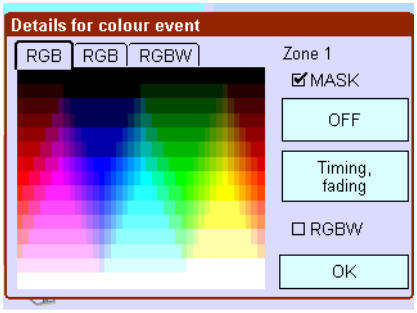
To assign a new function to a **Colour scene** button, there are several possibilities for each of the 4 zones:

- Colour setting
- Masking
- Switching off
- Fading

– Layout for **Home** menu has been created.

– The **Colour scene** buttons are displayed in the **Home** menu.

1. Press the button (e.g. Colour scene1) until the dialog box with the four zones is displayed.
   =


2. To set the colour for the first zone, press the zone.
   = The dialog box **Details for colour event** is displayed.


3. Enter the colour using one of the three tabs.
   - or -
   To leave this zone unchanged, activate the check box **MASK**.
   - or -
   Press the **OFF** button to switch off all operating devices of this zone.
4. To switch the operating devices assigned to zone White in the colour event, activate the check box **RGBW**.
5. To set fading, press the **Timing, Fading** button, set the time and confirm with **OK**.
6. Confirm the entries with **OK**.
   = The first zone of the colour scene is now set.
7. To set the other three zones, repeat steps 2 to 6.
8. Press the **Home** button.
   = The **Colour scene** button is displayed in the **Home** menu with the desired lighting situation.

7.4 Loading application-specific buttons and screen saver

In an image processing program, the design of the buttons of the **Home** menu can be changed to suit the specific application.

The bitmap template is available on the Internet (www.tridonicatco.com -> Services -> Download -> DALI Touchpanel x-e-touchPLATTFORM).

Only use the **UI_Layout.bmp** template (bitmap, 256 colours) and create a new design for the buttons and/or screen saver if you want.
Do not change file names, sizes or file properties.
Do not use any mobile logos.
When selecting the colours, the differences in brightness should not be too big because otherwise there is the danger of image persistence. If necessary, adjust the contrast in the **Configuration** menu(see "Adjusting the touchscreen", page 14).

– The check box **Customized buttons** is activated.

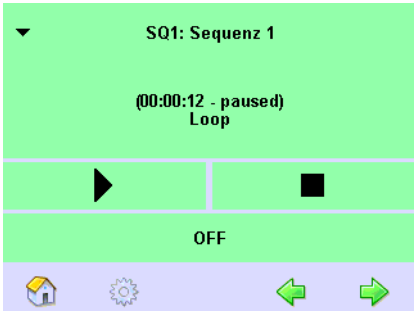
➢ To load the application-specific graphic to x-touchBOX/PANEL via infrared, refer to "Uploading and downloading files", page 42.
- or -
To load the application-specific graphic to x-touchBOX/PANEL via Ethernet, refer to "Downloading/uploading files", page 48.

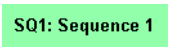
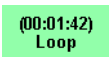
If you want to load an application-specific screen saver, the check box in the **Names** tag of the **Configuration** menu must be deactivated. The new screen saver will automatically be recognized. If you want to create application-specific labelling for the buttons, the check box must be activated. The graphic **UI_Layout.bmp** will then be loaded.

7.5 Manually switching a sequence, schedule or schedule list

On this page, you can operate a sequence, schedule or schedule list manually.

The following operating elements are available:



Button	Operating function
	Opens the dialog box for selecting a lighting situation (sequence 1 to 99, schedule 1 to 7 or schedule list).
	Shows the lighting situation which is called up using the Start/ Pause, Stop and Off buttons.
	Shows the status.
	**Start** Calls up the lighting situation and starts the time-controlled sequence.
	**Pause** Interrupts the lighting situation.
	**Stop** Ends the lighting situation (00:00:00).
	**Off** Switches off the lighting situation and ends the sequence.
	Indicates that a time-controlled lighting situation is active. The button is displayed in all menus and calls up the **Scheduler** in the **Home** menu.

1. Press the **Home** button.

2. Press the arrow keys as often as necessary until the **Scheduler** page is displayed.

3. Press the arrow key.
   = The dialog box **Load** is displayed.

4. Press the arrow keys as often as necessary until the desired lighting situation is displayed and confirm with **OK**

5. Press the **Start** button to call up the lighting situation.

8 Interfaces

x-touchBOX and x-touchPANEL have an infrared interface which enables the transmission of:

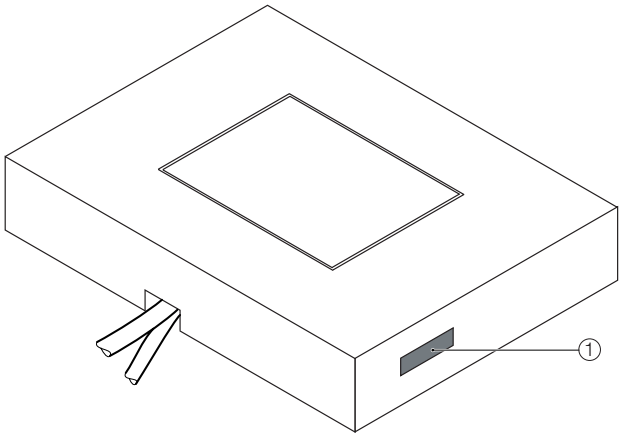
- Software updates x-touchBOX/PANEL
- Configuration files (download/upload)
- Application-specific graphics for the **Home** menu

The configuration file of an x-touchBOX or x-touchPANEL contains the system settings (addresses of the operating devices, names of the devices, groups and scenes, etc.) and enables the configuration to be saved.

x-touchPANEL also has an Ethernet interface which enables configuration and operation via a connected PC or laptop. The touchscreen and PC/laptop displays are synchronized in real time. Since the current statuses of several panels can be transmitted, the entire system can be operated with one PC or laptop.

8.1 Infrared interface

The infrared interface is located on the right side of the bottom area of the x-touchBOX/PANEL.



① Infrared interface

8.1.1 Uploading and downloading files

Via the infrared interface (IrDA) you can download files to a PC/laptop or upload files from a PC/laptop to x-touchBOX/PANEL.

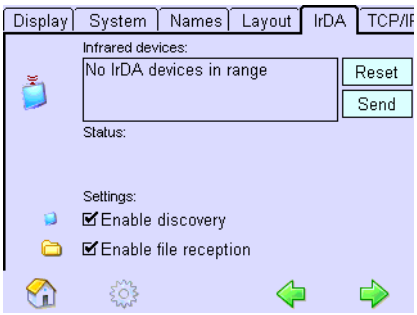
To load, e.g., a software update to the x-touchBOX/PANEL, you must perform the following steps:

- Determine the program version in x-touchBOX/PANEL (see "Determining the display name and program version", page 13).
- Check if a higher version is available and download it if required. (http://www.tridonicatco.com -> Services -> Download -> Software -> x-touchBOX/PANEL).
- Set up the infrared connection.
- Install the update of the ›x-touch‹ software.

To upload an application-specific graphic for the **Home** menu, proceed in the same way as for the software update.

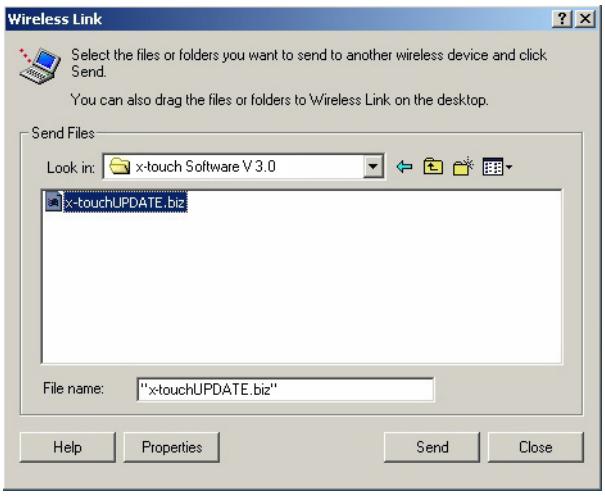
– The **Main Menu** is displayed.

1. Press the **Configuration** button.
2. Press the green arrow key as often as necessary until the **IrDA** page (infrared devices) is displayed.



=

3. Activate the check box **Enable discovery** to enable communication with other infrared devices.
4. Activate the check box **Enable file reception**.
5. Position the laptop and x-touchBOX/PANEL in such a way that their infrared interfaces are opposite to each other. They must be no more than 1 m apart and no more than 15° twisted against each other.
6. Prepare the PC/laptop for transmitting via infrared (see operating instructions of the manufacturer).
   = If the conditions for receiving are met, the name of the laptop is indicated in the field **Infrared devices**. The infrared transmission symbol is displayed in the task bar of the laptop.
7. Click on the infrared transmission symbol in the task bar of the laptop.
   = A dialog box for the selection of files is displayed.



8. Select the file ›x-touchUPDATE.biz‹ and click **Send**.
9. Confirm with **OK** on the touchscreen.
   = The update of the ›x-touch‹ software is saved and the system is restarted.

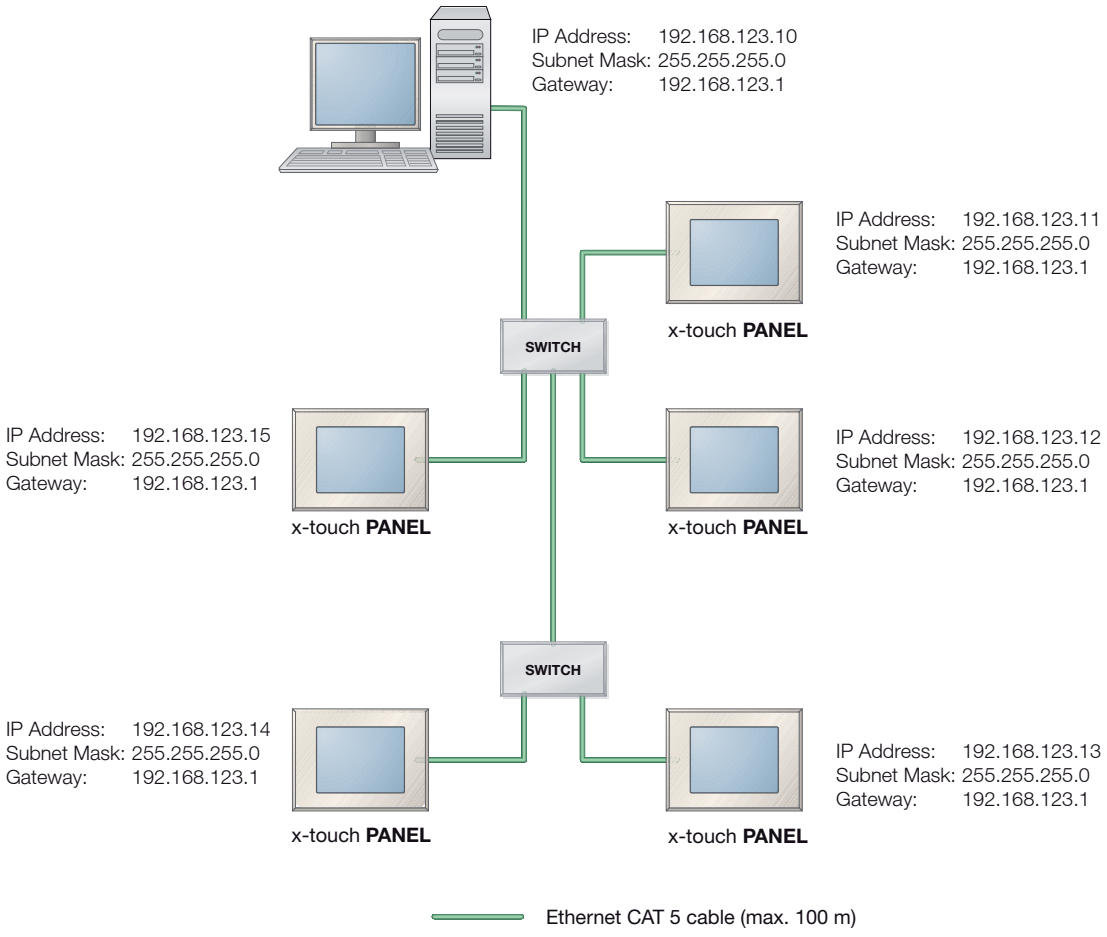
8.2 Ethernet interface

To connect x-touchPANEL to a PC/laptop via Ethernet, a network cable is required. In a network, each x-touchPANEL must be assigned an individual IP address. If, e.g., you want to include several x-touchPANEL into an existing company network, consult your IT specialist for the IP addresses.

For networks with Firewall, Switch, etc., please also contact your IT specialist.

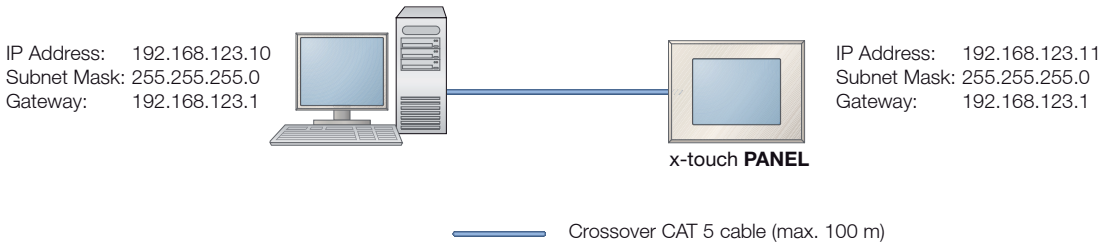
Network connection

The following figure shows an example of how several x-touchPANEL can be integrated in one network.



Point-to-point connection

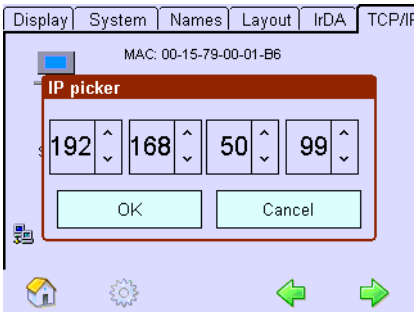
If a point-to-point connection is to be established, a crossed network cable must be used.



8.2.1 Setting the IP address in x-touchPANEL

– The **Main Menu** is displayed.

1. Press the **Configuration** button.
2. Press the green arrow key as often as necessary until the **TCP/IP** tab with the IP address is displayed.
3. Press **IP address**.
   = The dialog box **IP picker** is displayed.



4. Set the **IP address** with the arrow keys and confirm with **OK**.
5. To set **Subnet Mask** and **Gateway**, repeat steps 3 and 4.
6. Press the **Main Menu** symbol.
   = The IP address is stored in the x-touchPANEL.

8.2.2 Setting the IP address for a network with several x-touchPANEL

For the Ethernet connection in a network, each x-touchPANEL must be assigned an individual IP address. The ›Network connection‹ diagram shows an example of an addressing process (see "Ethernet interface", page 44). The instructions below are based on this example.

Please refer to the Help menu or to your operating system's manual on how to assign a permanent IP address.
The previous chapter explains how the IP address is set in the x-touchPANEL (see "Setting the IP address in x-touchPANEL", page 45).

For PCs/laptops with Firewall or other protection software, please contact your IT specialist.

1. Connect the PC/laptop and the x-touchPANEL via the network switch using network cables.
2. On the PC/laptop, the following values must be set for the NIC to which the switch for the x-touchPANEL is connected:
   IP address:**192.168.123.10**
   Subnet Mask: **255.255.255.0**
   Gateway: **192.168.123.1**
3. Set the following values for the first x-touchPANEL:
   IP address:**192.168.123.11**
   Subnet Mask: **255.255.255.0**
   Gateway: **192.168.123.1**
4. Set the following values for the second x-touchPANEL:
   IP address:**192.168.123.12**
   Subnet Mask: **255.255.255.0**
   Gateway: **192.168.123.1**
5. Set the following values for the third x-touchPANEL:
   IP address:**192.168.123.13**
   Subnet Mask: **255.255.255.0**
   Gateway: **192.168.123.1**

6. Increase the last digit of the IP address if you want to set additional x-touchPANEL. 255 is the highest possible number.
7. Press the **Main Menu** button to store the IP address in the x-touchPANEL.
   = x-touchPANEL can be controlled via remote control using a web browser with Java Applet installed.

8.2.3 Setting the IP address for point-to-point connections

A crossed network cable is required for a point-to-point connection of an x-touchPANEL to a PC/laptop. The ›Point-to-point connection‹ diagram shows an example of an addressing process (see "Ethernet interface", page 44). The instructions below are based on this example.

Please refer to the Help menu or to your operating system's manual on how to assign a permanent IP address.
The previous chapter explains how to set the IP address in the x-touchPANEL (see "Setting the IP address in x-touchPANEL", page 45).

For PCs/laptops with Firewall or other protection software, please contact your IT specialist.

1. Connect x-touchPANEL with the PC/laptop using a network cable.
2. On the PC/laptop, the following values must be set for the NIC the x-touchPANEL is connected to:
   IP address: **192.168.123.10**
   Subnet Mask: **255.255.255.0**
   Gateway: **192.168.123.1**
3. Set the following values for x-touchPANEL:
   IP address:**192.168.123.11**
   Subnet Mask: **255.255.255.0**
   Gateway: **192.168.123.1**
4. Press the **Main Menu** symbol to store the IP address in the x-touchPANEL.
   = x-touchPANEL can be controlled via remote control using a web browser with Java Applet installed.

8.2.4 Establishing the connection to x-touchPANEL

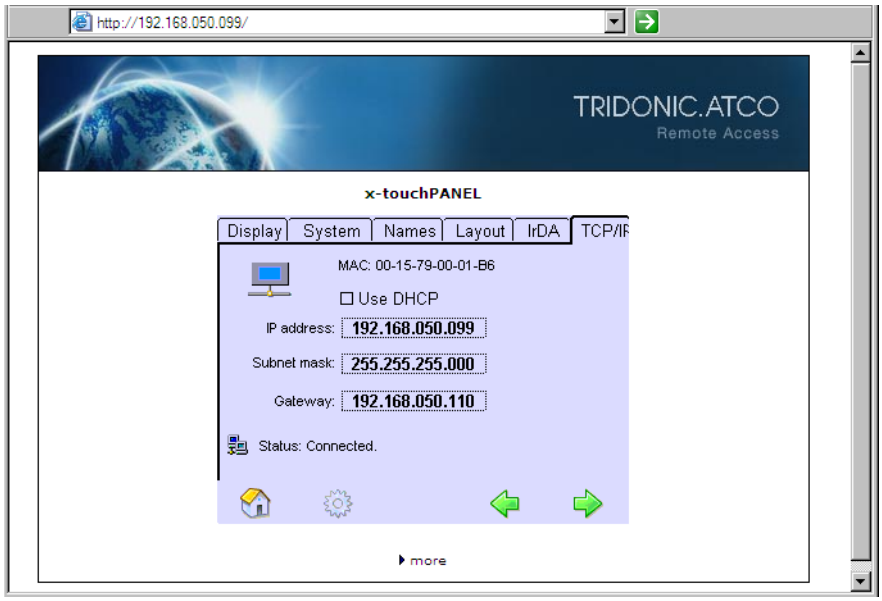
Remote access of the x-touchPANEL enables operation and configuration via a standard web browser. You can operate almost all functions using the keyboard and mouse of your PC or laptop. The remote control is based on an HTML page with Java Applet.

In order to operate x-touchPANEL on a PC/laptop the ›Java Runtime Environment‹ (JRE) must be installed on the PC/laptop (www.java.com). A standard web browser is used for the connection (e.g. ›MS Explorer‹, ›Firefox‹).

Calibration of the touchpanel must be performed with the x-touchPANEL. Do not use the web browser!

– The web browser is opened.
– ›Java Runtime Environment‹ is installed.

➢ Enter the IP address of x-touchPANEL in the address field of the browser and confirm with the Enter key.



= The ›x-touch‹ software appears in the browser and can be operated and configured using the mouse pointer and keyboard.

The link **more** opens the browser window for uploading and downloading configuration files and updates (see "Downloading/uploading files", page 48).

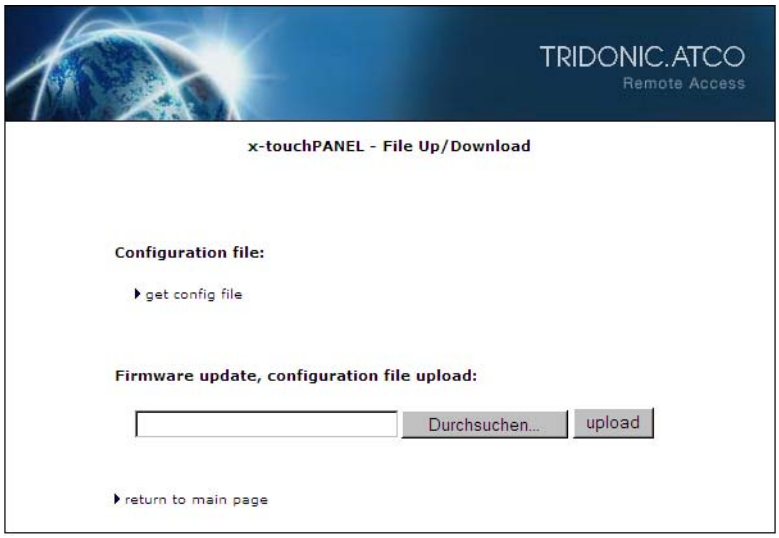
8.2.5 Downloading/uploading files

Via the Ethernet interface you can download files to a PC/laptop or upload files from a PC/laptop to x-touchPANEL.

To upload an application-specific graphic for the **Home** menu proceed in the same way as for uploading a software update.

– The **TCP/IP** tab is open in the **Configuration** menu.

1. Click the link **more...** in the browser.
   = The **File Up/Download** window is displayed.



2. To download a configuration file from x-touchPANEL, click the link **get config file**.
   = The dialog box **File download** is displayed.
3. To upload a configuration file, firmware update or application-specific graphic for the buttons to an x-touchPANEL, click the **Search** button.
4. Open the file and click on the **upload** button.
   = The firmeware update, configuration file or application-specific graphic is stored in the x-touchPANEL.

If a file has been uploaded, this must be confirmed with **OK** on the touchscreen of the x-touchPANEL.

9 Help in the case of problems

9.1 Resetting to factory defaults

If you reset the configuration of the ›x-touch‹ software to the factory defaults, your settings and the addressing of the operating devices will be deleted.

– The **Main Menu** is displayed.

1. Press the **Main Menu** button.
2. Press the **Configuration** button.
3. Press the **System** tab.
4. Press the **Reset to factory defaults** button.
   = The ›x-touch‹ software is reset to the factory defaults.

9.2 The touchscreen does not react properly

If the touchscreen does no longer react properly, it must be recalibrated.

NOTICE

The device might become damaged if the touchscreen is calibrated with the remote control (Ethernet connection).

➢ Only calibrate the touchscreen on the x-touchBOX or x-touchPANEL and not via the web browser.

1. Press the **Main Menu** button.
2. Press the **Configuration** button.
3. Press the **Calibrate** button.
4. Touch the calibration symbol with a pen and ensure that you are touching the center of the calibration symbol.
5. Repeat step 4 twice.
   = The touchscreen is now centered.

9.3 Scenes cannot be defined

To configure a scene, one operating device must only be assigned to one groupe, because otherwise conflicts might occur.

1. Press the **Main Menu** button. Ensure that each device is assigned to exactly one group.
2. Press the **Addressing/grouping** button.
3. Press the **Folder** button and check the groups one after the other. Ensure that the device is assigned to a group.
4. Change the grouping if necessary.

9.4 Infrared connection does not work

If x-touchBOX/PANEL does not establish an infrared connection, you can reset the device (see also "Uploading and downloading files", page 42).

- **Enable discovery** is activated.
- **Enable file reception** is activated.

1. Press the **Main Menu** button.
2. Press the **Configuration** button.
3. Press the **IrDA** tab.
4. Press the **Reset** button.

9.5 Ethernet connection cannot be established

Only x-touchPANEL has an Ethernet interface.

- ➢ Ensure that a crossed network cable was used for a point-to-point connection (x-touchPANEL directly connected with PC/laptop).
- ➢ Ensure that the IP address entered in x-touchPANEL and in the browser is correct "Setting the IP address in x-touchPANEL", page 45.
- ➢ Ensure that no Firewall or protection software is disturbing the connection. If necessary, contact your IT specialist.
- ➢ Refresh the browser window.

10 Technical data

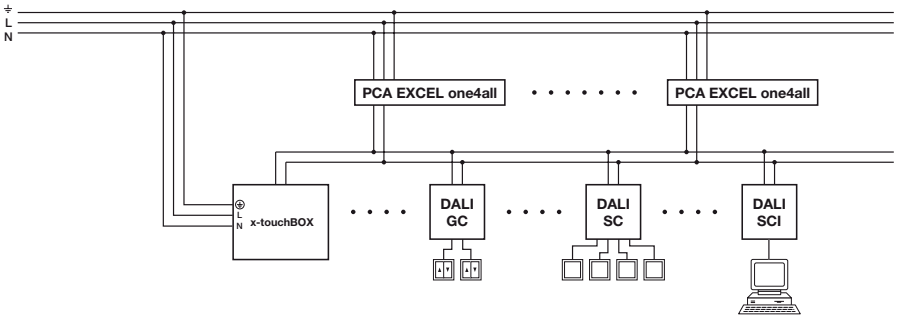
	x-touchBOX	x-touchPANEL
Article number	24138954	24138990
Mains voltage	110-240 V AC	24/48 V DC
Mains frequency	50/60 Hz	–
Power consumption	10 W	10 W
Max. output current	200 mA	2 mA
Interfaces	IrDA	IrDA, Ethernet
Bus system	DALI (internal bus supply)	DALI (external bus supply)
Addresses for devices	64	64 ›Basic‹ 2 x 64 ›Colour‹
Dimensions (L x W x H)	200 x 150 x 42 mm	200 x 150 x 20 mm
Permissible ambient temperature	0-50 °C	
Weight	0,92 kg	
Fastening distance (D)	155 mm	
Protection type	IP 20	
Protection class	SK I	
Screen	Touchpanel (5.7" / 320 x 240 pixels / 256 colors)	

NOTICE

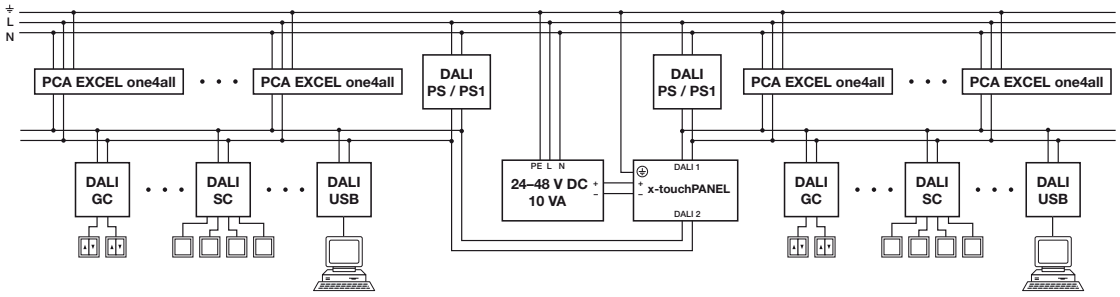
Overvoltage when connecting the DALI lines to the power supply for x-touchBOX.
Damage to the device. With x-touchBOX, the DALI power supply is already integrated which is not the case with x-touchPANEL.

➢ Do not connect the power supply to the DALI line of the x-touchBOX.

10.1 Circuit diagram x-touchBOX



10.2 Circuit diagram x-touchPANEL



11 Disposal

In order to prevent damage to the environment:

- Dispose of the device in accordance with country-specific regulations.
- The device must not be disposed of in the domestic garbage or burnt.

www.tridonicatco.com
1030-0/05/08 EN.

a world of bright ideas®

TRIDONIC.ATCO