

INSTRUCTION MANUAL FOR USE AND MAINTENANCE



KILION

Dear Customer, we would like to thank you for purchasing a product by MASTER S.p.A. This quick guide contains all the information you will need concerning the use of this product. Read the instructions carefully and keep them for further consultation. The transmitter KILION was specifically designed to control roller shutters, awnings, skylights, screens, doors, arbours, lighting systems, irrigation systems, gates, garage doors. Any other use outside the scope defined by MASTER is forbidden and, together with breach of the instructions given in this guide, shall release MASTER from any liability and shall annul the product warranty. Water, humidity, heat sources and accidental knocks may damage the device. Do not use abrasive products or solvents to clean the product.

Preliminary remarks

This sheet contains important information on the operating principle and safety of the installation. Comply with the instructions below and keep them for further consultation. The KILION transmitter module is compatible with transmitter series ARCO, FLUTE and KUADRO and equivalent.

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01. NOTES ON RADIO SYSTEMS

We recommend that radio systems be not used in places with strong interference (for example, near police stations, airports, banks, hospitals). It is in any case advisable to carry out an onsite survey prior to installing any radio system in order to identify possible sources of interference. Radio systems may only be used if disturbance or malfunctioning of the transmitter or receiver do not represent a risk factor or if the risk factor is eliminated by suitable safety systems.



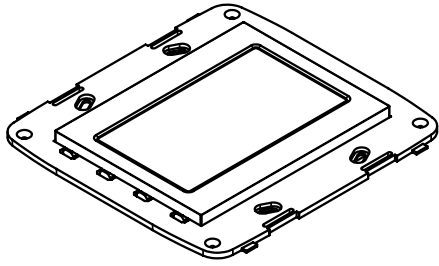
The presence of radio devices working at the same transmission frequency (e.g. alarms and radio headsets) may interfere with the radio receiver of the central unit, thus reducing the range of the transmitters and limiting full system functionality.

Radio systems operating within the same frequency field may create disturbance to one another, thus jeopardising correct functioning of the radio systems.

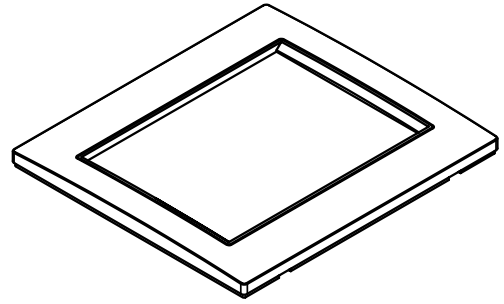
02. TECHNICAL SPECIFICATIONS

✓ Voltage:	12 Vdc power unit included in pack
✓ Dimensions:	140x150x80 mm
✓ Weight:	400 g
✓ Working temperature:	from -20 to +55 °C
✓ Protection level:	IP20
✓ Radio frequency:	433.42 MHz
✓ Radio channels available:	40
✓ Groups:	8
✓ Scenarios:	8
✓ Timers:	8
✓ Range (estimated):	100 m outdoor; 20 m indoor

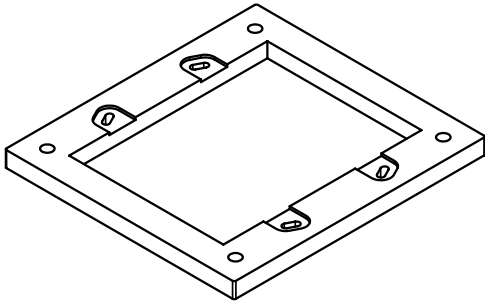
03. PACKED ITEMS



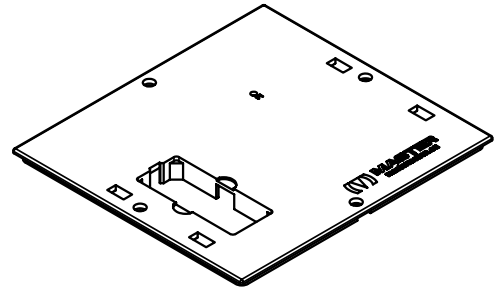
no.1 Kilion with universal mounting



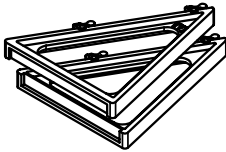
no.1 Front plate



no.1 Spacer



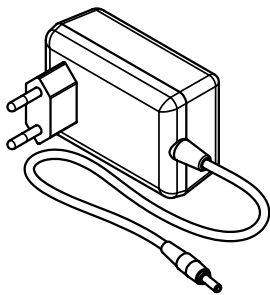
no.1 Rear cover



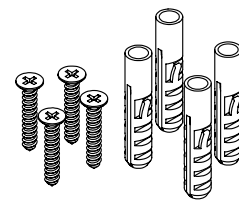
no.2 Table supports



no.1 Power cable cover



no.1 12V power unit



no.4 Plastic anchors with screws



n°4 Button head screws



no.4 Countersunk head screws 2,9x9,5



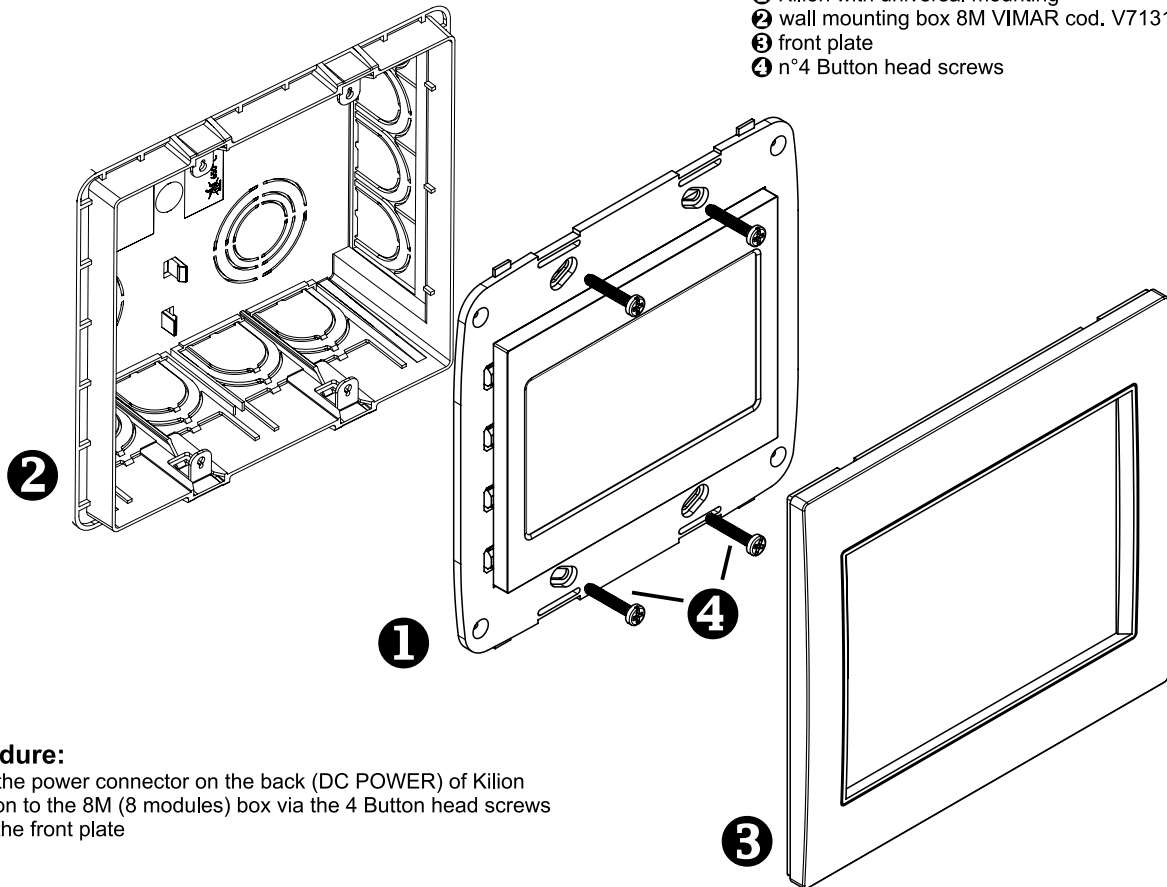
no.4 Button head screws 2,9x6,5

04. MOUNTING

Flush mounting to wall

Materials needed

- ❶ Kilion with universal mounting
- ❷ wall mounting box 8M VIMAR cod. V71318 (not included)
- ❸ front plate
- ❹ n°4 Button head screws



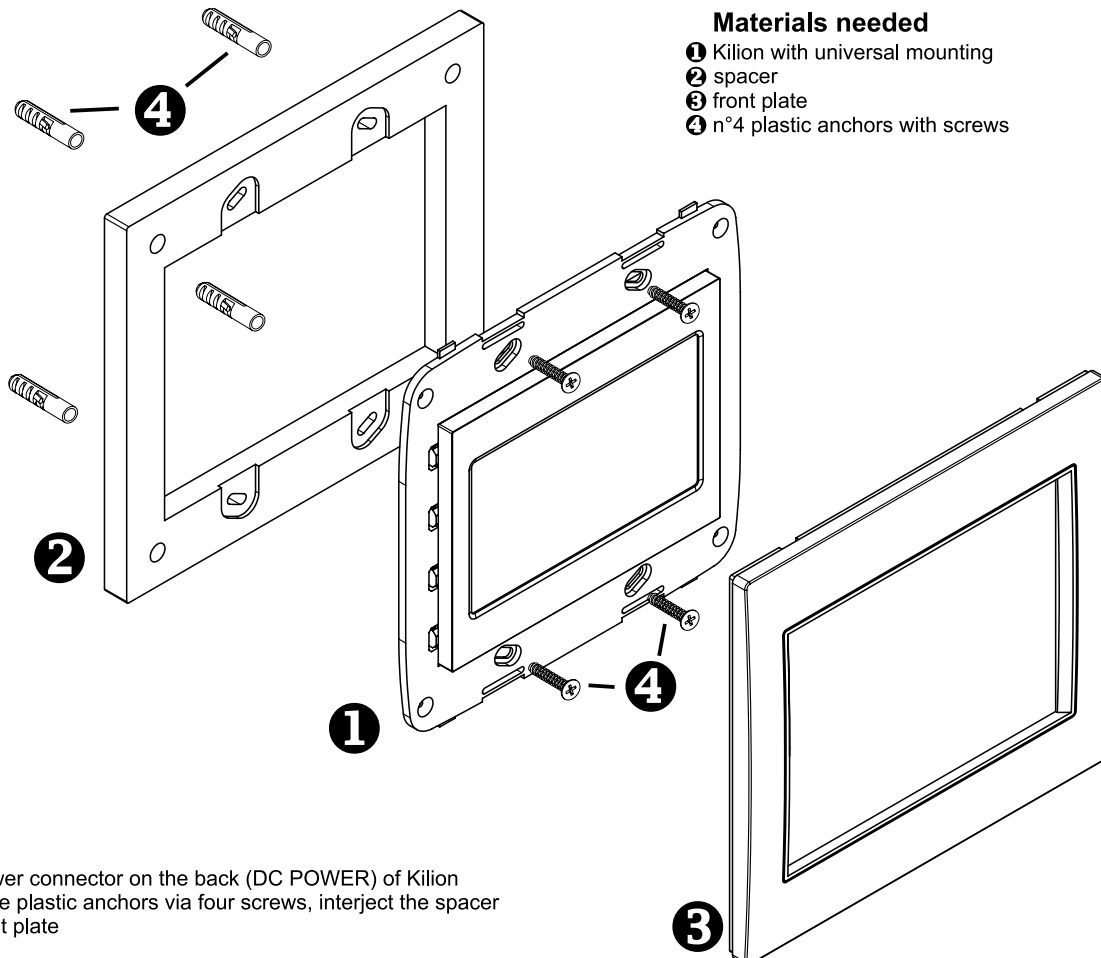
Procedure:

- insert the power connector on the back (DC POWER) of Kilion
- fix Kilion to the 8M (8 modules) box via the 4 Button head screws
- apply the front plate

Wall mounting

Materials needed

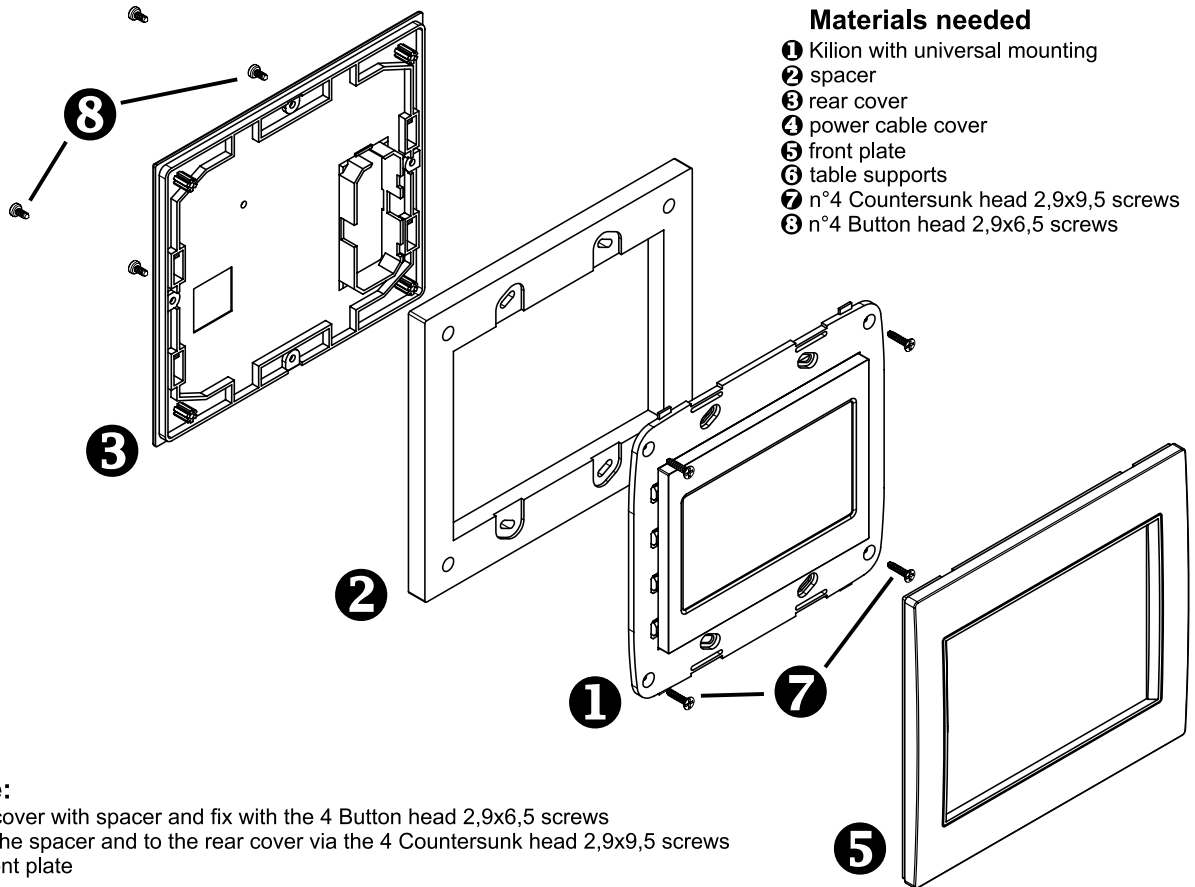
- ❶ Kilion with universal mounting
- ❷ spacer
- ❸ front plate
- ❹ n°4 plastic anchors with screws



Procedure:

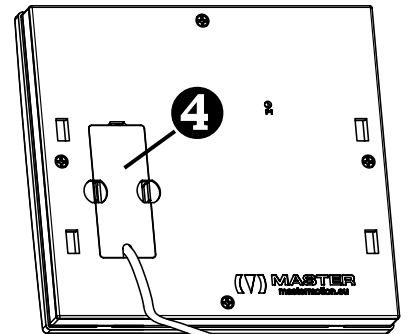
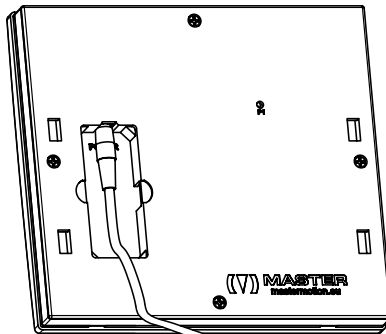
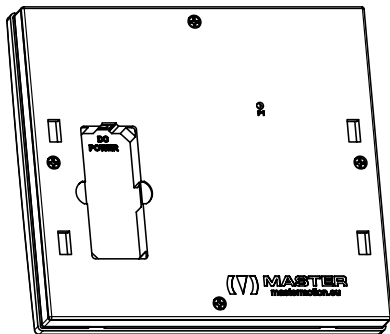
- insert the power connector on the back (DC POWER) of Kilion
- fix Kilion to the plastic anchors via four screws, interject the spacer
- apply the front plate

Table mounting

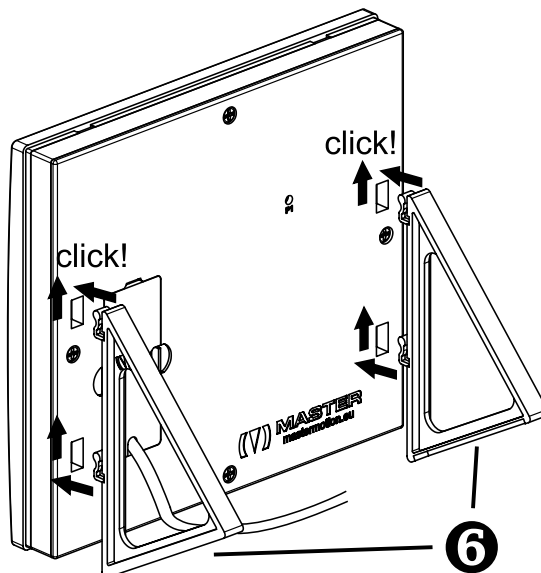


Procedure:

- match rear cover with spacer and fix with the 4 Button head 2,9x6,5 screws
- fix Kilion to the spacer and to the rear cover via the 4 Countersunk head 2,9x9,5 screws
- apply the front plate

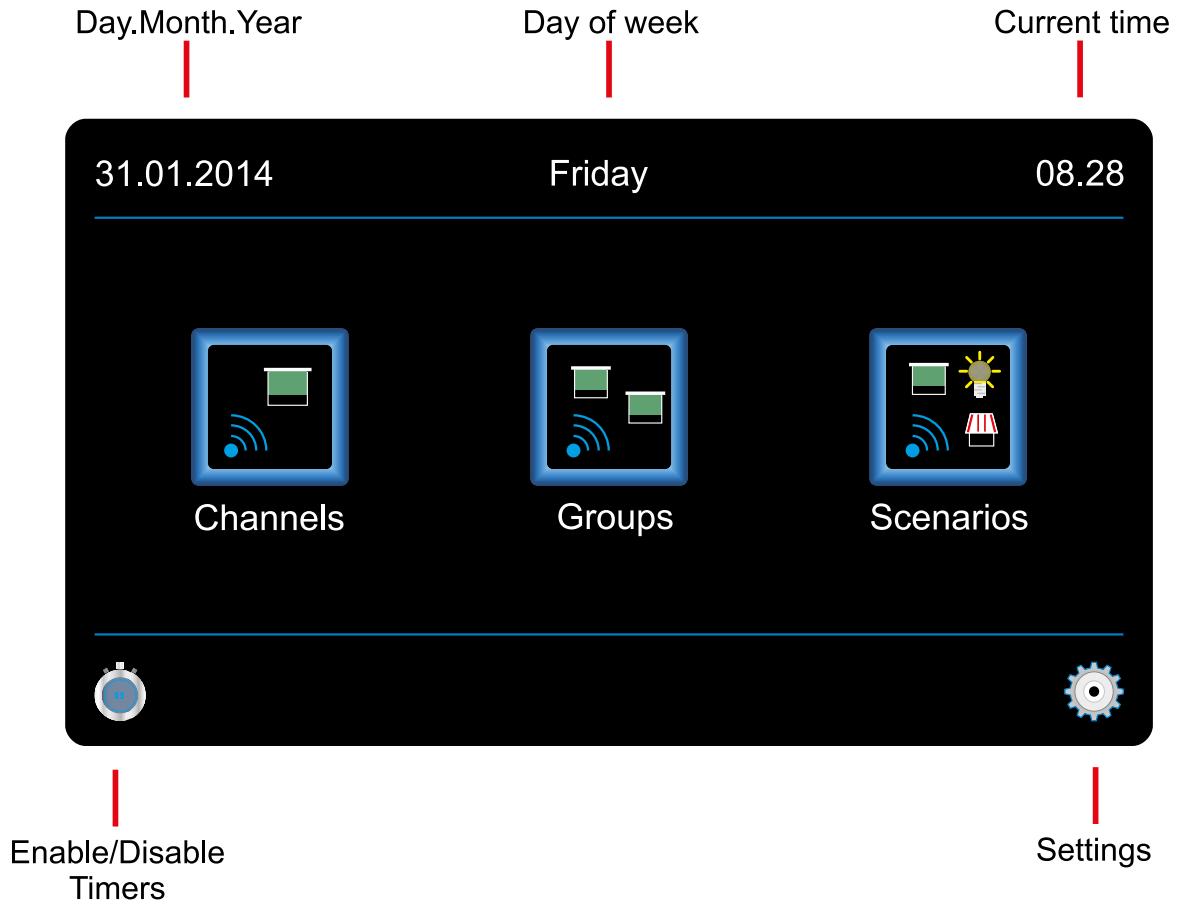


- insert the power connector on the back (DC POWER) of Kilion
- close with the power cable cover
- apply the table supports: insert the hook of supports into specific holes, slide upward until they click



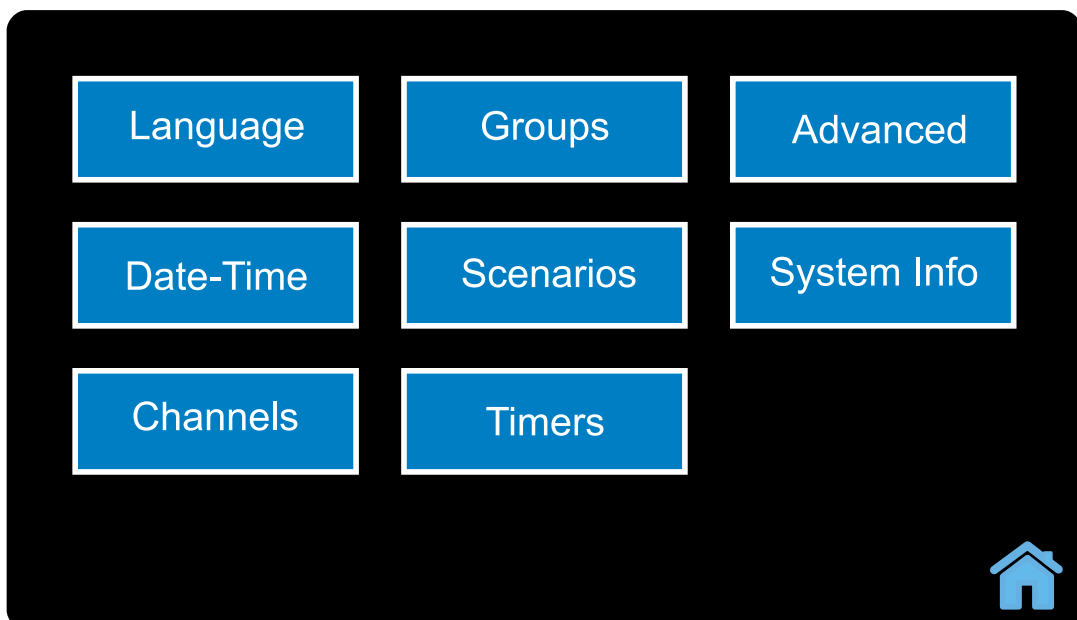
05. DESCRIPTION OF MAIN ICONS

05.1 MAIN SCREEN















05.2 SETTINGS SCREEN

Click the SETTINGS shortcut on the bottom right of the screen to access the menu where the device operating parameters are set up.

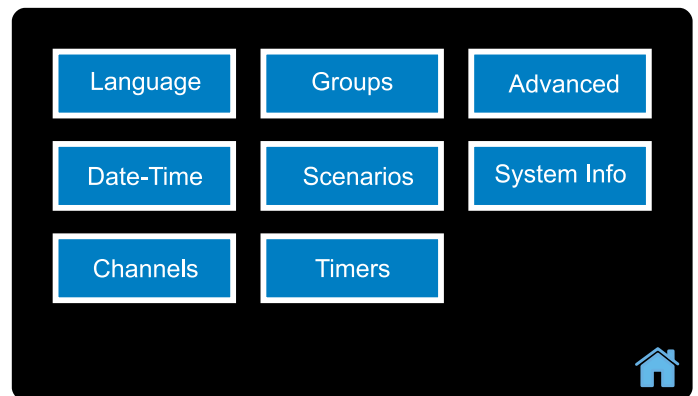
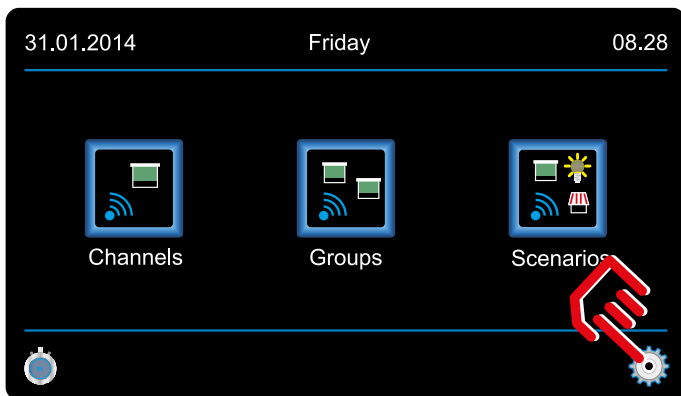


05.3 MAIN ICONS

 <p>CHANNELS: it is used to use one or several channels of the selected application (e.g. roller shutters, awnings)</p>	 <p>GROUPS: it is designed to engage one or several groups of the selected application (e.g. roller shutters, awnings).</p>	 <p>SCENARIOS: it is designed to enable a scenario.</p>
 <p>SETTINGS: it is used to access the settings menu (see section 5).</p>	 <p>TIMERS ON/OFF: it is used to enable or disable the TIMER function.</p>	 <p>BACK: it is used to go back to the previous screen.</p>
 <p>MORE: it is used to select more than one channel/group.</p>	 <p>ALL: it is used to select all the channels or groups.</p>	 <p>HOME: it is used to go back to the main screen.</p>
 <p>PLUS/MINUS: it is used to scroll a list.</p>	 <p>CHANGE: it is used to change the status of a selected element using the + and -</p>	 <p>AHEAD: it is used to confirm the operation.</p>

06. FIRST INSTALLATION

Power the device. The device may require setup of both the time and date. Whenever the device stays switched off for several minutes, it requires resetting of the time and date. After setting the time and date, the system shows the main screen. After approx. 30 seconds, the system switches to “save energy” mode and reduces the intensity of the backlight. Touch the screen to re-activate the system.



06.1 LANGUAGE

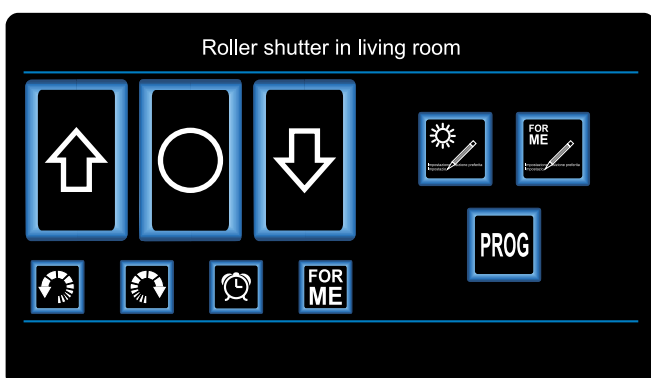
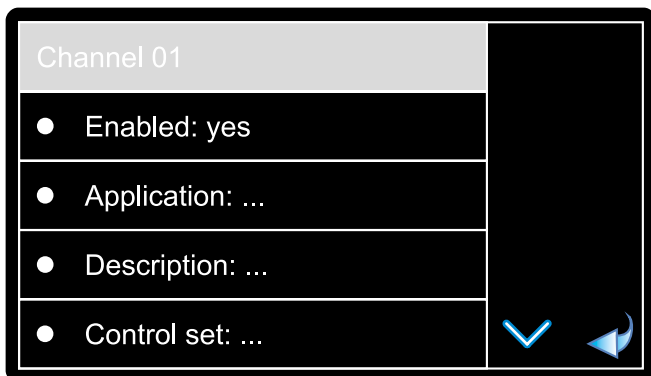
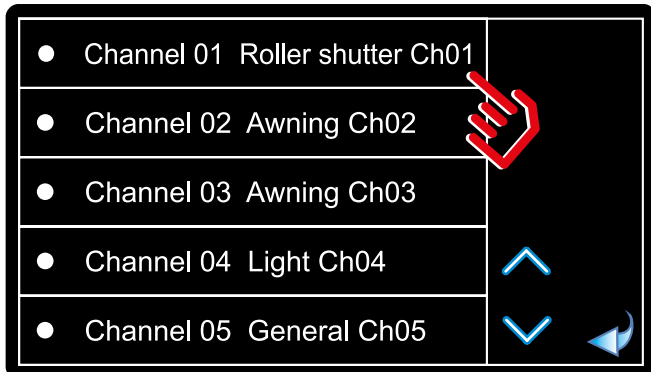
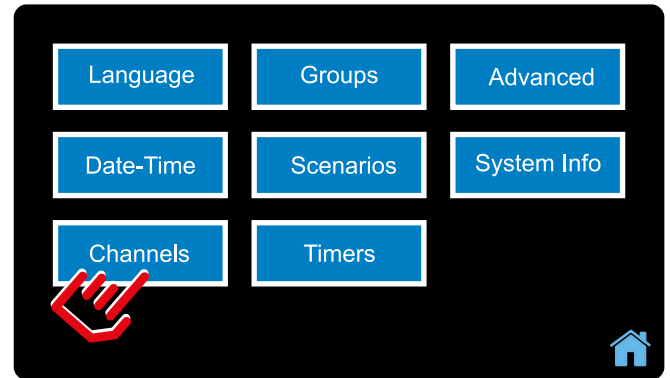
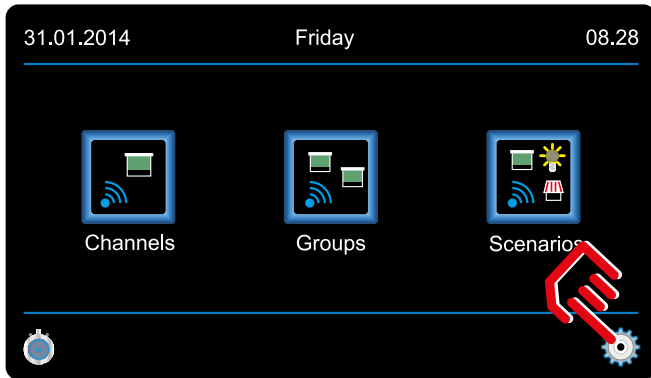
- ✓ Press **SETTINGS**
- ✓ Press **Language**
- ✓ Select the desired language

06.2 DATE-TIME

- ✓ Press **SETTINGS**
- ✓ Press **Date-Time**
 - **DATE:** Enter the date as follows “day.month.year”. Press OK to confirm.
 - **DAY:** Press + or - to select the day.
 - **HOUR:** Enter the time as follows “hours.minutes”. Press OK to confirm.

WARNING! If the device is switched off for a long time, it requires resetting of the time and date when it is switched on again.

06.3 CHANNELS



✓ press **SETTINGS**.

✓ press **Channels**.

✓ Select the desired channel (e.g. channel 01).

✓ **ENABLED:** press + or - to enable/disable the channel. During normal operation the channel must be enabled for access.

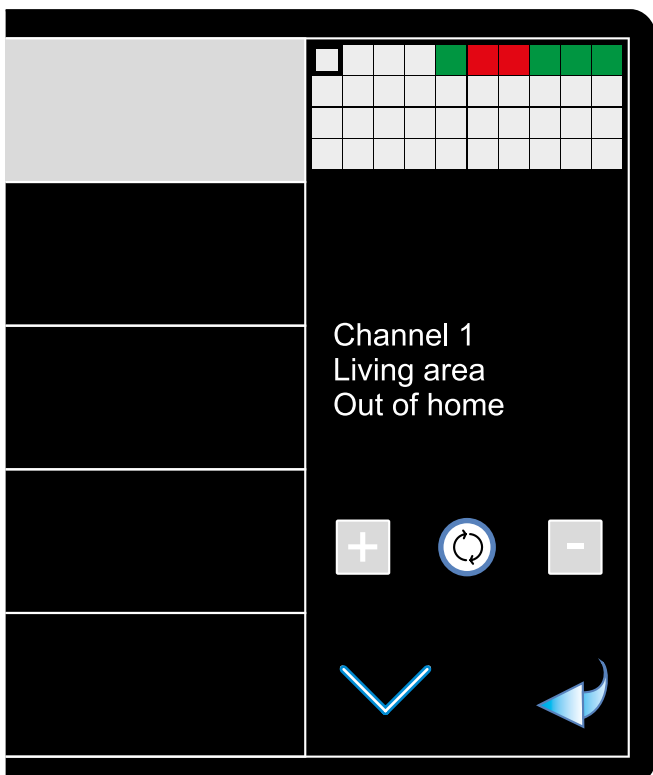
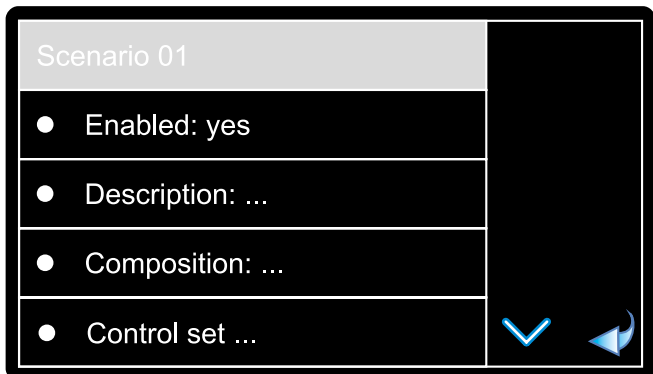
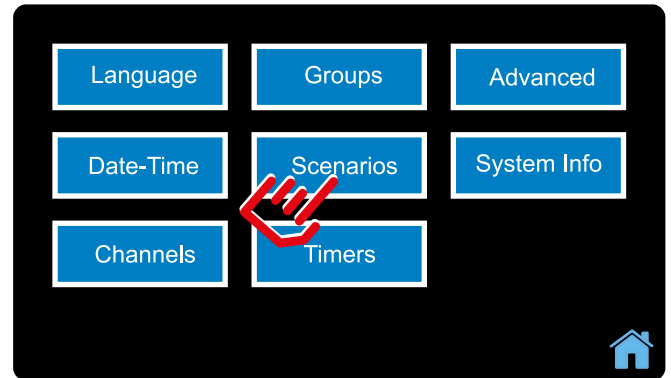
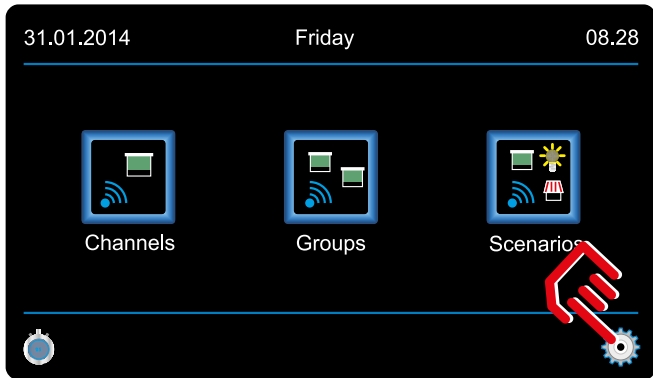
✓ **APPLICATION:** press + or - to select the application.

✓ **DESCRIPTION:** enter the channel description (e.g. "dining room" - max. 15 digits). Press OK to confirm.

✓ **CONTROL SET:** shows a screen listing all the controls that the device may transmit. This screen is useful, for instance, when the radio channel is stored in the receiver (the storage procedure depends on the receiver: to store a radio channel in the receiver, refer to the receiver instruction manual).

✓ **RECEIVER MENU:** this screen is used to modify some of the operating parameters of the receiver associated to the radio channel. Prior to starting operations with this screen, carefully read the instruction manual of the receiver where the editable parameters are provided. First, identify the parameter to be edited. Then, enter the desired value using the numerical keypad (or using the on/off keypad based on the parameter to be edited). Finally, confirm.

06.5 SCENARIOS



✓ press **SETTINGS**.

✓ press **Scenarios**.

✓ Select the desired scenario (e.g. scenario 01).

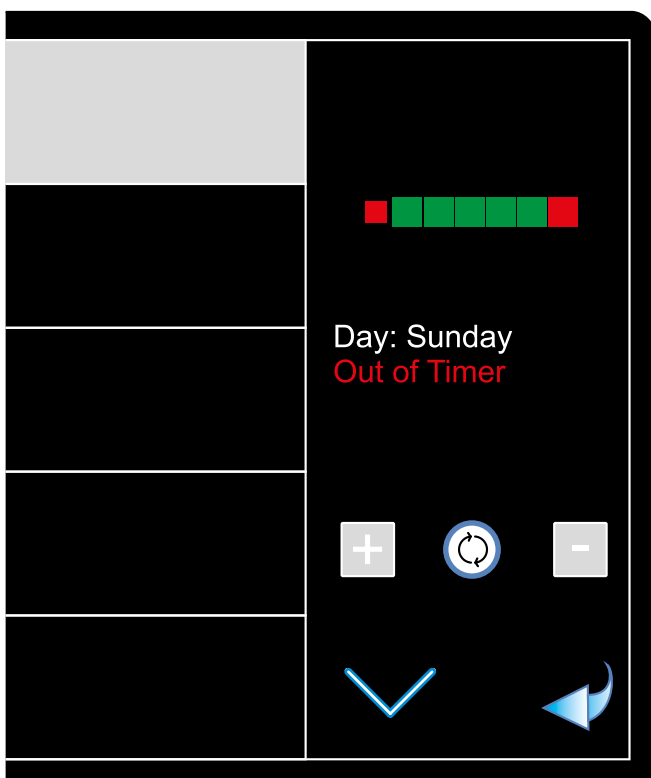
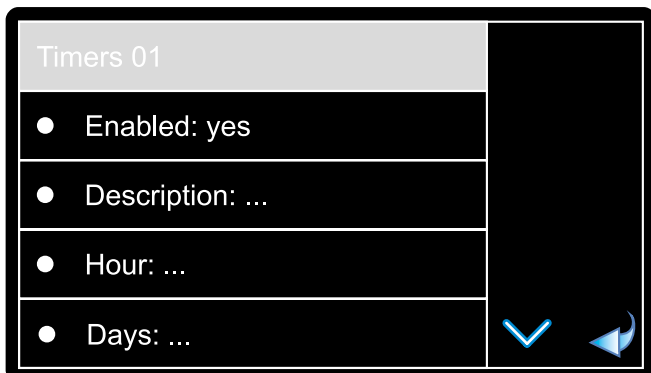
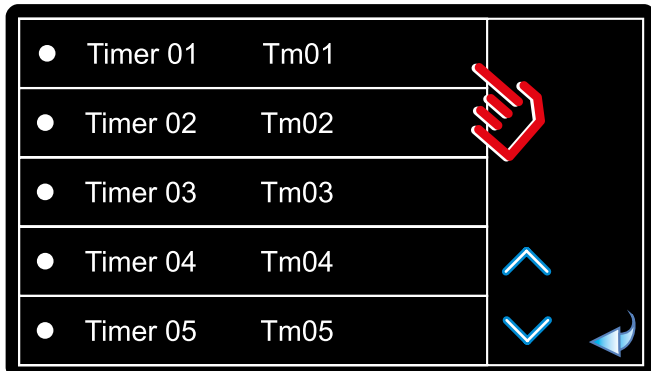
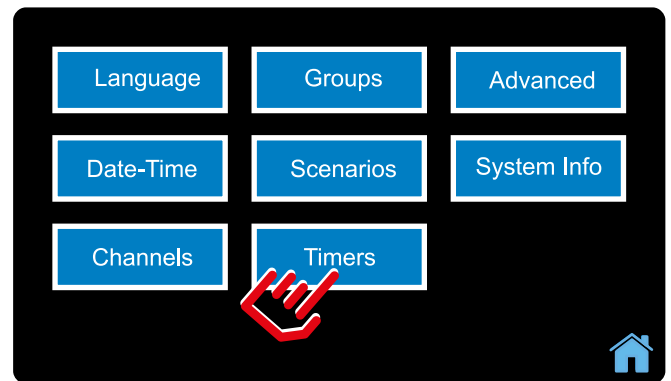
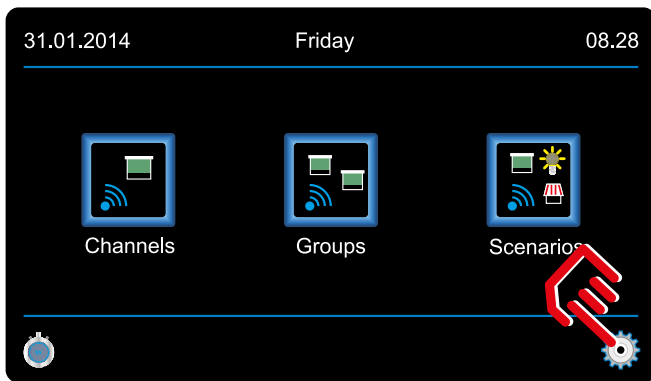
✓ **ENABLED:** press + or - to enable/disable the scenario. During normal operation access to the scenario is only possible if the scenario is enabled and populated with one active channel.

✓ **DESCRIPTION:** enter the scenario description (e.g. "out of home" - max. 15 digits). Press OK to confirm.

✓ **COMPOSITION:** press + or - to select the channel to be added to/removed from a scenario. Set using the CHANGE button. Only active channels may belong to a scenario. The summary graph identifies the channels that may belong to a scenario, but do not, with a RED box, the channels belonging to a scenario with a GREEN box and the channels that cannot belong to a scenario with a GREY box (because they are not enabled).

✓ **CONTROLS:** press + or - to select the channel. Press the CHANGE button several times until the desired control is selected. The summary graph identifies the channels that belong to a scenario with a GREEN box and the channels that do not belong to a scenario with a GREY box (because they are not selected in the COMPOSITION field).

06.6 TIMERS

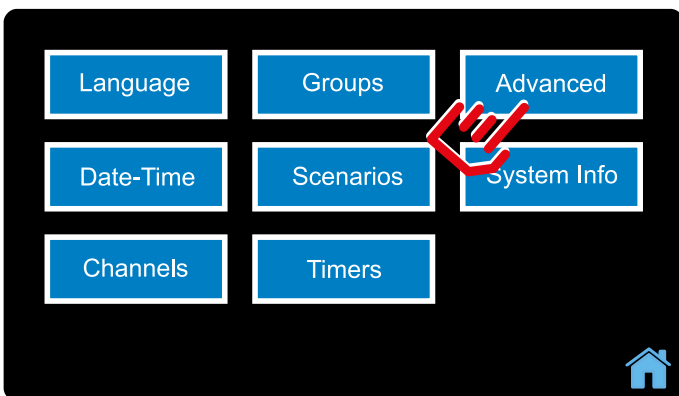
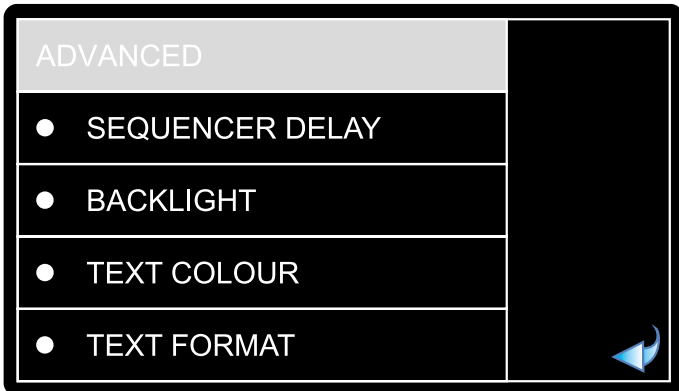
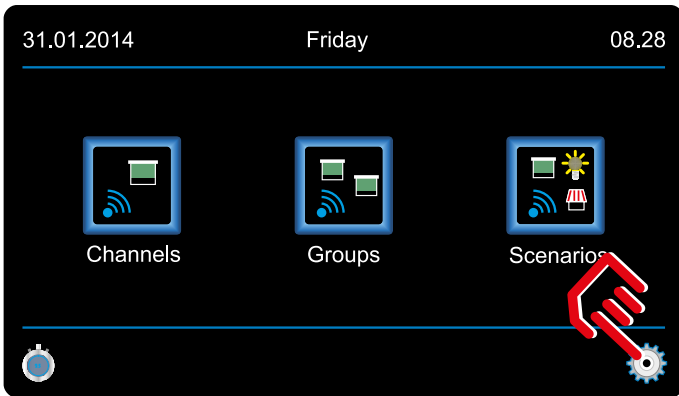


- ✓ press **SETTINGS**.
- ✓ press **Timers**.
- ✓ Select the desired timer (e.g. timer 01).
- ✓ **ENABLED:** press + or - to enable/disable the timer (the TIMER function must be enabled in the main screen of the device - ref. to sect. 7.4 "Timer function").
- ✓ **DESCRIPTION:** enter the timer description (e.g. "alarm clock" - max. 15 digits). Press OK to confirm.
- ✓ **TIME:** enter the time as follows "hours.minutes". Press OK to confirm
- ✓ **DAYS:** press + or - to select the days for timer activation. Set using the CHANGE button. The summary graph identifies the days on which the timer must not activate with a RED box and the days on which the timer must activate with a GREEN box (on condition that the TIMER function is enabled on the main screen).
- ✓ **COMPOSITION:** select the scenarios to be added to/removed from the timer. Set using the CHANGE button. Only active scenarios may belong to a timer. If more than one scenario is selected, and if a channel is associated to more than one scenario, the channel will be involved in several transmissions (one for each scenario).

Note

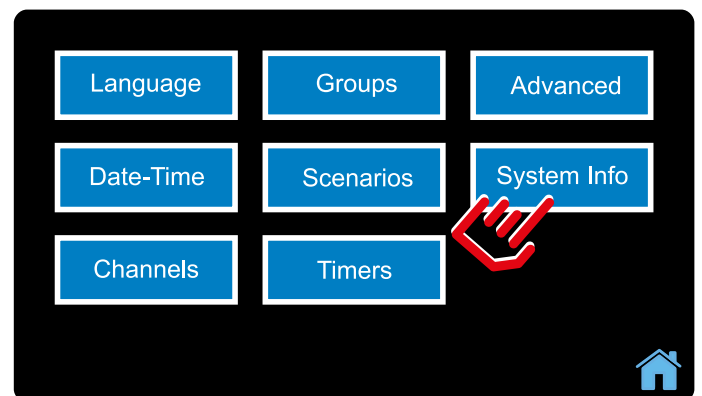
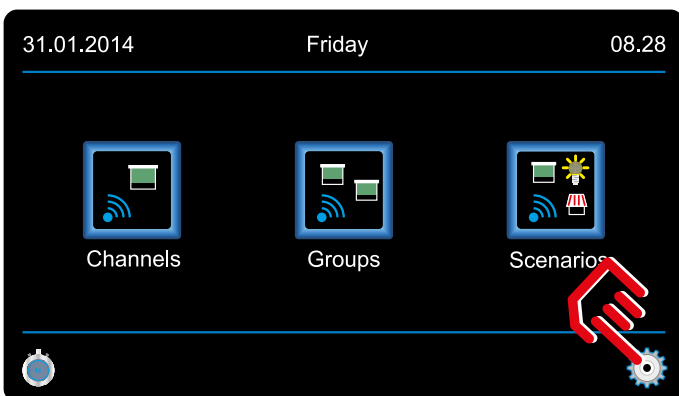
If transmissions are controlled remotely by a timer and a second timer triggers, the second timer may not be implemented. For this reason we recommend that the timer values be set at a distance of a few minutes from one another.

06.7 ADVANCED



- ✓ press **SETTINGS**.
- ✓ press **Advanced**.
- ✓ **SEQUENCER DELAY**: this is the time elapsing between transmission from a channel and that from the next channel. Press + or - to select the desired value. The default value set in the factory is 1 second.
- ✓ **BACKLIGHT**: it is used to set whether the backlight must be “always on”, must fade after 30 seconds or must switch off after 30 seconds of device inactivity. To reduce energy consumption, and to preserve the duration of the backlight, we **DO NOT RECOMMEND** selection of the option “always on”. Press + or - to select the desired setting. The factory default setting is “Fade”.
- ✓ **TEXT COLOUR**: the system allows selection of the colour of both banners and labels.
- ✓ **TEXT FORMAT**: it is used to select the font to be associated to the icons in the initial screen.

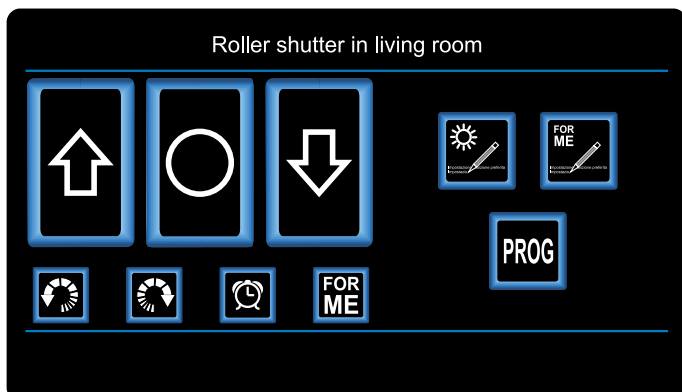
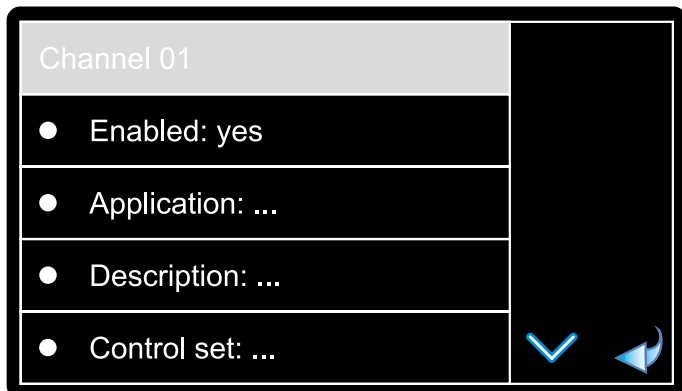
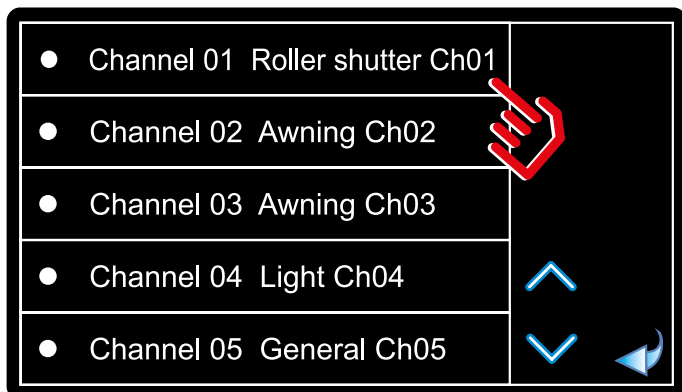
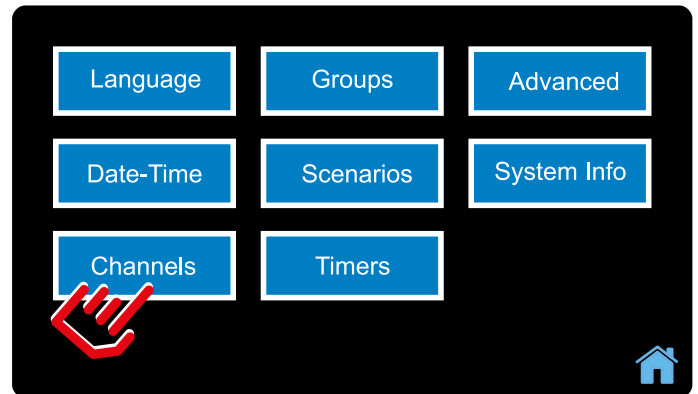
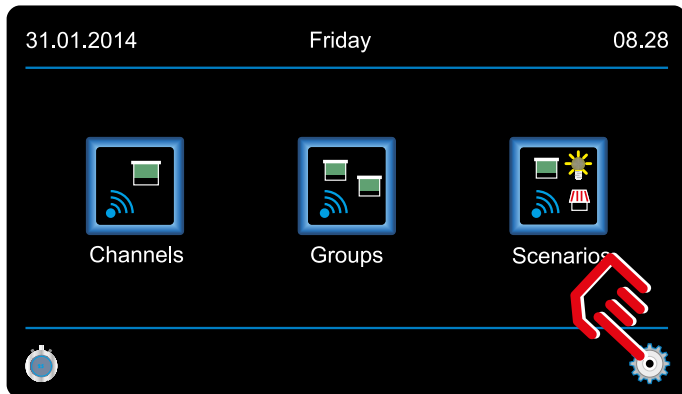
06.8 SYSTEM INFO



- ✓ press **SETTINGS**.
- ✓ press **System Info**.
- ✓ This screen summarises some of the product identification data. In the event of a device failure, this information may be useful to the service centre. For this reason we recommend that our customers take note and store this information in a safe place so as to have it available for the service centre upon request.

07. HOW TO TUNE A RECEIVER

The device manages up to 40 separate radio channels. Each radio channel can be tuned with a receiver (e.g. a motor with a built-in radio system, an external receiver for motor start-up, lights, irrigation systems, etc.). Although more than one receiver can be stored in one channel, we recommend that only ONE receiver be stored in each channel for correct operation. To tune a receiver with a radio channel, proceed as instructed below.



- ✓ press **SETTINGS**.
- ✓ premi **Channel**.
- ✓ Select the channel to be tuned (e.g. CHANNEL 01).
- ✓ Set **ENABLED** to **YES**.
- ✓ Select the application (e.g. **ROLLER SHUTTER**).
- ✓ Enter a description for the channel (e.g. **DINING ROOM**).
- ✓ Select **CONTROL SET**.
- ✓ Follow the installation instructions provided in the manual of the receiver that needs to be associated to the radio channel.
- ✓ Use the **CONTROL SET** buttons to make sure that the receiver correctly responds to the given controls (*).
- ✓ Only after receiver installation, if the need arises to change some operating parameters of the receiver, select **RECEIVER MENU** and edit the desired parameters with reference to the instruction manual of the receiver.

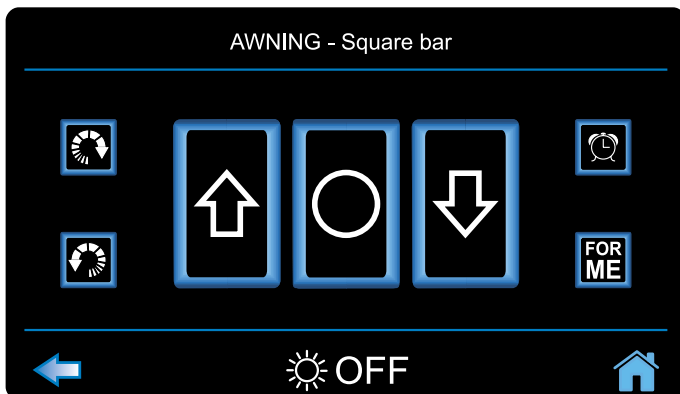
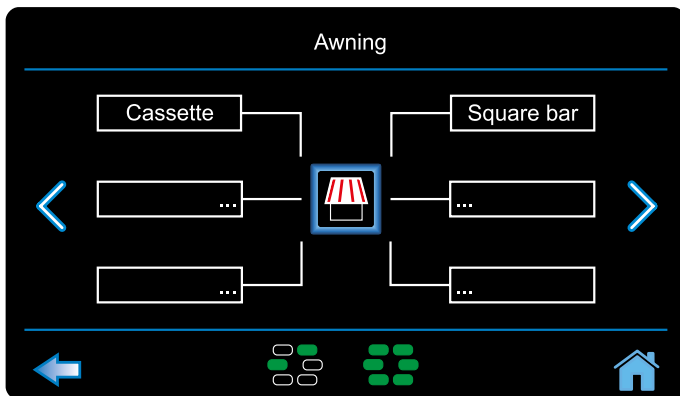
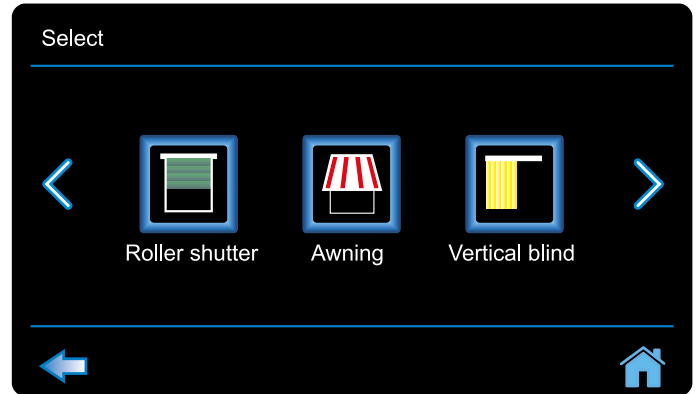
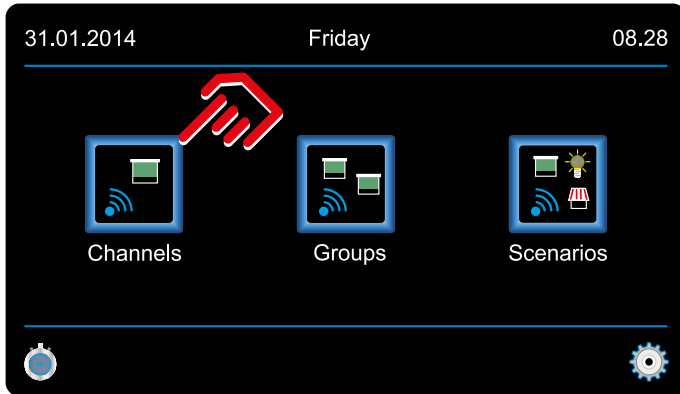
Notes:

- ✓ Store all the receivers (one for each radio channel) and then create the groups (up to 8), the scenarios (up to 8) and the timers (up to 8) as needed.
- ✓ (*): some receivers may not be designed to implement all the available controls.

08. DEVICE OPERATION


08.1 CHANNEL ACTIVATION

CHANNELS: it is used to use one or several channels of the selected application (e.g. roller shutters, awnings, etc.).



LIGHT/AUTOMATIC LOWERING FUNCTION

If the receiver associated with the radio channel is equipped with the “light” or the “automatic lowering” function, it is possible to enable or disable the function directly from the transmitter. This function is “disabled” by default.

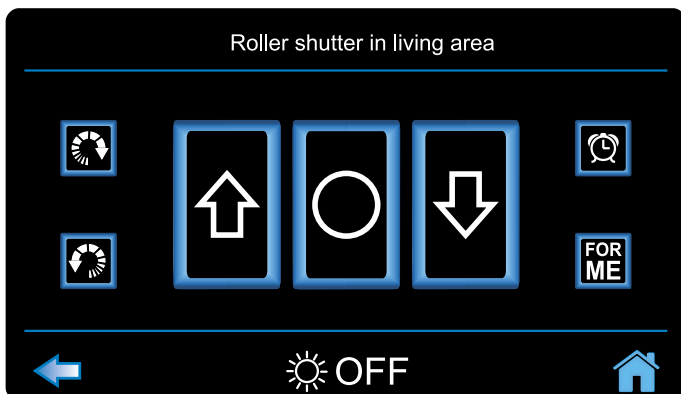
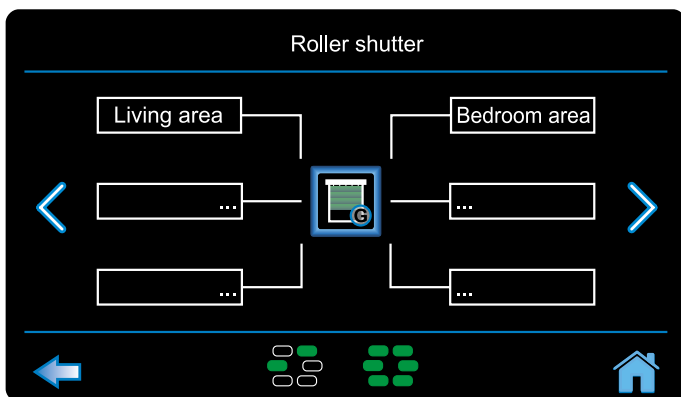
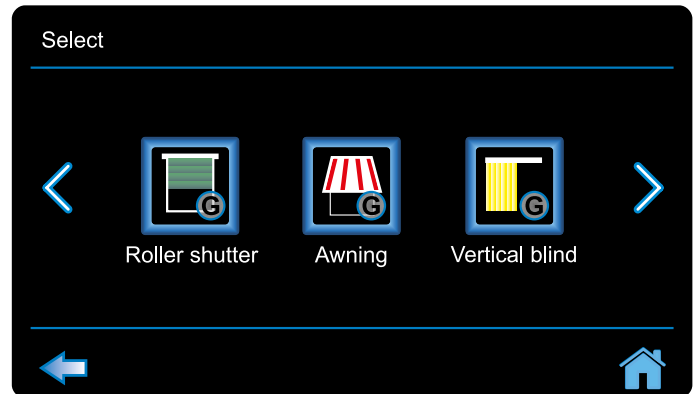
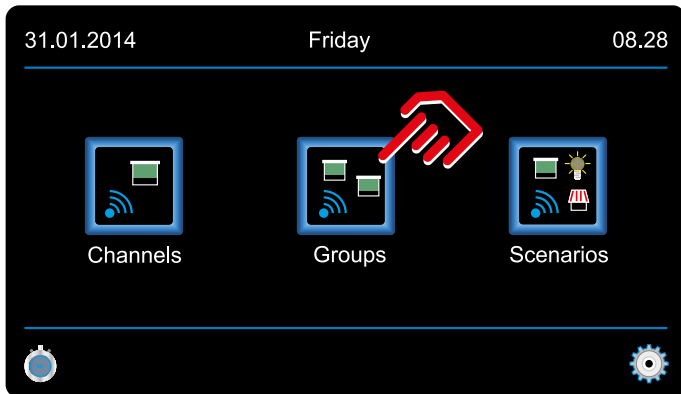
 OFF Indicates that the function is DISABLED for the selected channel.

 ON Indicates that the function is ENABLED for the selected channel.

To change the status, press the icon: it switches from ENABLED to DISABLED and vice versa.

08.2 GROUP ACTIVATION

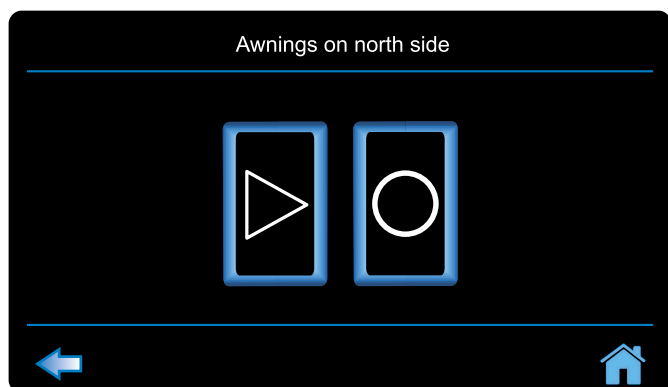
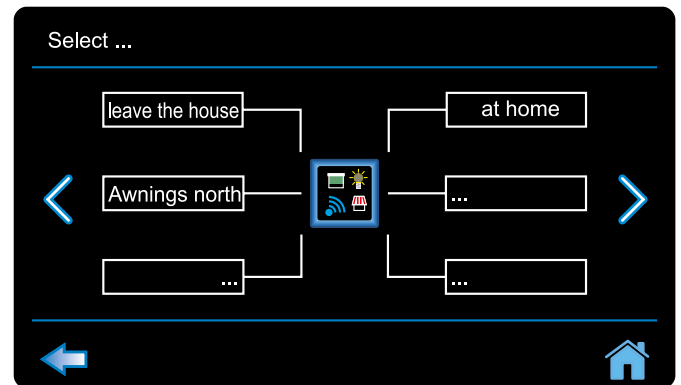
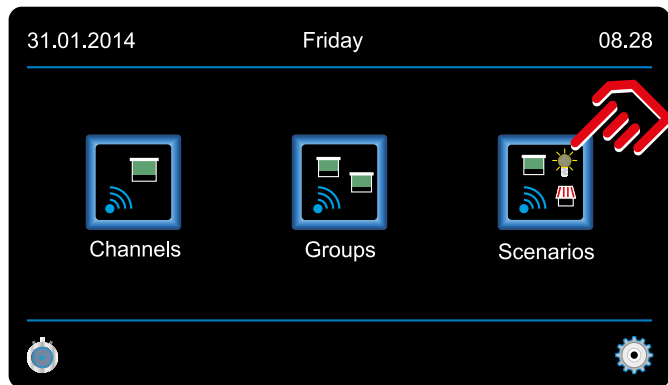
GROUPS: it is used to use one or several groups of the selected application (e.g. roller shutters, awnings, etc.).



- ✓ Select **Groups**.
- ✓ Select an application. The list of groups belonging to the selected application appears.
- ✓ If the user wants to select:
 - single group**: press the description of the desired group;
 - more than one group**: press the MORE button; press the description of the desired groups followed by the button AHEAD;
 - all groups**: press the button ALL followed by the button AHEAD (to delete a group from those selected, click the description and then press AHEAD).
- ✓ Select the control to be transmitted. Press HOME or BACK to stop transmissions: the system goes back to the previous page or to the main page.

08.3 SCENARIO ACTIVATION

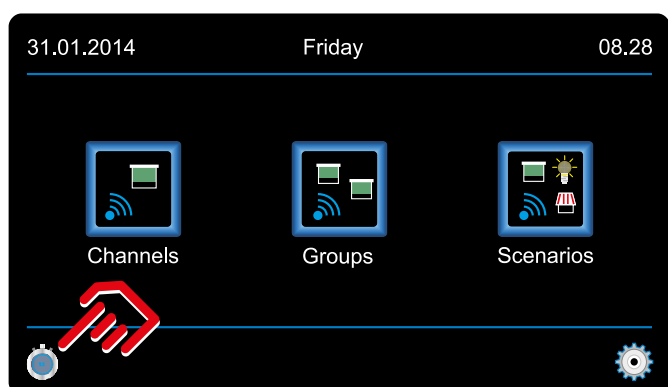
SCENARIOS: it is used to activate a scenario.



- ✓ Select **Scenarios**.
- ✓ Press the description of the desired scenario.
- ✓ Press GO (or STOP). Press HOME or BACK to stop transmissions: the system goes back to the previous page or to the main page.

08.4 TIMER FUNCTION

TIMERS ON/OFF: it is used to enable or disable the TIMER function. Click the icon to change the setting.

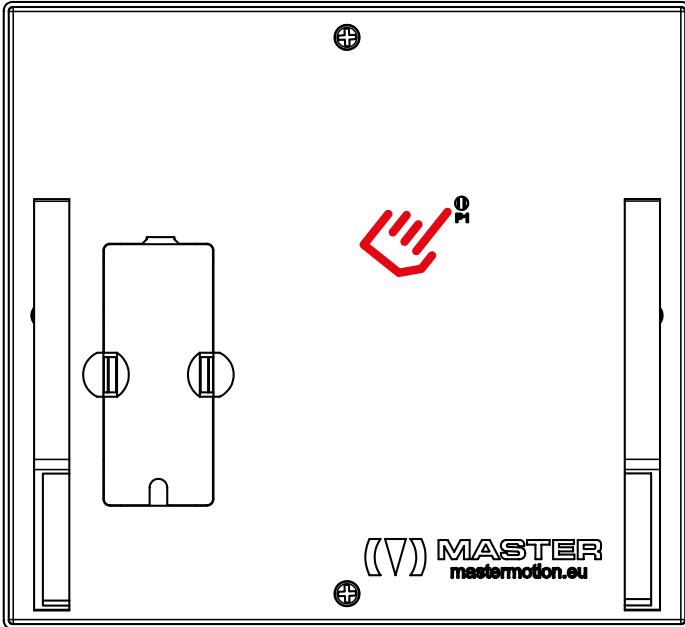


- ✓ For a timer to get enabled, the timer must be active (see section 05.6) and the TIMER function must be enabled. To enable/disable the TIMER function, shortly press the TIMER button.
- ✓ For correct timer operation the date and time must be set correctly (see section 05.2), so we recommend checking them.

09. RESTORING FACTORY CONDITIONS (RESET)



WARNING: this procedure resets the device to the factory settings. This procedure must only be carried out by qualified technical staff. After carrying out the reset procedure, the qualified technician must promptly carry out all the installation operations described in section 5 “First installation”.



- ✓ Cut out power to the device.
- ✓ Hold down **P1** to switch on the device until the text «Factory conditions restored» appears on the display (approx. 15 sec).
- ✓ Release **P1**.
- ✓ Wait until the device completes the restart procedure.

10. TROUBLESHOOTING

10.1 THE DISPLAY DOES NOT SWITCH ON

- ✓ Check that the device is supplied with the correct voltage.
- ✓ Contact your supplier.

10.2 THE RECEIVER FAILS TO STORE A RADIO CHANNEL

- ✓ Check the receiver compatibility with this device (contact your supplier).
- ✓ Make sure that the transmitter tuning procedure is run correctly (see RECEIVER manual).
- ✓ Move the device close to the receiver and run the transmitter tuning procedure again (see RECEIVER manual).
- ✓ Try and store a transmitter series ARCO or FLUTE in the receiver. If the transmitter series ARCO or FLUTE gets stored, but this device does not, contact your supplier.

10.3 THE TIMERS DO NOT WORK

- ✓ Check that the date and time are set correctly (see section 05.2).
- ✓ Check for correct setting of the timer.
- ✓ Check that the TIMER function is enabled (see section 07.4).

Disposal

At the end of the product life cycle, discard it as required by local regulations or return it to the dealer when buying a new equivalent device. This product could contain substances that are harmful to human health and the environment: do not dispose of the product with household-type waste.



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Consult the website www.mastermotion.eu
for updates and additions.



All products and the technical specifications given in this document are subject to variation without notice. Unless previously and specifically authorised by the manufacturer, the device must be used exclusively with receivers produced by the same manufacturer. The manufacturer shall not be liable for damage resulting from unsuitable, incorrect or unreasonable use. MASTER hereby declares that the device complies with the fundamental requirements and other provisions of Directive 1999/5/EC.