



Operating instructions

celexon Electric HomeCinema Tension



Thank you for purchasing this product.

For optimum performance and safety, please read these instructions carefully before connecting or operating this product. Please retain these instructions for future reference

WARNINGS

The purpose of these operating instructions is to familiarise you with the operation of this product. Therefore, keep these instructions in a safe place so that you can refer to it at any time

- The purpose of these operating instructions is to familiarise you with the operation of this
- this product. Therefore, keep these instructions in a safe place so that you can refer to it at any time.
- Before installation, please refer to the enclosed data sheet for further safety and use instructions.
- Do not begin installation until you have read and understood the complete operating instructions.
- Carry out the installation with another person to ensure safe installation.
- Remove the product from its packaging and remove all packaging material. Make sure that there is no packaging material on or in the product. If you notice any damage to the packaging, also check whether there is any damage to the product. If you notice any external damage to the unit or any unexpected or unusual functioning, the product must not be used any further. Immediately contact the dealer from whom you purchased the product or celexon directly (Web: www.celexon.co.uk, Mail: info@celexon.co.uk) for further information.
- To ensure trouble-free operation, the product may only be used indoors. It is NOT suitable for outdoor use.
- The use of the appliance and accessories is forbidden to children under 16 years of age.
- Ensure that no children play with the appliance or are in the vicinity without supervision.
- Conversion or modification of the product impairs product safety.
- Caution: Risk of injury! Never open the product without authorisation. Never carry out repair yourself!
- Do not use the product near gas or water appliances or in a dusty environment.
- Handle the product with care. It can be damaged by knocks, blows or falling from even a small height.
- Keep the product away from moisture and heat.
- Never immerse the product in water or other liquids.
- Use the product only in its intended manner. Use for any other purpose may damage the product or its surroundings.

- Tighten the screws, but do not overtighten them. Overtightening the screws (e.g. by using a cordless screwdriver) can cause damage and affect the secure hold of the screen.
- Suspended loads must be checked for strength and load-bearing capacity at least twice a year.
- Children should not use the screen or play under it unsupervised.
- Caution: Risk of injury! The unit closes flush and firmly in its retracted state, keep fingers, hands or other small parts away from the opening.
- All supply lines and cables must not be subjected to additional loads and must be laid in such a way that they are not damaged or crushed.
- Failure to observe the above instructions may result in personal injury and damage to the product or equipment connected to it. Incorrect installation or use may also invalidate the warranty.
- If you are unsure about the use of the product, please contact specialist personnel, your dealer or celexon directly (Web: www.celexon.co.uk, Mail: info@celexon.co.uk).
- Technical changes and errors expected.

The manufacturer accepts no responsibility for damage to property or personal injury, if the screen is used outside the recommended specifications, or in the event of improper installation. **Do not use this screen in the vicinity of heaters or air conditioners. Also, do not mount the product in direct sunlight or in front of a window.** Due to the temperature-sensitive PVC surface, the projection screen fabric may be permanently damaged.

We recommend that you wait approx. 2 hours after delivery before installing the projection screen. This way you will allow the screen to acclimatise, especially when moving from a cold to a warm environment (or vice versa).

Please **avoid any stains on the surface of the screen.** These may not be able to be removed

The **positions of the end points are already optimally set** at the factory and should not be changed. Especially with electric screens, the entire length of the fabric should always be used in order to achieve the best flatness. An adjustment of a few cm of the end points should only be made by persons with specialist knowledge and in consultation with the manufacturer. Incorrect adjustment can result in damage to the projection surface.

DISCLAIMER

The information in this document is subject to change without notice by the manufacturer. Changes will be added to subsequent versions of this manual. Errors expected.

CARE INSTRUCTIONS

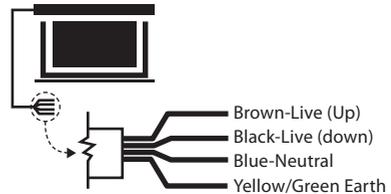
NEVER clean the screen with alcohol or other cleaning agents containing solvents. Use only a soft and clean cloth. If necessary, dirt can be removed from the surface with a mild soap solution (max. 5%). It is essential to avoid contact with pointed or sharp objects. These could permanently damage the projection screen fabric. Further instructions can be found in the enclosed projection screen instructions.

VOLTAGE

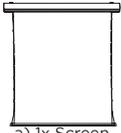
Consumption: 230 V, 50 Hz

Consumption: 130 W (MAX)
0,4 W (Standby)

Control: External infrared control box with remote control



IN THE BOX



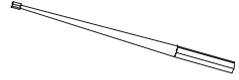
a) 1x Screen



b) 2x Wall and ceiling mounting bracket



c) 8x Screw for wall and ceiling mounting brackets



d) 1x Hexagon socket key



e) 2x Remote control (1x infrared, 1x radio)



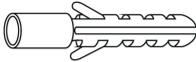
f) 2x battery



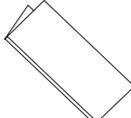
g) 1x Trigger cable



h) 1x IR receiver



i) 8x Plastic dowels



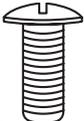
j) Operating instructions



k) Eyelets for hanging



l) 2x RJ12 plug



m) 4x Screws for eyelets



n) Radio trigger



o) Adapter for radio trigger

INSTALLATION NOTE

Install the screen in a position that is fully visible to all viewers! The optimum installation height corresponds to the position of the viewers in the centre of the screen with the screen fabric extended: eye level = lower third of the screen surface. Install the screen straight and level, otherwise there is a danger that the screen fabric will be wound up and unwound crookedly. The enclosed mounting material is intended for a solid stone wall. If necessary, obtain suitable mounting material for your installation surface.

With this screen you have the option of choosing between three mounting variants. As a general rule, the mounting brackets (b) should ideally be between 200 and 300 mm from both ends of the screen (see fig. 1).

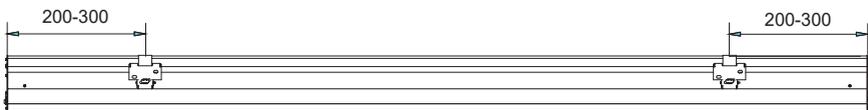
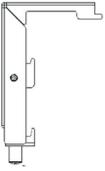
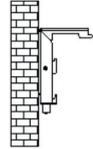


Abb. 1



Before starting an installation variant, the assembly bracket (b) must be set to its basic position. To do this, turn the lower safety screw on the mounting bracket (b) counterclockwise so that the bracket opens. Do not turn the screw completely, but only until the bracket loosens and it fits into the grooves on the back of the housing.

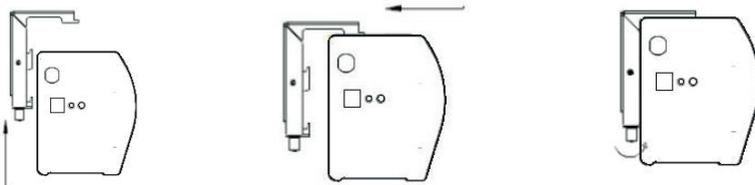
Remove the transport protection between the dowel bar and the housing.



MOUNTING ON THE WALL

ATTENTION! Make sure that you have a load-bearing surface

1. For mounting on a solid stone/concrete wall, please use the plastic dowels (i). Determine the dimensions and height of the projection screen surface to determine the position of the mounting brackets (b). Draw a horizontal line (spirit level) to bring both mounting brackets to the same height. Use the mounting brackets as a guide and mark the holes on the wall with a pencil. Then drill holes according to the markings with a drill and insert the dowels into the holes (the dowels must be seated tightly in the holes). Fasten the mounting brackets to the wall with the screws (c).
2. Now lift the screen housing with two people and carefully insert it into the mounting brackets. Make sure that the housing profiles engage in the hooks of the mounting brackets. Now let the case go slowly downwards and do not let go until the housing is actually held by the bracket (in both hook lugs).

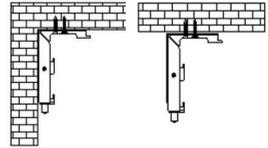


1. Hold the housing in front of the bracket and push it from below so that the upper edge goes against the top of the bracket.

2. Push the housing towards the wall until it is noticeably on the hooks.

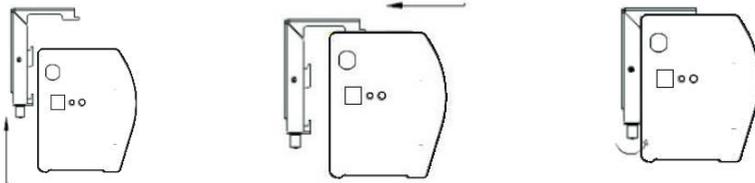
3. As soon as the housing is securely on the bracket, turn the lower safety screw clockwise to tighten the bracket. This closes the bracket and the housing is moved a little upwards.

MOUNTING ON THE CEILING (SCREWED)



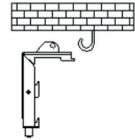
ATTENTION! Make sure that you have a load-bearing surface

1. For mounting on a solid stone/concrete ceiling, please use the plastic dowels (i). Draw a line to install the two mounting brackets in alignment. Use the mounting brackets as a template and mark the holes with a pencil. Then drill the holes with a drill according to the markings and insert the dowels into the holes (the dowels must sit tightly in the holes). Fasten the mounting brackets to the ceiling with the screws (c).
2. Now lift the screen housing with two people and insert it carefully into the mounting brackets. Make sure that the housing profiles engage in the hooks of the mounting brackets. Now let the housing slowly downwards and do not let go until the housing is actually held by the bracket (in both hook lugs).



1. Hold the housing in front of the bracket and push it from below so that the upper edge goes against the top of the bracket.
2. Push the housing towards the wall until it is noticeably on the hooks
3. As soon as the housing is securely on the bracket, turn the lower safety screw clockwise to tighten the bracket. This closes the bracket and the housing is moved a little upwards.

MOUNTING ON THE CEILING (HANGING)

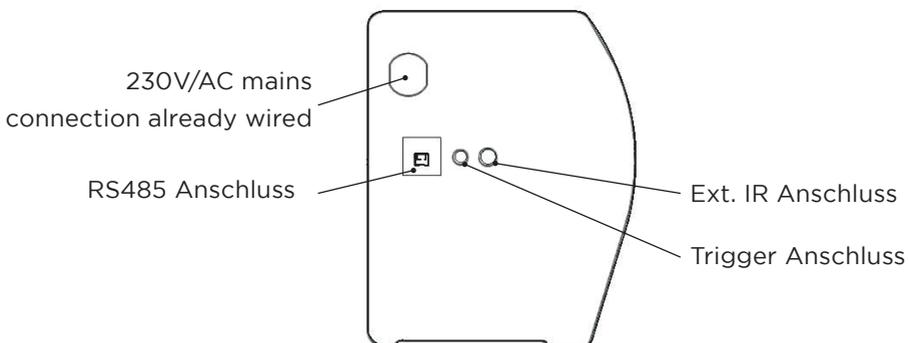


ATTENTION! Make sure that you have a load-bearing substrate

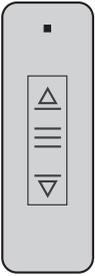
1. For mounting on a solid stone/concrete ceiling, please use the plastic dowels (i). Determine the position of the mounting brackets (b) by the height of the projection screen surface. Draw a straight line to ensure the two mounting brackets are aligned with each other.
2. Attach the eyelets (k) to the upper part of the bracket.
3. Attach the brackets with the eyelets firmly to the housing and measure the distance between the eyelets. Mark this accordingly on the ceiling using a pencil.
4. Drill holes according to the markings with a drill bit, insert the dowels into the holes (the dowels must sit tightly in the holes) and screw in M6 ring eyelets with the appropriate specification. (Ring eyelets and carabiners for hanging must be provided by the customer).
5. Now lift the screen housing with two people and hang the screen with carabiners on the hooks.

OPERATION

Connect the screen to the power supply using the enclosed power cable. Please ensure that the power supply is correct (230V/AC). Do not lay the cable on hot surfaces and avoid unnecessary tension.



The screen is supplied with an infrared (IR) and a radio remote control (RF). To use the IR remote control, please use the enclosed IR receiver (h). Plug the jack plug into the socket „ext. IR connection“ on the left side of the projection screen housing and position the receiver in such a way that it has clear visual contact with the IR remote control (underside of the housing).



Operating the remote controls

1. Press the **„Up“** button on the remote control. The screen will automatically move to the upper end position and stop automatically.
2. Press the **„Stop“** button on the remote. The movement of the screen stops immediately.
3. Press the **„Down“** button on the remote control. The screen will automatically move to the lower end position and stop automatically.

Pairing the radio remote control

The radio remote control is already paired with the integrated receiver at the factory. If the pairing has been cancelled, please proceed as follows:

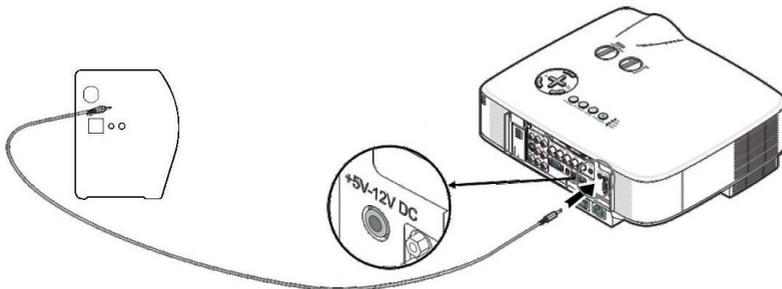
1. The screen should be disconnected from the power supply. Open the battery compartment of the radio remote control. There is a small button to the left of the battery.
2. Connect the screen to the power supply and immediately press the button twice in quick succession. A signal tone will then sound twice.
3. After the signal tone, press the „Up“ button until the signal tone sounds 3 times in succession. This completes the pairing.

If the pairing between the remote control and the screen is broken, first reconnect the remote control and then the trigger.

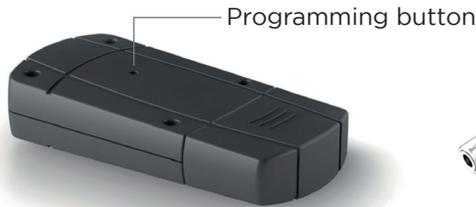
Trigger (cable)

The trigger connection allows the screen to extend and retract automatically when the projector is switched on and off. To do this, connect the screen to the trigger output of your projector via the trigger connection. The trigger output of your projector may have to be activated in the software so that the projector can send the control signals to the screen. For more information, please refer to the operating instructions of your projector or contact the manufacturer.

Input voltage of the trigger connection: DC / AC 5V - DC / AC 20V



Radio Trigger



Transmitter



Adapter USB to 3,5 mm jack*

Technical data

Voltage:	AC/DC 12 V
Frequency	433.92 MHz + 100 KHz
Voltage transmission:	10 Milliwatt
Distance:	max. 20 m

*The USB to 3.5 mm socket adapter is necessary if the projector does not have a 3.5 mm trigger socket.

1. Learning the trigger

Variant 1:

1. Disconnect the screen from the power supply and reconnect it after 10 seconds
2. Press the programming button on the trigger within 5-8 seconds
3. The screen moves up and down briefly, the trigger is paired

Variant 2:

1. Disconnect the screen from the power supply and reconnect it after 10 seconds
2. On the back of the radio remote control under the battery cover, press the small button twice, it beeps each time you press it
3. Press the programming button on the trigger within 5-8 seconds, it beeps, then the trigger is connected.

2. Now plug the transmitter into the projector. Please make sure that the projector is in standby mode. If your projector does not have a 3.5mm 12V trigger socket, please use the USB adapter and connect the trigger to a USB socket.
3. When the projector is switched on, the transmitter triggers the screen and the screen extends. As soon as the projector is switched off, the transmitter triggers the screen and the screen retracts. Please note that depending on the projector and the mode set, the trigger function may only be activated at the end of the projector's switch-off process.

ASSIGNMENT RS485 OUTPUT:

Connection type

(Marked as 485-A white cable | 485-B black cable)

Communication partner

Baud rate: 9600

Data bit: 8

Stop bit: 1

Check bit: None

Communication protocol

485-A white cable

Start code	485-A Address				Command code	Command values	Check code (CRC16)	
	ID0	ID1	ID2	ID3			crcH	crcL
0x55	ID0	ID1	ID2	ID3	Befehl	Daten	crcH	crcL
1BYTE	1BYTE	1BYTE	1BYTE	1BYTE	1BYTE	nBYTE	1BYTE	1BYTE

485-B black cable

Start code	485-B Address				Command code	Command values	Check code (CRC16)	
	ID0	ID1	ID2	ID3			crcH	crcL
0xAA	ID0	ID1	ID2	ID3	Befehl	Daten	crcH	crcL
1BYTE	1BYTE	1BYTE	1BYTE	1BYTE	1BYTE	nBYTE	1BYTE	1BYTE

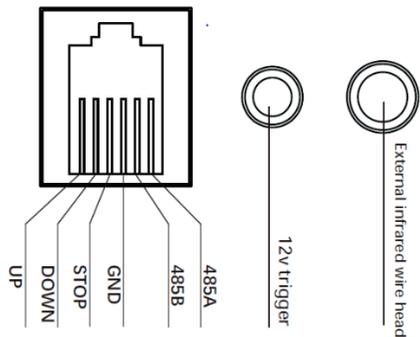
1. Start code: 485-A 0x55 Start code: 485-B 0xAA
2. Device address: 4 bytes (ID0 is the highest, ID3 the lowest) In the case of common control, the device address is 0x00000000. If the control is carried out together and the ID is not explicitly mentioned, 485-B does not react.
3. Check cod: checked by CRC16 (start code + address + command code + command value).

Movement	Command	Example
ID	0X02	485-A:55 00 00 00 00 02 05 ID0 ID1 ID2 ID3 crcH crcL 485-B:AA ID0 ID1 ID2 ID3 02 01 crcH crcL
Retract	0x04	485-A:55 ID0 ID1 ID2 ID3 04 02 crcH crcL 485-B:AA ID0 ID1 ID2 ID3 04 01 crcH crcL
Extend	0x05	485-A:55 ID0 ID1 ID2 ID3 05 02 crcH crcL 485-B:AA ID0 ID1 ID2 ID3 05 01 crcH crcL
Stop	0x06	485-A:55 ID0 ID1 ID2 ID3 06 01 crcH crcL 485-B:AA ID0 ID1 ID2 ID3 06 01 crcH crcL

Operation

If the power is turned off for more than 10 seconds and then on again, 1x sound is emitted.

The host sends an ID command via 485 to the Controller within 10 seconds. After the controller has received the command it stores the ID and controls the return of the response signal to the host. A tone will then sound 5 times. This completes the operation



It is possible to set the stop points. Please request the instructions for this procedure from your specialist dealer or directly via www.celexon.com.

INFORMATION ON EU CONFORMITY

Manufacturer: celexon Europe GmbH
Address: Gutenbergstraße 2, 48282 Emsdetten, DE
Product name: celexon Electric HomeCinema Tension

Hereby celexon Europe GmbH declares that the celexon Electric HomeCinema Tension complies with the directive 2014/53/EU. The EU declaration of conformity can be downloaded from the following address: www.celexon.de/zertifikate



The symbol indicates the separate collection of electrical and electronic devices in EU countries. Please do not throw the device into household waste. Find out about the return system applicable in your country and contact your local authority or your local waste and pollutant collection point if you have any questions about the disposal process.

INFORMATION ON UK CONFORMITY

Manufacturer: celexon Europe GmbH
Address: Gutenbergstraße 2, 48282 Emsdetten, DE
Product name: celexon Electric HomeCinema Tension

Hereby celexon Europe GmbH declares that the radio equipment type celexon Electric HomeCinema Tension complies with the Radio Equipment Regulations 2017. The UK declaration of conformity can be downloaded from the following address: www.celexon.de/zertifikate



The symbol indicates the separate collection of electrical and electronic devices in EU countries. Please do not throw the device into household waste. Find out about the return system applicable in your country and contact your local authority or your local waste and pollutant collection point if you have any questions about the disposal process.