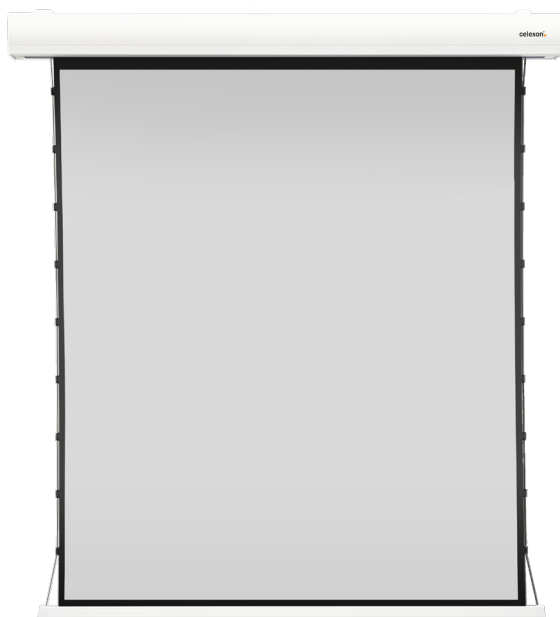




## Operation manual

### celexon HomeCinema Electric Tension screen



Thank you for choosing a quality product from celexon.  
Please read the instructions carefully before using the screen  
and keep them for future reference!

## Safety instructions

- Please read the enclosed data sheet with further safety and usage instructions before assembly.
- Do not start assembly before reading and understanding the user manual.
- This product should only be installed by qualified personnel with mechanical and electro-technical knowledge.
- Perform the installation with another person to ensure safe installation.
- Tighten the screws, but do not over tighten them. Over tightening may cause damage and affect the secure installation of the screen.
- This product is intended for indoor use. Outdoor use could damage the product.
- Hanging loads must be tested at least twice a year for strength and load-bearing capacity.
- Use the product and all accessories only as intended.
- Children should not use the screen unattended or play underneath.

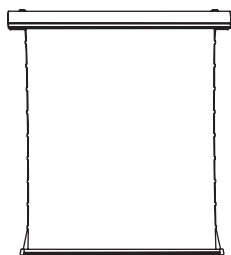
Please read the following instructions carefully and keep them for later reading. The manufacturer assumes **no responsibility for damage to property or personal injury** if the screen is used outside the recommended specifications or if installed improperly.

Do not use this screen **near 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, it can lead to lasting damage of the projection screen. We recommend that you wait approx. 2 hours after delivery for the assembly so the fabric can acclimatize; especially when the screen is brought from cold to warm surroundings. Please **avoid any stains on the fabric surface** as these could possibly not be removed. **The positions of the endpoints are set optimally at the factory and should not be changed.** Especially with Tension screens, the entire length of the fabric should always be used to ensure the best flatness. An adjustment of a few cm of the end stop points should only be made by persons with specialist knowledge and in consultation with the manufacturer. An incorrect setting may damage the screen.

## Care instructions

NEVER clean the screen with alcohol or other detergents that contain solvents. Use only a soft and clean cloth with a mild soapy water if necessary to remove dirt from the surface. Be sure to avoid contact with sharp objects as these could permanently damage the projection screen fabric. **Further information can be found in the enclosed screen documentation.**

## In the box



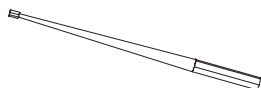
a) 1 x Screen



b) 2 x Wall and Ceiling brackets



c) 8 x screw for wall and ceiling mounting bracket M6x50mm



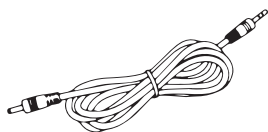
d) 1 x Hexagon socket adjuster



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



f) 2 x Battery (AAA)



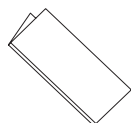
g) 1 x Trigger cable



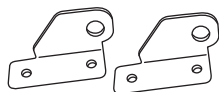
h) 1 x IR Receiver



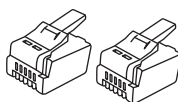
i) 8 x Plastic dowel 45mm



j) 1 x Operation Manual



k) 2 x Eyelets for hanging mounts



l) 2 x RJ12 connector

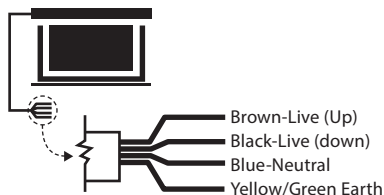


m) 4 x screws for eyelets

## Electrical Spec

Voltage: 230V, 50Hz

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



## Installing the screen

Install the screen at a location visible to all viewers; ideally, the screen should be mounted in the central to the spectators. The lower third of the screen should be about the eye level of the viewer. Install the screen straight and level, otherwise there is a risk that the screen fabric is skewed when unwound. With this screen you have the possibility to choose between four mounting variants. As a general rule, the mounting brackets (b) should ideally be installed between 200 and 300mm in from both ends of the screen (see Fig. 1)

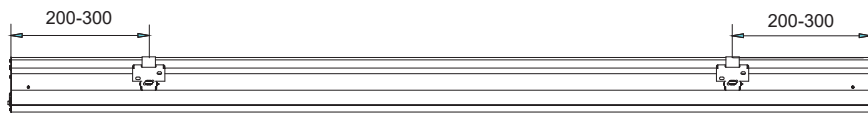
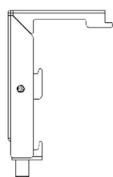


Figure 1

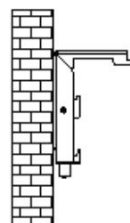


Before starting a mounting variant, the mounting bracket (b) must be adjusted to its basic position: To do this, turn the lower safety screw on the mounting bracket (b) counterclockwise so that the bracket opens. Do not completely unscrew the screw.

## Wall Mounting

**ATTENTION! Make sure that you use a stable surface**

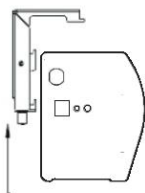
1. For installation on a solid stone / concrete wall, please use the plastic dowels (i). Determine the position of the mounting brackets (b) according to the housing dimensions and the height of the projection screen. Draw a horizontal line (spirit level) to install the two mounting brackets at the same height.



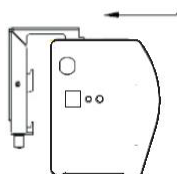
## Installing the screen

Use the mounting brackets as a template and mark the holes with a pencil on the wall. Then drill holes according to the markings with an 6mm drill and insert the dowels into the holes. Attach the mounting brackets to the wall with the universal screws (c)

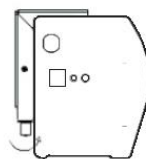
2. Lift the screen housing with two people and insert it carefully into the mounting bracket. Make sure that the housing profiles engage in the hooks of the mounting brackets. Now slowly slide the housing downwards and release it only when the housing is actually held by the bracket.



1. Hold the housing in front of the bracket and push it from below with the upper edge against the bracket head so that the bracket is located in the housing groove.



2. Slide the housing towards the wall until it noticeably sits on the hooks.

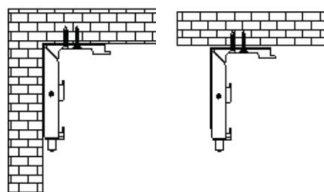


3. Once the housing is securely seated on the bracket, tighten the lower safety screw clockwise. This closes the bracket and makes the screen secure.

## Ceiling mounting - Option 1

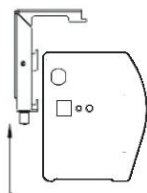
**ATTENTION! Make sure that you use a stable surface**

1. For installation on a solid stone / concrete ceiling, please use the plastic dowels (i). Determine the position of the mounting brackets (b) according to the housing dimensions and the height of the projection screen. Draw a straight line to install the two mounting brackets ensuring they are level. Use the mounts as a template and mark the holes with a pencil on the ceiling. Drill holes according to the markings with an 6mm drill and insert the dowels into the drill holes. Attach the mounting bracket to the ceiling with the universal screws (c).

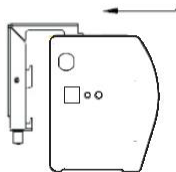


## Installing the screen

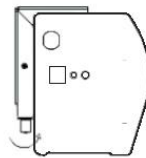
2. Lift the screen housing with two people and insert it carefully into the mounting bracket. Make sure that the housing profiles engage in the hooks of the mounting brackets. Now slowly slide the housing downwards and release it only when the housing is actually held by the bracket.



1. Hold the housing in front of the bracket and push it from below with the upper edge against the bracket head so that the bracket is located in the housing groove.



2. Slide the housing towards the wall until it sits on the hooks.

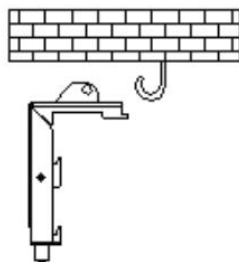


3. Once the housing is securely seated on the bracket, tighten the lower safety screw clockwise. This closes the bracket and makes the screen secure.

## Ceiling mounting - Option 2

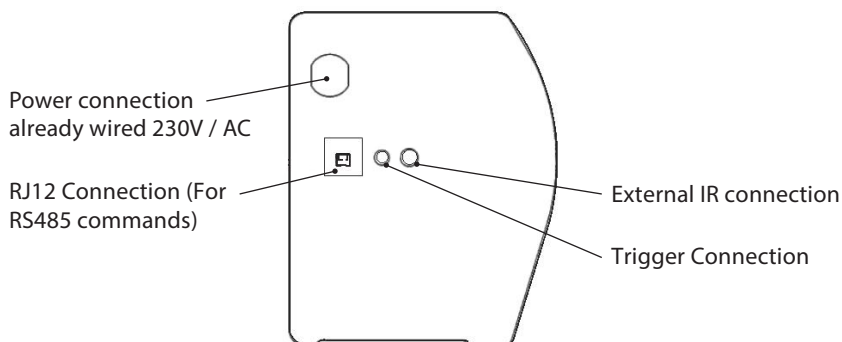
**ATTENTION! Make sure that you use a stable surface**

1. For installation on a solid stone / concrete ceiling, please use the plastic dowels (i). Determine the position of the mounting brackets (b) according to the housing dimensions and the height of the projection screen. Draw a straight line to install the two mounting brackets ensuring they are level. Mount the eyelets (k) on the upper part of the bracket. Use the eyelet on the mounting bracket as a template and mark the holes with a pencil on the ceiling. Drill holes according to the markings with an 6mm drill, insert the dowels into the holes and insert an M6 hook. Then hang the screen with the eyelets on the hooks.



## Operation of the screen

Connect the power to the screen with the included power cord. Please pay attention to a correct voltage supply (230V / AC). Do not lay the cable on hot surfaces and avoid unnecessary tension.



In the box you will find an infrared and a radio remote control. To use the infrared remote control, please use the enclosed IR receiver (h). Insert the jack plug into the „ext. IR port,“ on the left side of the screen housing and place the receiver so that it has line of sight contact with the IR remote control.



### Operation of the remote controls

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

## Operation of the screen

### Pairing the radio remote control

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

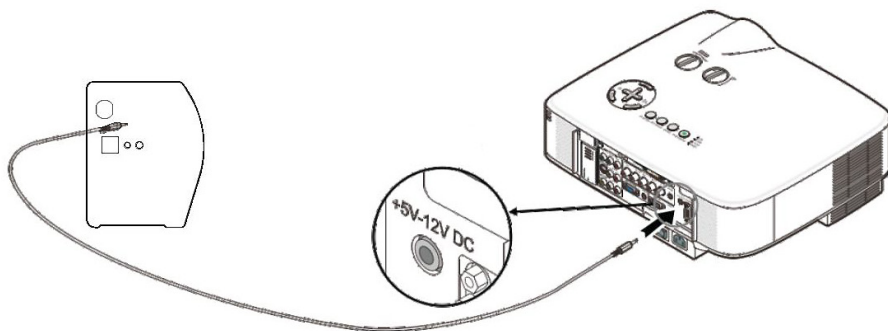
1. Press the „Up“ button for 3 seconds until the remote control LED lights, then connect the power cord to the screen. A beep confirms the started pairing mode.
2. Release the „Up“ button when you hear the beep.
3. Briefly press the „Up“ button and release it. When the beep sounds 3 times quickly, the remote control pairing is complete.

### Connecting the Infrared Remote Control

Connect the IR receiver (h) to the Ext. IR port and position the receiver so that there is permanent visual line of sight between the remote control and the receiver.

### Trigger

With the trigger terminal, the screen can automatically come down and go up when the projector is turned on and off. To do this, connect the screen via the trigger connection to the trigger output of your projector.



It may be necessary to enable the trigger output of your projector software so that the projector sends the control signals to the screen. For further information please refer to the operating instructions of your device or contact the manufacturer of the projector.

Power supply of trigger switches: DC / AC 5V - DC / AC 20V



## Operation of the screen

### Using RS485

1) Mode of connection ( marked as 485-A white wire 485-B black wire )

2) Communication parameters

Baud rate:9600 data bits:8 stop bit:1 check bit:None

3) Communication protocol

Advice

#### 485-A White cable

Start code	Device address				command code	Command value	Check code (CRC16)	
0x55	ID0	ID1	ID3	ID4	COMMAND	DATA	crcH	crcL
1BYTE	1BYTE	1BYTE	1BYTE	1BYTE	1BYTE	nBYTE	1BYTE	1BYTE

#### 485-B Black cable

Start code	Device address				command code	Command value	Check code (CRC16)	
0xAA	ID0	ID1	ID3	ID4	COMMAND	DATA	crcH	crcL
1BYTE	1BYTE	1BYTE	1BYTE	1BYTE	1BYTE	nBYTE	1BYTE	1BYTE

A) Start Code: 485-A 0x55

Start Code: 485-B 0xAA

B) 2 device address : 4 Bytes(ID0 is the highest , ID3 is the lowest),With a common control, the device address is 0x0000000000. If the control occurs together and the ID is not explicitly mentioned, 485-B does not respond.

C) Check code: Checked by CRC16(start code+device address + Command code+ Command value)

Bewegung	Befehl	Beispiel
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
Up	0x04	485-A:55 ID0 ID1 ID2 ID3 04 02 crcH crcL 485-B:AA ID0 ID1 ID2 ID3 04 01 crcH crcL
Down	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

If the power is turned off for more than 10 seconds and then switched on again, 1x buzzer tone sounds. The host then sends an ID command within 10 seconds to the controller via RS485. After the controller has received the command, it saves the ID in the controller then returns the response signal to the host which will emit 5 beeps. The operation is now complete.

# EU / EC Declaration of Conformity

**Manufacturer:** celexon Europe GmbH

**Address:** Gutenbergstraße 2, 48282 Emsdetten, DE

hereby declares that the following product bearing the celexon brand is

**Product name:** celexon HomeCinema Electric Tension screen

In compliance with the manufacturer's instructions, the basic provisions of the following EU Directives, when used as intended, are as follows:

## Screen:

### EMV Guideline (EMC) 2014/30 / EU

- EN 55032:2015
- EN 55035:2017
- EN 61000-3-2:2014
- EN 61000-3-3:2013

### Low Voltage Directive (2014/35 / EU)

- IEC 60950-1:20015
- IEC 60950-1:2005/AMD 1:2009
- IEC 60950-1:2005/AMD 2:2013
- EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013

### Restriction of use of certain hazardous substances (RoHS) 2011/65 / EU and 2015/8637 / EU

- IEC 62321-3-1:2013
- IEC 62321-5:2013
- IEC 62321-4:2013+AMD1:2017 CSV
- IEC 62321-6:2015
- IEC 62321-7-1:2015
- IEC 62321-7-2:2017
- IEC 62321-8:2017

## Radio unit:

### Radio Equipment Directive (2014/53 / EU)

Article 3.1

a) Health and Safety EN62479: 2010

Article 3.1

b) Electromagnetic Compatibility Sets  
EN301 489-1 V2.1.1 (2017-02) and ETSI  
EN301 489-17 V3.1.1 (2017-02)

Article 3.2: Radio-Frequency ETSI  
EN300 220-2 V3.1.1 (2017-02) ETSI  
EN300 328 V2.1.1 (2016-11)



Christoph Hertz  
Managing Director



The symbol indicates the separate take-back of electrical and electronic equipment in EU countries. Please do not dispose of the device in the household waste. Inform yourself about the return system valid in your country and if you have any questions about the disposal process, please contact your local authority and pollutant collection point.

**celexon**<sup>TM</sup>