



# Operating instructions

## celexon UST High Contrast Floor Rising screen - HomeCinema Plus



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

These operating instructions are intended to familiarise you with the operation of this product. Keep this manual 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 the help of another person to ensure a safe installation.
- Remove the product from its packaging and remove all packaging material. Make sure that no packaging material is 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, do not use the product any further. Contact the dealer immediately from whom you purchased the product or celexon directly (Web: [www.celexon.co.uk](http://www.celexon.co.uk), Mail: [info@celexon.co.uk](mailto: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 repairs 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. Any use for any other purpose may result in damage to the product or its surroundings.
- Children should not use or play with the screen unsupervised.
- **Caution: Risk of injury!** The unit closes flush and firmly when retracted. 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.
- Please position the screen so that there is no wind, so that it cannot fall over. The screen is only approved for indoor use.
- Failure to follow 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 your specialist personnel, your dealer or celexon directly (Web: [www.celexon.co.uk](http://www.celexon.co.uk), Mail: [info@celexon.co.uk](mailto:info@celexon.co.uk)).
- Technical changes and errors excepted.

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 or use 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 allows the screen to acclimatise. Wait approx. 24 hours if the projection screen is coming from a particularly cold environment to a warm one (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** on the motor are already optimally set at the factory and must not be changed.

## **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 excepted.

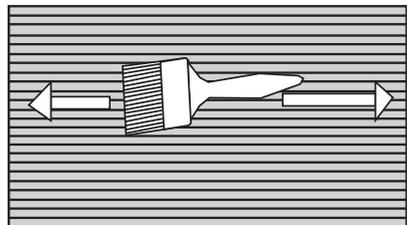
## IMPORTANT NOTES ON FABRIC CLEANING AND CARE

### Do not use a cloth for cleaning!

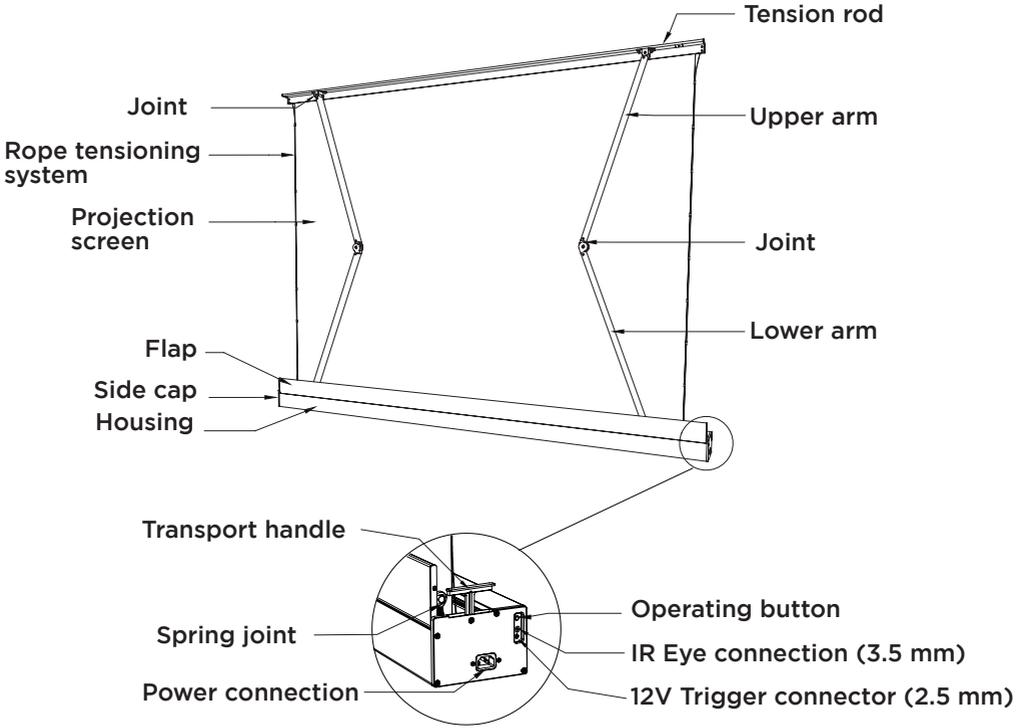
This screen surface material is particularly sensitive to contact with hands or greasy moist objects. This is due to the surface structure, which is what makes this high-contrast ultra-short distance screen work.

The fabric has a noticeable 3D surface structure, which allows the focused reflection of the projection light exclusively from a steep angle from below (UST projector position) to the viewer's sitting position (eye line).

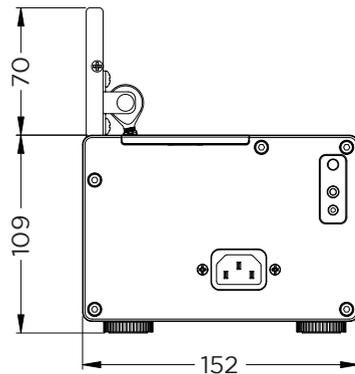
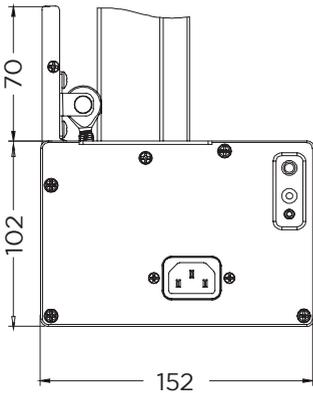
- The screen should be retracted into the housing after each use to ensure a long service life.
- Stains from insects or other (organic) substances may be difficult or impossible to remove.
- Do not use a cloth to clean the screen!
- Do not rub the screen with your hands or fingers!
- Use only the fine hair brush provided to clean the screen only horizontally along the surface structure with light strokes to remove any fine dust or particles.
- If there are particles on the screen that do not interfere with the projection image, ignore them. If particles are found to interfere with the projection and cannot be removed by brushing gently and horizontally, use a tesa® strip and remove the particles with it.
- Prevent opening and closing the screen multiple times in a short period. This will activate the heat protection of the motor and deactivates the screen completely. Only after a rest period of 20-30 minutes will the screen be able to be operated.



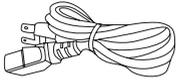
# PRODUCT OVERVIEW



## Side View



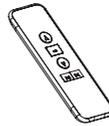
## IN THE BOX



1x Power cable



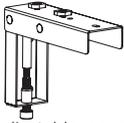
1x Infrared remote control (IR)



1x Radio remote control (RF)



1x Trigger cable



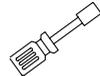
2x Adjustable mounting bracket with mounting plate



1x Infrared (IR) eye



1x Allen key



1x Socket wrench



2x M5 Nylon nut



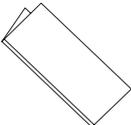
1x Cleaning brush for projection screen surface



10x 5 x 40 mm pan head screw



10x Plastic dowel screw



1x Instruction manual

## TECHNICAL DATA

Voltage: 230 V, 50 Hz

Consumption: 140 W (MAX)  
0,4 W (standby)

Control: Infrared remote control 3 V / 2 x CR2032  
Radio remote control 3 V / 2 x CR2032 / frequency  
868 MHz / Transmitting power: max. 10 mW / 15 m range

Temperature: In operation 16°C to 30°C  
During storage 10°C to 30°C (Short-term under- or over-temperature is possible, with subsequent acclimatisation of 24 hours before renewed use)

## INSTALLATION NOTES

Install the screen in a position that is clearly visible to all viewers. The optimal installation height corresponds to the position of the viewers when the screen is extended: eye level = lower third of the screen surface. Install the screen in a straight and level position, otherwise there is a risk of the screen fabric being wound up and unwound crookedly. The screen may only be installed in such a way that the fabric extends upwards! Use suitable dowels and screws for the mounting surface (if necessary, obtain suitable mounting material). With this screen, you have the ability to choose between different mounting options.

**BEFORE INSTALLING**, pay attention to where your ultra-short-throw projector and where the image will appear on your wall to adjust the correct position of the screen. It is advisable to test the projector before and adjust it to the desired image size (100" to 120"). With increasing size, the image moves upwards!

The distance between the projector and the wall surface on which you cast the test image is then exactly the same as the distance from the projector to the screen surface. The height of the image must also be taken into account exactly. Now measure the dimensions of your screen and calculate the planned position of the screen on your wall or wall surface. Position the screen on your wall or the back of your furniture so that it fits your projection image.

**Attention:** Attachment to a furniture back panel can only be done safely if the furniture has sufficient material thickness and the areas on which the brackets are to be mounted are sufficiently solid. 4 screws per bracket must be used to ensure a stable and permanently safe installation!

If you are unsure, ask at the specialist shop where you bought your furniture or, if in doubt, only use the anchor bolts and dowels to attach the wall with dowels and screws that are suitable for your specific load-bearing structure. The enclosed assembly materials are exclusively suitable for mounting in solid load-bearing structures (concrete or solid stone). You will find help in building supply stores or from trained installers.

## MOUNTING ON THE WALL OR ON A FURNITURE BACK PANEL

Mark an „installation line“ at the height where the screen is to be positioned later. The „installation line“ corresponds to the lower edge of the screen housing.

Mark the centre of the screen on the installation line (Fig.1). The distance of the two mounting brackets (centre to centre of the brackets!) varies depending on the size of the screen and is listed in the table below. Accordingly, the two brackets are located with half the distance to the left and right of the centre mark of the screen respectively. Mark this exactly on the installation line.

Size (inch)	92" (16:9)	100" (16:9)	110" (16:9)	120" (16:9)
Distance A (mm)	1.630	1.810	1.910	2.130

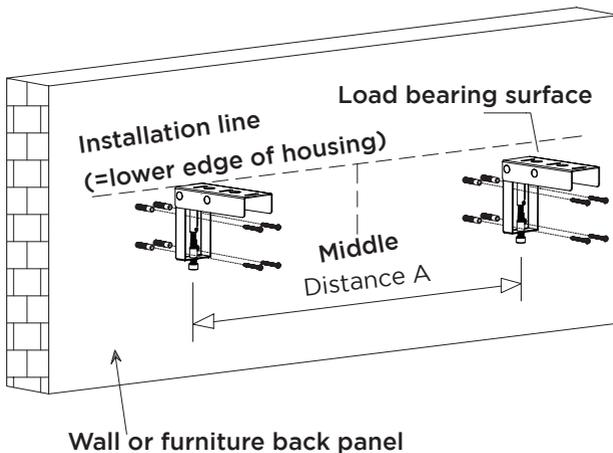


Fig. 1

**Attention:** Please note the 2 possible installation methods (Fig.2)! Depending on the method used, align the mounting brackets accordingly on the installation line in such a way that the surface of the bracket on which the screen is placed is the same as the installation line! Align the brackets with the installation line and mark the 4 drill holes per bracket on your wall.

Attach the mounting brackets to your solid concrete or solid stone wall with the 4 screws (5x40 mm) and 4 dowels each (Fig. 1) For other load-bearing structures, obtain suitable mounting accessories! If you are unsure, ask a specialist dealer about the correct and safe attachment to your supporting structure (e.g. wood, plasterboard, hollow wall etc.) or have the installation work carried out by a specialist installer!

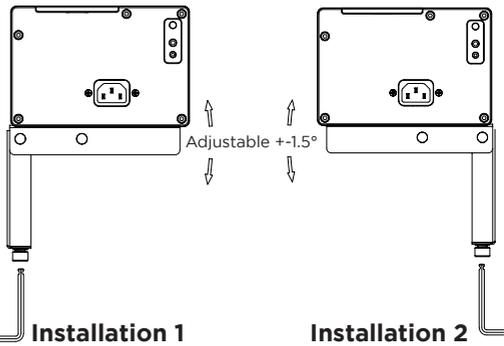


Fig. 2

**INSTALLATION OF THE SCREEN**

For installation methods 1 and 2, With 2 people, carefully place the screen onto the mounting brackets so that the power supply points to the left side. Lower the screen slowly and check the stability of the mounting brackets on your wall. There are 2 grooves in the bottom of the screen housing, these must be aligned with the nuts provided on the mounting brackets. Turn the nuts 90° with a suitable screwdriver to tighten and prevent the screen from falling down. (Fig. 2)

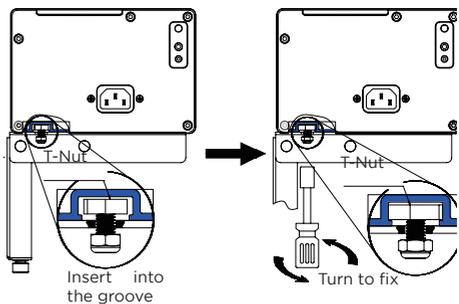


Fig. 3

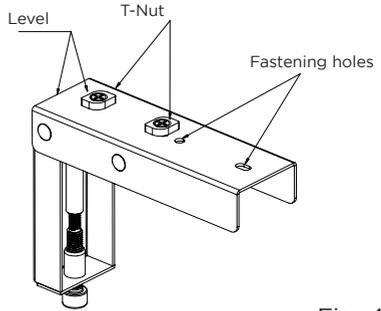


Fig. 4

## SETTING UP THE SCREEN WITHOUT BRACKETS

You can also place the screen free-standing on the floor or on furniture. Carefully put the screen down with the help of the transport handles on the side.

There are 4 feet on the underside of the screen. Align the screen to be level in all directions using the adjustable feet. The picture should always be aligned first using the setting options of your projector.

If necessary, correct the image alignment using the adjustable feet of the screen. All 4 adjustable feet must always be in contact with the floor.

**Note:** If you do not need the adjustable feet for reasons of space in your installation, you can remove them completely from the housing. Make sure that the screen is always level and rests on the outer and central support points.

Now that the screen is in its final place on the brackets, connect the power supply to the screen and extend completely. Now check the angle between the screen and your wall and use the Allen key to adjust the adjustment screws on the two L-brackets until the fabric is perfectly straight and parallel to the projection. You can adjust the brackets up to +/- 1.5° (fig.2).

This completes the basic installation of your screen. Finally check again that all the parts are tightened firmly (hand-tight, no cordless screwdrivers!) and that the screen is securely in place and that the brackets are holding tightly to your supporting structure.

## OPERATION

This screen has 4 control options:

1. Housing push-button, manual switching cycle.
2. Trigger control
3. Radio remote control
4. Infrared remote control

### CONTROL VIA THE HOUSING PUSH BUTTONS WITH MANUAL SWITCHING CYCLE

The manual cycle button is located on the end cover of the power supply side of the housing. Pressing the button will raise, stop, lower and stop. One button press for each function in an endless loop.

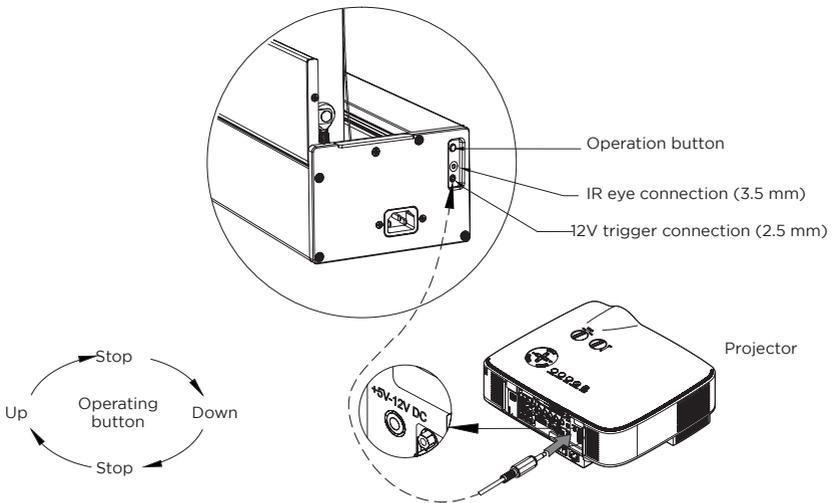


Fig. 4

## **CONTROL VIA THE TRIGGER**

The built-in trigger function controls the screen depending on the power status of components used with it. Connect the enclosed USB jack trigger cable to the trigger-out port of your screen.

You can connect the projection screen to a USB output of your projector, provided that these outputs are switched off in standby. (Alternatively, you can use any other device with a USB output, as long as it is switched on and off in parallel with the projection.)

Alternatively, you can purchase an optional wireless trigger or a jack trigger cable from celexon.

Optional jack trigger cable: Only possible if your projector is equipped with a Trigger Out connector. The trigger function must be activated in the projector's menu and the projector should comply with the trigger standards of 5-12V DC and provide a complete shutdown of the voltage in standby.

Your screen will now automatically raise or lower according to the switching status of your projector.

Please note: There are devices which do not stop the current at the trigger or USB outputs in standby, the trigger function may not work in these cases.

## **CONTROL VIA THE REMOTE CONTROLS**

The screen is supplied with one infrared and one radio remote control. Make sure that any protective film has been removed from all transmitter and receiver devices, the remote controls are charged (or batteries are inserted) and the screen is connected to the power source.

## **USE OF THE RADIO REMOTE CONTROL (RF)**

The use of a radio remote control is always recommended if there is a large distance between the remote control and the screen, or objects obstruct the line of sight between the remote control and the screen. The radio remote control is already paired and can be used straight away.

With the radio remote control, the screen can also be reliably controlled if it is installed in a piece of furniture and a clear view of the infra-red eye is not possible or desired.

**Please note:** The radio remote control can also control units through walls (i.e. from other rooms) but you will not have a view of the screen to control the extension or retraction. You should always make sure you can see the screen when it is being operated (i.e. when it is extending or retracting) to avoid possible malfunction or injury to others.

**Open:** The flap opens and the screen moves out upwards.

**Stop:** The flap or fabric movement stops.

**Down:** The fabric retracts downwards and the flap closes.

**Up (fine):** The fabric moves minimally upwards.

**Down (fine):** The fabric moves minimally downwards.

(The fine settings are usually used for fine adjustment of the upper end position).

## **USE OF THE INFRARED REMOTE CONTROL (IR)**

The use of an IR remote control is always recommended if there is a short to medium distance between the remote control and the screen. The IR remote control can only be used when the IR eye supplied is within the range of vision of the remote control.

You can use the IR remote control to control your projection screen when the IR eye is installed on the left side of the housing. The infrared control can also enable simple automation via e.g. Logitech™ Harmony™ for example.

**Open:** The flap opens and the screen moves out upwards.

**Stop:** The flap or fabric movement stops.

**Down:** The fabric retracts downwards and the flap closes.

**Up (fine):** The fabric moves minimally upwards.

**Down (fine):** The fabric moves minimally downwards.

(The fine settings are usually used for fine adjustment of the upper end position).

## CODE LINKING/DELETING THE RADIO REMOTE CONTROL

The code pairing of the radio remote control has already been successfully completed at the factory. (Info: The infrared remote control does not generally have to be paired.)

To disconnect the screen from the mains for 10 seconds and then reconnect it to the mains. Within the next 10 seconds, press the up and stop buttons on the radio remote control simultaneously. If the process was successful, the motor moves forward briefly and then back again. The code adjustment is now complete. The deletion process is carried out with the code adjustment. One status replaces the other with the same procedure.

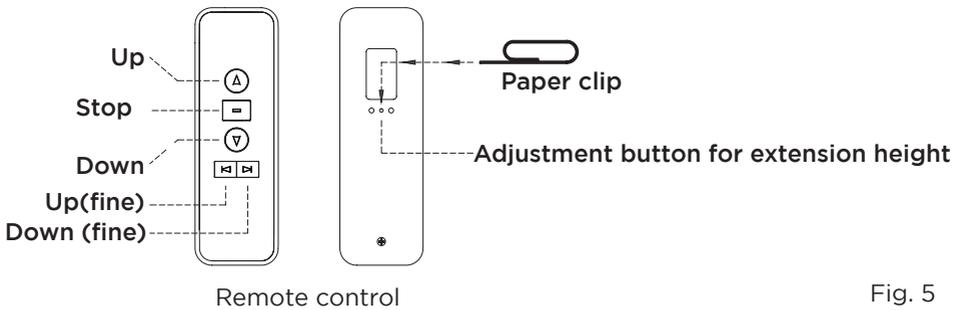


Fig. 5

## SETTING THE STOP POINT / HEIGHT OF THE BLACK DROP

**Caution:** The black drop must only be set with the remote control. The black drop can be easily adjusted after the projector and screen have been positioned so that the projected image is aligned with the screen. The adjustment is for fine tuning only and NOT to compensate for general height differences. This must already be adjusted when installing the units (e.g. height of the screen on your wall or back wall of furniture, height of your projector on the sideboard or in a lower drawer / pull-out).

The rope tensioning system is designed in such a way that a concave cut of the projection screen edges from the bottom to the top ensures that lateral tension is applied along the entire length of the fabric, and this is the only way

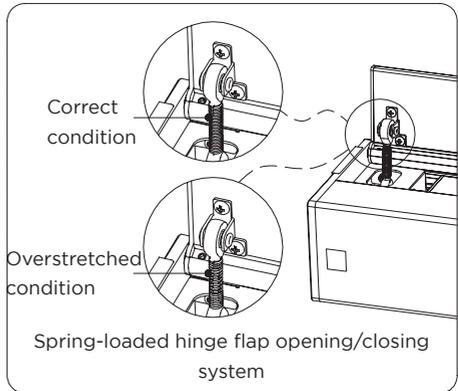
to ensure that the projection surface remains flat. If the fabric is shortened too much this tensioning effect is no longer present over all areas of the fabric and unevenness or waves can form in the fabric, which then interfere with the UST projection.

Defects resulting from changes to the factory-set fabric lengths are not covered by the warranty.

- Allow the screen to raise completely until it stops on its own.
- Using an open paper clip, press the position adjustment button on the back of the radio remote control (Fig. 5) until it emits a light. The screen is now in programming mode.
- Now press the up or down button (Fine) on the remote control to set the desired position.
- Then press the stop button on the remote control.
- Press the position adjustment button again with the paper clip. The screen will move up and down a little to confirm that the setting has been saved.
- The setting is complete and the screen will now stop exactly at the set position.
- The default black drop is set at 350 mm and should NOT be outside of 250 - 400 mm in order not to negatively influence the flatness.
- Contact celexon if you have any questions about this setting, before changing the factory default setting.

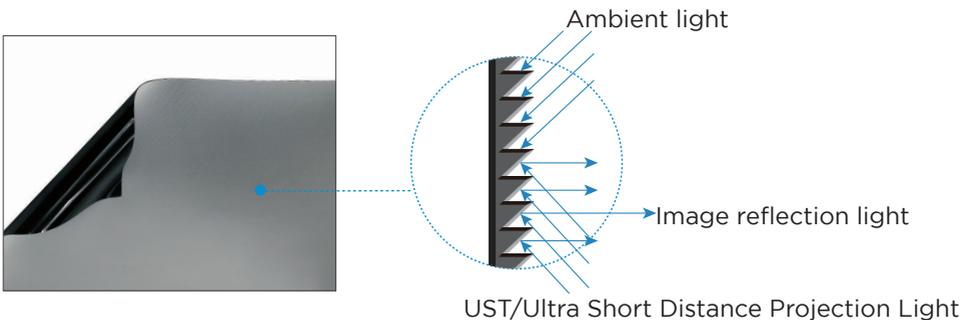
## ELECTRIC FLAP OPENING AND CLOSING MECHANISM

The screen is equipped with an electric flap. This is controlled with a spring hinge in order to prevent vulnerable jamming during closing. Should the spring be overstretched due to such an incident and the flap no longer closes fully or opens too far, contact celexon for instructions on how to replace the spring.



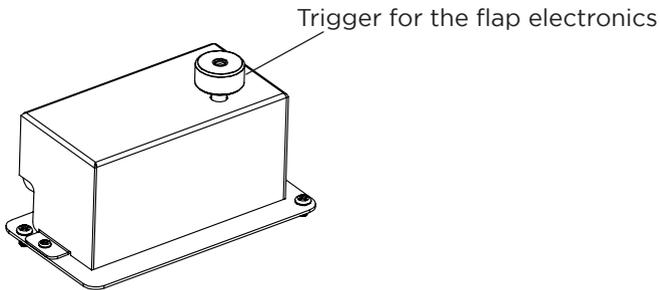
## PROBLEM SOLVING AND USEFUL HINTS

- The surface of the black lattice fabric has optical „lattice teeth“, which allow a targeted reflection of the light beam of the ultrashort distance projector in a targeted manner and form the image for the viewer. As shown in the attached schematic diagram: The screen absorbs the ambient light especially from above, the resistance against ambient light from the horizontal sides is weaker, please pay attention to the direction of the light beam when using the screen.



- The screen fabric is produced using a splicing method and the splice line has some curvature due to the upper and lower tension but this does not affect the projected image.

- Due to the special mechanics of this type of screen, it is possible that there is a minimal difference in height from the left to the right side. Correct this using your projector or the adjustable feet of the screen.
- If the flap does not close when the screen is retracted, raise the screen fabric again and turn the trigger for the flap electronics on the back a maximum of two turns anti-clockwise so that it can be triggered by the lowering screen.



### **Flatness of the fabric:**

- The black drop must be in the range of min. 250 mm - max. 400 mm. to maintain the flatness.
- Do not change the feed on the motor, as this will change the digital setting that controls the extension height and may permanently adjust or damage your product.
- Do not touch the screen fabric with your fingers. The material is very sensitive and because of its surface coating can only be cleaned to a limited extent. This cannot be avoided due to the screen technology.
- The fabric, like all thermoplastics, is naturally subject to material deformation with decreasing or increasing room temperature. Slow temperature changes that affect the product as a whole, as usually occur indoors, are harmless. (e.g. as they occur with the change of seasons). Make absolutely sure that the product and especially the extended fabric, are not subject to different temperatures at different points. This uneven temperature effect would „strain“ the material, as colder areas deform differently than warmer areas, which would very likely result in your ultra-short distance projection showing distortions in the image. (e.g. sunlight, placed directly on a radiator, on air outlets or intakes of any air conditioners, other heat generating AV components such as AV receivers, game consoles or computers).

- Place the screen in the room in such a way that such temperature influences are not present. Even short temperature effects can lead to deformation of the fabric and may be irreversible.
- Position heat-radiating devices in such a way that the air currents do not affect the screen.
- Always place (or store) the projection screen absolutely horizontally and level. Use a spirit level to check this. A crooked screen can have a negative effect on the mechanics, flatness and lifespan.
- Always make sure that the extension area and the area of the flap opening remain free of obstacles.
- Do not place any objects on the flap or near the opening area.
- Prevent any liquids near the screen! Ingress of liquids (e.g. watering flowers, flower vases, etc.) will have a negative effect on your product and may destroy the electronics of the product!
- Only extend the screen if it is standing completely on a solid surface or if it is properly screwed to the enclosed mounting brackets.
- If you want to place the screen and your projector on a sideboard that hangs freely on the wall, you must make absolutely sure that the wall is adequate for the additional load!

## INFORMATION ON EU CONFORMITY

**Manufacturer:** celexon Europe GmbH  
**Address:** Gutenbergstraße 2, 48282 Emsdetten, DE  
**Product name:** celexon UST High Contrast Floor Rising screen - HomeCinema Plus

Hereby celexon Europe GmbH declares that the celexon CLR HomeCinema UST Electric Floor High Contrast Screen complies with the directive 2014/53/ EU. The EU declaration of conformity can be downloaded from the following address: [www.celexon.de/zertifikate](http://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 UST High Contrast Floor Rising screen - HomeCinema Plus

Hereby celexon Europe GmbH declares that the radio equipment type celexon CLR HomeCinema UST Electric Floor High Contrast Screen complies with the Radio Equipment Regulations 2017. The UK declaration of conformity can be downloaded from the following address: [www.celexon.de/zertifikate](http://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.