

SMARTCRYSTAL[™] PRO **BOOSTER**

QUICK START GUIDE



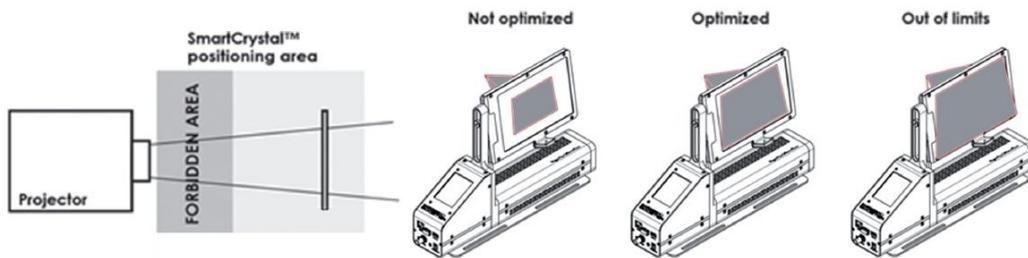
SmartCrystal™ Booster – Quick Start Guide

This section is independent of the rest of the manual. It is intended for advanced users who want to install the SmartCrystal Pro™ Booster quickly without reading all the information in the complete user-manual. For optimal use of the product, it is recommended to read the manual.

WARNING



Monitor the distance between the projector and the SmartCrystal™ as it is very important to preserve the LCD. The projected image must cover the LCD area as much as possible, to avoid heating only a small part of the LCD.



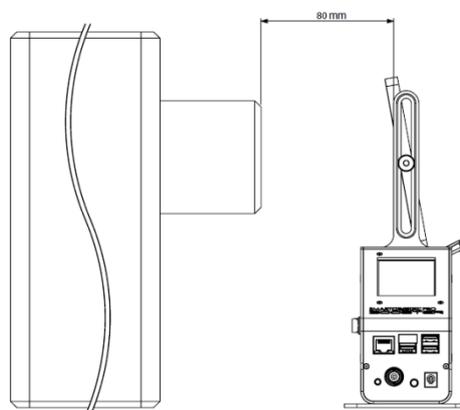
The image must cover as much as possible the LCD panel

In most of the configurations, the distance between the lens and the LCD should be over 80mm (4 inches)

LCD panel overheating is not covered under warranty

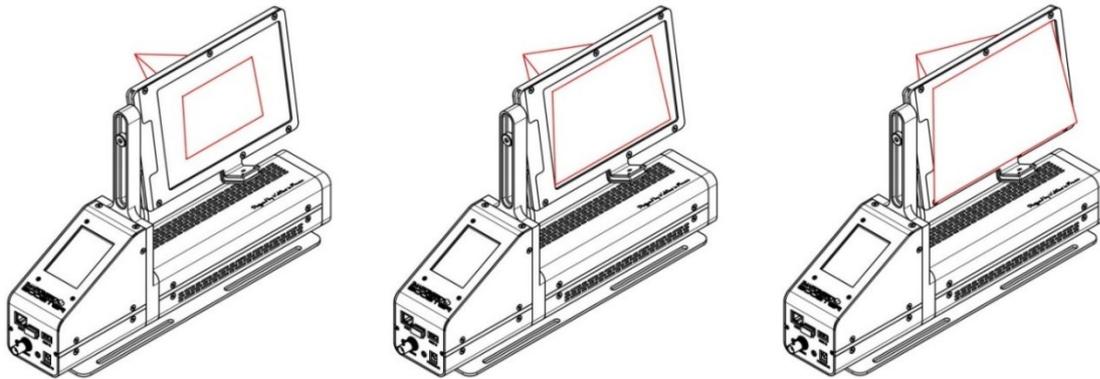
Important recommendations for the installation of the SmartCrystal™ Pro Booster

The distance between the lens of the projector and SmartCrystal Pro™ Booster polarizer **must be at least 8 cm.**



Minimum distance of the polarizer

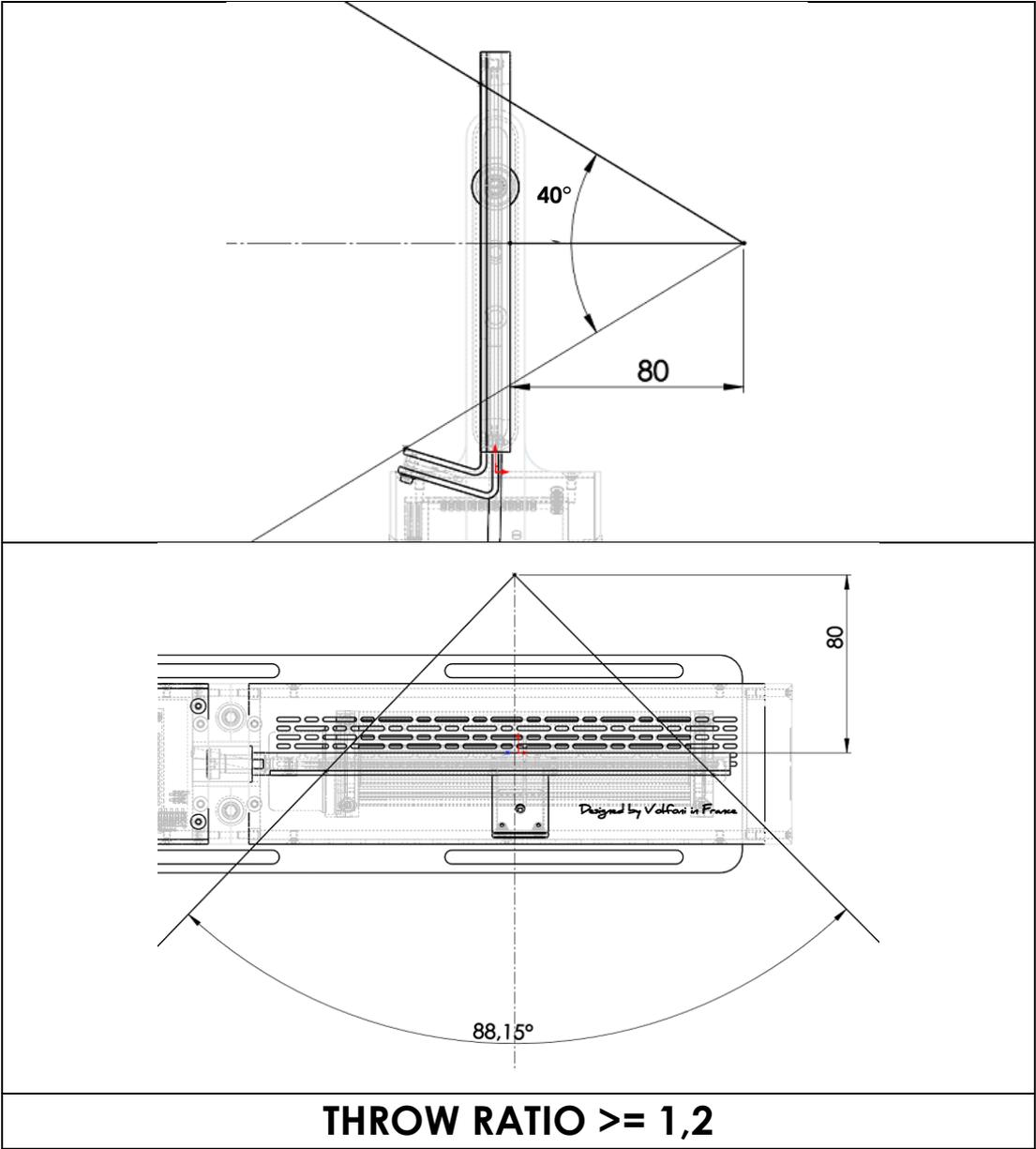
The SmartCrystal Pro™ Booster must be positioned such that light from the projector that passes through the polarizer fills the largest possible width of the filter. (See figure below)



The position of the frame is flexible. To raise / lower or tilt the frame, unscrew the frame fixing screw using the supplied Allen wrench. Move the frame to the desired position and re-tighten the screws.

Projection configuration: « Throw Ratio » (TR)

Before making any installation, it is important to ensure that the device is compatible with the configuration required. The "Throw Ratio" ("Throw Ratio ", TR) must satisfy the following requirements:



Fixing & Position

The SmartCrystal™ Pro Booster shall be placed on a stable surface and fixed with 4 screws.

The SmartCrystal™ Pro Booster should be placed in front of the projector lens. There is a "Projector Side" label printed on the product that will indicate the correct direction.

The polarizer of the window should be approximately perpendicular to the axis of the luminous flux.

It is possible to fix the SmartCrystal Pro™ Booster to the ceiling. In this case it is necessary to reverse the direction of the frame on its support (see "7.4 Installing in Ceiling" section).

Connections



Once started, no cable should be connected or disconnected from SmartCrystal Pro™ Booster.

Before making any changes of the wiring configuration, it is essential to wait for a complete shutdown of the SmartCrystal Pro™ Booster using the ON / OFF button and checking the LCD.

The first SmartCrystal Booster Pro™ are delivered with a WiFi dongle connected to one of its USB ports. The new devices have this WiFi dongle directly integrated in the electronic board.

For the proper functioning of the product, it is essential to never disconnect the WiFi dongle.

Connect the sync cable (BNC-BNC, BNC-3 pin MiniDIN) between the 3D sync output on the projector and the 3D Sync Connector on the SmartCrystal™ Pro Booster.

Plug-in the power cable and the Ethernet cable if necessary to SmartCrystal™ Pro Booster.

Turn the switch to ON.

Starting

After switching on the product an initialization phase of SmartCrystal™ Pro Booster will commence which may last a few seconds. Thereafter, the system will recognize the 3D synchronization and start operation automatically. The SmartCrystal Pro™ Booster settings can be optimized directly on the touch screen. By briefly pressing one of the parameters, it is possible to access the setup window for the given parameter.

The software interface is also accessible from a remote computer via an Ethernet connection and/or a smartphone connected via WIFI to the SmartCrystal™ Pro Booster (see "9. USER INTERFACE").

Enjoy your brilliant 3D image!

**Come visit
www.volfoni.com**

SMARTCRYSTAL[™] PRO BOOSTER

USER GUIDE



Scp_Booster_Quick_Start_And_User_Guide-EN-A00

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1. PRODUCT OVERVIEW

The SmartCrystal™ Pro Booster is another innovation in passive 3D technology by Volfoni. It is a polarization modulator that is placed directly in front of the lens of a 3D projector so as to generate 3D stereoscopic images on a compatible 3D screen when using ultra-light passive glasses. The SmartCrystal™ Pro Booster is suitable for professionals and the general public. It represents the ideal solution for 3D presentations, shows, conferences, lectures, as well as for simulations and high-quality visualizations.

The new polarizing technology « PiCell », allows rapid set up and optimal optical performance, together with a clear and bright 3D image.

The SmartCrystal™ Pro Booster can be connected directly to any type of 3D input and is compatible for projectors with power up to 32,000 lumens.

2. REQUIREMENTS

Your polarization modulator SmartCrystal™ Pro Booster, is part of a chain for the projection of 3D content. It is necessary to also have a 3D source (3D Player), 3D projector (3D Ready™), 3D content, a silver screen and passive glasses with circular polarization.

2.1. Silver Screen

In order to view a 3D image of the highest quality, a polarization preserving silver screen specifically designed for 3D projection is required. If your screen is not designed for 3D, you may experience an uncomfortable and blurry 3D image possessing a high level of ghosting (crosstalk).

2.2. Projector

Most projectors are compatible with the SmartCrystal™ Pro Booster.

DLP projectors (Digital Light Processor) are particularly suitable for 3D projections together with SmartCrystal™ Pro Booster. The projection technologies "LCD™" (Liquid Crystal Display) and "LCoS™" (Liquid Crystal on Silicon) such as JVC's D-ILA™ and Sony's SXRD™ generate pre-polarized light that may not be compatible with the active polarization performed by the SmartCrystal™ Pro Booster. However, the SmartCrystal™ Pro Booster may be adapted to JVC's D-ILA™, under certain conditions. Please check with your dealer.

If your 3D projector is not compatible with the SmartCrystal™ Pro Booster, we recommend using a classic white screen together with active shutter glasses, for example EDGE™ RF from Volfoni. For more information on these products, please visit our website: www.volfoni.com.

2.3. 3D Glasses

The SmartCrystal™ Pro Booster is compatible with all passive 3D glasses possessing circular polarization. Discover our passive glasses on www.volfoni.com.

2.4. 3D Source and 3D Content

For a 3D projection, it is necessary to have a media-player in order to stream 3D stereoscopic images and 3D content (for example from a 3D BluRay™ or 3D computer).

3. MAIN CHARACTERISTICS OF SMARTCRYSTAL™ PRO BOOSTER

QUALITY

- New technology « PiCell »
- Bright and crisp images (LEF 15,5 %)
- Works with an image frequency up to 400Hz
- Downloadable software for optimal performance

EFFICIENCY

- Quick installation with all types of 3D projectors (only one projector required)
- Connecting to a computer using an Ethernet cable or WIFI
- Monitoring the polarizer's temperature
- Automatic adjustment of the fan speed according to the polarizer's temperature
- Management of alerts in case of problems
- Parameter logging for troubleshooting (frequency, temperature, polarity, etc)
- Conforms with CE, FCC, PSE

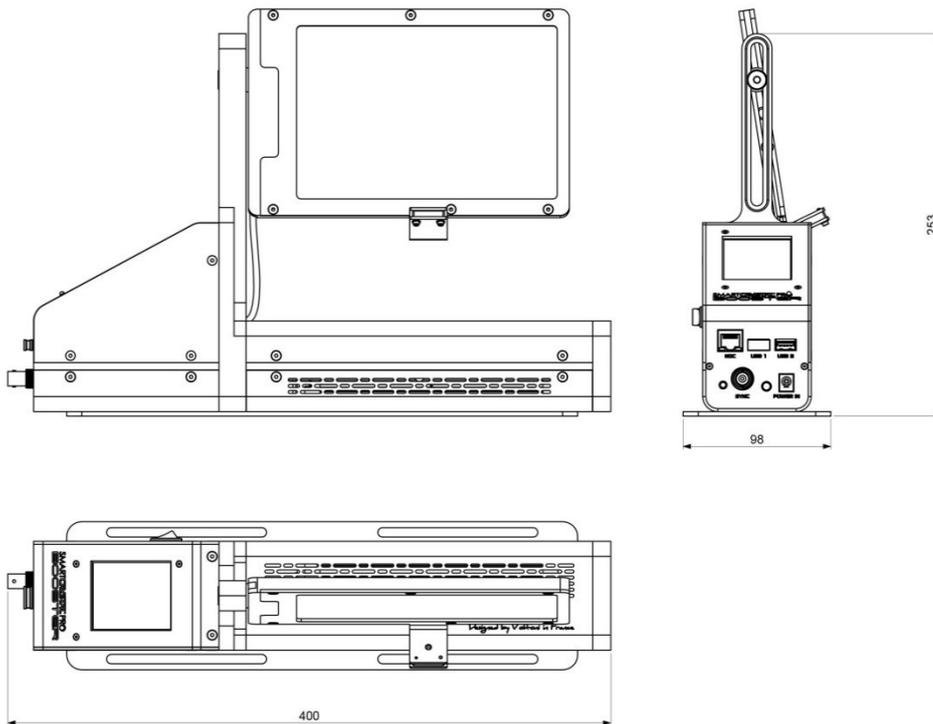
COMFORT

- Graphic display
- Ceiling mounting
- Ghosting less than 1.4%
- Used together with ultra-light 3D polarized glasses
- Compatible with Volfoni's Premium passive 3D glasses (ref VPPG-01000) and many others

Important: Do not use the 3D glasses as sunglasses.

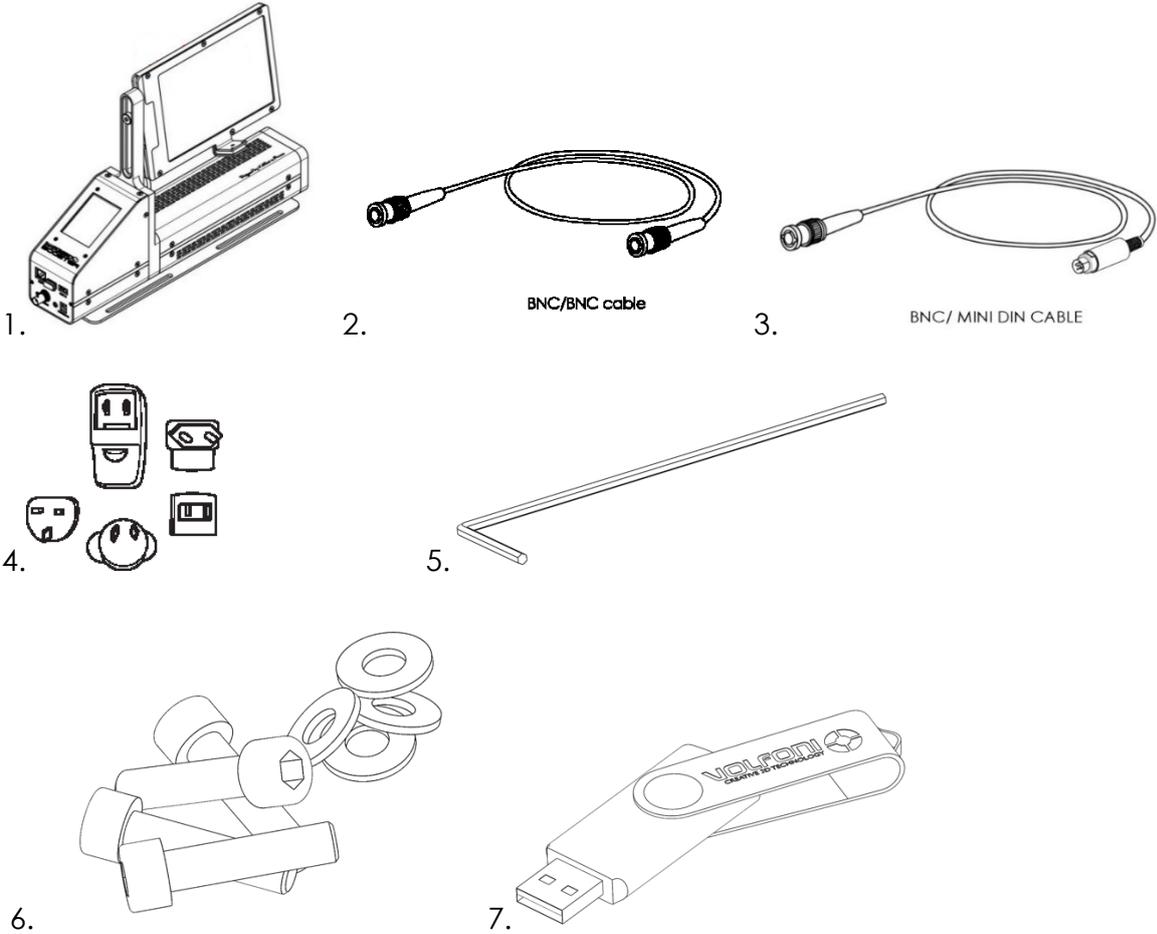
4. SPECIFICATIONS

- Window size : 171 x 116 mm
- Maximum projector power : 32,000 lumens
- Power supply : 110 / 240V - 50 / 60Hz
- Power consumption : 15W
- Maximum power of the projector lamp : 7kW
- Maximum switching speed : 400Hz
- Optical light efficiency (static LEF) : 15,5 %
- Optical light efficiency (dynamic LEF) : 14,5%
- Upgradeable software for optimal 3D quality
- Operating Temperature : 0°C to +40°C
- Storage Temperature : -15°C to +55°C
- Dimensions: Min 420x260x100 mm / Max 420x320x100 mm (L x W x H)
- Weight : 6Kg
- Lightweight aluminium black
- Mounting Bracket
- Certifications : CE, FCC, PSE



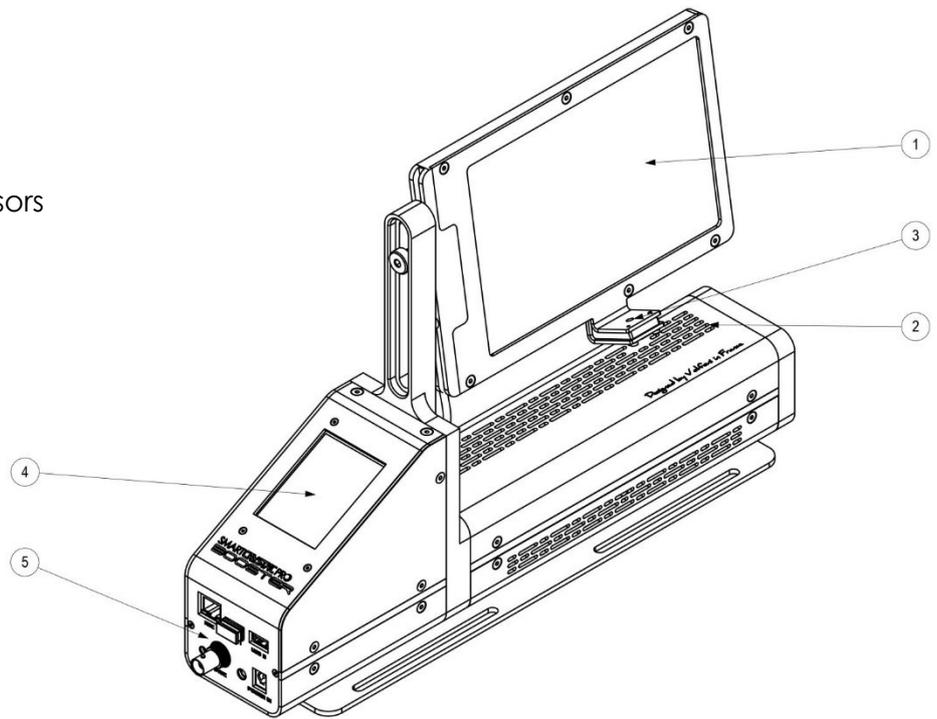
5. PACKAGE CONTENT OF THE SMARTCRYSTAL™ PRO BOOSTER

- 1. SmartCrystal™ Pro Booster
- 2. BNC Sync Cable
- 3. VESA Sync Cable
- 4. Power supply (110 / 240V) Adapter + EUR / US / UK / AUS
- 5. BTR4 Allen key
- 6. USB stick with User manual

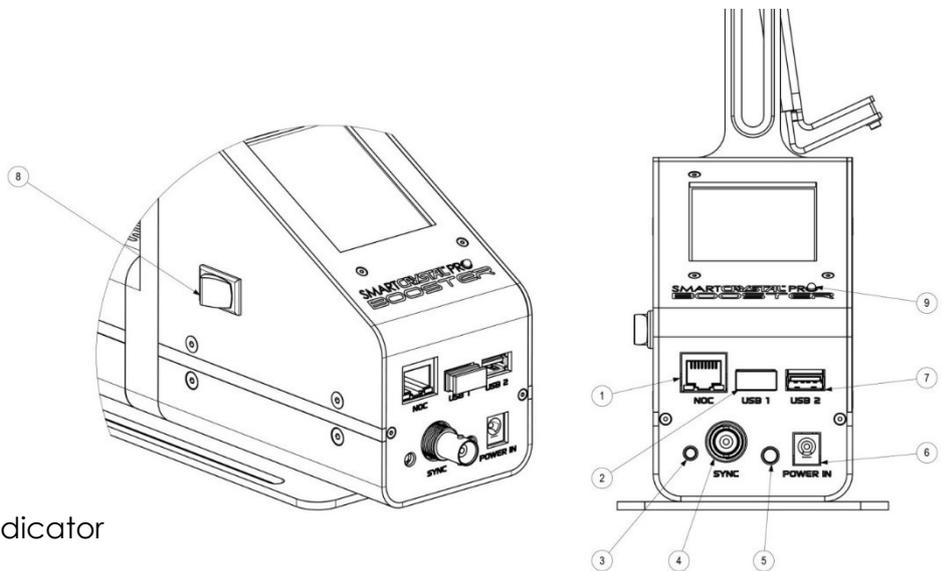


6. PRESENTATIONS AND CONNECTORS FOR SMARTCRYSTAL™ PRO BOOSTER

1. Polarizer
2. Fan
3. Temperature Sensors
4. Graphic display
5. Connectors



1. Ethernet connector
2. WIFI Dongle
3. Reset Button
4. BNC 3D Sync
5. LED power indicator
6. Power Connector
7. USB port
8. ON / OFF switch
9. LED synchronization indicator



7. INSTALLATION

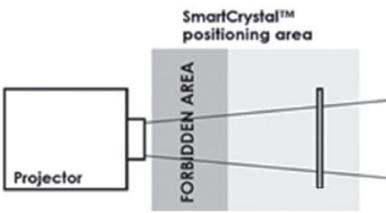
7.1. Important recommendations

Important recommendations for the installation of SmartCrystal™ Pro Booster

WARNING



Monitor the distance between the projector and the SmartCrystal™ as it is very important to preserve the LCD. The projected image must cover the LCD area as much as possible, to avoid heating only a small part of the LCD.

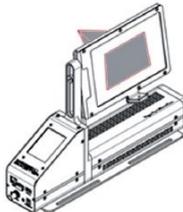


SmartCrystal™
positioning area

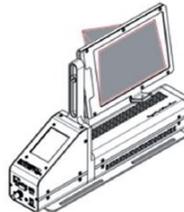
FORBIDDEN AREA

Projector

Not optimized



Optimized



Out of limits



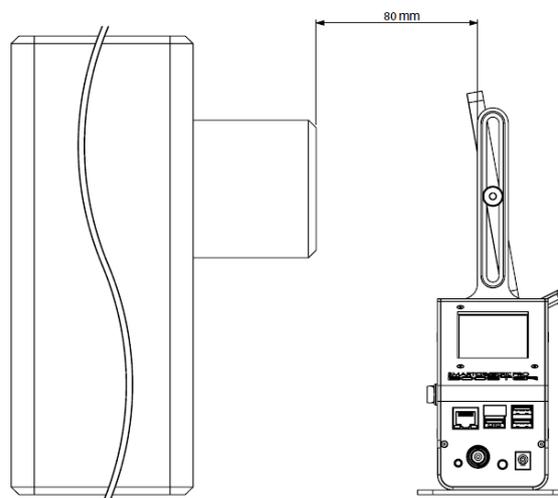
The image must cover as much as possible the LCD panel

In most of the configurations, the distance between the lens
and the LCD should be over 80mm (4 inches)

LCD panel overheating is not covered under warranty

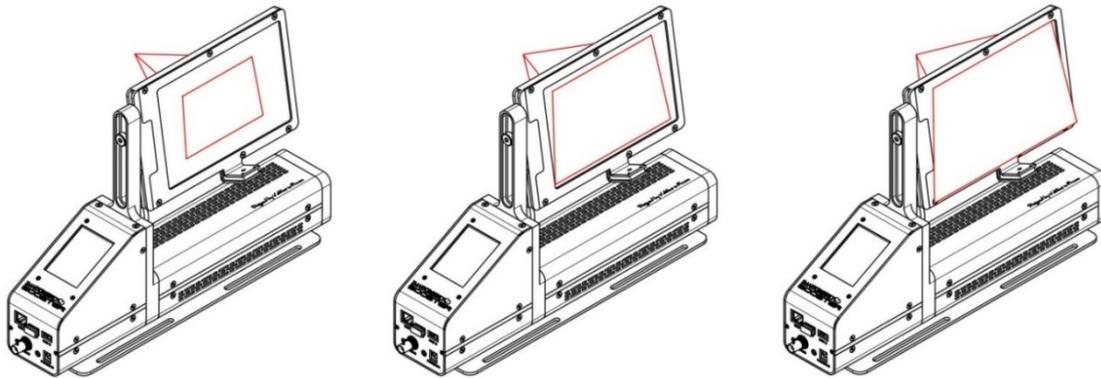
It is essential to comply with the following requirements to ensure the longevity of the SmartCrystal™ Pro Booster and obtain optimal 3D projection.

The distance between the lens of the projector and the SmartCrystal™ Pro Booster polarizer **must be at least 8 cm.**



Minimum distance of the polarizer

The SmartCrystal™ Pro Booster must be positioned such that light from the projector passing through the polarizer fills the largest possible width of the filter (see illustration below).

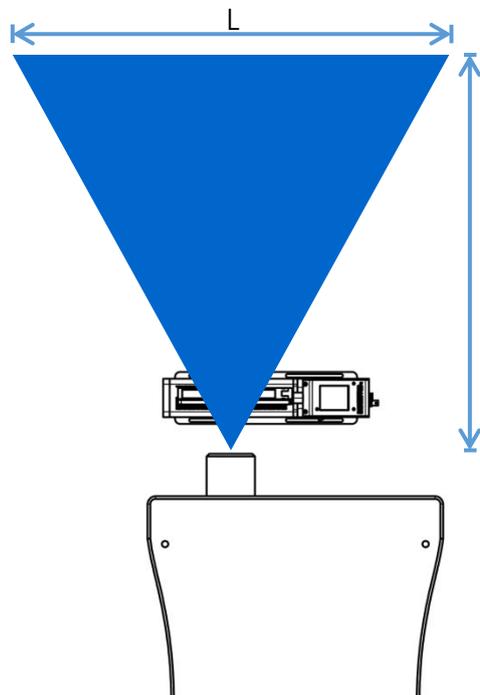


In a projection booth, the projection window should not depolarize the light.

The position of the frame is flexible. To raise / lower or tilt the frame, unscrew the frame fixing screw using the supplied Allen wrench. Move the frame to the desired position and re-tighten the screws.

7.2 Projection position: « Throw Ratio » (TR)

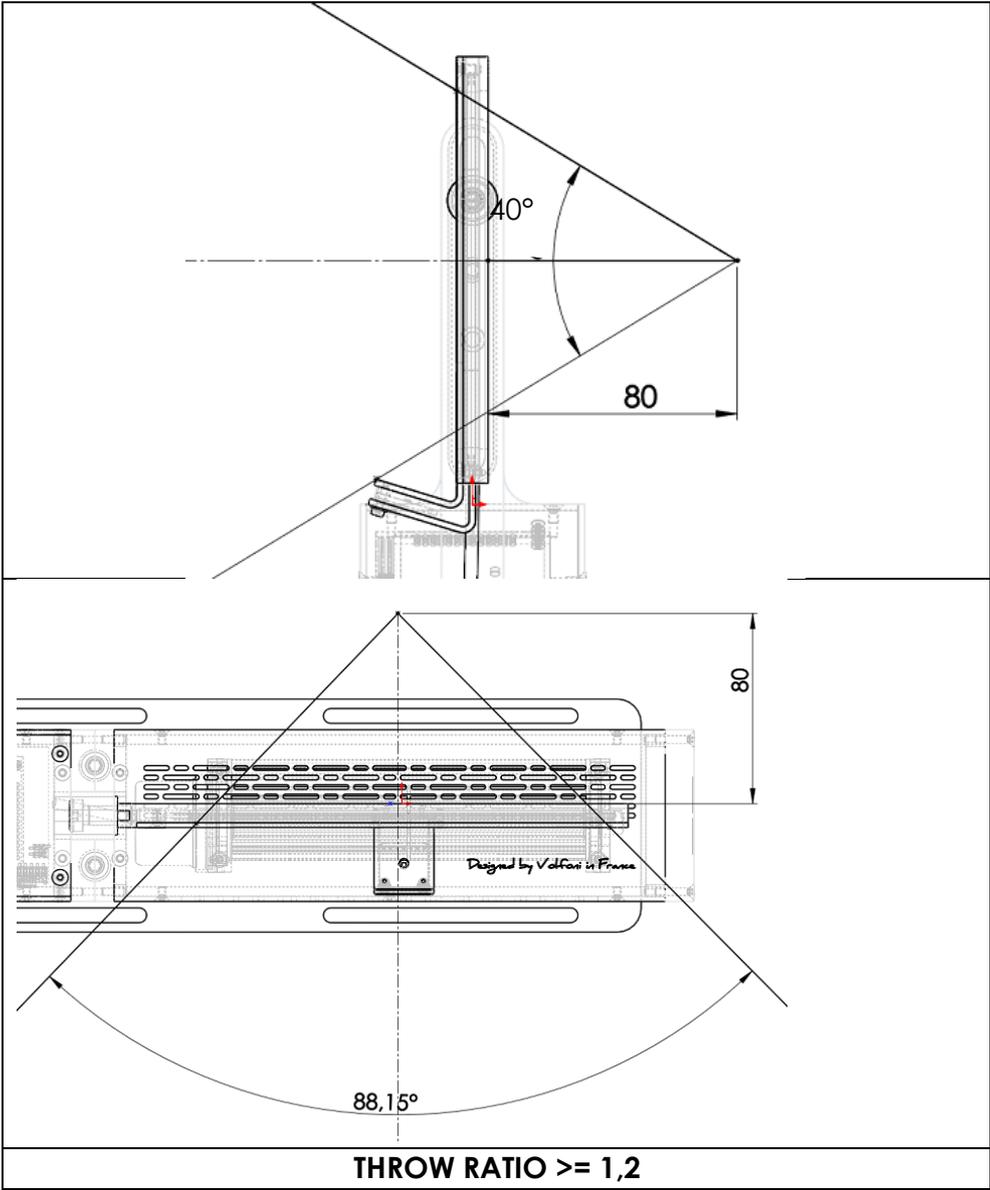
Before making any installation, it is important to ensure that the device is compatible with the configuration required. The "Throw Ratio" ("Throw Ratio", TR) must satisfy the following requirements:



Configuring of the projection position view in top

$$TR = (\text{distance between the projector and the polarizer, } l) / (\text{width of the screen, } L)$$

At this distance the throw ratio (TR) should meet the following criteria:

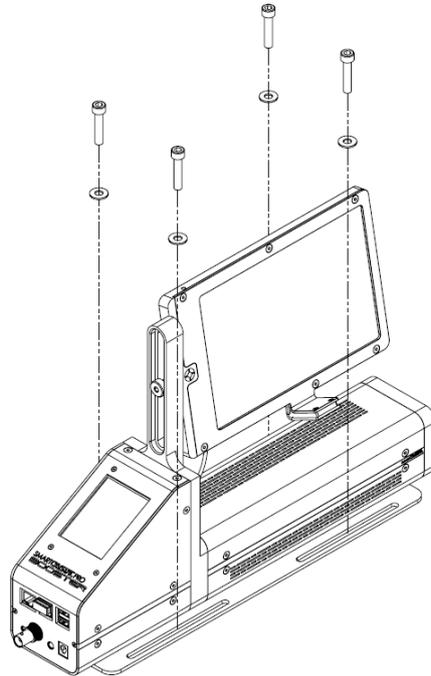


7.2. Projector Settings

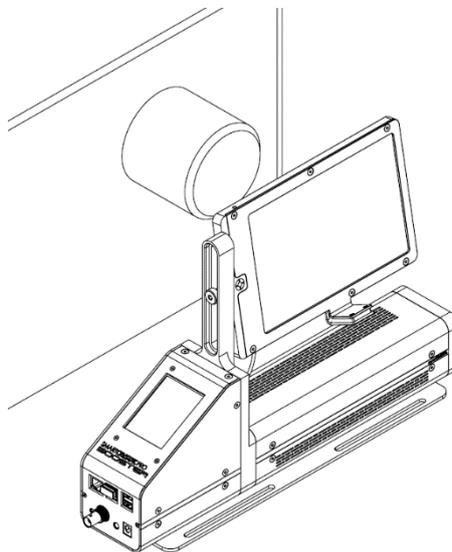
The "Dark Time" should be adjusted to its minimum.
The "delay" should be adjusted to 0 μs.

7.3. Fixing & Position

The SmartCrystal™ Pro Booster shall be placed on a stable surface and fixed with 4 screws:

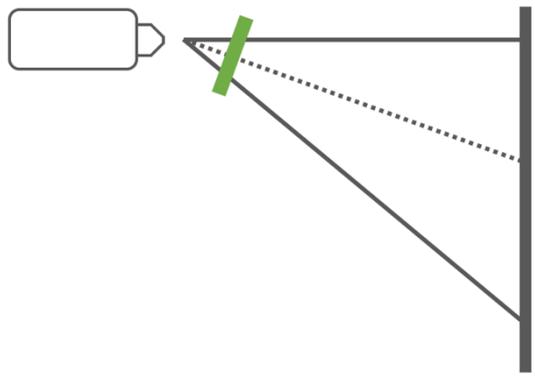
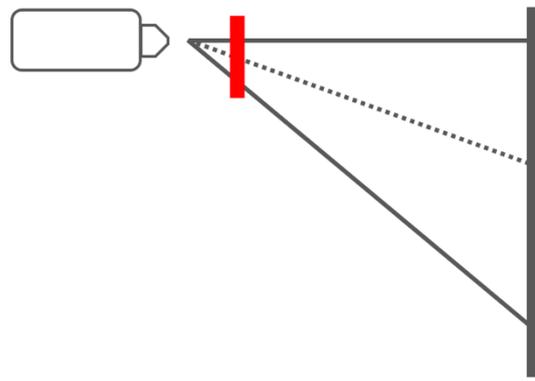
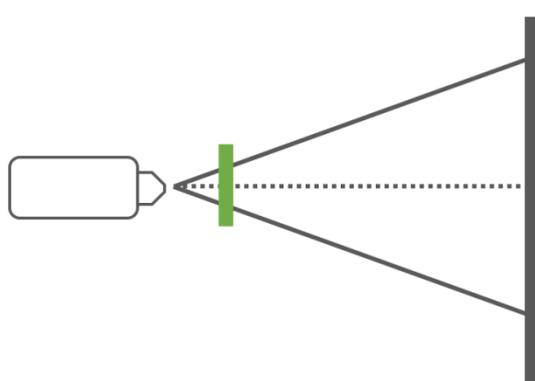
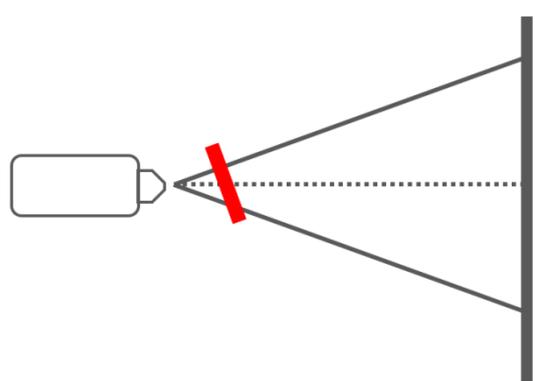
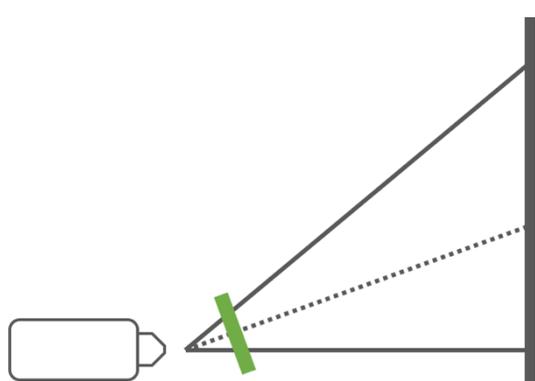
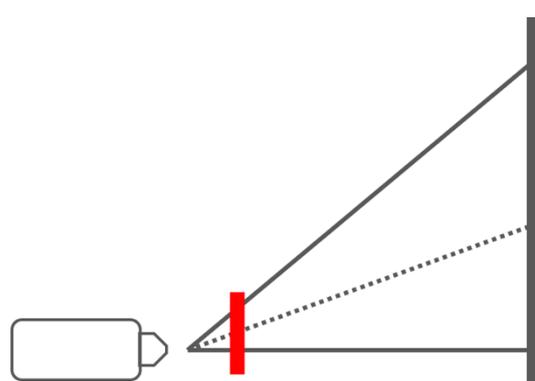


The SmartCrystal™ Pro Booster should be placed in front of the projector lens. There is a "Projector Side" printed on the product that will indicate the correct direction.



7.4. Positioning of the SmartCrystal™ Pro Booster

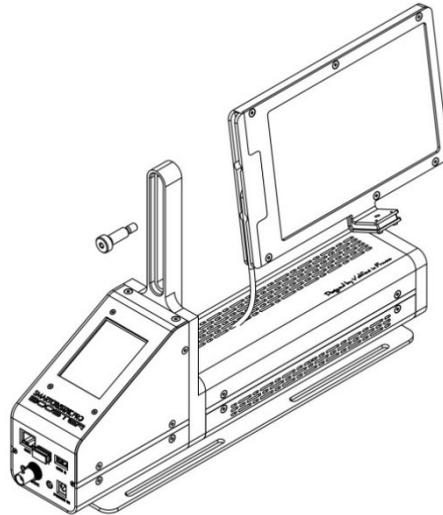
The polarizer of the window should be approximately perpendicular to the axis of the light beam. This is indicated in the following illustrations:

Correct LCP-panel position	Wrong LCD-panel position
<p data-bbox="183 403 391 436">Ceiling mount</p> 	
<p data-bbox="183 869 375 902">Tower mount</p> 	
<p data-bbox="183 1332 375 1366">Table mount</p> 	

7.5. Ceiling mounting

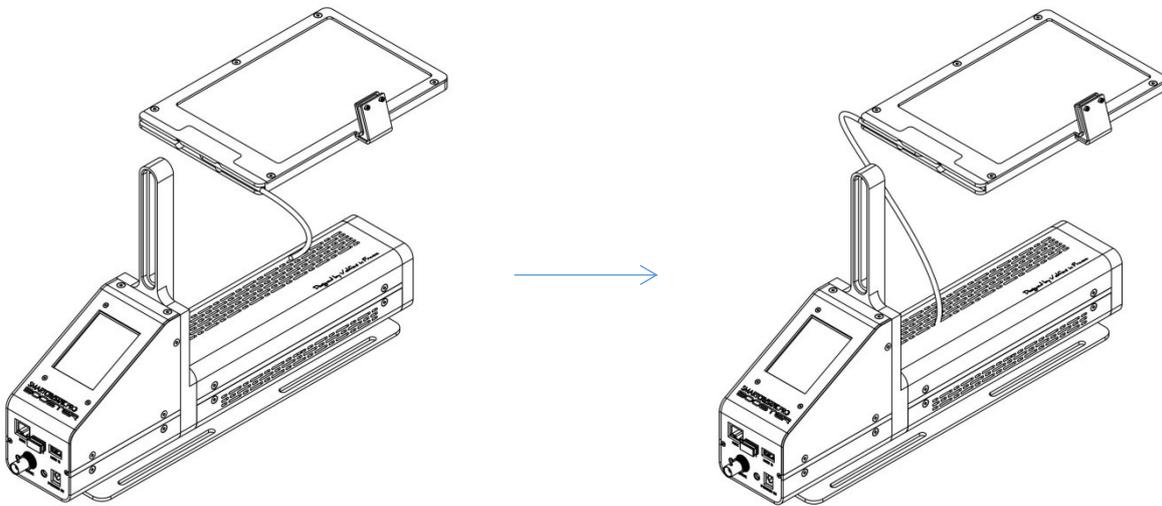
It is possible to fix the SmartCrystal™ Pro Booster to the ceiling.

In this case you must position the LCD frame upside down as explained below:

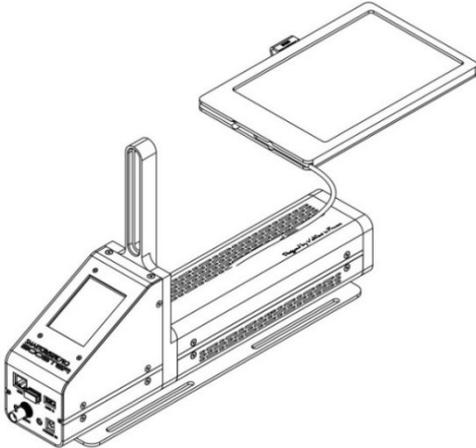


Completely unscrew the frame holding screw

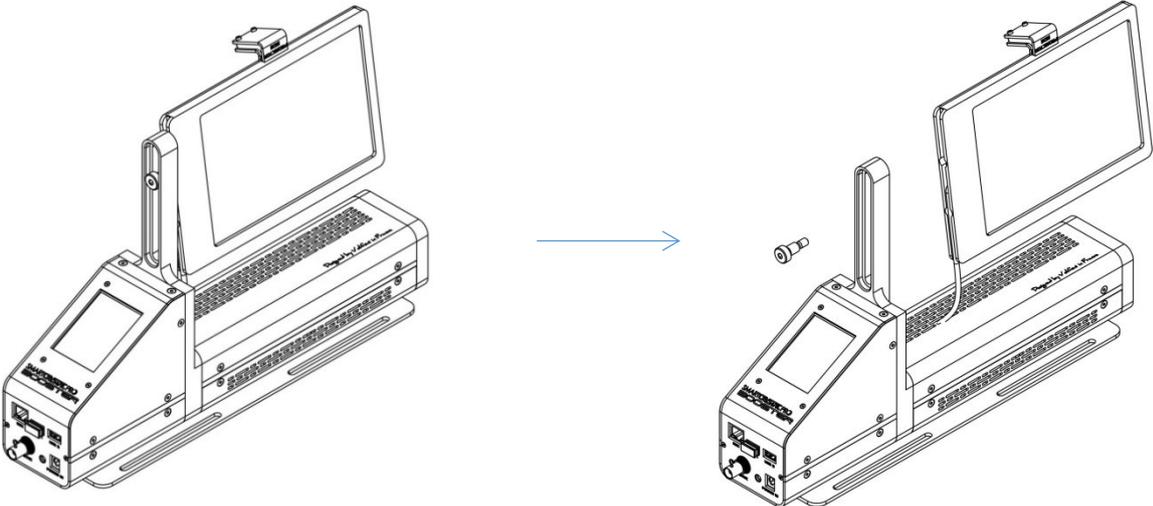
2. Remove the connecting cable from its holding track and re-position the cable to the other side of the track.



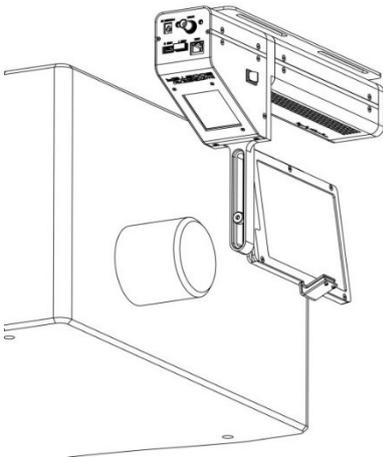
3. Turn the frame



4. Fix the frame with the holding screw.



The SmartCrystal™ Pro Booster is now ready to be mounted on the ceiling: the inscription "Projector Side" should face the projector, the temperature sensor should be at the bottom of the image.



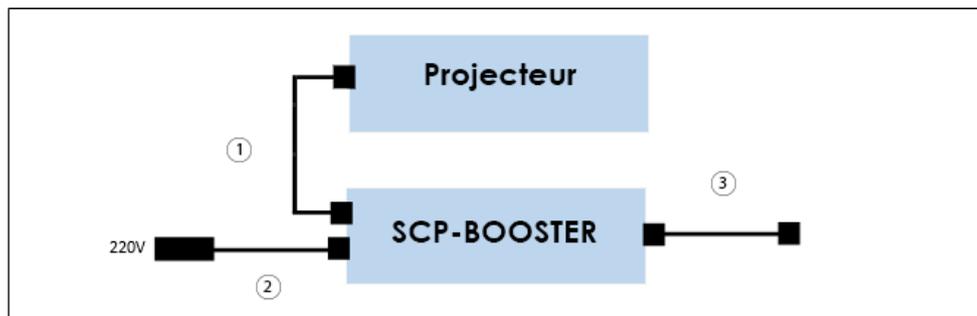
8. USE THE SMARTCRYSTAL™ PRO BOOSTER

8.1. Connections

For the installation it is necessary to use the external power cable supplied with the system.

- Once started, no cable should be connected or disconnected from SmartCrystal™ Pro Booster.
- Before making any change of the wiring configuration it is essential to wait for a complete shut-down of the SmartCrystal™ Pro Booster using the ON / OFF button and checking the LCD.
- The first SmartCrystal Booster Pro™ are delivered with a WiFi dongle connected to one of its USB ports. The new devices have this WiFi dongle directly integrated in the electronic board.
- For the proper functioning of this product, it is essential to never disconnect the WiFi dongle.
- Connect the sync cable (BNC - BNC, BNC - 3 pin Mini DIN) between the 3D sync output on the projector and the 3D Sync connector on the SmartCrystal™ Pro Booster.
- Plug-in the power cable and the Ethernet cable if necessary to the SmartCrystal™ Pro Booster.
- Turn the switch to ON

The connection of the system is shown in the following scheme:



1. 3D Sync Cable (BNC - BNC, BNC - 3 pin Mini DIN)
2. Power Cable
3. Ethernet Cable - Ethernet (if necessary)

8.2. Start-up

After switching the SmartCrystal™ Pro Booster ON an initialization phase commences which may last a few seconds. Thereafter, the following screen appears on the display:

The screenshot shows a multi-section display with the following content and annotations:

- Top-left:** Polarity :
Normal (Annotated with: 2. Setting polarity (left/right))
- Top-right:** 144 fps (Annotated with: 1. Frequency of the sync signal from the projector)
- Middle-left:** Delay Sync :
0 us (Annotated with: 4. Setting the Sync)
- Middle-right:** Temperature :
25.7 °C (Annotated with: 3. Current temperature of the polarizer)
- Below middle:** Fan :
AUTO 0% (Annotated with: 5. Fan mode & speed)
- Bottom section:** A green bar with "NORMAL", followed by "The IR sensor is working correctly", and system data: 192.168.2.123, 03-03-2016 12:23:12, Firmware: V00.02.02 (Annotated with: 6. System of data of the SMARTCRYSTAL™)

For modifying the polarity (left/right image inversion) of the polarizer, press the box "Polarity" and in the new window that appears, enter the polarity to apply. This may be used to correct (left/right) image inversion.

Polarity Control

Select the 3D polarity to apply

NORMAL

INVERTED

For modifying the duration of the Sync Delay, press the box "Delay Sync", set the new value. Confirm with "OK":

Modify Delay

Select the Synchronization
delay to apply :

Delay value (μ s) :

↓

↑

Save

Back

The display will go into sleep mode (black) after a period of inactivity of 60 seconds. To activate it again click with the pen on the screen.

9. USER INTERFACE

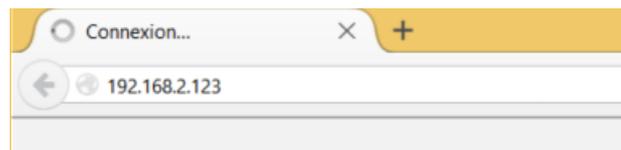
It is possible to check and modify the operating parameters of the SmartCrystal™ Pro Booster through its user interface.

- The software interface is accessible from several supports:
- The display on the SmartCrystal™ Pro Booster.
- A remote computer by connecting to SmartCrystal™ Pro Booster connected via Ethernet
- A smartphone connected via WiFi to SmartCrystal™ Pro Booster

9.1. Ethernet connection

For a wired connection, the SmartCrystal™ Pro Booster is connected to a computer using a RJ45 network cable. The computer should be configured with an IP address in the same sub-network as the SmartCrystal™ Pro Booster. Please refer to the user-instructions "network settings" for your computer or ask your network administrator.

Using an internet browser, connect to the IP address of the Ethernet SmartCrystal Pro™ Booster:



Default Ethernet Configuration:

Address: 192.168.2.123

Subnet: 255.255.0.0

9.2. WIFI connection

Connect your computer, tablet or smartphone to the WIFI hotspot SmartCrystal™ Pro Booster according to procedure for your equipment. Enter the password when prompted.

From your web browser, connect to the WIFI address of SmartCrystal™ Pro Booster.

WIFI default configuration:

Hotspot Name: VOLFONI_XXXX (XXXX is the product serial number)

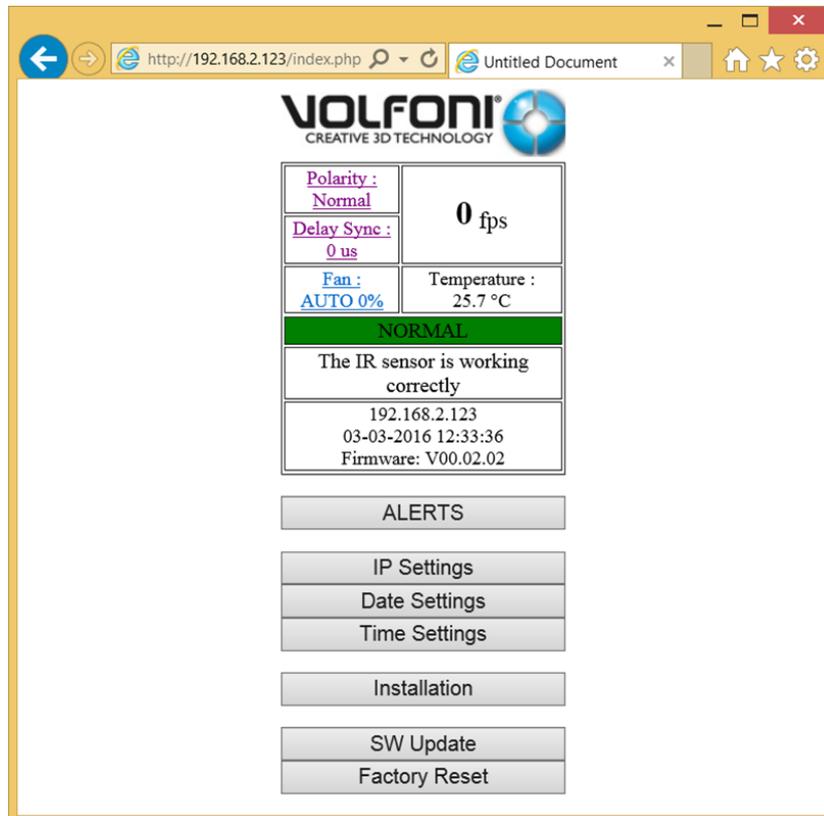
Password: Volfon1RD

Address: 10.10.0.1

9.3. User interface via remote PC / Smartphone

It is possible to access the user interface from a remote computer by running a web browser to the IP address of the SmartCrystal™ Pro Booster.

The display in the browser is as follows:



In addition to the display on the SmartCrystal™ Pro Booster, you can access various feature settings. The available settings are:

Sync Delay setting	Changes the product synchronization time. Range : -5000 μ s to +5000 μ s Precision : 100 μ s
IP settings	Changes the product network configuration.
Rotate 180 ° display	To reverse the display direction (up / down) in case of ceiling mounting (upside down).
Date / Time settings	Changes the time and date of the product.
Setting ON / OFF control of the fan	Selects the mode of operation for the fan between 2 modes: - ON: The fan is always ON and with 100% power - Auto: The fan speed is dependent on the temperature of the polarizer
Alarm settings	Determines the thresholds for the system alarms: - LCD Temperature Threshold - Dysfunction
Product Update	Updating one or more system features.
Log	Retrieve the log files stored on the system.
Log settings	Configure the logging parameters.

10. LED SIGNIFICATION

2 LED indicators are present on the SmartCrystal™ Pro Booster:

- A green LED next to the power connector indicates the operating status for the SmartCrystal™ Pro Booster.
- A white LED below the display shows the SmartCrystal™ Pro Booster synchronization status.

	ON	OFF
Green LED (nbr.5 p.7)	The unit is ON	The unit is OFF
White LED (nbr.9 p.7)	The device is synchronized	No synchronization detected

11. SOFTWARE UPDATES

1. Copy the update file (file with the ".vol" extension) to the root directory of the USB stick (for example the USB stick supplied with the SmartCrystal™ Pro Booster).
2. Insert the USB stick into the port "USB 2" of the SmartCrystal™ Pro Booster.
3. From a smartphone or a remote computer, connect to the user interface of your SmartCrystal™ Pro Booster and select "SW Update".
4. Wait for completion of the update.
5. Check on the display that the SW version number has been updated as required.
6. Turn off the SmartCrystal™ Pro Booster.
7. Remove the USB stick.
8. Re-start the SmartCrystal™ Pro Booster.

12. TROUBLESHOOTING

PROBLEM	POSSIBLE REASONS	SOLUTIONS
Hazy image, poor contrast	<p>The lens focus is wrong</p> <p>The protective films on the front and back sides of SmartCrystal™ Pro Booster have not been removed</p> <p>Presence of fingerprints or dirt on the lens and/or on the polarizer</p>	<ol style="list-style-type: none"> 1. Fix the lens focus 2. Check if the protective films have been removed 3. Clean the polarizer with the appropriate equipment, i.e using non-abrasive cloth.
No 3D effect	<p>Problem with the silvered screen</p> <p>Projector settings are not correct</p> <p>The SmartCrystal™ Pro Booster is not connected to the projector's 3D synchronization signal</p> <p>The SmartCrystal™ Pro Booster is not connected to the power</p> <p>The projection window of the booth depolarizes the light</p>	<ol style="list-style-type: none"> 1. Check if the screen is silver and designed for 3D. 2. Check if the values 'Dark Time' and 'Delay' are configured correctly. 3. and 4. Check the connections of SmartCrystal™ Pro Booster, the status of the white LED indicator synchronization with the 3D projector and the green LED power indicator. 4. Remove the window to make sure it does not change the polarization.
Too dark image	<p>The power of the projector lamp is too low.</p> <p>The lamp settings are not properly adjusted.</p>	<ol style="list-style-type: none"> 1. and 2. Change the lamp settings.
The image seems to be in 3D but the rendering is uncomfortable	<p>The direction of left / right polarization is reversed on the projector.</p>	<ol style="list-style-type: none"> 2. Change the left / right direction (shift from "Normal" to "reverse" or vice versa) on the SmartCrystal™ Pro Booster or the projector.
Flickering image	<p>The content is not 3D.</p> <p>The image frequency supplied by the projector is incorrect.</p>	<ol style="list-style-type: none"> 3. Check if the content is in 3D 4. Check the frame rate provided by the projector shown in the SmartCrystal™ Pro Booster touch screen (typically 144hz 120/60).

If you do not notice any improvement after checking the suggested solutions, please contact your support team.

13. IMPORTANT SAFETY RECOMMENDATIONS

- If you are unsure about your vision, please check to verify your ability to see stereoscopic 3D images.
- Do not sit too close to the screen when watching 3D images.
- Watching 3D may cause discomfort (such as eye strain, altered vision, fatigue, nausea, light-headedness, dizziness, confusion, loss of awareness, convulsions, cramps and/or disorientation) for some people. Volfoni recommends that you take regular breaks when watching 3D content or playing 3D video games until any such discomfort ends. If the discomfort persists, consult a doctor.
- Certain types of TV images or video games that contain flashing patterns of light may cause epilepsy symptoms for some viewers. If you or any member of your family has a history of epilepsy, Volfoni strongly recommends that you consult a physician before using this product.
- Be aware of young children, especially those under six years old. Because their vision is still under development, consult a doctor (such as a paediatrician or eye doctor) before allowing young children to watch 3D.
- If the product is broken, please keep broken pieces away from mouth and eyes. Dispose of pieces in the designated areas for the disposal of special waste.
- Protect the 3D system from direct sunlight, heat, or water. Extreme conditions may alter the product's abilities.
- Do not drop or modify the electrical or mechanical components of the 3D system.
- Do not leave the SmartCrystal™ Pro Booster turned ON when not in use.

14. SAFE USAGE

- Please, use the SmartCrystal™ Pro Booster in the specified voltage range (240V) and only with the original power supply so as to preserve the maximum lifetime of the product.
- Please use and store your SmartCrystal™ Pro Booster in the temperatures stated, see "Specifications".
- The SmartCrystal™ Pro Booster should not be used with projectors of over 32,000 lumens, please see section "Specifications".
- The SmartCrystal™ Pro Booster should not be placed closer than 80mm from the projector lens, please see section "Installation".

15. MAINTENANCE OF YOUR POLARIZATION MODULATOR

There are no parts accessible by the user inside of the SmartCrystal™ Pro Booster. Be careful not to apply force to the polarizing window. Try to avoid excessive shock and vibration.

Use a non-abrasive clean-cloth or wipe to clean the 3D system and particularly the polarization window to avoid scratches.

Always carry the polarization modulator in a rigid case to prevent scratches on the window and also to avoid breaking the base of the product.

16. WARRANTIES AND COMPLIANCE

The Volfoni Group reserves the right to make changes in the hardware, packaging or other documentation without prior written notice. The SmartCrystal™ Pro Booster is a trademark owned by the Volfoni Group. All trademarks are the property of their respective companies.

The SmartCrystal™ Pro Booster is warranted. Please refer to your order form to be aware of the warranty terms.

The system should be returned in its original box with original proof of purchase. Volfoni does not warrant uninterrupted or error-free operation of the product.

17. REGULATORY COMPLIANCE STATEMENTS

FCC Notice Class B

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



European Union - Disposal information:

This symbol means that according to local laws and regulations your product should be disposed of separately from household waste. When this product reaches the end of its life, take it to a collection point designated by local authorities. Some collection points accept products for free. The separate collection and recycling of your product at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

This Class B digital apparatus complies with Canadian ICES-003.

The normal function of the product may be disturbed by strong Electro-Magnetic Interference. If so, simply reset the product to resume normal operation by following the instruction manual. In case the function could not resume, please use the product in other location.

18. CONTACTS

For more information, please contact Volfoni, we welcome you on:

www.volfoni.com

For technical problems contact:

support@volfoni.com

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