	SmartCrystal™ Cinema	n ° : MUV1600178
	Neo Dual	Version : A01
	USER MANUAL	Date : 23/11/2017

SMART CRYSTAL™ CINEMA **NEO DUAL**

User Guide



MODEL: VBSP-12000



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TABLE OF CONTENTS

I. PRODUCT OVERVIEW -----	3
II. REQUIREMENTS -----	3
III. SMARTCRYSTAL CINEMA NEO DUAL FEATURES -----	4
1. General specifications -----	4
2. Technical specifications -----	4
3. Electrical specifications -----	4
4. Theoretical brightness performance SCC Neo Dual -----	4
IV. INSTALLATION OF THE SMARTCRYSTAL CINEMA NEO DUAL -----	5
1. Mechanical Installation -----	5
a. Electrical Installation -----	6
V. TROUBLES SHOOTING -----	6
VI. IMPORTANT SAFETY RECOMMENDATIONS -----	7
VII. WARRANTY -----	7
VIII. FURTHER INFORMATION -----	7
IX. REGULATORY STANDARDS -----	7

	SmartCrystal™ Cinema	n ° : MUV1600178
	Neo Dual	Version : A01
	USER MANUAL	Date : 23/11/2017

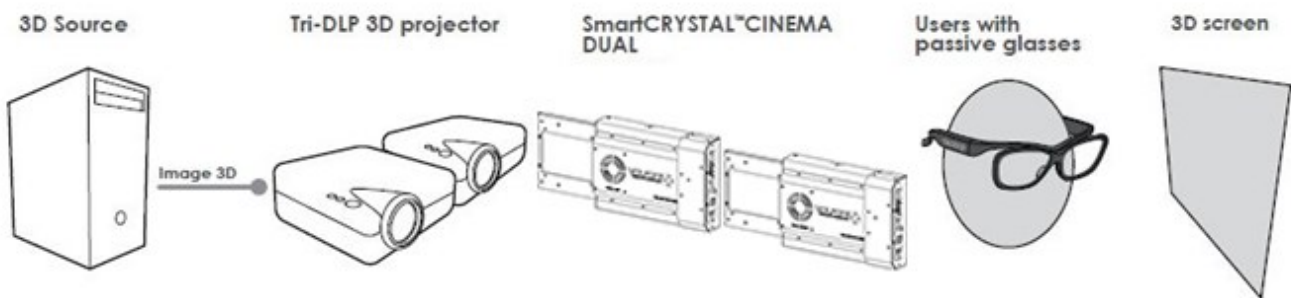
I. PRODUCT OVERVIEW

The SmartCrystal™ Cinema Neo Dual is a complete standalone automatic dual glass polarized filter for dual projection and large format screen

II. REQUIREMENTS

To use the SmartCrystal™ Cinema Neo Dual unit, the following is required:

- 3D content
- 2X3D cinema projector
- Polarization-preserving silver screen
- Passive circular-polarized 3D glasses



Most types of 3D cinema projectors are compatible with the SmartCrystal™ Cinema Neo Dual system.

DLP (Digital Light Processing) projectors are especially efficient for 3D projection. The system is easy to set up with a DCI-compliant DLP projector and works with projector lamps up to 7KW.


Please consult Volfoni for additional information.

Polarization-preserving silver screen

In order to enjoy the best quality 3D images, a polarization-preserving silver screen designed for 3D projection is required. If your screen was not manufactured specifically for 3D use, you might experience uncomfortable and blurry 3D images with a high level of cross-talk.

Passive polarized 3D glasses

The SmartCrystal™ Cinema Neo Dual is compatible with most commonly used passive 3D glasses (circular-polarized only).

	SmartCrystal™ Cinema	n ° : MUV1600178
	Neo Dual	Version : A01
	USER MANUAL	Date : 23/11/2017

III. SMARTCRYSTAL CINEMA NEO DUAL FEATURES

1. General specifications

- Meets all standards for electronics approved by CE
- For use with lightweight circular-polarized passive 3D glasses
- Passive 3D glasses as well as clip-on 3D glasses are available from Volfoni. Please contact us for more details.

2. Technical specifications

- Maximum power of projector: 7 kW
- Power supply: 110V/240V 50/60Hz
- Operating temperature: +10°C to +50°C (50°F to 122°F)
- Storage temperature: -5°C to +50°C (23°F to 122°F)
- Polarization window dimension: 171x116 mm
- Product dimensions (L x W x H): 224 x 133 x 446 mm
- Weight: 6kg per units (13.2 lb)


3. Electrical specifications

- V= 240 / 110 V AC
- F = 50 / 60 Hz
- Consumption <40mA AC / 220V (e)
- The unit has a built-in surge protector
- The system is supplied with two different power cables, a European model and an American model.
- This equipment should be electrically grounded.
- To rectify any indicated faults, please contact your dealer, installer stating the model number shown in the silver label of the product.

4. Theoretical brightness performance SCC Neo Dual

- Maximum power of projector: 7 kW
- Power supply: 110V/240V 50/60Hz

		30K lumens				20K lumens				15K lumens			
		6 Ft on the screen		4.5 Ft on the screen		6 Ft on the screen		4.5 Ft on the screen		6 Ft on the screen		4 Ft on the screen	
		Feet	Meter	Feet	Meter	Feet	Meter	Feet	Meter	Feet	Meter	Feet	Meter
Aspect ratio (LxH)	Flat (1.85)	81 x 44	25 x 13.5	94 x 51	28.7 x 15.5	66.5 x 36	20.5 x 11	77 x 42	23x5 x 13	58 x 31	17.5 x 9.5	66.5 x 36	20.5 x 11
	Scope (2.35)	92 x 39	28 x 12	106 x 45	32.5 x 14	75 x 32	23 x 10	87 x 37	26.5 x 11	65 x 28	20 x 8.5	75 x 32	23 x 10

	SmartCrystal™ Cinema	n ° : MUV1600178
	Neo Dual	Version : A01
	USER MANUAL	Date : 23/11/2017

IV. INSTALLATION OF THE SMARTCRYSTAL CINEMA NEO DUAL

1. Mechanical Installation

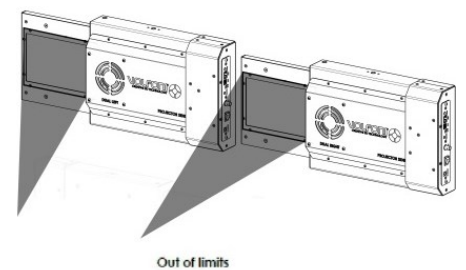
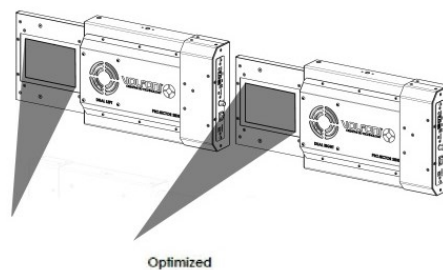
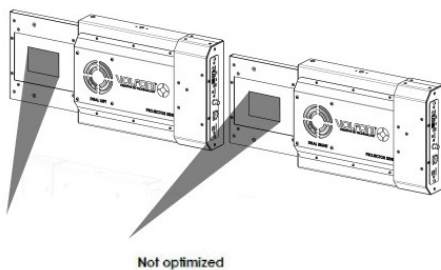
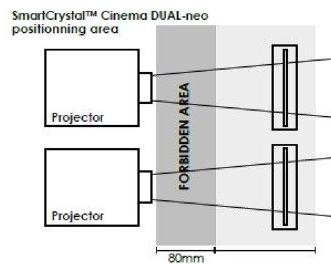
To install properly the SmartCrystal™ Cinema Neo Dual, please refer to the user manual of the SmartCrystal™ Cinema Neo that you can find online.


Document => MUV160028

REMINDER

The SmartCrystal™ Cinema Neo Dual should be placed directly in front of the lens of the projector at a distance such that the image from the projector covers as much as possible the entire area of the polarization window in order to minimize thermal heating effects.

Ensure that the side of the SmartCrystal™ Cinema marked "PROJECTOR SIDE" is facing towards the projector and the polarizer marked with a «RIGHT EYE» is in front of your right projector and the polarizer marked with a «LEFT EYE» is in front of your left projector. The SmartCrystal™ Cinema polarization module must be placed at least 80mm (4 inches) away from the projector lens.

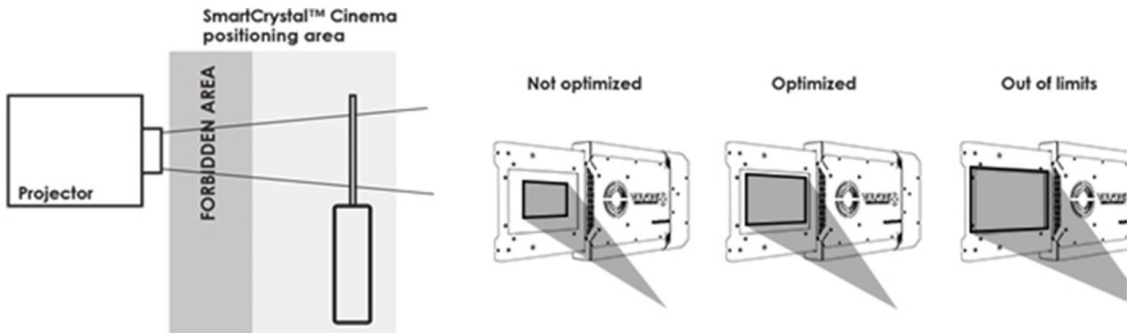


	SmartCrystal™ Cinema	n ° : MUV1600178
	Neo Dual	Version : A01
	USER MANUAL	Date : 23/11/2017

WARNING



Monitor the distance between the projector and the SmartCrystal™ Cinema 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

a. Electrical Installation


As for the mechanical installation please refer to the user manual of the SmartCrystal™ Cinema Neo that you can find online. The only difference is for the SmartCrystal™ Cinema Neo Dual there is no auto mode.

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V. TROUBLES SHOOTING

PROBLEM	SOLUTION
The image is blurred	Check that 2D images coil out polarizers are sharp

IF YOU DO NOT NOTICE ANY IMPROVEMENT FURTHER TO THE SUGGESTED SOLUTIONS, PLEASE CONTACT YOUR SUPPORT

	SmartCrystal™ Cinema	n ° : MUV1600178
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VI. IMPORTANT SAFETY RECOMMENDATIONS

Protect all parts of the 3D system from direct sunlight, heat or water.

- Extreme conditions may alter the product's performance.
- Do not modify the electrical or mechanical components of your 3D system.
- Do not apply force to the window of the polarization modulator.
- Do not touch the polarization window.
- Avoid vibrations and shock.
- Use a clean soft cloth when cleaning the polarization modulator to avoid scratching.
- Always transport the SmartCrystal™ Cinema Neo Dual system in its original packaging to avoid scratching the LCDs or the frame.
- In case of damage to the SmartCrystal™ Cinema Neo Dual where the skin is exposed to liquid crystal material, we recommend that you immediately wash the area with soap and water.
- In case of eye exposure to liquid crystal material, please seek medical advice immediately.
- Please note that passive 3D glasses must not be used as sunglasses.

VII. WARRANTY

The SmartCrystal™ Cinema Neo Dual is protected under warranty to the original purchaser for three (3) years according to local legislation.

Equipment (modules and cables) should be returned in their original packaging along with the original proof of purchase. Equipment that is broken or scratched is not covered. Volfoni does not guarantee uninterrupted or error-free operation of the product.

VIII. FURTHER INFORMATION

NOTICE:


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

www.volfoni.com

IX. REGULATORY STANDARDS

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 product for free.

	SmartCrystal™ Cinema	n ° : MUV1600178
	Neo Dual	Version : A01
	USER MANUAL	Date : 23/11/2017

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.