

# ALIOSCOPY



## ALIOSCOPY 3DHD-42" AND 3DHD-47" DISPLAYS

### User's Manual

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## CHAPTER 1 - GENERAL INFORMATION

### **WARNING:**

**TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. IN A PROLONGED PERIOD OF INACTIVITY, MAKE SURE TO UNPLUG THE UNIT. DO NOT REMOVE THE BACK COVER SINCE THERE ARE NO USER SERVICEABLE PARTS INSIDE. CONTACT A QUALIFIED SERVICE PERSONNEL IF REPAIR IS NECESSARY.**

### FCC Information

1. This device must be operated with the attached specified power cord or equivalent to ensure FCC compliance.

### **CAUTION:**

*The power supply outlet should be located near the display and should be easily accessible.*

*Always use the appropriate AC power cord that is certified for your specific country.*

2. This equipment has been tested and complies 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 may cause harmful interference to radio communications if not installed and used in accordance with the instructions. 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 the one the receiver is connected with.
  - Consult the dealer or an experienced radio/TV technician for assistance.

### **WARNING:**


*To assure continued FCC compliance the user must use a grounded power supply cord and the provided shielded video interface cable. Also any unauthorized changes or modifications not expressly approved will void the user's authority to operate this device.*



## Recycling and Disposal Information

(WEEE EU directive 2002/96/EC)

### Within the European Union

	<p>Following information is only for EU-member states:</p> <p>The use of this symbol indicates that this product may not be treated as household waste. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. For more detailed information about recycling of the product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.</p>
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### Outside the European Union

To dispose of used electrical and electronic products outside European Union, please contact your local authority.

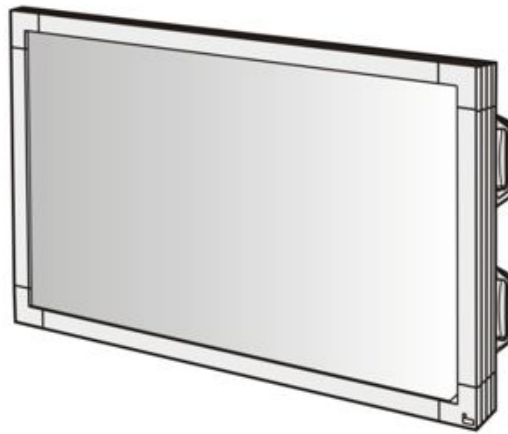
## Contents of the Package

Your Alioscopy package includes the following items:

- One 42" or 47" Alioscopy 3D Display
- One table stand – mounted on the display
- One user manual
- One USA Power Cord (3m)
- One European Power Cord (3m)
- One DVI cable male/male
- One wireless remote control device
- One cleaning kit



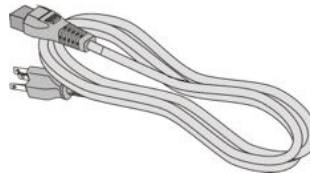
Table Stand



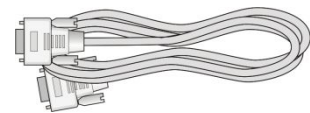
Alioscopy 3D display



Wireless Remote Control  
(with CR2025 3V Battery)



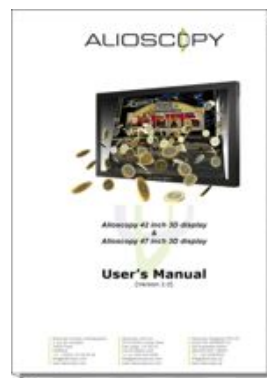
Power Cord x 2



DVI-D Cable



Cleaning Kit



User's Manual

**Picture 1 – Contents of the Package**

## Safety Instructions and Recommended Use

For your safety, please read all the instructions before operating the display.

1. Keep, read and follow these instructions.
2. Clean only with a free lint cloth and non alcoholic professional glass cleaner liquid (see cleaning instructions section in this manual page 8).
3. Avoid touching the optical lens by hand or with any object.
4. Do not block any ventilation opening. Install in accordance with the manufacturer's instructions.
5. Do not install near any heat source such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
6. Do not attempt to bypass the safety purpose of the polarized or grounding-type plug. If the provided plug does not fit into your wall outlet, replace it with a correct one.
7. Protect the power cord from being walked on or pinched particularly at the ends of the cord.
8. Only use attachments/accessories specified by the manufacturer.
9. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the display. When a cart is used, use caution when moving the cart to avoid injury or damage.
10. Unplug the display during lightning storms or when it is not being used for a long period of time.
11. Minimum 2 qualified service personnel must operate installation.
12. Refer all servicing to qualified service personnel. Servicing is required when the display has been damaged in any way, such as the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen on the display, it has been exposed to rain or moisture, it does not operate normally, the optical lens has been damaged or the display has been dropped.
13. Always handle your display within original packing when moving it.
14. Ensure that the area around the display is clean and free of moisture.
15. Do not place heavy objects on the display, audio/video cables, or power cord.
16. Do not stick adhesive tape or any adhesive support on the lenticular optical component.

### Power Overloading

Do not overload wall outlets, extension cords, or power strips. This can result in fire or electronic shock.

## Ventilation

The slots and openings on the cabinet are provided for necessary ventilation (Picture 2). To ensure reliable operation of the display and to protect it from overheating, these slots and openings must never be blocked or covered.

- Never cover the slots and openings with a cloth or other materials.
- Do not block the openings by placing the display on a bed, sofa, rug or other similar surface.
- Do not place the display in a bookcase or a rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
- Place your display in a well-ventilated area; don't place the display in airtight compartments. Do not place anything on your display that prevents heat dissipation.



**Picture 2 - Ventilation**

## Outdoor or Showcase Window Installation and Exposure to Sunlight

- Avoid exposing the display to direct sunlight or high temperatures. Temperatures recommended are between +5°C / 41°F and +40°C / 104°F.
- Orient your display away from direct sunlight to reduce glare.
- Ensure the display is protected from moisture, rain and dust.
- Ensure heat dissipation.

## Storage Recommendations

- Alioscopy products must be stored in their original packaging, in a dry environment at constant temperature.
- The storage temperatures recommended are between 0° C (32° F) and + 50° C (122° F)
- Moisture must NOT be allowed to come in contact with the packages. This includes dripping water, heavy condensation, or storing the product in standing water.
- If the display has been exposed to cold temperatures then make sure to acclimate the display before operation.

## Cleaning the Display

Alioscopy 3D displays are equipped with an array of micro lenses that should only be cleaned with great caution. If mishandled, the optical component could be durably damaged. As a general rule, avoid contact with the optical component when handling the display. In operation, make sure viewers are prevented from touching the display. If cleaning is nevertheless required:

1. Preferably use compressed air sprays (not included) to blow dust away. Keep spray 25 cm (10") away from the surface when blowing air in order to prevent moisture and white frost from depositing.
2. If stains or fingerprints must be removed, preferably use the Alioscopy Cleaning Kit provided with your display. Slightly moisten the Alioscopy Cleaning Cloth (or any clean, soft and lint-free optical quality cloth) with the Alioscopy Spray or any alcohol-free professional glass liquid cleaner. Gently wipe the lens downwards with the cloth, following the slant of the lenses (from top left to bottom right).
3. Never use any cleaning product including alcohol or detergents.
4. Do not press and avoid back and forth motion.



**Picture 3 - Wiping direction**

5. Cloth must be slightly damp and should always slide easily. Re-moisten as soon as it seems to grip.

## Cleaning Bezel and Chassis

1. Use a soft, lint-free, dry cloth.
2. You may apply a small amount of non-ammonia, non-alcohol based, mild, non-abrasive detergent onto a clean, soft, lint-free cloth, and then wipe the surface.

### **Caution:**

- ***Never spray or pour any liquid directly onto the screen or chassis.***
- ***Do not use any ammonia or alcohol-based cleaners on the optical lens or chassis.***
- ***Chemical cleaners have been reported to damage the screen and/or chassis.***

## CHAPTER 2 - PRODUCT FEATURES

### Multi-view lenticular 3D display

- 8 view auto-stereoscopic 3D display
- DVI-input
- Full HD – 1920 x 1080p
- Non-switchable lenticular technology
- Optimal viewing distance:
  - 42" = 4 meters / 13 feet
  - 47" = 4.4 meters / 14.4 feet
- 100° viewing angle
- Full brightness, full contrast

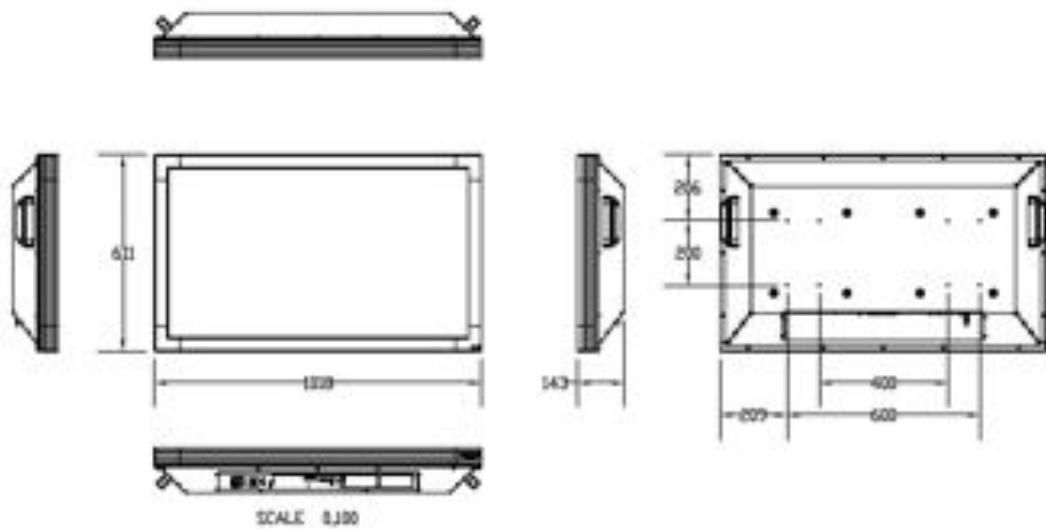
### Alioscopy 3DHD-42" and 3DHD-47" Datasheet

<b>ALIOSCOPY 3D DISPLAY</b>	<b>3DHD-42"</b>	<b>3DHD-47"</b>
3D component	Lenticular lens	Lenticular lens
3D resolution	1920*1080 only (native resolution)	1920*1080 only (native resolution)
Number of points of view	8	8
3D input	DVI only	DVI only
Weight without stand	52 kg / 115 lb	65 kg / 143 lb
Weight with stand	57 kg / 125.6 lb	70 kg / 154.3 lb
Total Weight With Box	63 kg / 139 lb	80 kg / 176.4 lb
Dimensions (W x H x D) Without stand:	1018 x 611 x 144 mm 40 x 24 x 5.6 inch	1131 x 675 x 150 mm 44.5 x 26.5 x 5.9 inch
Dimensions (W x H x D) With stand:	1018 x 661 x 207 mm 40 x 26 x 8.2 inch	1131 x 734 x 207 mm 44.5 x 29 x 8.2 inch
3d Visualization distance Minimum/ideal/maximum	2.5 m/ 4.0 m/ 9.0 m 8.2 f / 13 f / 29.5 f	3.0 m/ 4.40 m / 9.0 m 10 f / 14.5 f / 29.5 f
Viewing angle	100°	100°
Number of spectators	1 to 40	1 to 40

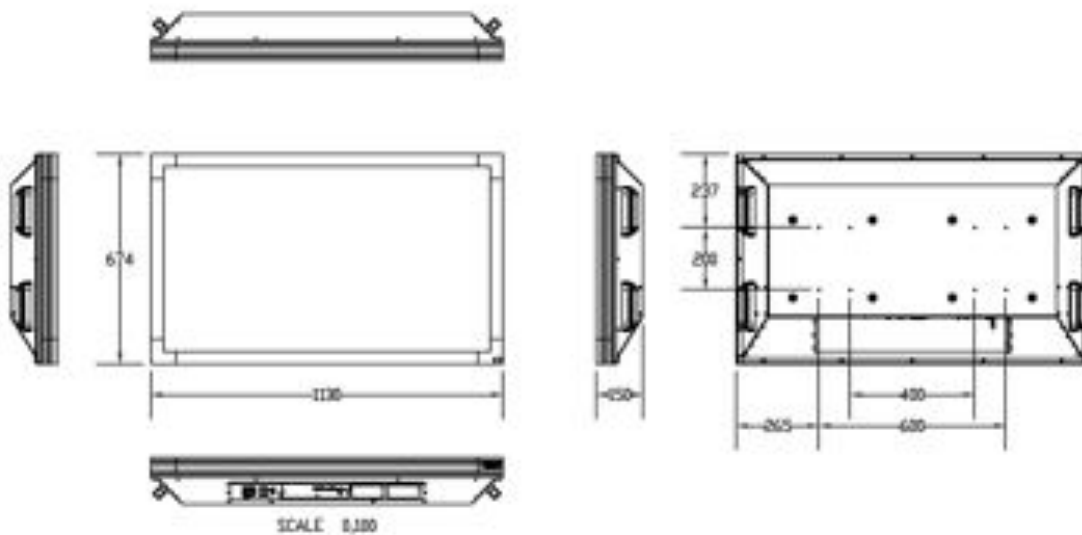
<b>BASE DISPLAY</b>	<b>3DHD-42"</b>	<b>3DHD-47"</b>
Original hardware	Delta S42BN	Delta S47BN
Panel Technology	CMO LCD	CMO LCD
Active Screen Area (W x H)	930.24 x 523.26 mm	1039.68 x 584.82 mm
Screen Size [inch]	42.02 Diagonal	47 Diagonal
Viewing Angle (typ.)	176° horizontal / 176° vertical	176° horizontal / 176° vertical
Screen Aspect Ratio	16:9	16:9
Sub Pixel Pitch [mm]	0.1615 x 0.4835	0.5415 x 0.1805
Contrast Ratio (typ.)	3000:1	3000:1
Brightness (typ.) [cd/m]	500	500
Response Time (typ.) [ms]	6.5 (grey-to-grey)	6.5 (grey-to-grey)
Colours [million]	16.77	16.77
Horizontal Frequency [kHz]	30 - 80 (analog. and digital)	30 - 80 (analog. and digital)
Vertical Frequency [Hz]	56-75	56-75
Native Resolution	1920 x 1080 at 60 Hz	1920 x 1080 at 60 Hz
Video Input	1 x DVI, 1 x VGA, RS232	1 x DVI, 1 x VGA, RS232
Audio Input	2x8W Audio In: RLx1, 3,5 blue jack x1, RCA Out (RL)	2x8W Audio In: RLx1, 3,5 blue jack x1, RCA Out (RL)
Audio Output	2x8W	2x8W
Speakers	Built-in Rear Facing Audio Amplifier and Speakers, 8W x 2	Built-in Rear Facing Audio Amplifier and Speakers, 8W x 2
Power Consumption (max.)	260 W	260 W
Power Requirements	100 - 240 V; 3.9/1.65 A; internal	100 - 240 V; 3.9/1.65 A; internal
Operating Temperature [°C]	+5 to +40	+5 to +40
Bezel Width [mm]	600 x 200 FDMI (v1 + r1); 8 holes	600 x 200 FDMI (v1 + r1); 8 holes
Wall mount standard	MIF-F	MIF-F
Contents of the package	Display; Stand; Power Cable; Remote Control (IR); DVI-DVI Cable	Display; Stand; Power Cable; Remote Control (IR); DVI-DVI Cable
Warranty	1 year warranty including backlight	1 year warranty including backlight

## Display Dimensions

### 3DHD-42" dimensions without stand in millimetres

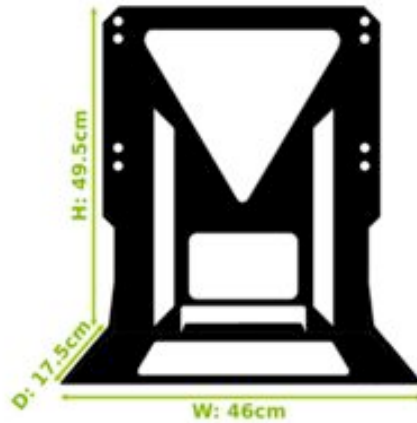


### 3DHD-47" dimensions without stand in millimetres



## Display Stand

The display stand is delivered with every 42" and 47" 3D display.



Picture 4 – Display Stand

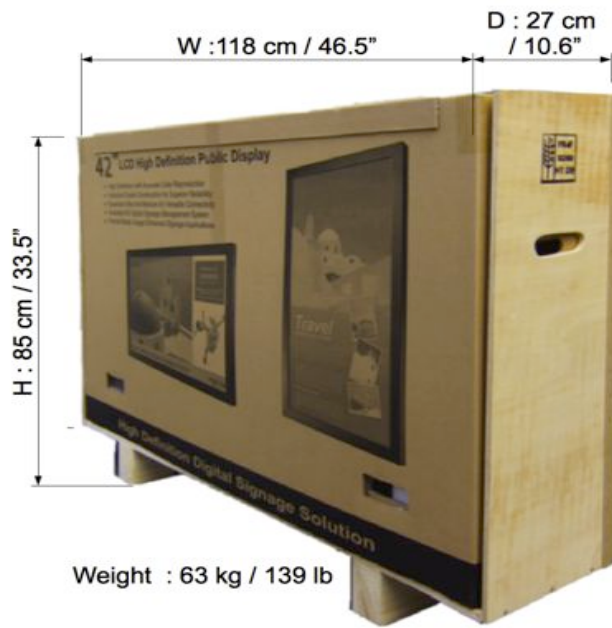
## Serial Number Location

The factory Serial Number is necessary in order to get warranty service. Refer to the image below to find Serial Number.



Picture 5 - Serial Number Location

## Storage Box Dimensions



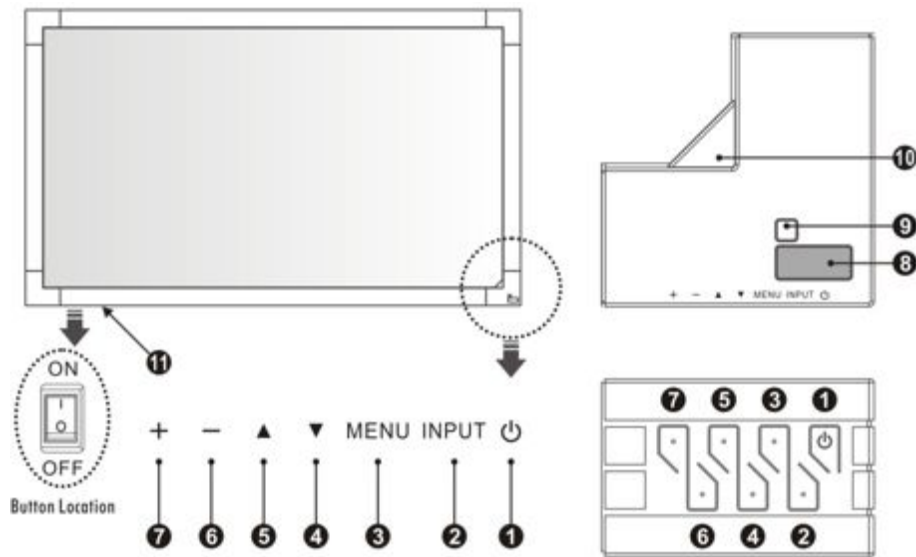
Picture 6 – Alioscopy 3DHD-42" Box



Picture 7 – Alioscopy 3DHD-47" Box

## CHAPTER 3 - TECHNICAL ASPECTS AND DETAILS

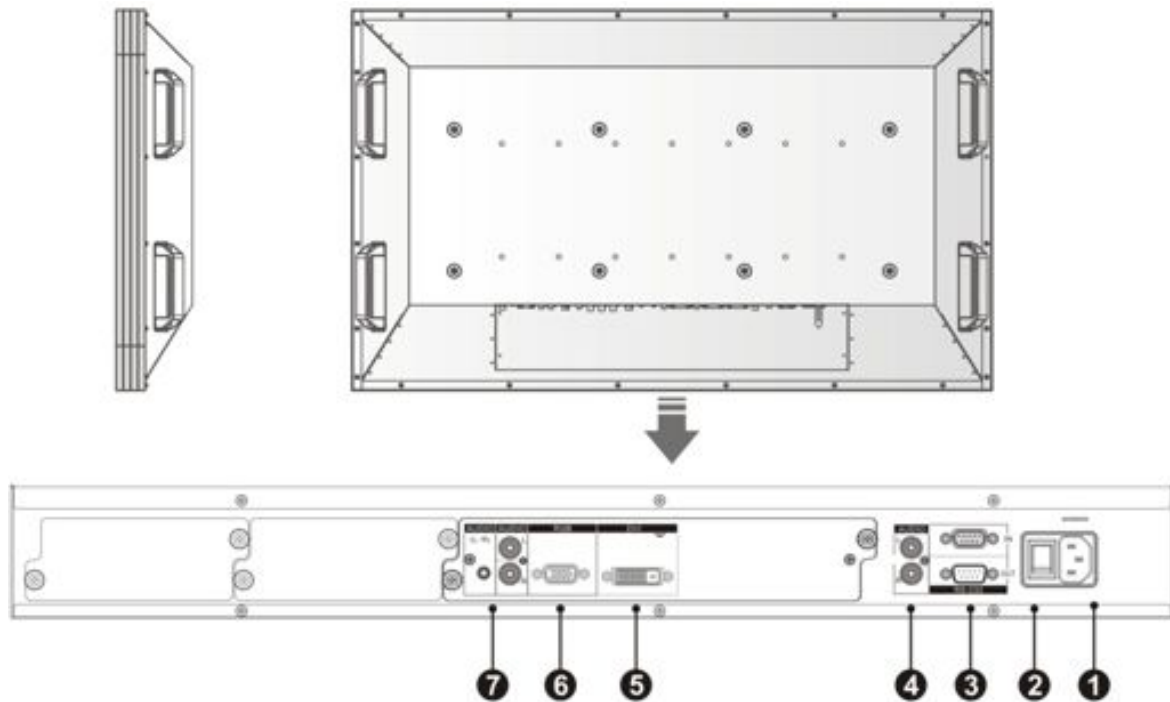
### Control Panel



Picture 8 – Control Panel

ITEM	LABEL	DESCRIPTION
1.	POWER button	Switches the power on/off.
2.	INPUT button	Selects the source signal connected to the display.
3.	MENU BUTTON	Activates/deactivates the OSD (On-Screen-Display) menu.
4.	DOWN (▼) button	Activates the OSD menu when the OSD menu is turned-off. Acts as button to move the highlighted area down to select the adjustment with OSD menu.
5.	UP (▲) button	Activates the OSD menu when the OSD menu is turned-off. Acts as button to move the highlighted area up to select the adjustment with OSD menu.
6.	VOLUME (-) button	Acts as (-) button to decrease the adjustment with OSD menu. Acts as (-) button to move to previous menu in the OSD menu. Decreases the audio volume output level when the OSD menu is turned off.
7.	VOLUME (+) button	Acts as (+) button to increase the adjustment in the OSD menu. Acts as (+) button to move to next menu in the OSD menu. Increases the audio volume output level when the OSD menu is turned off.
8.	Remote control sensor and Power indicator	Receives the signal from the remote control (when using the wireless remote control). Glows blue when the 3D display is in active mode and glows orange when the LCD is in POWER OFF mode.
9.	Light Sensor	Receives light intensity reading from the surrounding environment to adjust display brightness automatically (option)
10.	RGB Optical Sensor	Allows reading the display colour and intensity values and provides feedback through RS232 port or media player (option)
11.	Main Power Switch	Rocker switch to turn the main AC power on/off.

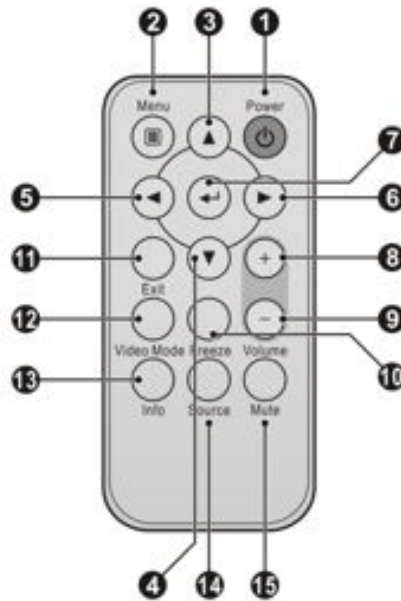
## Terminal Panel



Picture 9 – Terminal Panel

ITEM	LABEL	DESCRIPTION
1.	AC In Connector	Connects with the supplied power cord.
2.	Main Power Switch	Rocker switch to turn the main AC power on/off.
3.	RS232C Input & Output	Not used
4.	Audio output	Audio RL (right and left) output from current channel.
5.	DVI In	Digital RGB input signals from a computer or HD device with a digital RGB output.
6.	D-SUB RGB In	Not used
7.	Audio in For D-SUB RGB/DVI	Input audio signal from external equipment such as a computer, VCR or DVD players. <b>3.5ΦBlue Jack and R.L RCA Jack:</b> Audio IN for VGA/DVI 3.5ΦBlue Jack has high priority over R.L RCA Jack

## Wireless Remote Control



Picture 10 – Wireless Remote Control

ITEM	LABEL	DESCRIPTION
8.	<b>POWER</b> button	Switches the power on/off. If Power Indicator on the display is not glowing, the rest of the controls on the remote will not function.
9.	<b>MENU</b> button	To activate/deactivate the OSD menu.
10.	<b>UP ▲</b> buttons	Acts as button to move the highlighted area up (▲) and down (▼) to select the adjustment with OSD menu.
11.	<b>DOWN ▼</b> buttons	
12.	<b>LEFT ◀</b> buttons	Acts as button to increase (▶) and decrease (◀) the adjustment with OSD menu.
13.	<b>RIGHT ▶</b> buttons	
14.	<b>Enter</b> button	Acts as enter button with OSD menu.
15.	<b>VOL +</b> buttons	Increases and decreases the audio output level.
16.	<b>VOL –</b> buttons	
17.	<b>Freeze</b> button	To freeze the current picture displayed.
18.	<b>Exit</b> button	Returns to previous menu or turns off OSD menu.
19.	<b>Video mode</b> button	Selects different video mode from VIVID, STANDARD, CINEMA, USER.
20.	<b>Info</b> button	To turn on/off the information menu.
21.	<b>Source</b> button receiver	Selects input source signal, INPUT1, INPUT2 and INPUT3. (Based on extension box(es) installed).
22.	<b>Mute</b> button	To turn on/off the audio mute function.

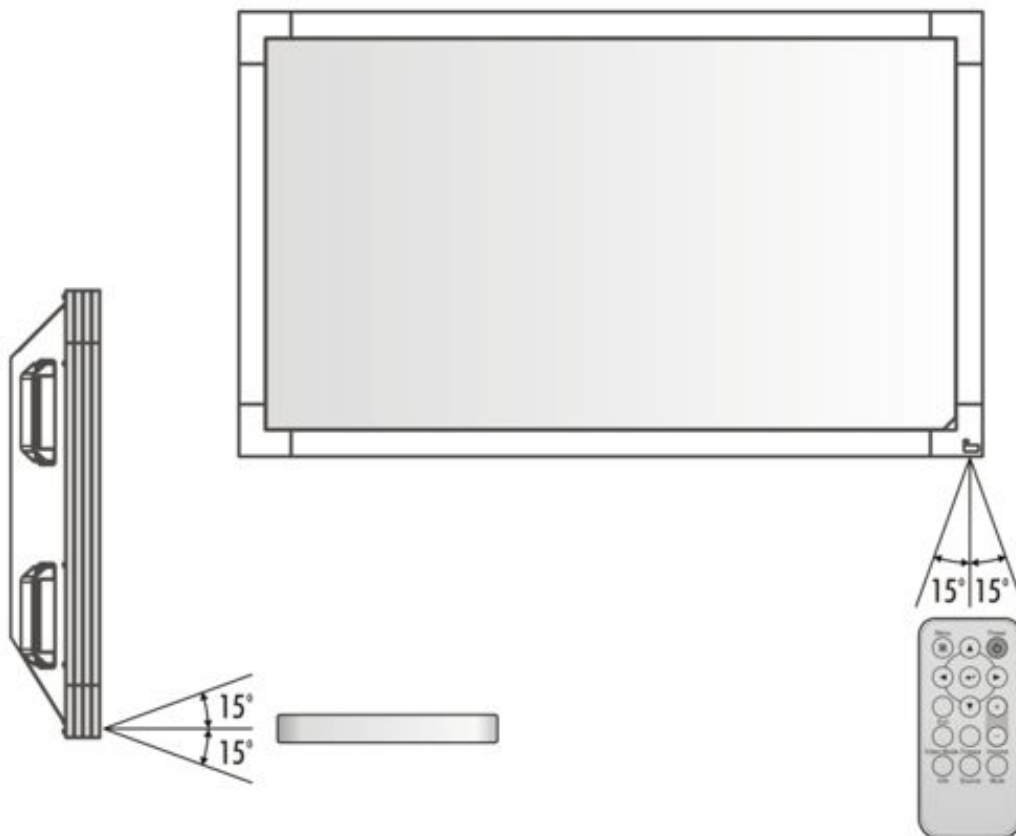
## Operating Range of the Remote Control

Point the front of the remote control toward the display's remote sensor while pressing the button. Use the remote control within a distance of approximately 7m / 23 ft. from the front of the 3D display's remote control sensor and at a horizontal and vertical angle of 15 degree within a distance of approximately 3.5 m / 11.5 ft.

### **CAUTION:**

*The remote control might not function in the following conditions:*

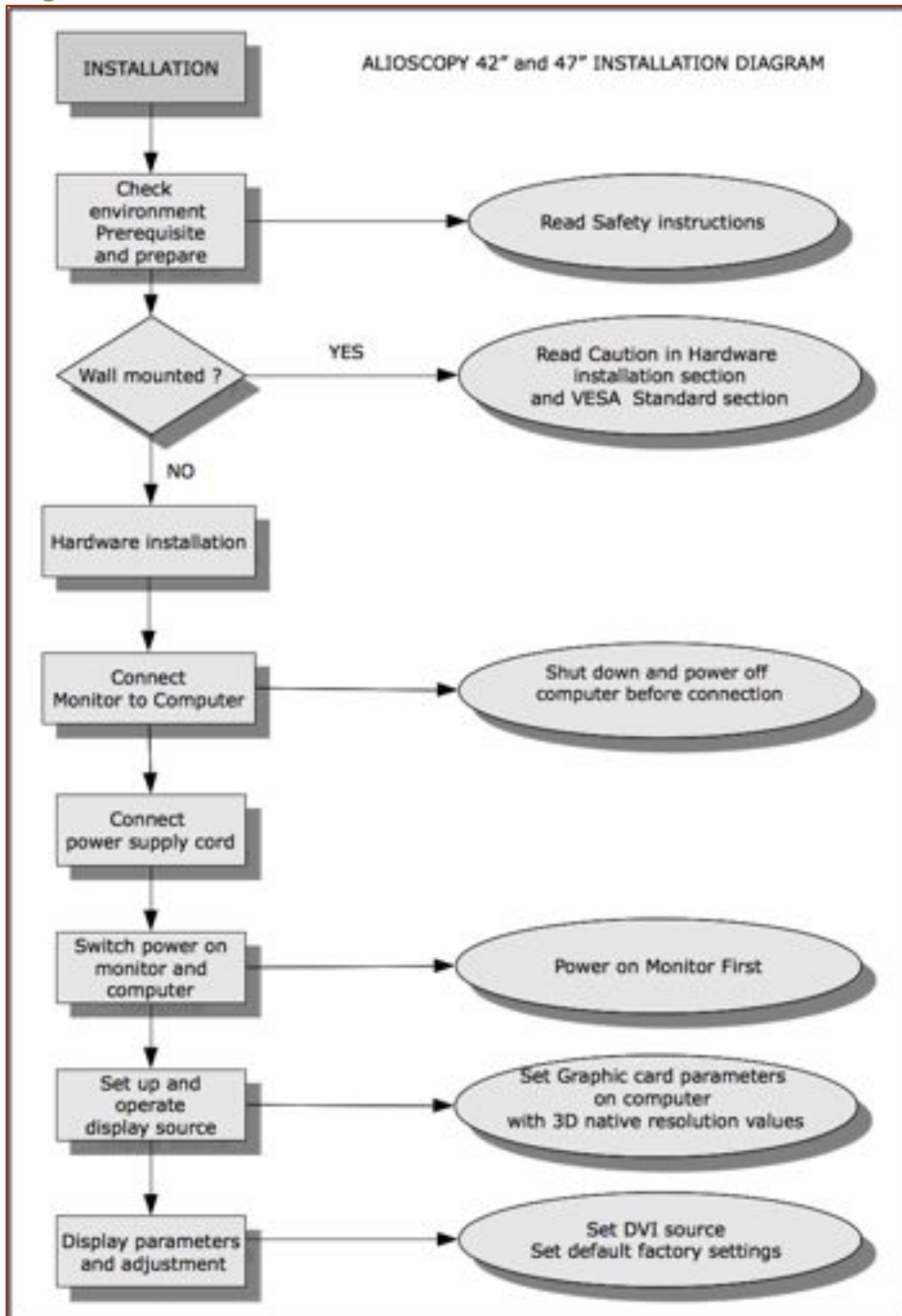
- *When direct sunlight or strong illumination strikes the remote control sensor*
- *When an object is obstructing the sensor.*



**Picture 11 - Operating Range of the Remote Control**

## CHAPTER 4 - INSTALLATION

### Diagram



Picture 12 - Diagram

## Environment

Determine the ideal location for your display and computer, taking into account the recommended viewing distances.

Read Chapter 1 for recommended use instructions.

## Display Setup

- **Wall Mounting**

Take in account the weight of the display in order to secure installation.  
Make sure ventilation is adequate.

If the computer is on the other side of the wall, consider using a wireless keyboard to control playback or else work in a dual display environment with a second display attached.

- **Tabletop**

Ensure table can support the weight of the display and will not move in case of unexpected shock. Take into account the weight of the display to secure installation.

- **Pedestal**

Ensure base plate is large enough to guarantee permanent stability, in accordance to the weight of display (3DHD-42"= 52 kg / 114 lbs, 3DHD-47"= 65 kg / 143 lbs). Additional stabilization such as using steel cable might be necessary.

Please contact your local dealer for further information.

- **Multiple Displays**

DVI Splitters can be used to play content from a single computer on multiple displays. Make sure DVI resolution is set to 1920x1080.

- **Cabling distances**

Standard DVI cables shorter than 5 m / 16 ft will generally provide a good signal. Use shielded cables for distances up to 10 m / 33 ft and superior double shielded cables with gold plated connectors beyond (up to 20 m / 66 ft).

Using a DVI booster may be necessary to mitigate signal degradation on long distances. DVI boosters generally require an external power supply. Refer to your vendor's product characteristics for appropriate combination of cable length according to output resolution.

Digital Extension Systems are recommended for longer distances. An emitter is plugged to the computer with a DVI cable and connected to a receiver with CAT6, CAT6A or CAT7 Ethernet cable. The receiver plugs to the display with a DVI cable. This enables extending the range up to 100 m / 328 ft. Optical fibre can also be used for distances up to 1500 m / 4921 ft.

When using DVI booster or extender make sure device avoid video compression.

When using computers with HDMI output, HDMI to DVI cables can be used.

- **Audio**

When audio is required, plug a 3,5mm jack cable to the computer's audio output and connect either to the 3D display's internal speakers audio input or to external amplified speakers.

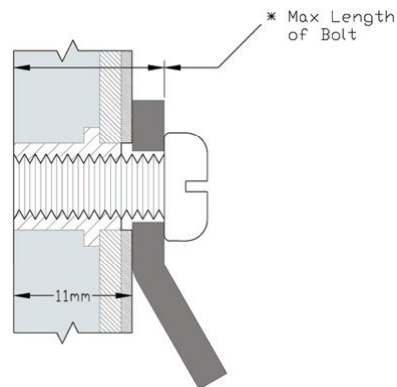
## VESA Standard Mounting Interface

VESA MIF-F standard mounting interface allows you to connect Alioscopy displays to any VESA Standard and UL listed third party mounting arm or bracket, such as Peerless or Prolyte.



**Picture 13 - VESA Standard Mounting Interface**

You can either screw the mount using two horizontal rows or two vertical columns of mounting screw inserts. M6x10 screws measuring approximately 10 – 11mm / 0,4" must be used. Do not use any other type of screw or else the display might detach and fall.



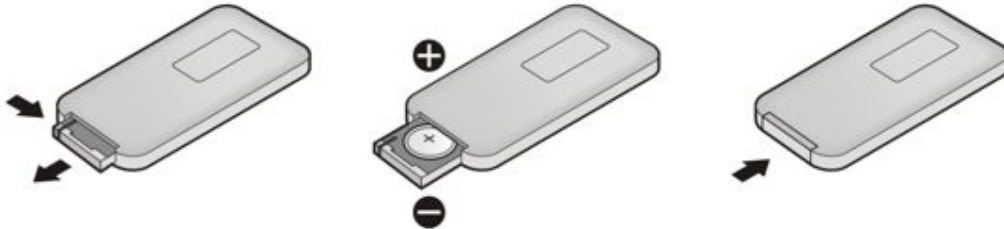
**Picture 14 – Maximum length of M6 screw**

## Preparing display for Wall Mounting

1. Lay the display back up on a flat and soft surface, reposing on its bezel, after making sure that the optical component will remain untouched.
2. Use a screwdriver to remove the stand and replace it with your VESA mount, screwing it with M6 screws.
3. Proceed with the remaining instructions from your VESA mount vendor.

## Installing the Remote Control Battery

- Remove battery cover.
- Insert battery (CR2025 3V battery x 1).
- Re-attach battery cover.



### **CAUTION:**

- *Dispose of used batteries in accordance with local laws and regulations.*
- *Keep batteries away from children and pets.*
- *When the remote control remains unused for an extended period, remove battery.*

## Connecting 3D Display to Computer

3D display can be connected to any computer running Windows, Mac OS or Linux, since the Alioscopy Software Suite is cross-platform.

### PC Connection

1. Make sure all hardware is powered off.
2. Connect the DVI cable from the computer to the 3D display.



**Picture 15 – PC Connection**

3. Make sure there is power to both the display(s) and the PC.
4. Small vector based characters can be hard to read on your 3D display. When configuring your computer for the first time, you should preferably work on a standard 2D monitor, in a single or in a dual display environment. Once the computer is configured, you can run with the 3D display only. If your graphic card only has one DVI output, you can use a DVI-D splitter cable to connect both 3D and 2D display.
5. Turn on your computer
6. Turn on your display(s)
7. If a 2D display is not available, magnifying the desktop will greatly improve the readability of small text on your 3D display:
  - Press [Windows key] + U to access *Magnifier*
  - Or launch *Magnifier* from the menu: Start / Programs / Accessories / Ease of Access / Magnifier
8. Set computer according to 3D display requirements:
  - Select video output as DVI
  - Set video output resolution to progressive 1920x1080 (1080p)
9. 3D Display settings:
  - With OSD menu
    - Select video input as DVI
    - Make sure Alioscopy recommended image settings are used
  - Optionally, adjust image settings to suit your needs.
10. Install Alioscopy Mix and Play Suite for Windows
  - a. Hardware recommended minimum configuration:
    - Intel Core 2 Duo CPU with a minimum of 2.6 GHz
    - 2 Gb RAM DDR3 (1333 MHz minimum)
    - 7200 rpm disk drive with SATA interface or SDD hard drive
    - HD video Chipset (preferred NVIDIA)
  - b. Software\_requirement: Windows XP-SP3 or higher (Vista, Seven), 32-bits or 64-bits.
  - c. Download Alioscopy Software and documentation: Read Chapter 6
  - d. Unzip *Alioscopy\_suite\_1.2.win32.zip*, double-click on *install.exe* and follow installer instructions. Packaged files will be copied to your hard disk (see Software Package Content in Mix & play Software Suite User's Guide) and shortcuts will be placed in Start Menu.
11. If the Display doesn't function properly, please refer to the troubleshooting section of this manual to diagnose the problem.

## Mac Connection

1. Make sure all hardware is powered off.
2. Connect the DVI cable between the 3D display and the Mini DisplayPort Connector plugged into the Mac computer.



**Picture 16 – Mac Connection**

3. Small vector based characters can be hard to read on your 3D display. When configuring your computer for the first time, you should preferably work on a standard 2D monitor, in a single or in a dual display environment. Once the computer is configured, you can run with the 3D display only.
4. Turn on your Mac mini
5. Turn on your display(s)
6. If a 2<sup>nd</sup> 2D display is not available, magnifying the desktop will greatly improve the readability of small text on your 3D display:
  - Press [Ctrl key] + mouse scroll wheel to zoom
  - Or use keyboard shortcuts:
    - Activate/deactivate: *Alt + Cmd + 8*
    - Zoom forward: *Alt + Cmd + =*
    - Zoom back: *Alt + Cmd + -*
7. Make sure there is power to both the display(s) and the Mac computer
8. Set Mac computer according to 3D display requirements:
  - Detect monitor
  - Set video output resolution to progressive 1920x1080 (1080p)

9. 3D Display settings:
  - With OSD menu
    - Select video input as DVI
    - Make sure Alioscopy recommended image settings are used
  - Optionally, adjust image settings to suit your needs.
10. Install Alioscopy Mix and Play Suite for OSX
  - e. Hardware recommended minimum configuration:
    - Intel Core 2 Duo CPU with a minimum of 2.6 GHz
    - 2 Gb RAM DDR3 (1333 MHz minimum)
    - 7200 rpm disk drive with SATA interface or SSD hard drive
    - HD video Chipset (preferred NVIDIA)
  - f. Software requirement: Mac OS X version 10.6.0 or higher, 32-bits or 64-bits. The Alioscopy program suite is only available as a 64-bits binary
  - g. Download Alioscopy Software and documentation: Read Chapter 6
  - h. Unzip *alioscopy\_suite\_1.2.osx.zip* and follow installer instructions after double-clicking on *Alioscopy\_Suite\_1.2.pkg*.
11. If the Display doesn't function properly, please refer to the troubleshooting section of this manual to diagnose the problem.

### 3D Display Basic Operation

The 3D display power indicator is blue when turned on and orange when turned off.

The display can be turned on or off as follows:

1. Use the remote control's power on button or
2. Press the power switch (Item 1 Control Panel Chapter 4)

#### Power Indicator

MAIN POWER SWITCH	LED INDICATOR		
	STANDBY (ORANGE)	STANDBY - POWER ON DELAY (BLUE)	POWER ON (BLUE)
OFF	OFF	OFF	OFF
ON	ON	ON (Blue LED Flashes)	ON

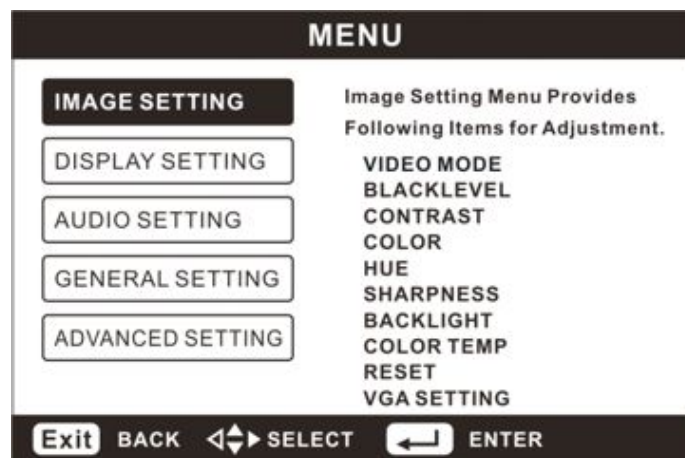
Picture 17 – Power Indicator

### OSD (On-Screen Display) controls

There are 5 main menu settings:


- Image
- Display
- Audio
- General
- Advanced

All menus items can be adjusted by using either the supplied remote control or control buttons located on the bottom right corner of the display.



Picture 18 – Menu settings

## Default Recommended Settings for Alioscopy 3D Displays

OSD Menu	Recommended values 42" & 47"	
	Setting	Value
	Video Mode	USER
	Black Level	55
	Contrast	40
	Colour	50
	Hue	50
	Sharpness	50
	Backlight	100
	Colour temp.	Standard
	Reset	No

Picture 19 - Default Recommended Settings

## Other Recommended Settings

OSD Menu	Setting	Value
General Setting	System info	DVI
Advanced Setting	ACC	ON
	ACM	OFF
	MPEG-NR	OFF
	Led Light	ON
	Power reduction	OFF

Picture 20 - Other Recommended Settings

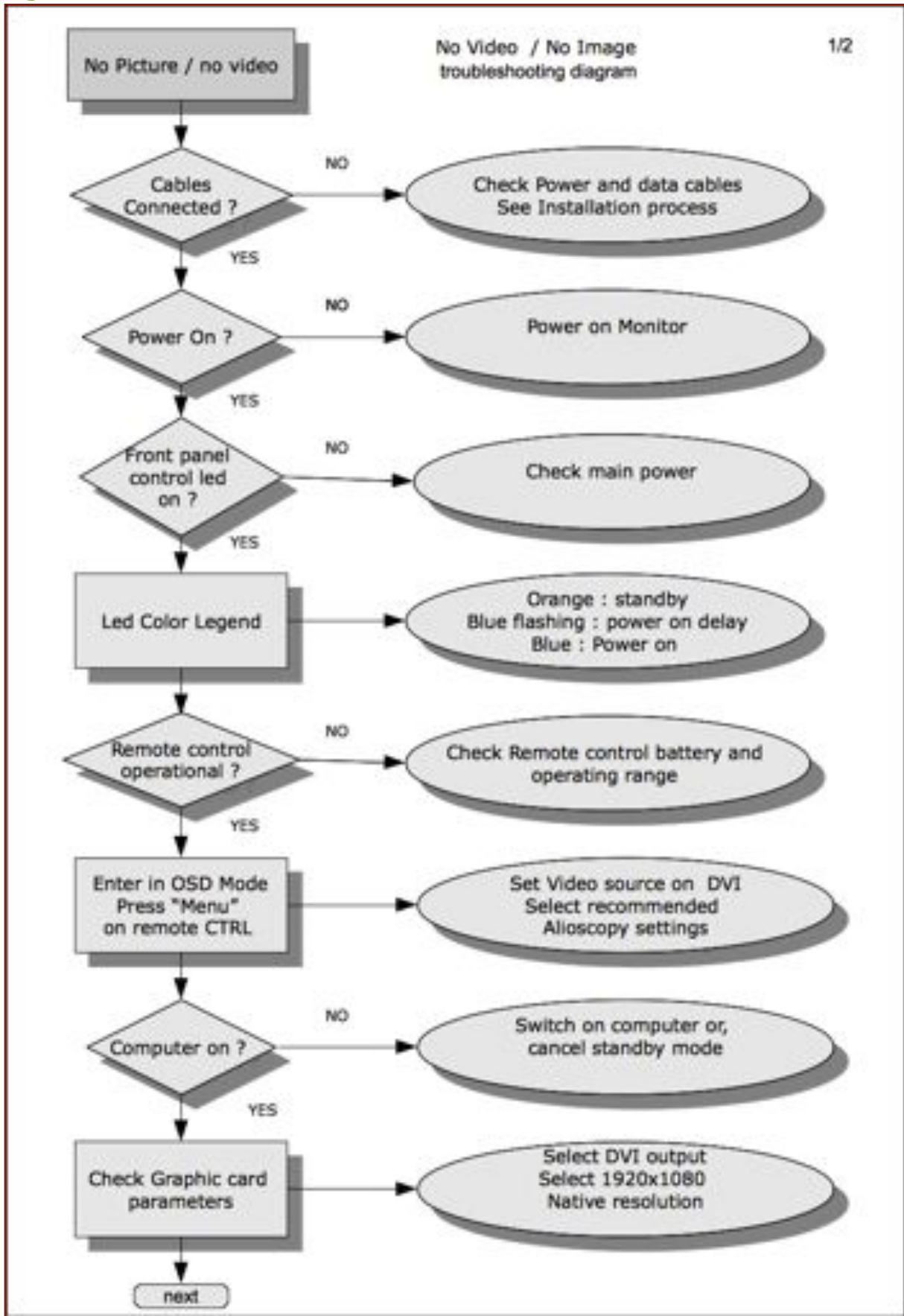
## Temporary Installation Check List

Alioscopy displays can be used for temporary events like exhibitions, trade shows, etc. For a successful demonstration, please make sure that you have checked:

- ☑ 3D Display OSD settings (page 26);
- ☑ Computer settings (DVI output, resolution settings, etc.);
- ☑ 3D content playback has been tested: play 3D playlist at least once before packing to ship equipment on exhibition site;
- ☑ Wireless Remote Control is required to proceed to EEPROM factory reset. Make sure that it is packed with the Alioscopy 3D display;
- ☑ DVI cable length. DVI cables are usually 3 to 10 meters long. The one provided by Alioscopy is a standard 3-meter DVI cable.
- ☑ Power A/C outlet. Please check if any A/C extender is required (number of A/C powered equipment and length of cables);
- ☑ Installation settings (wall mounting, mobile floor stands, table top, etc): please refer to our setup recommendations on page 20;
- ☑ Alioscopy 3D display user manual. Keep it attached at the back of the screen in case you need to refer to it;
- ☑ Emergency assistance telephone numbers: please refer to page 40

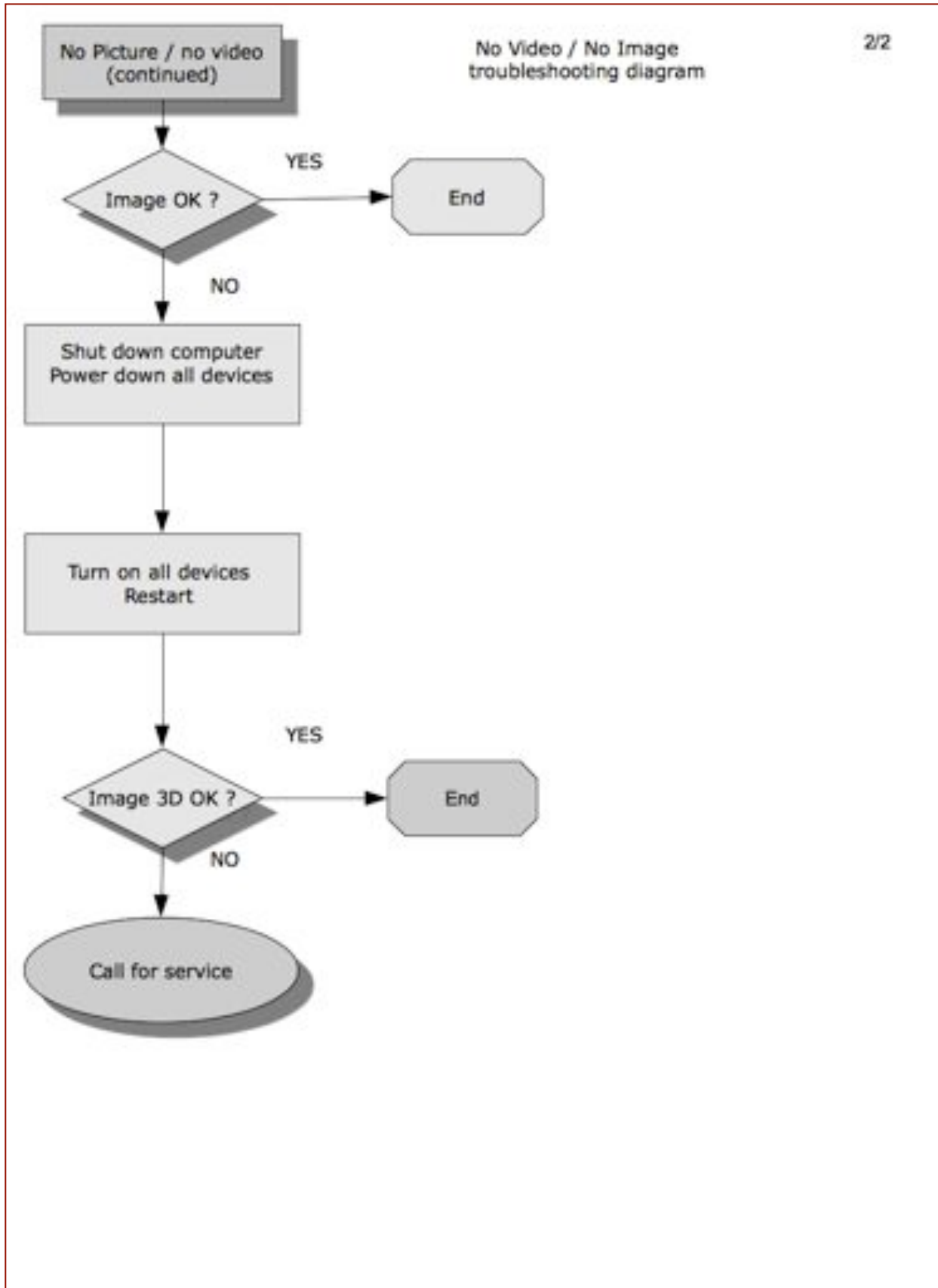
# CHAPTER 5 - TROUBLESHOOTING

## Diagram



Picture 21 – Troubleshooting Diagram

**Troubleshooting (continued)**



**Picture 22 – Troubleshooting Diagram (continued)**

## Problem/Solution Table

If you encounter problems, follow the common causes and solutions listed in the following table.


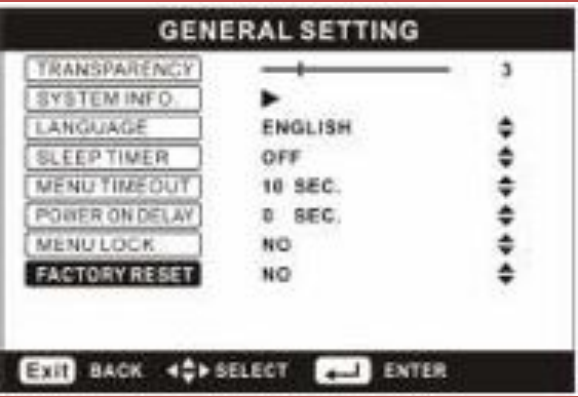

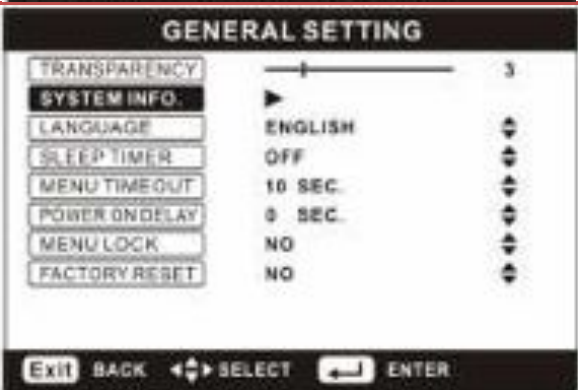
Problem	Cause	Solution
<b>Power indicator on the display is neither blue nor orange</b>	Main power switch is in the OFF position, display was shut down with the remote control and/or power cord is faulty or not properly plugged in the electrical outlet	<ul style="list-style-type: none"> <li>• Check that the power cord is firmly plugged into the electrical outlet and display.</li> <li>• The main AC Power Switch should be set to the ON position.</li> <li>• Press "Power" button on the Remote Control.</li> <li>• Try another power cord.</li> <li>• Try another electrical outlet.</li> </ul>
<b>Power switch is ON but screen is black or "No Signal" message is displayed</b>	DVI cable connection is faulty	<ul style="list-style-type: none"> <li>• The DVI cable should be properly connected to the display and computer.</li> <li>• Check if the DVI cable or connector are not damaged (DVI connector pins could be bent).</li> <li>• Make sure DVI cable is not too long, insufficiently shielded or subject to strong interference.</li> <li>• Try another DVI cable.</li> </ul>
	DVI cable is plugged in the wrong connector	Connect to proper DVI connector.
	Computer is in Standby mode	Cancel Standby mode.
	Black level or backlight settings are set to zero.	Use the Remote Control to review image settings.
	Dual display is not set correctly	Review graphic card settings.
	Graphic card output mode setting is outside the range of the display	Make sure that video output resolution is 1080p. See graphic card or system manual to change output display resolution.
	Computer doesn't recognize display	When the display is connected to several different computers, it might end up identifying itself inadequately. If connected to a Mac computer, preferably use the optional Mini Display Port connector instead of the HDMI output if problems occur.
	OSD settings are wrong and need to be reset	See Solution with OSD Menu section.
EDID parameter is corrupted	See OSD setup section (page 34)	


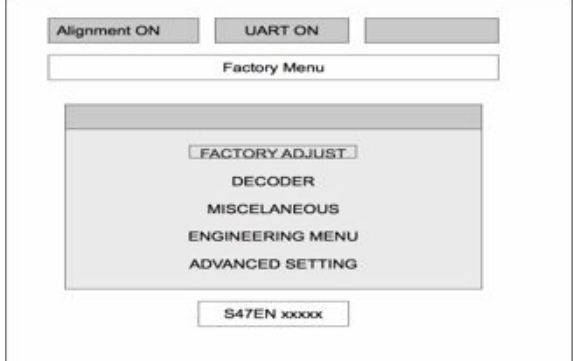

<b>Problem</b>	<b>Cause</b>	<b>Solution</b>
<b>Power indicator is flashing orange</b>	Abnormal condition has occurred.	Disconnect the main power cord from the display for 30 seconds and reconnect the display to reset the system. If problem persists, please contact your authorized dealer.
<b>Power Button is not responding</b>	Unknown	Disconnect the main power cord from the display for 30 seconds and reconnect the display to reset the system. If problem persists, please contact your authorized dealer.
<b>Image persistence</b>	Image Persistence occurs when a residual or "ghost" image remains visible on the screen.	LCD technology may produce a phenomenon known as "image persistence". Unlike CRT displays, LCD image persistence is generally reversible. Turn off display for an extended period or display a pure white image to alleviate image persistence. Avoid displaying a still image lastingly.
<b>Image is unstable or unfocused</b>	Unshielded or damaged DVI cable is used, interference occurs, cable is too long, or VGA cable is used instead.	<ul style="list-style-type: none"> <li>• A high quality shielded DVI cable or DVI signal booster should be used.</li> <li>• DVI cable should be properly plugged both to the display and computer.</li> <li>• Never use analog VGA cables.</li> </ul>
	OSD settings not correct	Use the OSD screen controls to adjust display settings. When display mode is changed or reset, OSD Image settings may need to be readjusted. Refer to page 28 for recommended settings.
	Inadequate graphic card settings. If you can read small text on the desktop, it is an indication that the resolution might be wrong.	<ul style="list-style-type: none"> <li>• Video output resolution must be 1080p and not 1080i.</li> <li>• Refresh rate must be 60Hz.</li> <li>• Update OpenGL drivers.</li> <li>• Disable triple buffering.</li> <li>• Turn on Refresh Synchronization.</li> </ul> See Aliomovie Reference Guide for further instructions.

<b>Problem</b>	<b>Cause</b>	<b>Solution</b>
<b>Strong colour dominance</b>	DVI connector issue	Check if DVI connector is firmly plugged in.
<b>Display image is not sized properly</b>	Improper OSD or graphic card settings	<ul style="list-style-type: none"> <li>• Use OSD controls to adjust screen setting.</li> <li>• Make sure that display mode has been set to 1080p.</li> </ul>
<b>Display works in 3D but coloured flakes smear the image</b>	DVI cable connection is faulty	<ul style="list-style-type: none"> <li>• The DVI cable should be properly connected to the display and computer.</li> <li>• Check if the DVI cable or connector are not damaged (DVI connector pins could be bent).</li> <li>• Make sure DVI cable is not too long, insufficiently shielded or subject to strong interference.</li> <li>• Try another DVI cable.</li> </ul>
	DVI input hardware malfunction	Please contact your authorized dealer.
<b>Remote Control is not working</b>	Battery problem	<ul style="list-style-type: none"> <li>• Test the Remote Control's battery for strength/life.</li> <li>• Check if the battery is inserted correctly.</li> </ul>
	Not pointed within correct operation range	<ul style="list-style-type: none"> <li>• Check if the Remote Control is pointed at display's remote sensor and within operating range.</li> <li>• The remote control may not function properly when direct sunlight or strong illumination strikes the remote control sensor of the display, or when there is an object in the way.</li> </ul>

## Fixing Problem with OSD Menu

Wireless Remote Control is required to operate.

<p><b>Black screen</b></p>	<p>Use Factory Reset to solve this problem</p> <p><b>Step 1:</b> Choose General Setting on OSD</p>	
	<p><b>Step 2:</b></p> <ul style="list-style-type: none"> <li>• Choose Factory Reset</li> <li>• Change to yes</li> <li>• Press Enter</li> </ul>	
<p><b>No signal</b></p>	<p><b>Step 1:</b> Choose General Setting on OSD</p>	
	<p><b>Step 2:</b> Choose System Info.</p>	

	<p><b>Step 3:</b> While in System Info., press the following arrow key sequence:</p> <ul style="list-style-type: none"> <li>• DOWN</li> <li>• RIGHT</li> <li>• RIGHT</li> <li>• UP</li> </ul> <p>You will enter a hidden factory menu.</p>	
	<p><b>Step 4:</b> Select Factory Adjust</p>	
	<p><b>Step 5:</b></p> <ul style="list-style-type: none"> <li>• Select EEPROM Initial.</li> <li>• Change to YES</li> <li>• Press Enter.</li> <li>• Wait for 5 seconds for EEPROM to reinitialize.</li> <li>• Press Exit to quit.</li> </ul>	

## CHAPTER 6 - ALIOSCOPY MIX AND PLAY SUITE





### Mix and Play Suite®

Mix and Play Suite® is a cross-platform software suite offering improved mixing, compression and playback on Alioscopy 3D displays.

The heart of the suite is called **aliomovie**. It is designed to mix content originating from different sources in a proprietary image format, and optionally to compress the resulting output. Aliomovie also enhances playback by interpolating intermediate frames between every image and doubling the display rate. This cutting edge software sets a new quality standard for auto-stereoscopic content.

Aliomovie is primarily a standalone line command executable that requires to be run from a command shell, using the Command-line interface on Windows run computers or the Terminal Shell with MacOS. Thanks to this open architecture, many third party applications, like Content Management Software for instance, can take full control over the program.

A set of three utilities, bundled with Aliomovie, spare users from typing line commands. Most common tasks can be carried out seamlessly, using the following programs:

Program	Icon	Windows	MAC OS X	Linux
Aliomovie		✓	✓	✓
Mix & Play Assistant		✓	✓	
Play Assistant		✓	✓	
Runtime		✓	✓	

Parameters required by Aliomovie are saved in simple script files with **.mix** and **.play** extensions.

.mix files can be created quite easily using Mix and Play Assistant®. They can also be edited with a text editor, in order to set advanced options manually, like cropping or outputting different image sizes. Please refer to "Understanding **.mix** files" of the Mix and Play Suite® User Guide and Reference Guide for a complete description of .mix files parameters.

Files mixed with Aliomovie can be saved in five different formats (.bmp, .png, .sgi, .tga or .alm). Only files compressed by Aliomovie and saved with an .alm extension can be played back by Aliomovie. Encapsulation of multiple .alm files in a single container is not yet supported. Playing a clip therefore requires reading series of individual .alm files, according to the specifications of a .play file.

Both Mix and Play Assistant and Play Assistant® can create .play files. They can also be edited with a text editor. Please refer to "Understanding .play files" of the User Guide and to the Reference Guide for a complete description of .play files parameters.

In addition to Alioscopy Mix and Play Suite, other utilities are available to assist users in managing playlists or showcasing content. Please contact Alioscopy for further information.

### Software Download

Alioscopy Mix and Play Suite® and documentations (User Guide and Reference Guide) can be downloaded from [www.alioscopy.eu](http://www.alioscopy.eu). You must sign in to access the download page. Proceed to the **Resources** menu to access the **Sign In** page.

## **CHAPTER 7 - WARRANTY FAQ**

The one-year Alioscopy warranty will be valid upon online registration of your display at [www.alioscopy.com/registration](http://www.alioscopy.com/registration)

### **What is covered by warranty?**

This warranty covers any defects in materials or workmanship in your new Alioscopy 3D display, with the following exceptions and those stated below: Damage to the 3D display that is caused by accident, misuse, abuse, negligence, alteration, an act of God, or unauthorized repair of the 3D display is not covered by this warranty.

In addition, this warranty does not cover damage due to:

- (1) Improper or incorrectly performed installation, set-up adjustments, operation, repair or maintenance;
- (2) Power surges, connection to incorrect voltage, or combination with incompatible components or accessories;
- (3) Repairs performed by anyone other than a service facility specifically authorized by Alioscopy.
- (4) Mishandling of the optical component, improper or incorrect cleaning, scratching or sticking causing optical degradations.
- (5) Improper or incorrect storage condition.

### **How long is the coverage?**

This warranty runs for a period of one (1) year from the original date of purchase. AFTER THE EXPIRATION OF THE WARRANTY PERIOD, YOU WILL BE CHARGED FOR LABOR AND PARTS ON ANY REPAIR SERVICES. Coverage is limited to first purchasers only and terminates if you sell or otherwise transfer the 3D display.

### **Who will repair defects?**

Alioscopy or its authorized reseller will repair any defect in materials or workmanship in the 3D display, or at its sole discretion, will replace the defective 3D display. During the one (1) year warranty period, Alioscopy or its authorized reseller will supply new or refurbished replacement parts in exchange for defective parts and/or will repair the defective 3D display without charge to you for labour or parts.

### **How do I get service?**

In order to be eligible for service under this warranty, you MUST be the original purchaser of the Alioscopy 3D display with the original factory serial number. If the factory serial number of your 3D display is removed, altered or misplaced, this warranty will not apply.

If, after following all instructions in the 3D Display's User's Manual, you find that service is needed, you will be required to contact Alioscopy Offices listed in the User's Manual or the authorized dealer where you purchased your display. You will be asked to submit a sales receipt, invoice, or other proof of purchase from Alioscopy or an authorized dealer specifying the original date of purchase.

You must deliver the defective 3D display to the Service Centre, with freight/transportation costs prepaid by you, in either its original packaging or in a packaging providing an equal degree of protection.

### **If the display is defective, how should it be sent back?**

The customer is responsible for all freight costs associated with shipping the defective 3D display to Alioscopy's or an authorized reseller's Service Centre.

Alioscopy will not be responsible for damage to any returned 3D display that occurs during shipping from you to the Service Centre.

Alioscopy will pay for freight costs associated with shipping the repaired or replaced 3D display back to you.

### **Consequential and incidental damages**

Consequential and incidental damages are not recoverable under this warranty. Except for the express warranties set forth above under this warranty, Alioscopy is making no other warranties of any kind, express, implied or otherwise, with respect to the 3D display, and Alioscopy specifically disclaims any implied warranties of merchantability or fitness for a particular purpose. Some states do not allow the exclusion of implied warranties or the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

## **CHAPTER 8 - REFERENCES**

### **Customer Contact:**

#### **ALIOSCOPY EUROPE**

3, rue du Jourdain  
75020 Paris  
France  
Office: +33 (0)1 43 58 00 90  
Email: [info@alioscopy.eu](mailto:info@alioscopy.eu)  
[www.alioscopy.com](http://www.alioscopy.com)  
[www.alioscopy.eu](http://www.alioscopy.eu)

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Email: [info@alioscopy.sg](mailto:info@alioscopy.sg)  
[www.alioscopy.sg](http://www.alioscopy.sg)

#### **RESELLERS**

Contact your reseller for any commercial and technical issue.

## **Trademarks, Copyrights and Disclaimer**

Specifications are subject to change without notice.  
Trademarks are the property of Alioscopy S.A. or their respective owners.

## APPENDIX A

### DVI Timing Chart

Mode Name	Hor Freq. (MHz)	Video clock Freq. (KHz)	Sync. Polarity	H. total (Dots)	H. sync (Dots)	H. back. Porch. (Dots)	H. activ. (Dots)	H.front porch. (Dots)
1920x1080	66.210	134.00	..	2024	32	40	1920	32

V. Freq. (Hz)	Sync. Polarity	V. total (lines)	V. sync. (lines)	V. back porch (lines)	V. active (lines)	V. front porch (lines)
59.97	..	1104	5	17	1080	2

## APPENDIX B

### DVI Pin Assignment

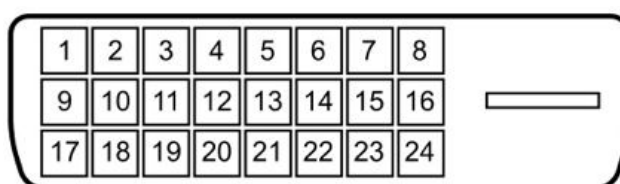
#### Connector type:

The DVI display interface connector is a digital connector conforms to DVI-D specifications.

#### Connector pin out:

The connector pin out conforms to the DVI Revision

Spec for the signal assignments as shown below:



Pin	Description	Pin	Description	Pin	Description
1	TMDS data 2	9	TMDS data 1-	17	
2	TMDS data 2+	10	TMDS data 1+	18	
3	TMDS data 2 shield	11	TMDS data 1 shield	19	
4	NC	12	NC	20	NC
5	NC	13	NC	21	NC
6	DDC Clock	14	+5v Power	22	TMDS Clock shield
7	DDC Data	15	Ground (return for +5V, HSync, and VSync)	23	TMDS Clock+
8	NC	16	Hot plug detect	24	TMDS Clock-

## APPENDIX C

### OSD Control Main menu

Main Menu	Level 1	Level 2	Level 3
Image Setting	Video Mode	Vivid-->Standard-->Cinema-->User (note1)	
	Black Level	0-100	
	Contrast	0-100	
	Colour	0-100	
	Hue	0-100	
	Sharpness	0-100	
	Backlight	0-100	
	Colour Temp	High --> Low --> Standard	
	Reset	No-->Yes	
	VGA Setting	Auto Adjustment	No --> Yes
	Clock		
	Phase		
	Image Position		
Display Setting	Main Source	Input1: Input1: Input1:  Input2: Input3:	1.DVI 2.VGA 1.Signage Player 1.DVI 1 2.DVI 2 3.HDMI 1 4.HDMI 2 1.VGA 2.CVBS 3.SVIDEO 1.Component
	PIP Source	Input1: Input1: Input1:  Input2: Input3:	1.DVI 2.VGA 1.Signage Player 1.DVI 1 2.DVI 2 3.HDMI 1 4.HDMI 2 1.VGA 2.CVBS 3.SVIDEO 1.Component
	Aspect Ratio	Fill-->Zoon-->Standard	
	PIP Mode	Off-->PIP --> PBP --> POP (note2)	
	Swap	No-->Yes	
	PIP Size	Small-->Medium-->Large	
	PIP Position	Bottom Right-->Top Left-->Top centre--> Top Right-->Center Left-->Center--> Center Right--> Bottom Left -->Bottom Center	
	Audio Source	Main-->Sub	

Main Menu	Level 1	Level 2	Level 3
Audio Setting	Bass	0 - 20	
	Treble	0 - 20	
	Balance	-10 - 10	
	Mute	Off-->On	
	Around	On-->Off	
	Reset	No-->Yes	
General Setting	Transparency	0 - 15	
	System Info	Source, Resolution, H.Frequency, V.Frequency, Soft Ver.No	
	Language	English(default),	
	Sleep Timer	Off-->30min-->60min-->120min	
	Menu Timeout	10sec-->30sec-->60sec	
	Power On Delay	0 sec ~ 50 sec	
	Menu Lock	No-->Yes	
	Over Scan	No-->Yes	
	RS232	HDMP Player(default)-->RS232 Port> OFF	
	Factory Reset	No-->Yes	
Advanced Setting	ACC	On(default) --> Off	
	ACM	On(default) --> Off	
	MPEG NR	Off(default) --> Low -->High	
	Light Sensor	Off(default) --> On	
	RGB Sensor	Off(default) --> On	
	LED Light	On(default) --> Off	
	Power Reduction	Off(default) --> 5min --> 10min	
	Still Image Orbit	Off(default) --> 5min- --> 10min	

The information in this document is subject to change without notice.  
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