

The logo for Maxedia features the word "Maxedia" in a white, serif font, centered within a blue, rounded rectangular outline that is slightly tilted. The background of the logo is black.

Maxedia

Manual

Version 2 software

Martin



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1. Packing and unpacking the Maxedia

1.1 Unpacking the Maxedia

To unpack the Maxedia:

1. Remove the top cover from the flight case.
2. Remove the front and rear flight case covers. The Maxedia can be operated without removing it from its flight case.

1.2 Packing the Maxedia

To pack the Maxedia:

1. Disconnect the console from power.
2. Disconnect any external video monitors.
3. Replace the front and rear flight case covers and then the top cover. Do not use excessive force.
4. The Maxedia can be wheeled, but for transport the flight case should be placed resting on its wooden rails.



2. Introduction

Dear Maxedia user,

Thank you for purchasing the Maxedia software.

The Maxedia software is carefully designed to match the operating system. Do not install any other software. Doing so could seriously affect performance and make it impossible for the Maxedia to operate.

Do not modify the system in any way, as this may make it impossible to provide service on the Maxedia!

The Maxedia user forum is available at <http://www.martin.com/forum>

2.1. Maxedia safety information

This product presents risks of lethal or severe injury due to electric shock. Read this manual before powering or installing the console, follow the safety precautions listed below and observe all warnings in this manual and printed on the console.

- Always ground (earth) the console electrically.
- Use only a source of AC power that complies with local building and electrical codes and has both overload and ground-fault protection.
- Do not expose the console to rain or moisture.
- Refer any service operation not described in this manual to a qualified technician.
- Do not modify the Maxedia or install other than genuine Martin parts.
- Do not lift or carry the Maxedia alone.

2.2. Included items

The Maxedia is shipped in a flight case that contains the following items:

- Power cable
- Maxedia 19" computer
- IO-Box
- 19" keyboard with touchpad
- OS DVD
- Maxedia Media Content DVDs

2.3. AC Power



For protection from electric shock, the Maxedia must be grounded (earthed). The AC mains supply must be fitted with a current overload circuit breaker or fuse and ground-fault (earth-fault) protection device.

The Maxedia accepts 100 – 240 VAC nominal, 50/60 Hz. Do not operate the Maxedia on supply voltages outside this range. The primary fuse is rated 6.3 A, 250 V slow-blow, high break capacity. Disconnect the device from power before changing the fuse. Replace the fuse only with a T 6.3 AH 250 V fuse.



No user-serviceable parts inside.

To apply power, set the power switch to the I position.

2.3.1. Power supply

The Maxedia comes with an auto-sensing, auto-ranging switch-mode power supply. Manual adjustments to the mains voltage and frequency are not necessary as the Maxedia automatically adapts.

2.3.2. Power connection



For protection from electric shock, the Maxedia must be grounded (earthed). The AC mains supply must be fitted with a fuse or current overload circuit breaker and ground-fault (earth-fault) protection.

Connect the Maxedia directly to AC power. Do not connect it to a dimmer system. Doing so may damage the system.

The Maxedia's 3 AC power output connectors provide a total of 6.3 A maximum. The voltage at these connectors is the same as the voltage applied to the AC power input connector. Use the power output connectors only to connect low-power devices such as the 19" Maxedia computer, external monitors and Ethernet switches.

2.3.3 Power cables

A power cable without a power connector is supplied. Only replace this cable with one of the following types:

- SVT, 18 AWG x 3 – 16 AWG x 3
- SJT, 18 AWG x 3 – 14 AWG x 3
- H05VV-F, 3G 0.75 – 1.5
- 4V-75, 250/440 V, 3G 0.75 – 1.0
- 227 IEC53 (RVV), 300/500 V, 3G 0.75 – 1.5



A 3-prong power plug with live, neutral and ground (earth) pins rated 250 VAC, 10 A minimum must be installed on the power cable following the plug manufacturer's instructions. Use a power plug of the approved type for your region. For example:

- USA: NEMA 5-15 A
- Europe: CEE or Schuko
- United Kingdom: UK BSI 13 A
- Denmark: SEV

The table below shows some possible pin identification schemes. If pins are not clearly identified, or if you have any doubts about proper installation, consult a qualified electrician.

Wire color	Pin	Symbol	Screw (USA)
Brown	Live	L	Yellow or brass
Blue	Neutral	N	Silver
Yellow/green	Ground	⊕	Green

2.4 Media content DVD end-user license agreement

2.4.1 Permitted use

The media files provided on the Media Content DVDs may be used on Maxedia Media Servers only. Owners of Maxedia systems may rent these files to another person, company, organization or other entity only as part of a Maxedia system.

The media files on the Media Content DVDs may be incorporated into artistic works such as live performances, films, videos, broadcasts, multimedia presentations, advertisements, World Wide Web page, presentation or print project.

The media files on the Media Content DVDs may not be used in a defamatory, scandalous, illegal, misleading, or otherwise unlawful manner and may not be used in or in conjunction with pornographic material.

For further information, please view the readme.htm file on each Media content DVD.

2.4.2 Copyright

The files included on the Media Content DVDs are trademark, property and copyright of their owners.

The media files on the Media Content DVDs may not be used, sold, licensed, reproduced, distributed as stock or effects imagery elements, made available as downloadable files or included in any other clip media/stock product, library, collection, or set of clips for distribution or resale.

We wish to thank the following media content providers for contributing their work for



use by Maxedia users:

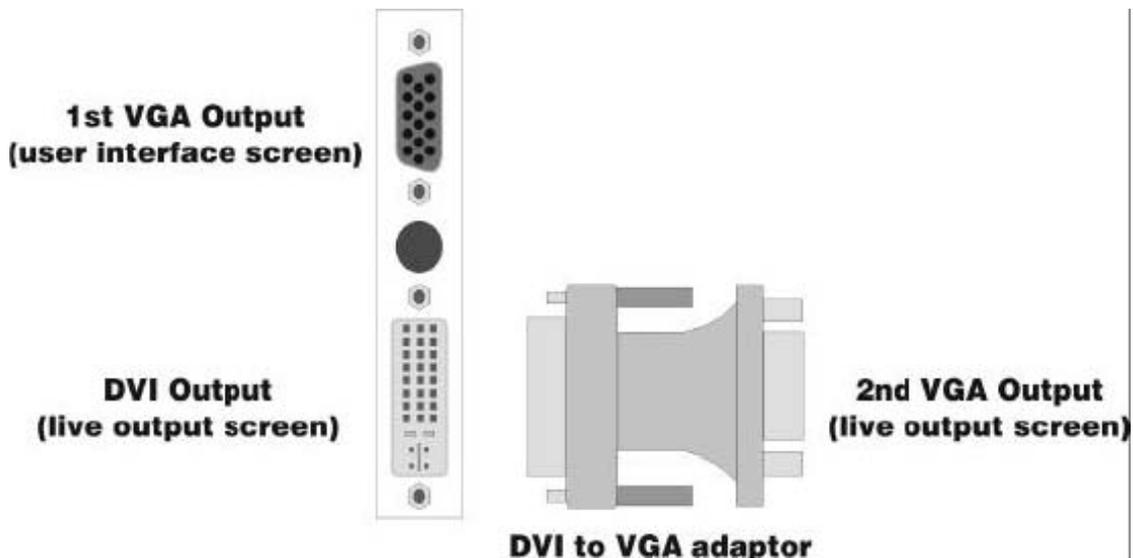
- DigiGobos <http://www.digigobos.com>
- Dean Price <http://www.maxedia.de>
- A Luna Blue <http://www.alunablue.com>
- Main Concept http://www.mainconcept.com/texture_loops.shtml
- Mode Studios <http://www.modestudios.com>
- Blue Pony Digital <http://www.blueponydigital.com>
- Sean Bridwell productions <http://www.seanbridwellproductions.com>
- Idyll Hands Imagery <http://www.idyllhandsimagery.com>

3. Connecting and starting up the Maxedia

! Always start up the Maxedia with both monitors connected.

The graphics card has two outputs. It is possible to connect a VGA monitor to the first output and a DVI monitor to the second. If required, a VGA monitor can be connected to the DVI output using a DVI-VGA adaptor.

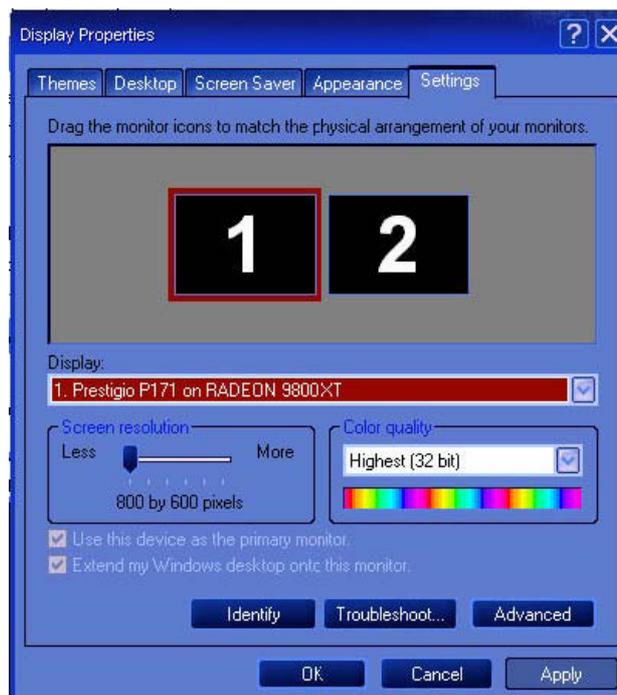
The Maxedia starts up automatically and uses the DVI output for the second monitor (live output screen). If only one monitor is connected, the system will reset all the monitor settings.



3.1. What do I do if the monitor settings have been reset?

If the monitor settings have been reset, follow the procedure described below to restore them:

1. Start up the system and make sure that both monitors are connected.
2. Close the Maxedia software.
3. Right-click on the desktop and choose **Display Properties**.
4. Select **Settings**.
5. Click the **Screen 2** button to activate it.
6. Mark the checkbox **Extend my Windows desktop on to this monitor**.
7. Click the **Apply** button.
8. Go to **Advanced** and choose **Displays**.
 - There are three possible options (see illustrations below):
 - Two VGA-monitors
 - One VGA-monitor and one DVI-monitor
 - One VGA-monitor and one TV
9. Click the **Apply** button.
10. Go to the Windows Start Menu and start up **Maxedia**.



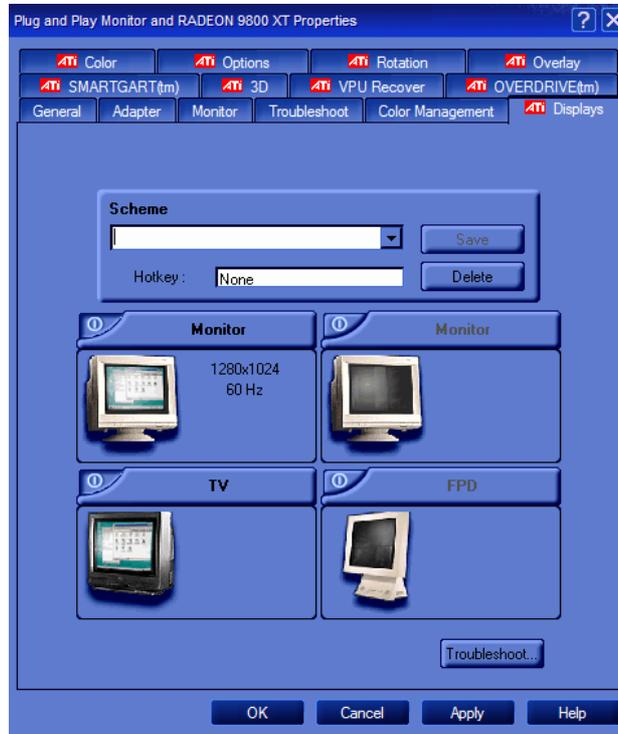
- When the two VGA monitors are connected (see illustration below):
 - a) The left monitor must be **1**.
 - b) The right monitor must be **2**.



- When one VGA monitor and one DVI monitor are connected (see illustration below):
 - a) The VGA-monitor must be **1**.
 - b) The FPD-monitor must be **2**.



- When one VGA monitor and one Composite or S-Video monitor are connected (see illustration below):
 - a) The VGA-screen must be **1**.
 - b) The TV must be **2**.





3.2. Connecting DMX devices

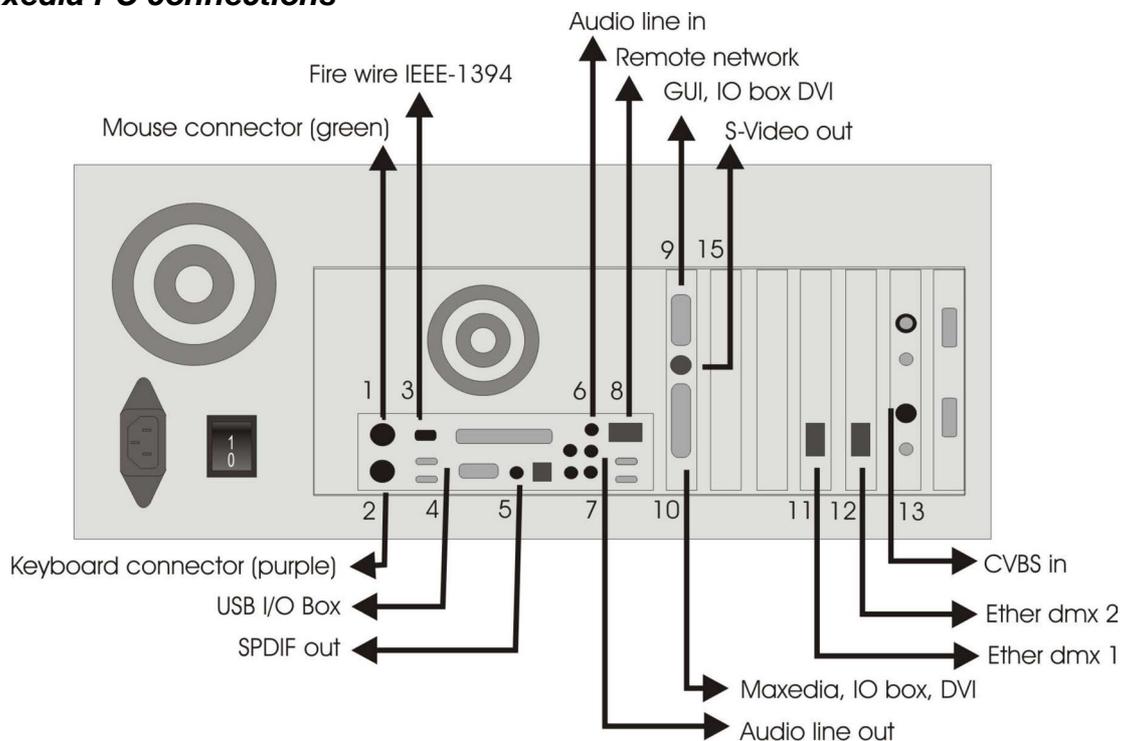
- The Maxedia has 5-pin XLR sockets for DMX input and output. The pin-out on all sockets is pin 1 to shield, pin 2 data cold/compliment (-), and pin 3 to data hot/true (+).
- Use shielded twisted-pair cable designed specially for DMX devices: standard microphone cable cannot transmit control data reliably. 24 AWG cable is suitable for runs up to 300 meters (1000 ft.) Heavier gauge cable and/or an amplifier are recommended for longer runs.
- To split the DMX link into multiple branches, use a splitter such as the Martin 4-Channel Opto-Isolated RS-485 Splitter/Amplifier. Never use a Y-cable.
- Do not overload the link. Up to 31 additional devices may be connected on any given DMX link.
- Terminate the link by installing a termination plug in the output socket of the last fixture. The termination plug, which is a male XLR plug with a 120 ohm, 0,25 watt resistor soldered between pins 2 and 3, “soaks up” the control signal so it does not reflect and cause interference. If a splitter is used, terminate each branch of the link. Please note that some fixtures and dimmers provide onboard termination and do not require an external terminator. Consult the user manual of the DMX device for details.
- Martin fixtures introduced before 1997 have reversed polarity data sockets (pin 2 + and pin 3 -). The socket polarity is labelled. Use a phase-reversing cable between the Maxedia and any device with reversed polarity.

3.3. Maxedia IO-Box connections

3.3.1. Diagram

This document describes how to connect the Maxedia with the IO-Box. All the cables needed are enclosed in the flight case.

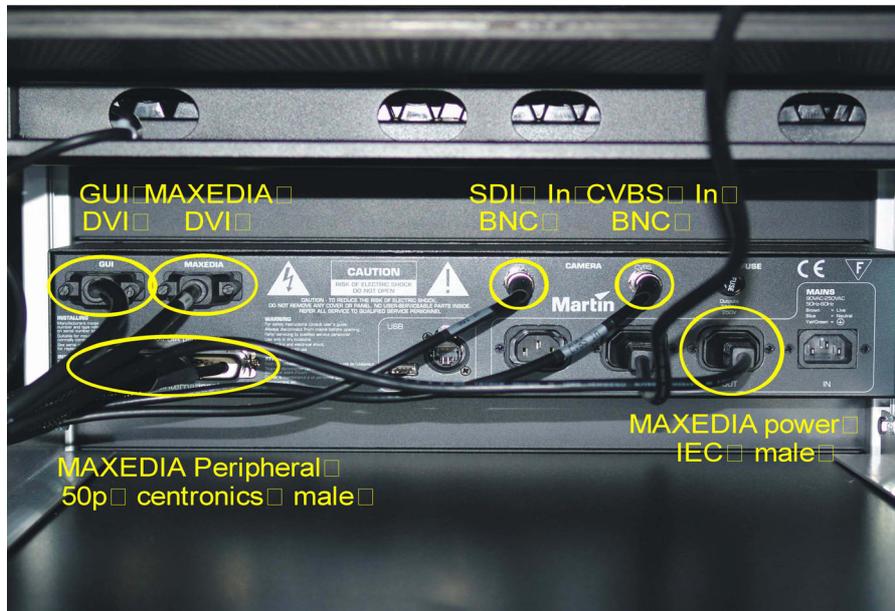
Maxedia PC connections



1. Mouse connector (Green), keyboard drawer, mini DIN6.
2. Keyboard connector (Purple), keyboard drawer, mini DIN6.
3. Fire wire IEEE1394, peripheral cable, IEEE1394 6pin female.
4. USB, peripheral cable, USBA.
5. SPDIF Out, peripheral cable, male RCA.
6. Audio line in, peripheral cable, male stereo jack.
7. Audio line out, peripheral cable, male stereo jack.
8. Remote Network, peripheral cable, RJ45.
9. GUI, IO box, DVI.
10. MAXEDIA, IO box, DVI.
11. Ether DMX1, peripheral cable, RJ45.
12. Ether DMX2, peripheral cable, RJ45.
13. CVBS In, peripheral cable, BNC.
14. S-Video out, mini DIN4.
15. SDI In, peripheral cable, BNC (not used).

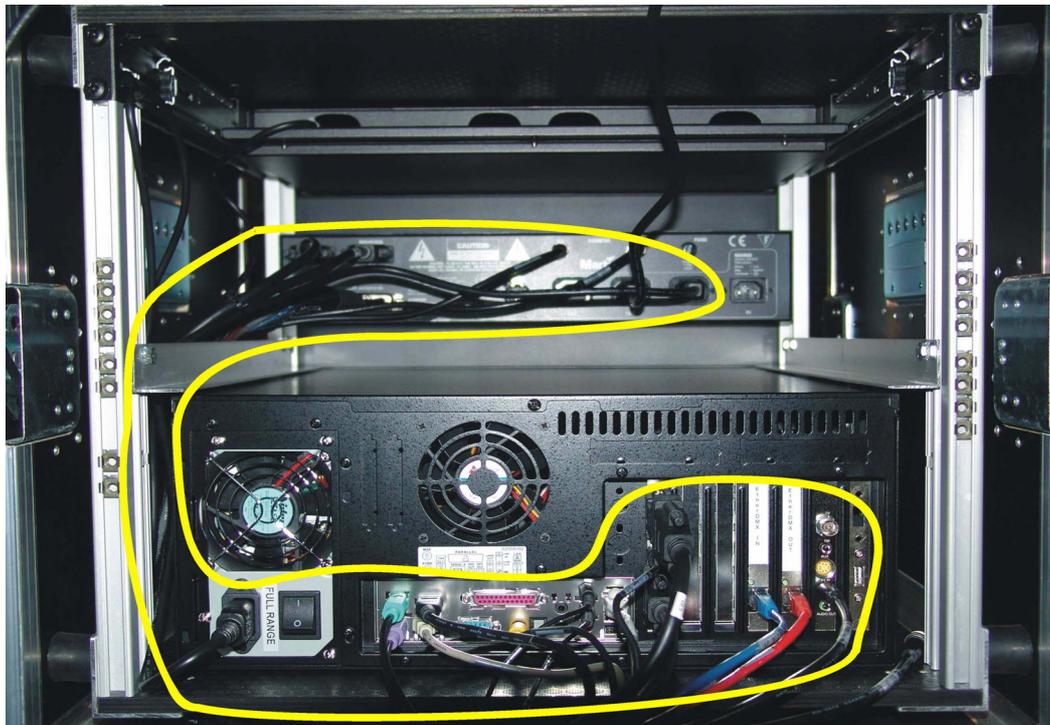
3.3.2. Actual representation

IO-Box connections



Overall cable arrangement

Standard routing for all cables is on the side of the flight case (see illustration below).



3.3.3. The different parts of the IO-Box



1. Camera Inputs:

- CVBS IN = Composite video input.
- CVBS OUT = Buffered CVBS IN signal.
- SDI IN = SDI video input.
- SDI out = Buffered SDI IN signal.

2. Maxedia

- CVBS out = Composite video output from the Maxedia Engine.*
- S-VIDEO out = S-Video output from the Maxedia Engine. *
- DVI-out = The DVI output from the Maxedia Engine.

* see section 1.1.1.

3. GUI

- DVI-out = The graphical user-interface output from the Maxedia (graphics card VGA signal).

4. Network

- IEEE-1394 = Firewire connection.
- 2x USB = 2 USB connections.

- Remote = 1 Gbit Ethernet Connection to the maxedia.
- EtherDMX IN = ArtNet DMX input Connection.
- EtherDMX OUT = Artnet DMX output Connection.

5. Sony

- RS422 = Serial interface connection.
- RS232 = Serial interface connection.

6. DMX-512

- IN = 5-pin DMX input.
- OUT = 5-pin DMX output.

7. AUDIO IN

- LEFT = left audio input signal. (XLR)
- RIGHT = right audio input signal. (XLR)



8. AUDIO OUT

SPDIF = Sony/Philips Digital Interface.

LEFT = left audio output signal. (XLR)

RIGHT = right audio output signal. (XLR)

3.3.4. The menu of the IO-Box

- The **Menu** button can be used for opening new menus and for returning to a previous menu.
- The two **arrow** buttons can be used for moving through a menu.
- The **Enter** button can be used for opening menus and executing commands.

The IO-Box-menu:

1. Test Images

- 1.1. Normal
- 1.2. Color Bar
- 1.3. Luminance Bar
- 1.4. Alignment
- 1.5. Video 1 in
- 1.6. Video 2 in

2. DMX-In

- 2.1. Set DMX-Base Address
- 2.2. Set DMX Output Adjustment Address
- 2.3. Set DMX Layer Address
- 2.4. Set Number of Layers
- 2.5. Select DMX Protocol (DMX In/Artnet)
- 2.6. DMX Base Universe
- 2.7. DMX Output Adjustment Universe
- 2.8. DMX Layer Universe
- 2.9. DMX Base Active (On/Off)
- 2.10. DMX Output Adjustment Active (On/Off)
- 2.11. DMX Layer Active (On/Off)

3. Global Settings

- 3.1. Set Boxname
- 3.2. Set Autoscroll (On/Off)

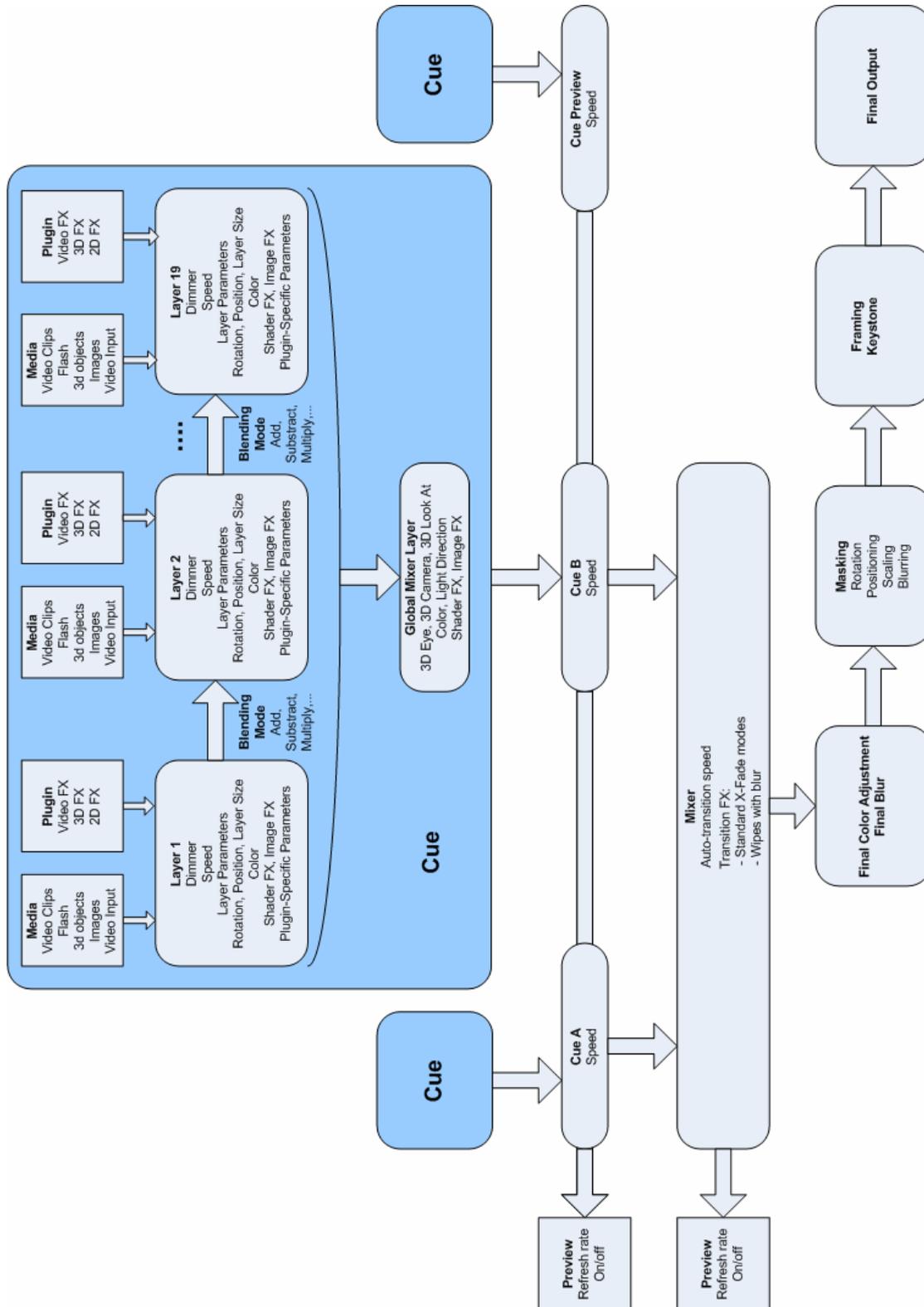
4. Defaults

- 4.1. Save Userdefault
- 4.2. Load Userdefault
- 4.3. Load MFGDefaults

5. Diagnostics

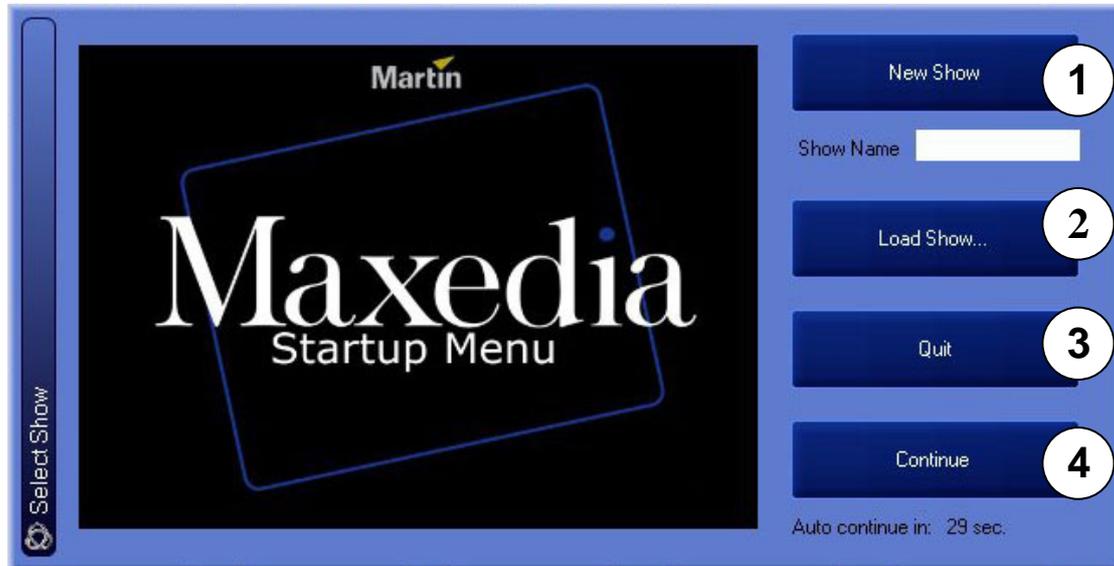
- 5.1. DMX Viewer
- 5.2. Connection Test

3.4. The internal action of Maxedia (diagram)



3.5. Opening the Maxedia software

If all connections have been made correctly, the Maxedia can be powered on. After start-up, a welcome-screen appears.



There are four possible options (see illustration above):

1. **New Show:** This option starts up a completely new blank show without any loaded cues. Do not forget to give the new show a name.
2. **Load Show...:** This option loads a stored show.
3. **Quit:** This option closes the Maxedia software down.
4. **Continue:** This option reloads the last show.

→ Click **Load Show** to continue and open the **Martinmaxediashow.mxshow** file. The location of this file is
c:\programfiles\martin\maxedia2\martinmaxediashow.mxshow

3.6. Structure of the Graphical User Interface



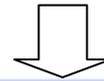
The Maxedia's Graphical User Interface (GUI) consists of three main parts (see illustration above):

1. **Screen Selector:** This bar represents the different pages which can be displayed.
2. **Action field:** Here most of the action takes place: all cues are made, media are imported and manipulated and the shows are created.
3. **Command Bar:** This bar represents all standard commands:
 1. **Record:** Storing items
 2. **Copy:** Make a copy of items
 3. **Move:** Change location of items
 4. **Delete:** Remove items
 5. **Edit:** Add items
 6. **Clear:** Undo a command
 7. **Enter:** Execute a command
 8. **Config:** Display the configuration screen
 9. **Medialibrary:** Display the media library
 10. **Quit:** Close down Maxedia

4. Tutorials

4.1. Representing cues

Click the **Output Mixer** button in the **Screen Selector-bar**.



This is the **Output Mixer** screen:



Before a cue can be played back, it must be selected from the **cue selection list**. Only selected cues (cues in a **yellow frame**) will be visible on the Output screen.

4.2. Clearing cues

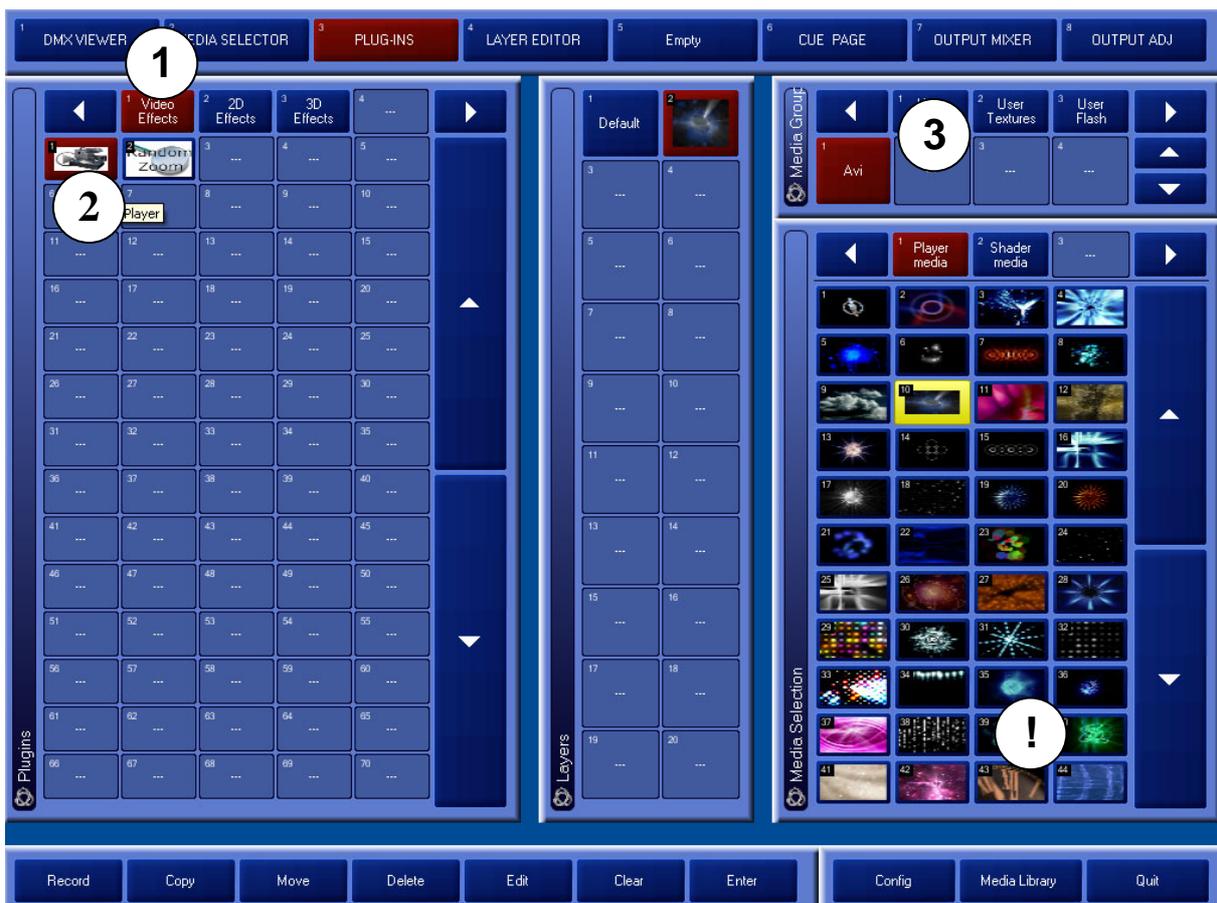
The selected cues can easily be deleted by clicking the **Clear Programmer** button in the **Layer Editor** (see drawing below).

4.3. Making cues

Cues can be made with **plug-ins** by following this procedure (see illustration below):

1. Click the **Video Effects** button.
2. Double click the **Video Plug-in** icon. The **plug-in** will be loaded.
3. Click on a **video file**.
 - a) **Media Groups:** group and directory can be selected.
 - b) **Media Selection:** items can be selected.

The first cue is produced and will appear on the Output screen.

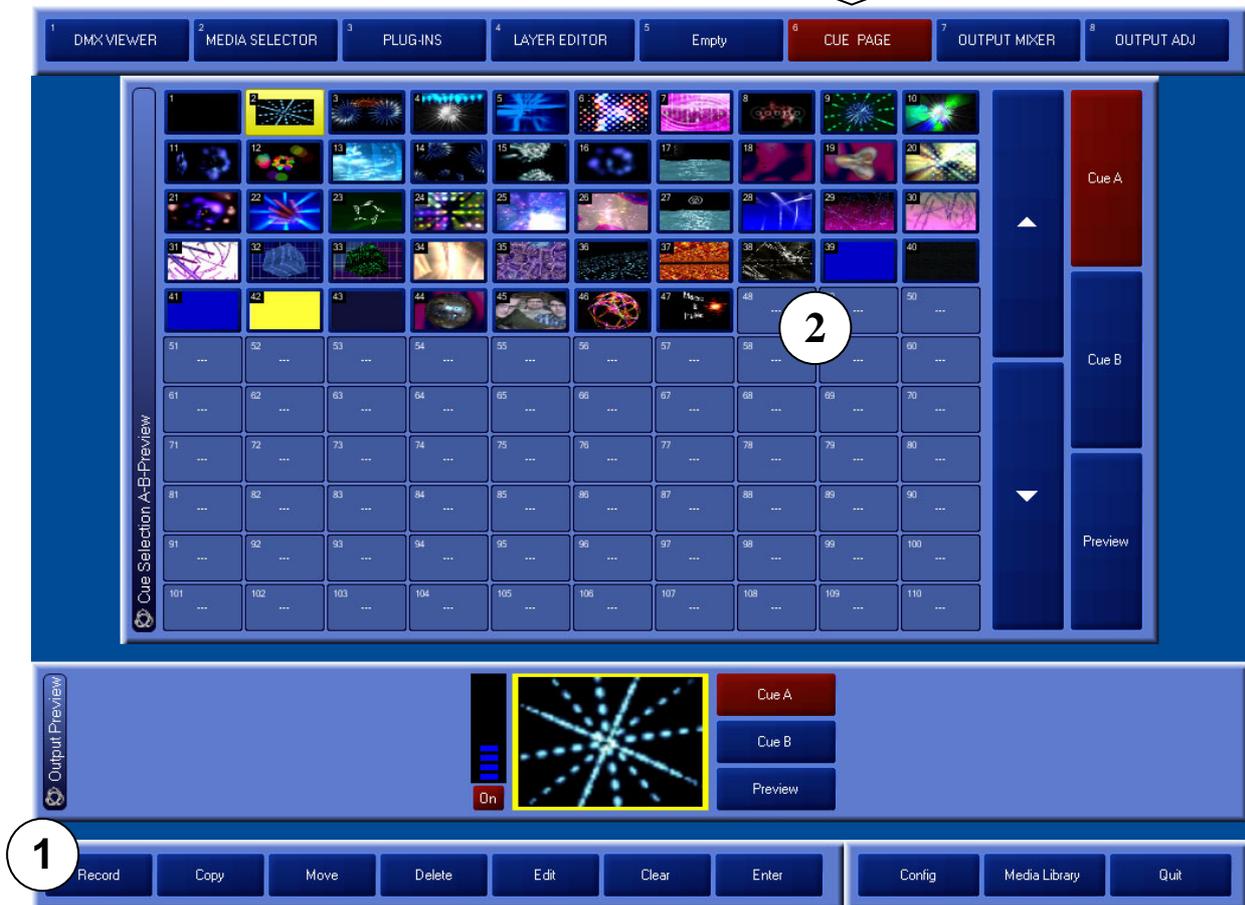
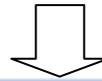


! It is possible to load 20 plug-ins in a cue. Repeat steps 2 to 4 to load plug-ins.

! Making cues is also possible by using the **Plug-in** button in the **Screen Selector**. Follow the four steps above in this case also.

4.4. Recording cues

Choose **Cue Page** in the **Screen Selector**.



Follow the procedure mentioned below (see illustration above):

1. Click the **Record** button.
2. Click in an **empty box**.

The cue is now recorded.

4.5. Adapting cues

Choose *Layer Editor* in the *Screen Selector*.



This is the *Layer Editor* screen:



This screen offers the possibility of fine tuning and improving cues.

The Layer Editor-screen contains 6 different panels (see illustration above):

1. **Plug-in:** plug-ins are selected.
2. **Media Group:** media type and the group are selected.
3. **Media Selection:** media are selected.
4. **Layers:** The internal representation of a cue (one cue consists of 20 layers)
5. **DMX Enable/Disable:** Adjust the DMX access to control this board from the lighting panel.
6. **Layer Parameters:** The fine tuning of each layer and the possibility of adjusting parameters such as 3D movement, 3D rotation, blending, color and effects.

4.5.1. Changing cue media

Choose **Layer Editor** in the **Screen Selector**.



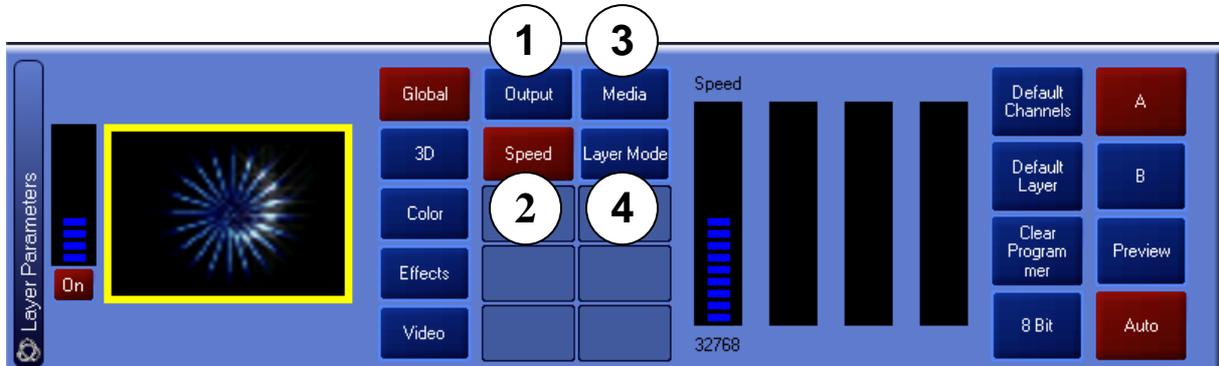
! Use the **Media Library** to add or delete media (at the bottom right in the Command bar. See section 2.8.).

Change cue media in two steps (see illustration above):

1. Select the layer or create the layer (see section 2.3.)
2. Select the media. The following media are now available:
 - **Media Groups:** group and directory can be selected.
 - **Media Selection:** items can be selected.

4.5.2. Adjusting parameters

4.5.2.1. Global



1. **Output:**

- Dimmer
- Layer on/off
- Layer Buffer on/off
- Camera Lock on/off

2. **Speed:** Here the speed can be adjusted.

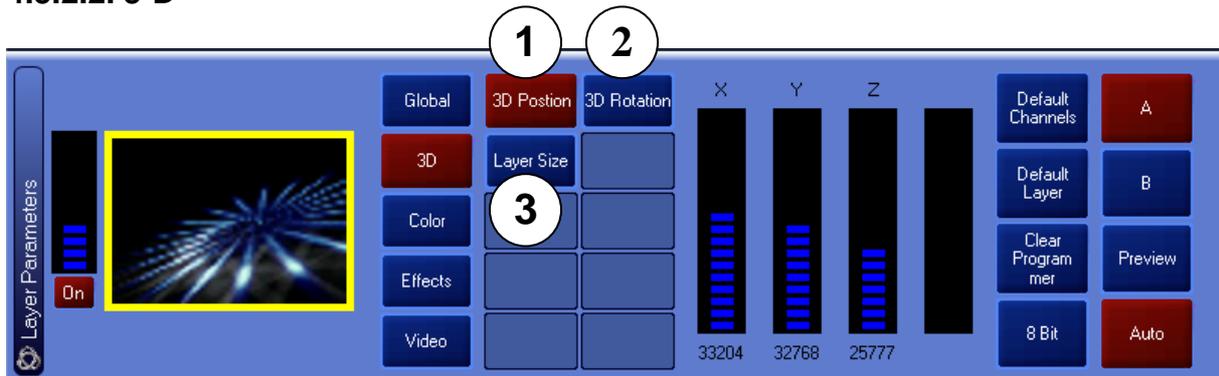
3. **Media:**

- Group
- Subgroup
- Item
- Output: layers can be added, subtracted and multiplied (eg. Taking the maximum of both layers, taking the minimum of both layers, making black transparent, making black transparent). Always select the last layer and then apply the operation.

4. **Layer Mode:** Advanced layer modes

! Click the **Default Channels-button** to put the original parameter values back.

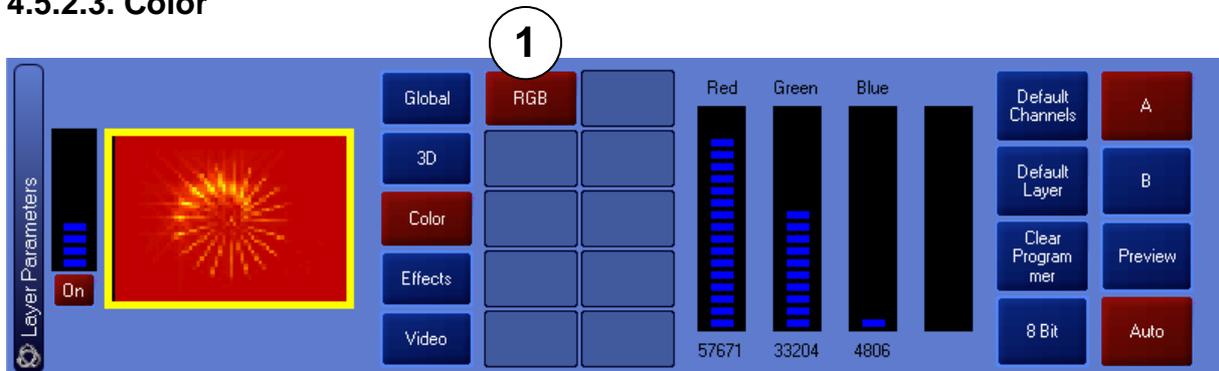
4.5.2.2. 3-D



1. **3D Position:** Determine the position by using the X-, Y- and Z-bars.
2. **3D Rotation:** Determine the rotation by using the X-, Y- and Z-bars.
3. **3D Layer Size:** Determine the layer size by using the X-, Y-, Z-bars and Aspect Ratio.

! Click the **Default Channels-button** to put the original parameter values back.

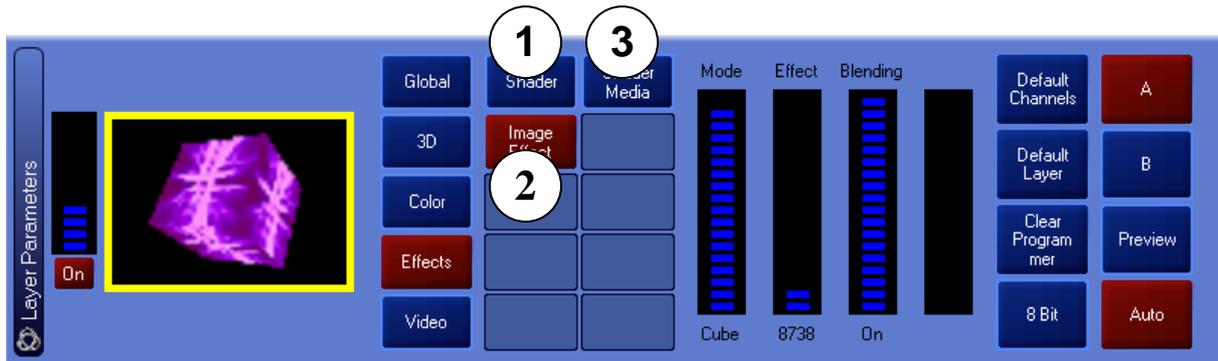
4.5.2.3. Color



1. **RGB:** Determine the color by using the **Red-, Green-** and **Blue-bars**. It is possible to add or subtract the color depending on the position of the bar.

! Click the **Default Channels-button** to restore the original parameter values.

4.5.2.4. Effects



1. **Shader Effects:**

- Reverse: Inverts color values (first bar only).
- Greyscaling: Turns the screen into black and white (first bar only).
- Edge: Makes edges visible (first bar only).
- R-edge: Applies Reverse and Edge at the same time (first bar only).
- Postarization: Appllies postarization (first bar only)
- Separate Shift: Shifts colors (first bar only).
- Separate Rotation: Shifts and rotates colors (first bar only).
- Gaussian Blur: Blurs the video (first bar only).
- Zoom (Shine-effect): Allows zooming along the three axes (first three bars only).
- Replace: Replaces colors (first bar only).
- Glare: Creates a glow (first two bars for amount of glow and fine tuning).
- R-glare: Creates reverse glow (first two bars for amount of glow and fine tuning).

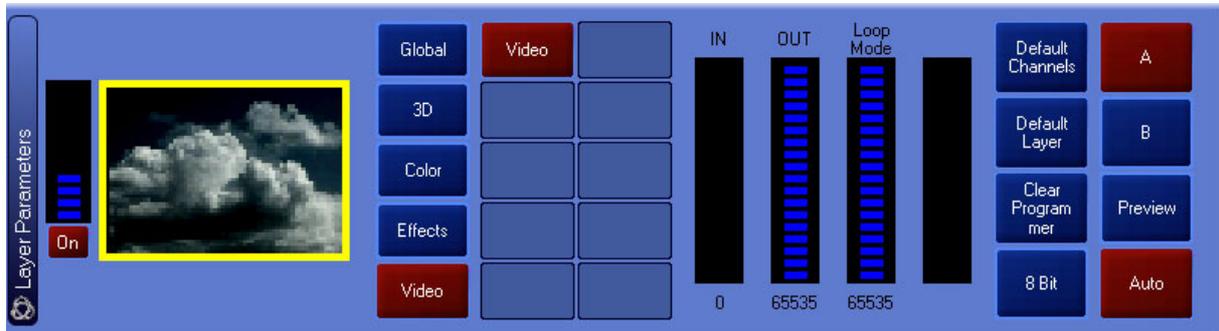
2. **Image effects:**

- Tile: Adjusts screen division or tiling.
- Dot: Transforms image into small dots.
- Mosaic: Transforms the image into a mosaic.
- Mirror: Reverses the image (the X-axis, Y-axis and both at the same time).
- Oil Paint: Applies an oil painting-texture.
- Ring: Transforms the image into a ring-shaped form.
- Cube: Transforms the image into a cube-shaped form.
- Cube Vision: Applies Cube and Tile effects at the same time.

3. **Shader Media:** Generates a mask to apply the Shader (black and white equal both at 100%).

! Click the **Default Channels** button to restore original parameter values.

4.5.2.5. Video



This differs depending on the plug-in used (see Appendix A).

! *Default Layer* makes it possible to apply all the **Defaults** the same time. All parameters and media will be returned to their original values.

! *By using 8 Bit-16 Bit* all parameters can be set with precision.

4.6. Mixing cues

The Maxedia software mixes cues from A to B and back.

Choose **Output Mixer** in the **Screen Selector**.



This is the **Output Mixer** screen:



The **Output Mixer** screen contains five different panels (see illustration above):

1. **Cue Selection A:** Load a cue by clicking on it.
2. **Cue Selection B:** Load a cue by clicking on it.
3. **DMX Enable/Disable:** Gives the DMX console access to the parameters on this screen.
4. **Transitions:** Allows selection of different kinds of transition.
5. **Output:** Allows adjustment of transition parameters, output monitor display or switching between one cue and another (manually or automatically).

4.6.1. Mixing cues in 4 steps

If the function of each panel in the **Output Mixer** screen is clear, then the mixing of the cues can start:

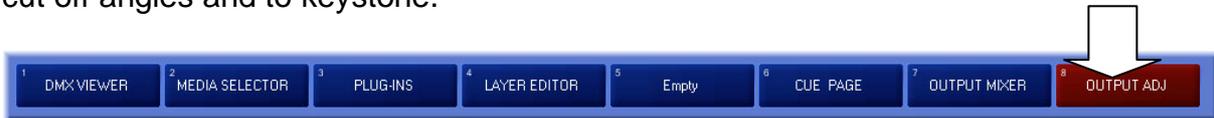
1. Select a cue in **A**.
2. Select a cue in **B**.
3. Choose the desired transition
 - Either via the **Transition Page**
 - Either via the **Wipe Page** (Wipe regulates the transition on the basis of greyscales. Wipe can be set precisely by using the **Blur Parameter**.)
4. Clicking the **Go** button starts the transition from A to B or from B to A.



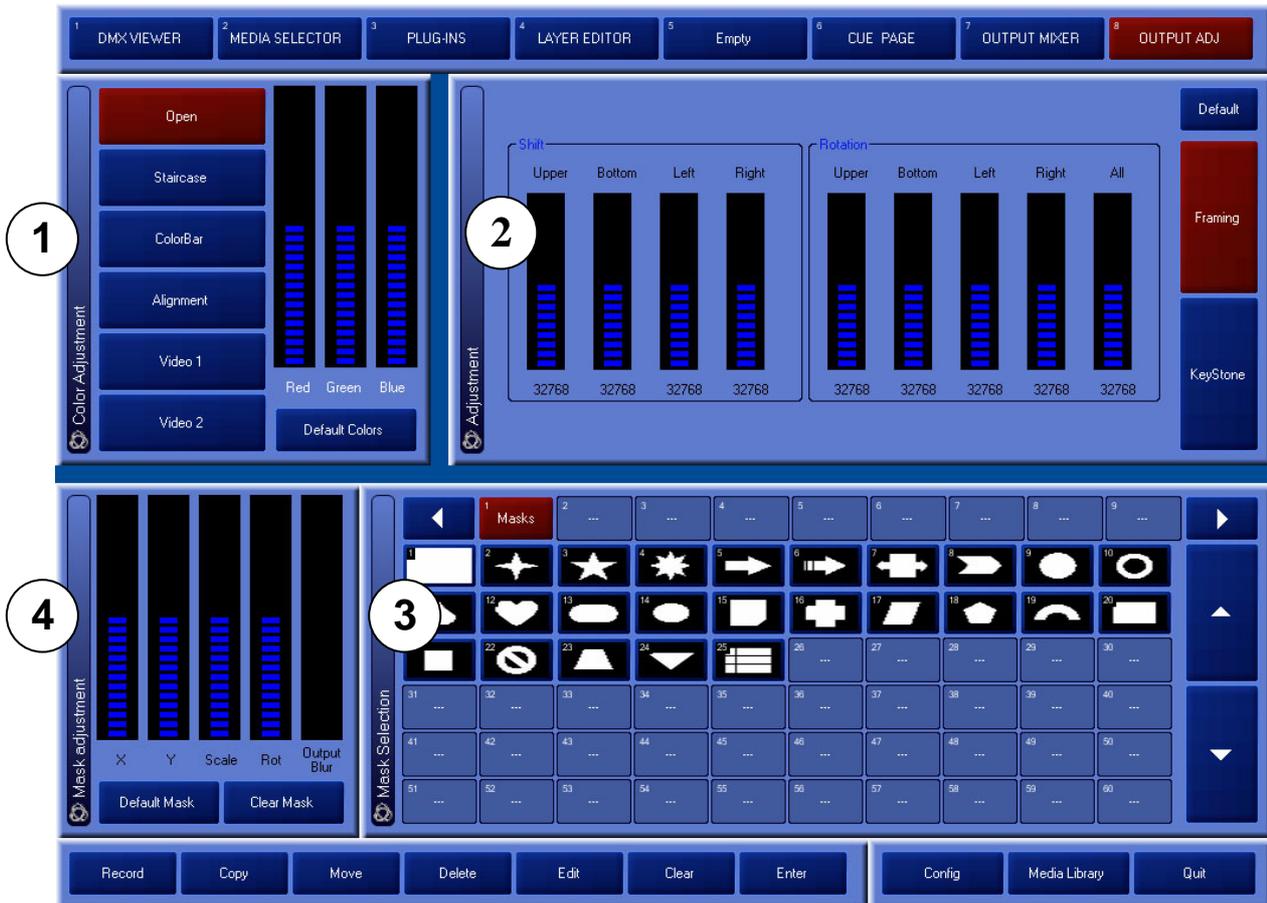
4.7. Adjusting the Output Monitor

Choose **Output Adj** in the **Screen Selector**.

This option makes it possible to change the colour (to add or to subtract colour), to cut off angles and to keystone.



This is the **Output Adj-screen**:



1. **Color Adjustment:** Allows adjustment of output colors. Also allows different types of test cards to be displayed to calibrate the screen or beamer.
2. **Adjustment:** Allows adjustment of size, rotation and keystone of the output.
3. **Mask Selection:** Selects the type of mask that will be used.
4. **Mask Adjustment:** Adjusts the desired mask.



The **Media Library-screen** contains 4 parts:

1. **Viewer:** Allows browsing through the Maxedia's physical discs. USB memory sticks can also be used. These sticks will be detected automatically.
2. This area allows the information stored on the discs to be loaded internally.
3. **Groups:** Allows selection of different types of media.
The media that are recognized by the Maxedia software will be divided into seven groups. The first five groups are visible at the bottom left of the screen.

! *These toolbars function as filters for the Viewer.*

Example 1: *To load Textures, the Texture group must be clicked first. Then a Texture file can be selected.*

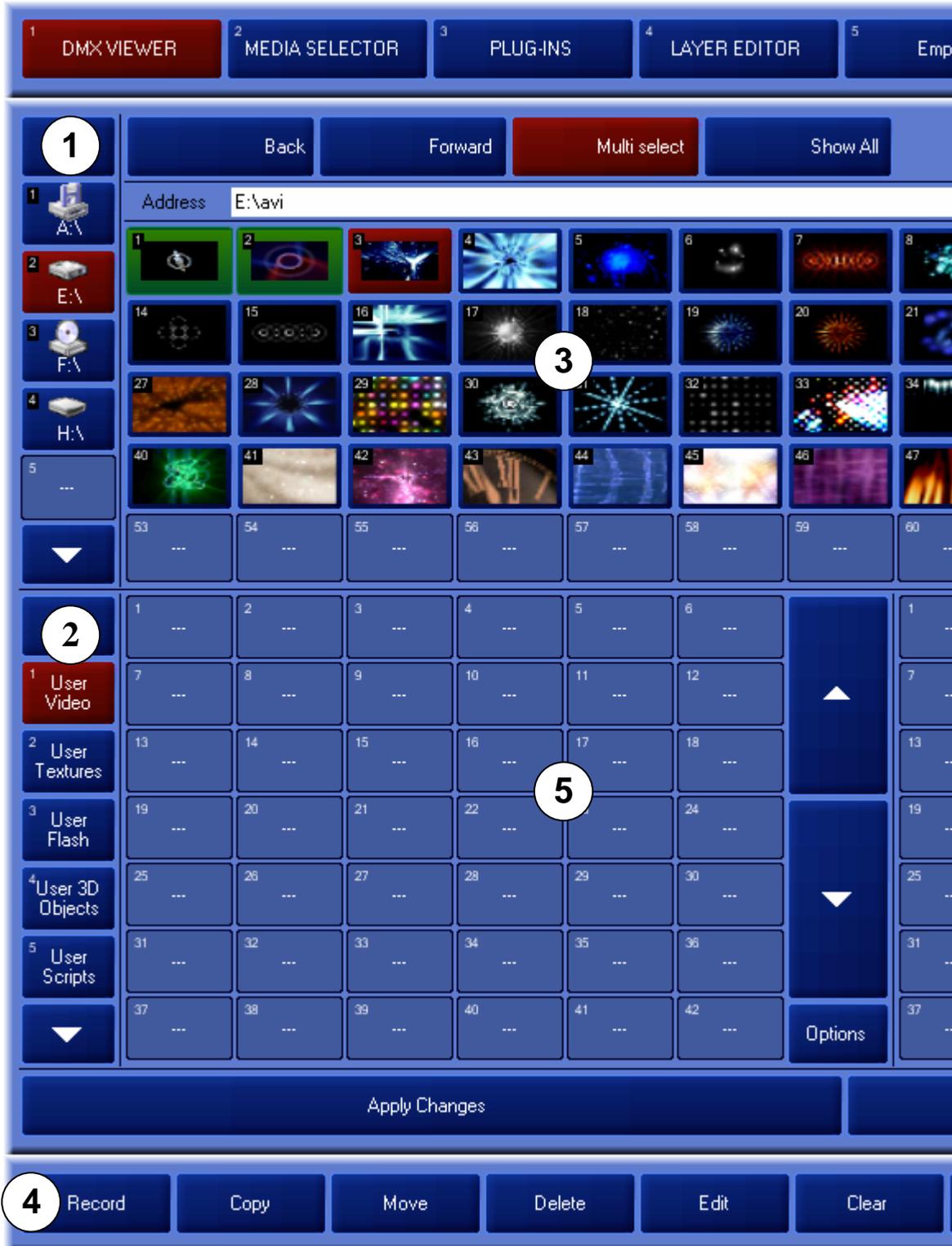
Example 2: *To load video clips from a disc, the Video group must be clicked first. Then a Video file can be selected.*

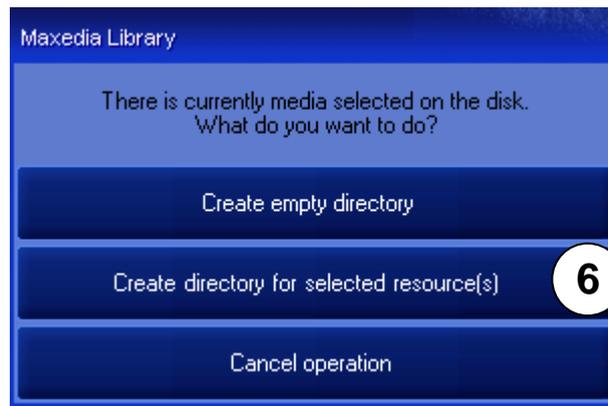
4. **Subgroups:** Here the subdivisions of the types of media can be browsed through.
5. **Items:** Here the media files of each subgroup can be browsed through.

! *The process of importing media is faster if no cues or programs are activated.*

4.8.1. Importing media in four steps

Choose **Media Library** in the **Command bar**.

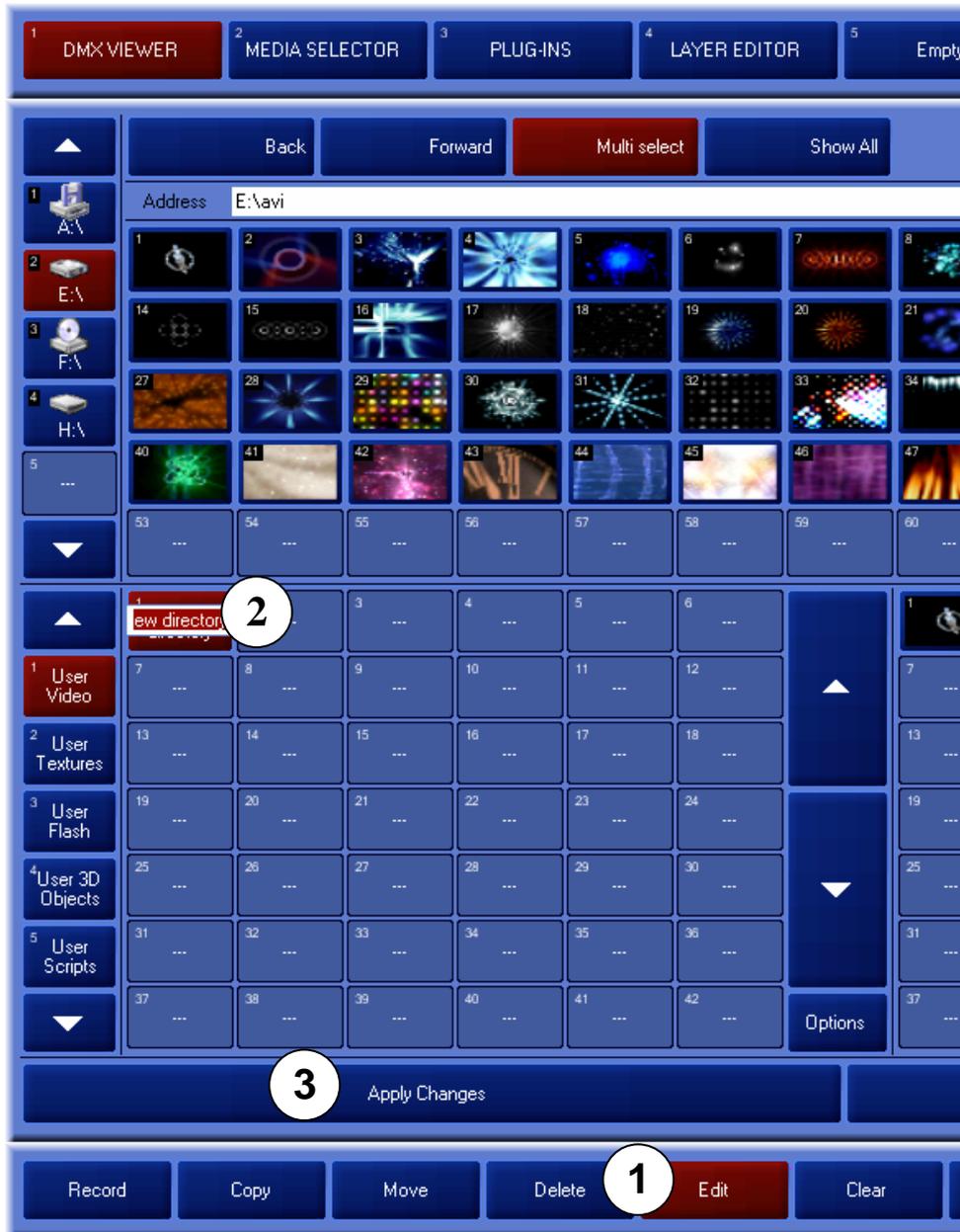




1. Select the drive which contains the desired media.
2. Select the media type.
3. Select the desired media.
4. Click the **Record** button in the **Command bar**.
5. Click on an empty box in the left panel below the media (The panel with the AVI-folder).
6. Click the **Create directory for selected resource(s)** button to confirm.

! *It is possible to select more than one item at a time by double-clicking on the first item and clicking once on the last item. All items in between will be selected.*

Now the show contains a folder with your own media. To give this folder a new name:



1. Click the **Edit** button in the **Command bar**.
2. Click the desired folder and fill in a new name.
3. To make sure the show contains the new media, you have to click the **Apply Changes** button. The Maxedia will load all the new media to the hard drive, where the show is stored.



4.9. The DMX Viewer

The **DMX Viewer** is a special screen within Maxedia. It is generated by clicking the **Screen Selector** button.



This is the **DMX Viewer** screen:

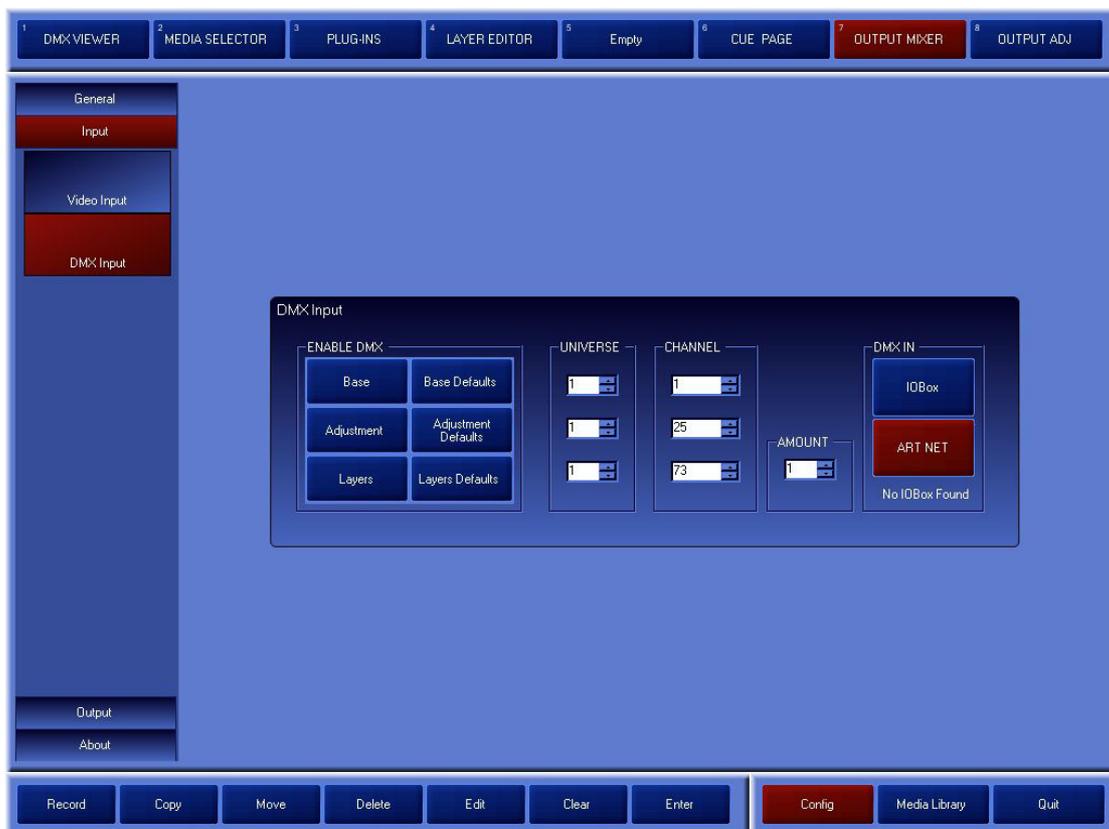


This special screen allows the user to constantly monitor all the commands sent from the DMX to the Maxedia.

The **DMX-viewer** screen contains two panels:

- **DMX:** This panel gives an overview of all the DMX values used.
- **DMX Base/Adjustment/Layers** and **DMX Base/Adjustment/Layers Defaults:** These panels are used to accept or reject DMX commands. The Defaults will restore the original values.

! When DMX is accepted without a DMX signal entering, the output will remain black. To repair it the Default buttons can be used.



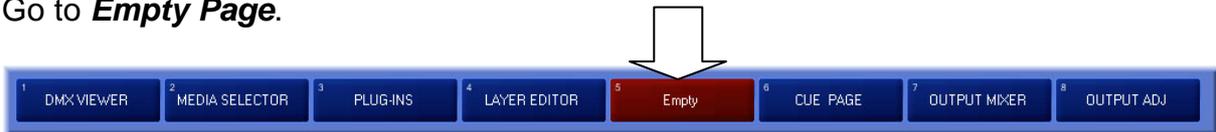
1. **DMX Input** can be used to adjust the DMX universes and channels by which the Maxedia communicates with the lighting table. The communication from the DMX to the Maxedia can be checked using the **DMX Viewer** screen.
2. This is also possible via the IO-Box. Settings can be adjusted by the IO-box (see appendix C).

! Maxedia is not always synchronised with the IO-Box. All changes in the Maxedia software will be visible in the IO-Box and vice versa.

4.10. Determining the layout

The Maxedia can be customized to make it more user-friendly. You can create your own main screens.

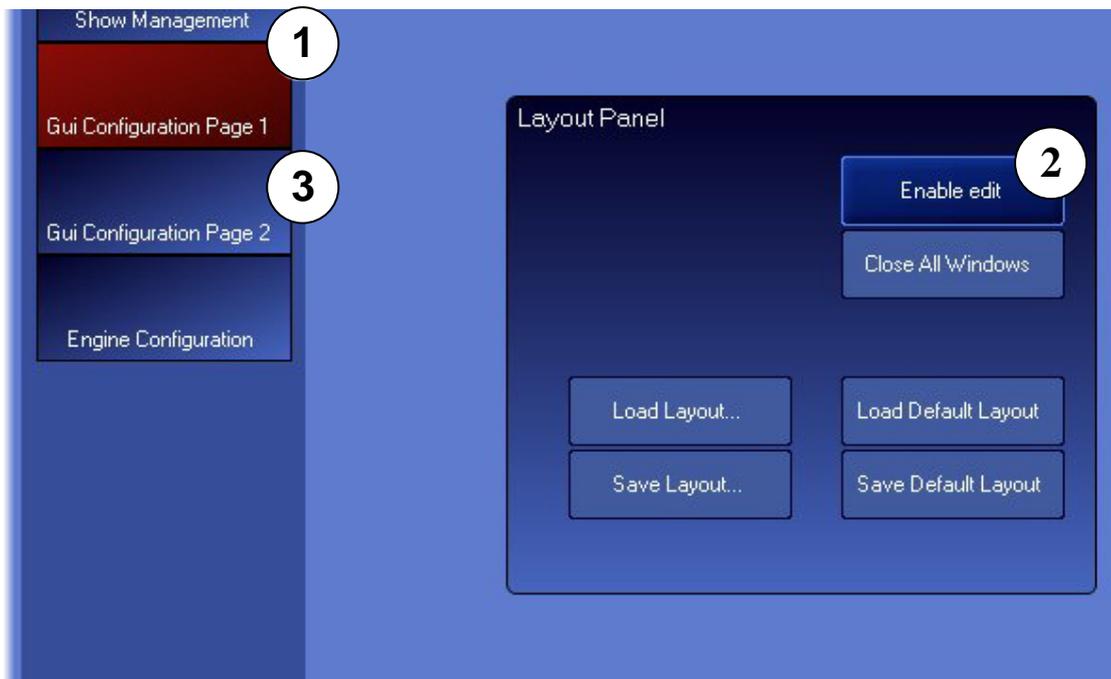
Go to **Empty Page**.



Choose **Config** in the **Commandbar**.



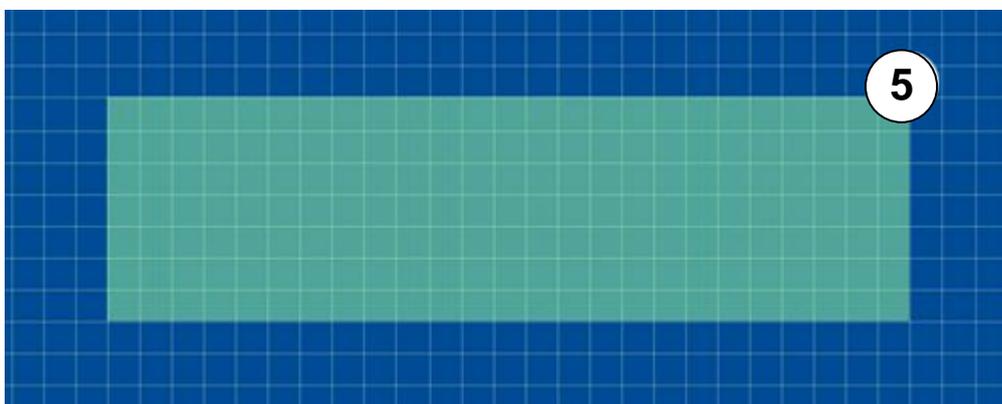
Follow the procedure described below to create a customized screen (see illustration below):



1. Click **Gui Configuration Page 1** button.
2. Click **Enable edit** button.
3. Click **Gui Configuration Page 2** button.



4. Click the **Cue A** button.



5. Click anywhere in the empty grid.



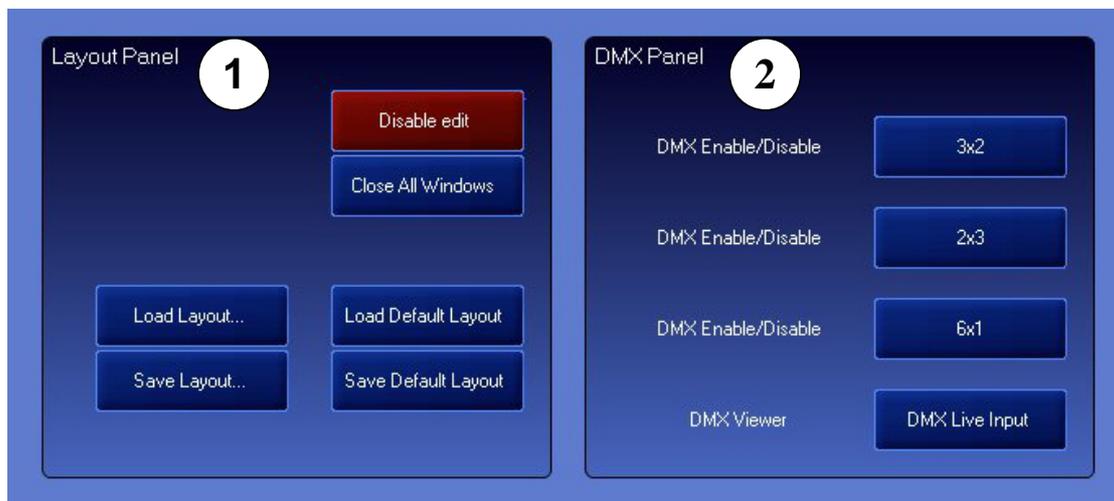
6. The **Cue A** screen appears. Click and drag the handle in the lower right corner to make the screen larger or smaller.

Go back to the config-screen and click the **Gui Configuration Page 1** button and the **Disable Edit** button to store the layout.

7. Click the **Save Default Layout** button to keep the layout at the next start-up.
To save the layout in a file, choose **Save Layout**.

! All screens can be added:

1. *Gui Configuration Page 1*



1. **Layout Panel:** This panel offers the possibility of (de)activating the production of panels. It also enables the formed layout to be recalled or saved.
2. **DMX Panel:** This panel allows buttons to be added to the layout which enable the access to certain DMX channels.

2. Gui Configuration Page 2



1. **Cue Selection:** Adds all cued-related panels.
2. **Layers:** Adds all kinds of layer panels.
3. **Layer Parameters:** Adds parameter panels concerning layers.
4. **Output Preview:** Allows creation of a screen that determines how the output monitor will represent the cues.
5. **Media Groups:** Allows the creation of panels to browse through all kinds of media.

Appendix A: Plugins

This appendix gives an overview of all the plug-ins.

A1. Video Plugin



This plug-in plays video and picture media.

Parameters:

- **VIDEO In:** Sets video start frame.
- **VIDEO Out:** Sets video stop frame.
- **VIDEO Loop Mode:** Determines whether the video repeats from the beginning or stops on the last frame.

A2. Random Zoom Plugin



This plug-in zooms the video and picture media randomly.

Parameters:

- **INTERVAL Interval:** Determines whether the zoom changes periodically.
- **SCALING Scale X:** Determines width (X-axis).
- **SCALING Scale Y:** Determines height (Y-axis).
- **SCALING Scale Z:** Determines depth (Z-axis).
- **SCALING Keep Aspect:** Determines whether or not media should keep proportions during resizing.

A3. Smoke Plugin



This plug-in generates two-dimensional smoke.

Parameters:

- **SMOKE smoke:** Determines the amount of smoke.

A4. 2D Plasma Plugin



This plug-in generates two-dimensional plasma.

Parameters:

- No extra parameters

A5. 2D Fluid Plug-in



This plug-in generates a fluid effect which transforms the video and picture media.

Parameters:

- **FLUID Effects script:** Determines the fluid effect.
- **FLUID Amplitude:** Determines the degree of the fluid effect.

A6. 2D Particles Plugin



This plug-in generates a two-dimensional particle effect which transforms the video and picture media into small fragments.

Parameters:

- **OPTIONS Effect Script:** Determines which script the plug-in uses to generate the particles.

A7. 2D Text



This plug-in generates a two-dimensional text. It is possible to work with the font and the size of your choice.

A8. 3D Ocean Plugin



This plug-in generates a three-dimensional ocean.

Parameters:

- **WAVE Height:** Determines the height of the waves.
- **WAVE Wind:** Determines the wind force.
- **WAVE Suppression:** Determines the flatness of the waves.
- **TEXTURE Texture:** Determines the degree of the texture.
- **TEXTURE Fresnell:** Determines the degree of the Fresnell Shader
- **TEXTURE Resolution:** Determines the level of detail shown in the texture.
- **COLOR High RGB**
- **COLOR Low RGB**

A9. 3D Tunnel Plugin



This plug-in generates three-dimensional tunnel effects.

Parameters:

- **OPTIONS Direction:** Determines the direction of the camera.
- **OPTIONS Depth 1:** Determines the depth of the view.
- **OPTIONS Depth 2:** Determines the depth of the view.
- **TUNNEL CAMERA Camera:** Determines the type of camera travelling through the tunnel.
- **UV U:** Determines the width of the texture in the tunnel.
- **UV V:** Determines the height of the texture in the tunnel.

A10. 3D Landscape Plugin



This plug-in generates a three-dimensional landscape effect.

Parameters:

- **OPTIONS Distance:** Determines how far the texture will be stretched out over the landscape.
- **OPTIONS Height:** Determines the vertical size of the landscape
- **OPTIONS Fog:** Determines the dipping of the horizon.
- **TWIST Heading:** Determines in which direction the camera will travel.
- **TWIST Bank:** Determines the position of the camera facing the horizon.

A11. 3D Ribbons Plugin



This plug-in generates a three-dimensional ribbon effect.

Parameters:

- **OPTIONS Amount:** Determines the visible amount of ribbons.
- **OPTIONS Shift:** Determines the distance between ribbons.
- **OPTIONS Radius:** Determines the proximity of ribbons to the center.
- **SHAPE Width:** Determines the width of ribbons.
- **SHAPE Height:** Determines the height of ribbons.
- **SHAPE Radius:** Determines the length of ribbons.

A12. 3D Spikes Plugin



This plug-in generates a three-dimensional spikes effect.

Parameters:

- **SHAPE Amount:** Determines the amount of spikes.
- **SHAPE Shape1:** Determines the thickness of spikes.
- **SHAPE Shape2:** Determines the distance between the centres of spikes.
- **SHAPE Shape3:** Determines the length of spikes.

A13. 3D Objects Plugin



This plug-in loads a three-dimensional object which has to be *.x format.

Parameters:

- ***RIGHTHAND LEFT Righthand Left***: Determines how the object will be mirrored.

A14. 3D Blob Plugin



This plug-in generates a three-dimensional blob effect.

Parameters:

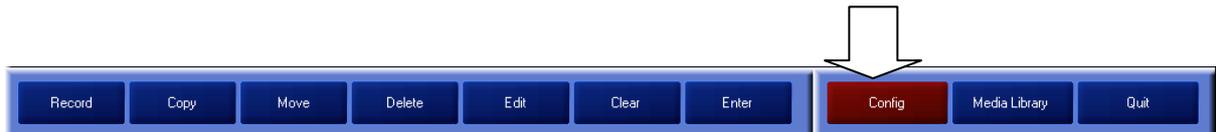
- ***SHAPE Shape 1***: Determines the transformation of the star.
- ***SHAPE Shape 2***: Determines the transformation of the vertical disc.
- ***SHAPE Shape 3***: Determines the transformation of the horizontal disc.

Appendix B: The Configuration screen

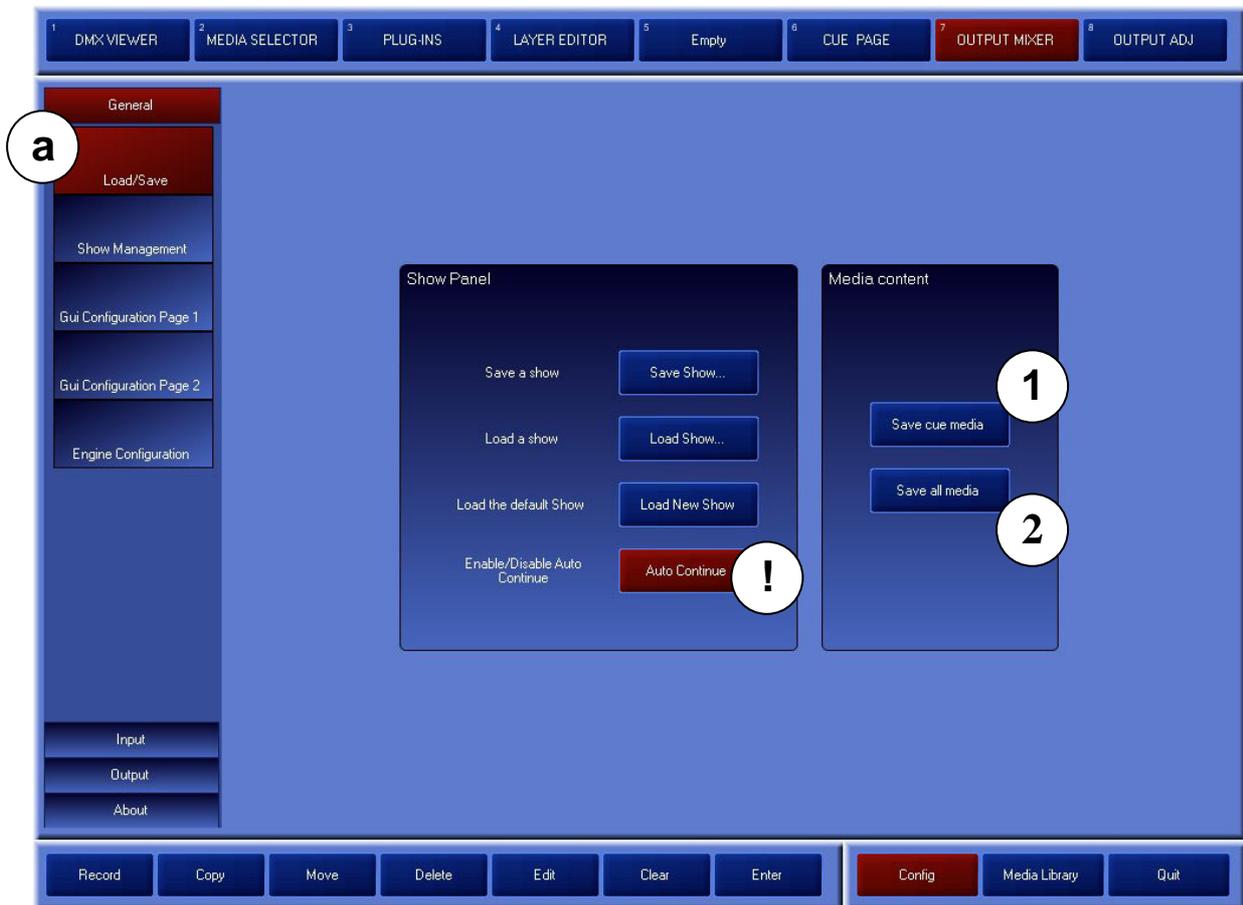
The Maxedia-settings can be changed via the configuration screen.

Choose **Config** in the **Command bar**.

! While restarting Maxedia, the **Load Show-button** gives also access to Load/Save or Show Management.



a) Load/Save



Load/Save can be used to save a whole show in one MX Show file. Normally, the media are not saved, but this can be changed by using **Save Cue Media** and **Save All Media** (see illustration above).

1. **Save Cue Media:** This offers the possibility of saving the media content of the cues.
2. **Save All Media:** This offers the possibility of saving all media, including the ones that were not used in the cues.



! *The MX Show files can become very large, depending on the media used in the show.*

! *The **Auto Continue** button supplies an automatic restart after 30 seconds (see ! illustration on previous page).*

b) Show Management

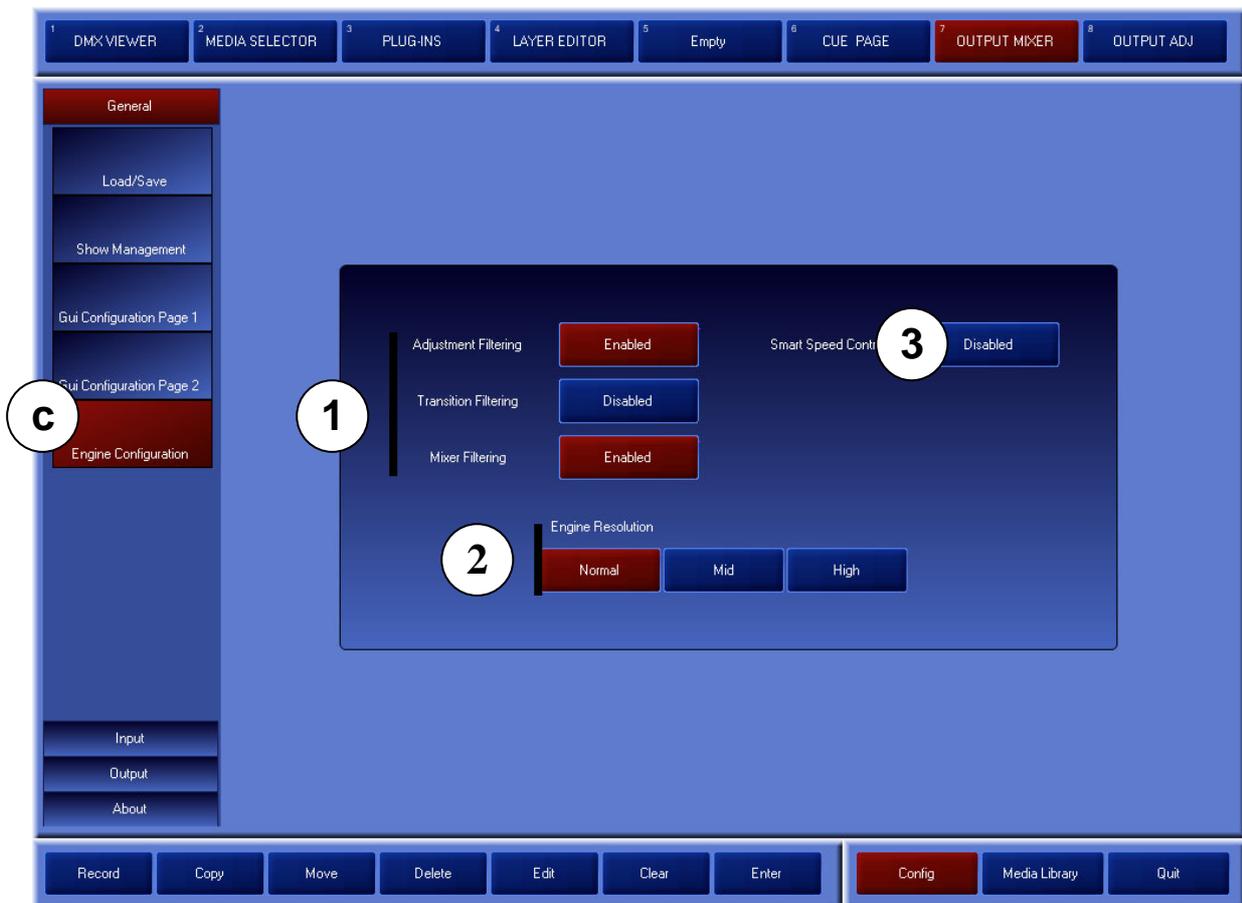


Back-ups can be made via **Show Management** by copying shows from the **External Drive** to the **BackUp Drive** (see illustration above).

1. **BackUp Drive (D:)**
2. **External Drive (E:)**: Loading shows is only possible when the shows are on the External Drive.
3. This offers the possibility of moving a selected show from the BackUp Drive to the External Drive. Maxedia will ask if the existing show may be overwritten.
4. This offers the possibility of moving a selected show from the External Drive to the BackUp Drive. Maxedia will ask if the existing show may be overwritten.
5. The shows can be deleted from both drives by using the **Delete** buttons. NOTE! This is a **dangerous** action. The entire show will be deleted.

! All media will be saved. Consequently, the saving-process may take a while.

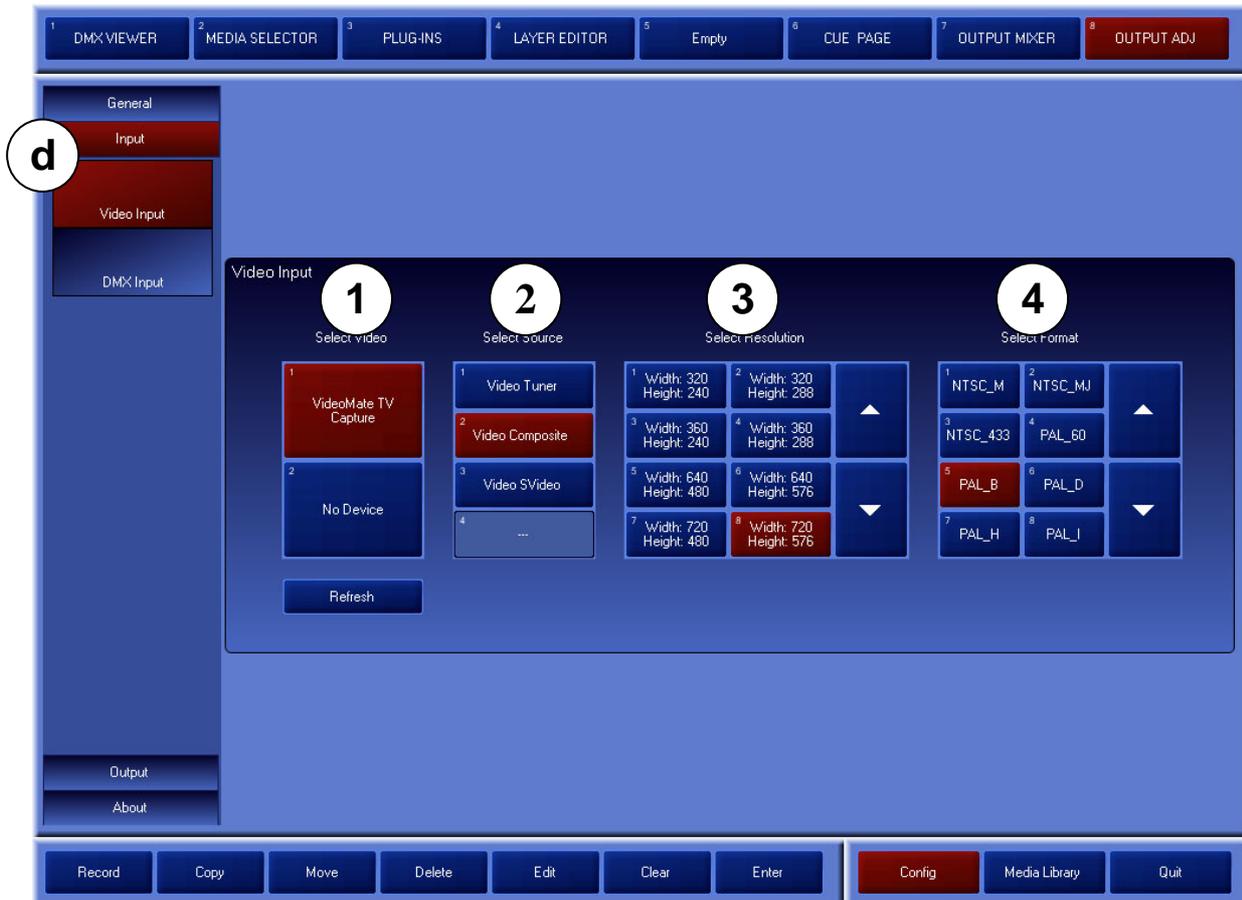
c) Engine Configuration



Engine Configuration allows the engine of the software to be set (see illustration above).

1. **Engine Filtering options:** Allow setting of Output-filters.
2. **Engine Resolution:** Allow setting of Engine-resolutions.
 - **Normal:** 512 pixels x 512 pixels
 - **Mid:** 1024 pixels x 512 pixels
 - **High:** 1024 pixels x 1024 pixels
3. **Smart Speed Control:** If this option is switched on, the speed of cue B will be reduced to zero whenever only cue A is visible.

d) Video Input



The screen above will be generated by clicking the **Input** button and the **Video Input** button. It contains the following elements (see illustration above):

1. **Select Video:** These devices can be connected by USB/FireWire/Analog Format.
3. **VideoMate TV Capture:** Video 1 In (will be detected automatically)
4. **No Device:** Video 2 In (will be detected automatically)
2. **Select Source:** Here the video source can be selected.
3. **Select Resolution:** Here the desired resolution can be selected.
4. **Select Format:** Here the desired standard can be selected.



Appendix C: DMX Layout

Maxedia Base fixture layout 24 Channels

Standard DMX Channels

1. Dimmer
2. Red
3. Green
4. Blue
5. Cue Selection
6. Cue Page
7. Cue B Selection (A/B Mode)
8. Cue B Page
9. Cue Blur
10. Transition / Wipe Mode
11. Transition / Wipe Selection
12. Transition
13. Transition Fine
14. Wipe Blur
15. Live-Text Dimmer
16. Live-Text Selection
17. Live-Text Effect
18. Volume Sound Output
19. Volume Sound Input
20. Volume Sound Wav
21. Control (Test Images)
22. Speed A
23. Speed B
24. Output Preset



Key to channels:

- Channel 1 Dimmer for the Output: Default = 256; Fade
- Channel 2. Red Default = 128; Fade
 - Value 0- 127 = Black to Red
 - Value 128 = Normal
 - Value 129-255 = Red to White
- Channel 3 Green. Default = 128; Fade
 - Value 0- 127 = Black to Green
 - Value 128 = Normal
 - Value 129-255 = Green to White
- Channel 4 Blue. Default = 128; Fade
 - Value 0- 127 = Black to Blue
 - Value 128 = Normal
 - Value 129-255 = Blue to White

Cue Selection

- Channel 5 Cue selection. Default = 0; Snap
 - Value 0 = Blackout
 - Value 1 = Cue 1
 - ...
 - Value 255 = Cue 255
- Channel 6 Cue Page. Default = 0; Snap
 - Value 0 -1 = Cue Page 1
 - Value 2 = Cue Page 2
 - ...
 - Value 255 = Cue Page 255
- Channel 7 Cue selection B. Default = 0; Snap
 - Value 0 = Blackout
 - Value 1 = Cue 1
 - ...
 - Value 255 = Cue 255
- Channel 8 Cue Page B. Default = 0; Snap
 - Value 0-1 = Cue Page 1
 - Value 2 = Cue Page 2
 - ...
 - Value 255 = Cue Page 255
- Channel 9 Cue Blur. Default= 0; Fade Value 0-255 = No Blur to Full Blur



Transition & Wipe Channels

- Channel 10 Transition / Wipe Mode. Default = 0; Snap
Value 0 = Transition
Value 1 = Wipe Bank 1
...
Value 255 = Wipe Bank 255
- Channel 11 Transition / Wipe selection. Default = 0; Snap
Value 0 - 1 = Transition / Wipe 1
Value 2 = Transition / Wipe 2
...
Value 255 = Transition / Wipe 255
- Channel 12 & 13: 16 bit 'Transition'. Default = 0; Fade
Channel 12 = MSB
Channel 13 = LSB
- Channel 14 Wipe Blur. Default = 128; Fade

Live Text Channels

- Channel 15 Live-Text Dimmer. Default = 0; Fade
- Channel 16 Live-Text selection. Default = 0; Snap
Not implemented
- Channel 17: Live-Text Effect. Default = 0; Snap
Not implemented

Audio Volume

- Channel 18: Audio Volume OUT. Default = 100; Fade
- Channel 19: Audio Volume IN. Default = 0; Fade
- Channel 20: Audio Volume WAV. Default = 100; Fade



Global

- Channel 21 Output Mode. Default = 0; Snap
 - Value 0-4 = Default Maxedia Output
 - Value 5-9 = Color Bar
 - Value 10-14 = Staircase
 - Value 15 -19 = Alignment
 - Value 20-24 = Video In 1
 - Value 25-29 = Video In 2
 - Value 30-255 = Not used
- Channel 22: Speed A Default = 128; Fade
- Channel 23: Speed B Default = 128; Fade
- Channel 24 Output Preset Selection Default = 0; Snap
 - Value 0 = No Preset, DMX override
 - Value 1 = Preset 1
 - ...
 - Value 255 = Preset 255



Maxedia DMX Layer 22 channels

Standard DMX Channels

- 25. Dimmer
- 26. Red
- 27. Green
- 28. Blue
- 29. Position X
- 30. Position X Fine
- 31. Position Y
- 32. Position Y fine
- 33. Position Z
- 34. Position Z fine
- 35. Rotation X
- 36. Rotation X Fine
- 37. Rotation Y
- 38. Rotation Y fine
- 39. Rotation Z
- 40. Rotation Z fine
- 41. Function
- 42. Script Amplitude
- 43. Script Speed
- 44. Speed Plug-in
- 45. Mode All/A/B
- 46. Layer control



Key to channels:

Dimmer channels / RGB

- Channel 1 Dimmer for the Layer: Default = 256; Fade
- Channel 2. Red Default = 128; Fade
 - Value 0- 127 = Black to Red
 - Value 128 = Normal
 - Value 129-255 = Red to White
- Channel 3 Green. Default = 128; Fade
 - Value 0- 127 = Black to Green
 - Value 128 = Normal
 - Value 129-255 = Green to White
- Channel 4 Blue. Default = 128; Fade
 - Value 0- 127 = Black to Blue
 - Value 128 = Normal
 - Value 129-255 = Blue to White

Position/Rotation

- Channel 5 & 6: 16 bit 'Position X'. Default = 32768; Fade
 - Channel 5 = MSB
 - Channel 6 = LSB
 - Value 0-16383 = Position ACLK
 - Value 16384-49151 = Positioning
 - Value 49152-65535 = Position CLK
- Channel 7 & 8: 16 bit 'Position Y'. Default = 32768; Fade
 - Channel 7 = MSB
 - Channel 8 = LSB
 - Value 0-16383 = Position ACLK
 - Value 16384-49151 = Positioning
 - Value 49152-65535 = Position CLK
- Channel 9 & 10: 16 bit 'Position Z'. Default = 32768; Fade
 - Channel 9 = MSB
 - Channel 10 = LSB
 - Value 0-16383 = Position ACLK
 - Value 16384-49151 = Positioning
 - Value 49152-65535 = Position CLK

- Channel 11 & 12: 16 bit 'Rotation X'. Default = 32768; Fade
 Channel 11 = MSB
 Channel 12 = LSB
 Value 0-16383 = Rotate ACLK
 Value 16384-49151 = Positioning
 Value 49152-65535 = Rotate CLK

- Channel 13 & 14: 16 bit 'Rotation Y'. Default = 32768; Fade
 Channel 13 = MSB
 Channel 14 = LSB
 Value 0-16383 = Rotate ACLK
 Value 16384-49151 = Positioning
 Value 49152-65535 = Rotate CLK

- Channel 15 & 16: 16 bit 'Rotation Z'. Default = 32768; Fade
 Channel 15 = MSB
 Channel 16 = LSB
 Value 0-16383 = Rotate CLK
 Value 16384-49151 = Positioning
 Value 49152-65535 = Rotate ACLK

- Channel 17: Function (Reserved). Default = 0, Snap

- Channel 18: Script Amplitude. Default = 0; Fade

- Channel 19: Script Speed. Default = 128, Fade

- Channel 20: Speed Plug-in. Default = 128, Fade
 Value 0-120 = Speed 0 to Normal Speed
 Value 121-139 = Normal Speed
 Value 140-255 = Normal Speed to Fast

- Channel 21: Mode All /A /B. Default = 0; Snap
 Value 0-63 = Normal (Layer A & B)
 Value 64-127 = A Layer Only
 Value 128-191 = B Layer only
 Value 192-255 = Preview Layer only

- Channel 22: DMX override OFF/ON. Default = 0, **Snap**
 Value 0 = OFF
 Value 1 = Layer 1 Override
 Value 2 = Layer 2 Override
 Value 3 = Layer 3 Override
 Value 4 = Layer 4 Override
 Value 5 = Layer 5 Override
 Value 6 = Layer 6 Override
 Value 7 = Layer 7 Override
 Value 8 = Layer 8 Override



Value 9 = Layer 9 Override
Value 10 = Layer 10 Override
Value 11 = Layer 11 Override
Value 12 = Layer 12 Override
Value 13 = Layer 13 Override
Value 14 = Layer 14 Override
Value 15 = Layer 15 Override
Value 16 = Layer 16 Override
Value 17 = Layer 17 Override
Value 18 = Layer 18 Override
Value 19 = Layer 19 Override
Value 20-255 = Layer 20 Override



Maxedia DMX Output Adjustment 48 channels

1. KeyStone Left Move
2. KeyStone Left Move Fine
3. KeyStone Left Rotate
4. KeyStone Left Rotate Fine
5. KeyStone Right Move
6. KeyStone Right Move Fine
7. KeyStone Right Rotate
8. KeyStone Right Rotate Fine
9. KeyStone Top Move
10. KeyStone Top Move Fine
11. KeyStone Top Rotate
12. KeyStone Top Rotate Fine
13. KeyStone Bottom Move
14. KeyStone Bottom Move Fine
15. KeyStone Bottom Rotate
16. KeyStone Bottom Rotate Fine
17. KeyStone ALL Rotate
18. KeyStone ALL Rotate Fine
19. Framing Left Move
20. Framing Left Move Fine
21. Framing Left Rotate
22. Framing Left Rotate Fine
23. Framing Right Move
24. Framing Right Move Fine
25. Framing Right Rotate
26. Framing Right Rotate Fine
27. Framing Top Move
28. Framing Top Move Fine
29. Framing Top Rotate
30. Framing Top Rotate Fine
31. Framing Bottom Move
32. Framing Bottom Move Fine
33. Framing Bottom Rotate
34. Framing Bottom Rotate Fine
35. Framing All Rotate
36. Framing All Rotate Fine
37. Not used
38. Mask Selection
39. Mask Selection Fine
40. Mask X Position
41. Mask X Position Fine
42. Mask Y Position
43. Mask Y position Fine
44. Mask Scale
45. Mask Scale Fine
46. Mask Rotate
47. Mask Rotate Fine
48. Framing/Mask Blur

**Key to channels:**

- Channel 1 & 2: 16 bit 'Keystone Left Move'. Default = 0; Fade
Channel 1 = MSB
Channel 2= LSB
- Channel 3 & 4: 16 bit 'Keystone Left Rotate'. Default = 32768; Fade
Channel 3 = MSB
Channel 4= LSB
- Channel 5 & 6: 16 bit 'Keystone Right Move'. Default = 0; Fade
Channel 5 = MSB
Channel 6= LSB
- Channel 7 & 8: 16 bit 'Keystone Right Rotate'. Default = 32768; Fade
Channel 7 = MSB
Channel 8= LSB
- Channel 9 & 10: 16 bit 'Keystone Top Move'. Default = 0; Fade
Channel 9 = MSB
Channel 10= LSB
- Channel 11 & 12: 16 bit 'Keystone Top Rotate'. Default = 32768; Fade
Channel 11 = MSB
Channel 12= LSB
- Channel 13 & 14: 16 bit 'Keystone Bottom Move'. Default = 0; Fade
Channel 13 = MSB
Channel 14= LSB
- Channel 15 & 16: 16 bit 'Keystone Bottom Rotate'. Default = 32768; Fade
Channel 15 = MSB
Channel 16= LSB
- Channel 17 & 18: 16 bit 'KeyStone All Rotate'. Default = 32768; Fade
Channel 17 = MSB
Channel 18= LSB
- Channel 19 & 20: 16 bit 'Framing Left Move'. Default = 0; Fade
Channel 19 = MSB
Channel 20= LSB
- Channel 21 & 22: 16 bit 'Framing Left Rotate'. Default = 32768; Fade
Channel 21 = MSB
Channel 22= LSB



- Channel 23 & 24: 16 bit 'Framing Right Move'. Default = 0; Fade
Channel 23 = MSB
Channel 24 = LSB
- Channel 25 & 26: 16 bit 'Framing Right Rotate'. Default = 32768; Fade
Channel 25 = MSB
Channel 26= LSB
- Channel 27 & 28: 16 bit 'Framing Top Move'. Default = 0; Fade
Channel 27 = MSB
Channel 28= LSB
- Channel 29 & 30: 16 bit 'Framing Top Rotate'. Default = 32768; Fade
Channel 29 = MSB
Channel 30= LSB
- Channel 31 & 32: 16 bit 'Framing Bottom Move'. Default = 0; Fade
Channel 31 = MSB
Channel 32= LSB
- Channel 33 & 34: 16 bit 'Framing Bottom Rotate'. Default = 32768; Fade
Channel 33 = MSB
Channel 34= LSB
- Channel 35 & 36: 16 bit 'Framing Rotation'. Default = 32768; Fade
Channel 35 = MSB
Channel 36= LSB
- Channel 37 'Not Used'. Default 0; Snap
- Channel 38 Mask selection. Default =0; Snap
Value 0 = No Mask
Value 1 = Mask 1
...
Value 255= Mask 255
- Channel 39 Mask Bank selection. Default =0; Snap
Value 0-1 = Bank 1
Value 2 = Bank 2
...
Value 255 = Bank 255
- Channel 40 & 41 Mask X Position. Default = 32768; Fade
Channel 40= MSB
Channel 41= LSB



Maxedia Manual

- Channel 42 & 43 Mask Y Position. Default = 32768; Fade
Channel 42 = MSB
Channel 43 = LSB
- Channel 44 & 45 Mask Scale. Default = 32768; Fade
Channel 44 = MSB
Channel 45 = LSB
- Channel 46 & 47 Mask Rotation. Default = 32768; Fade
Channel 46 = MSB
Channel 47 = LSB
- Channel 48 Mask Blur. Default= 32; fade Value 0-255 = No blur to Full Blur

