



Accessory

CLIPSTER

Color Correction Panel LX

User Guide

CLIPSTER Color Correction Panel LX User Guide

Introduction

Overview

Installation and Configuration

Operation

Appendix

Index



1

2

3

4

A

I

User Guide Version 1.0 for CLIPSTER Color Correction Panel LX Version 3.3

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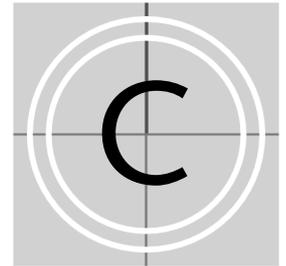
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Contents

1	Introduction	1-1
	1.1 Overview	1-2
	1.2 Target Group	1-3
	1.3 Conventions Used in this User Guide	1-3
	1.4 Safety Instructions	1-4
	1.5 Important Notes	1-5
	1.6 Scope of Delivery	1-6
2	Overview	2-1
	2.1 Top Side	2-2
	2.2 Rear Side	2-4
	2.3 The Group 'ControlPanel' (Configuration Tool)	2-6
3	Installation and Configuration	3-1
	3.1 Hardware Installation and Setup	3-2
	3.1.1 How to Connect to CLIPSTER Directly	3-2
	3.1.2 How to Connect to CLIPSTER via a Hub	3-3
	3.2 Configuration in a DHCP Network	3-5
	3.3 Manual Configuration of the Networking	3-8
	3.3.1 Setting Up the Ethernet Port of CLIPSTER	3-8
	3.3.2 Activation of the Panel in the Software	3-10

4	Operation	4-1
4.1	Basic Operations	4-2
4.1.1	Starting or Shutting Down the Panel	4-2
4.1.2	The Autoconnect Feature	4-3
4.1.3	How to Connect to the Panel Manually	4-4
4.1.4	How to Disconnect the Panel Manually	4-4
4.2	Working with the Color Correction Panel LX	4-6
4.3	The Effects Keys	4-7
4.3.1	Effects Key 1	4-7
4.3.2	Effects Key 2	4-8
4.3.3	Effects Key 3	4-8
4.3.4	Effects Key 4	4-9
4.3.5	Effects Key 5	4-10
4.3.6	Effects Key 6	4-10
4.3.7	Effects Keys 7 to 9	4-11
4.4	Resetting Values	4-12
A	Appendix	A-1
A.1	Technical Data	A-2
A.1.1	General Technical Data	A-2
A.1.2	Dimensions for Desk Mounting	A-3
A.2	Troubleshooting and Self-Test	A-4
I	Index	I-1

Introduction



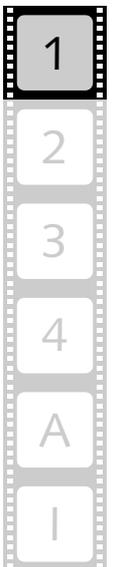
This documentation describes the installation and usage of the CLIPSTER Color Correction Panel LX. The CLIPSTER Color Correction Panel LX is the DVS deluxe version of a tactile colorist control panel especially designed for a handy and efficient color correction when using the CLIPSTER video system manufactured by DVS.

CLIPSTER together with its software and all accessories is a powerful high-definition video workstation with enormous flexibility, especially designed to meet the demands of modern post production houses.

With its multiple trackballs and control rings the CLIPSTER Color Correction Panel LX offers color correction operators of CLIPSTER a very user-friendly environment. The additional and intuitive control of various effects of CLIPSTER as well as of its user interface via the Color Correction Panel LX supplement the usage of the panel.

The CLIPSTER Color Correction Panel LX is available as an accessory and optional feature for CLIPSTER.

Other control panels that supplement the features of the Color Correction Panel LX are available as well in the deluxe panel range. Among them you can find, for example, the CLIPSTER Transport Control Panel, which provides besides other useful features transport and jog/shuttle functionality for an even better and faster control of the CLIPSTER software. For further information about these panels please contact your vendor.



1.1 Overview

This guide informs you about the installation and usage of the CLIPSTER Color Correction Panel LX.

The chapters in this user guide contain the following information:

Chapter 1	Begins with a short introduction to the CLIPSTER Color Correction Panel LX, followed by a note regarding the audience this manual is written for and an explanation of the conventions used in this manual. Furthermore, it provides safety instructions that you must adhere to, some important notes that you have to read and the scope of delivery.
Chapter 2	This chapter provides a top and a rear overview of the Color Correction Panel LX detailing the operation items and connection interfaces. Furthermore, it includes descriptions of the individual settings items of the CLIPSTER Configuration Tool to configure and set up the Color Correction Panel LX.
Chapter 3	Describes the installation and setup procedure of the CLIPSTER Color Correction Panel LX.
Chapter 4	Details the operation of the CLIPSTER Color Correction Panel LX and provides information about how to use it together with the CLIPSTER video system and its software.
Appendix	Provides technical details and general information about the CLIPSTER Color Correction Panel LX.
Index	This chapter facilitates the search for specific terms.

1.2 Target Group

To use this guide and the CLIPSTER Color Correction Panel LX you should be familiar with the CLIPSTER video system and its software, especially with the CLIPSTER Edit Tool and the Configuration Tool. For this please refer to the other user guides delivered with CLIPSTER.

Additionally, to use the Color Correction Panel LX to its full potential you should have experience as a colorist, i.e. in the field of color correction in general.

Furthermore, to set up the CLIPSTER Color Correction Panel LX properly some basic knowledge in network administration and installation would be helpful.

1.3 Conventions Used in this User Guide

The following typographical conventions will be used in this documentation:

- Texts preceded by this symbol describe activities that you must perform in the order indicated.
- Texts preceded by this symbol are parts of a list.



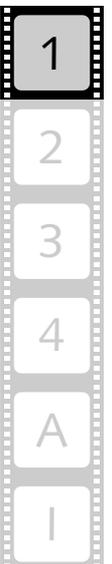
Texts preceded by this symbol are general notes intended to facilitate work and help avoid errors.



You must pay particular attention to text that follows this symbol to avoid errors.

“ ” Texts enclosed by quotation marks are references to other manuals, guides, chapters, or sections.

BUTTON	Text in small caps and bold indicates push buttons
<i>Group/Menu</i>	Text in italic and bold indicates either a group name, menu name or options in a menu list
<i>Menu » Option</i>	In the specified group or menu select the stated item
Item	Text in bold only stands for other labeled items of a user interface
Entry	Parameters, selections or entries to be made either in a software program or at the panel
[Key]	A key on the Color Correction Panel LX



1.4 Safety Instructions

To use the CLIPSTER Color Correction Panel LX correctly please heed the following:



Please read the following safety instructions very carefully before attempting any installation and/or performing any work on CLIPSTER or the CLIPSTER Color Correction Panel LX.

If the CLIPSTER Color Correction Panel LX is not used in compliance with the safety instructions, the warranty and all resulting liability claims will be void.

General

The CLIPSTER Color Correction Panel LX has been built according to the applying safety regulations. To minimize the possibility of a faulty operation of the device all manuals and guides must be available at all times at the operation site. Before installing and/or using the CLIPSTER Color Correction Panel LX the manuals and guides delivered with the CLIPSTER Color Correction Panel LX must be read and observed.

- Use the CLIPSTER Color Correction Panel LX only in apparent good technical order.
- Use the CLIPSTER Color Correction Panel LX only in compliance with the technical data laid out in section “Technical Data” on page A-2.
- The external power supply must be earthed using an appropriate mains cord.
- Unplug the panel when it is not going to be used for long periods of time.
- If fluids or solid objects get inside the casing, the CLIPSTER Color Correction Panel LX must be disconnected from the power supply immediately. Before using the CLIPSTER Color Correction Panel LX again, it has to be checked by authorized service personnel.
- Only use a damp tissue without any cleaning agents to clean the casing.
- The CLIPSTER Color Correction Panel LX may not be misused, abused, physically damaged, neglected, exposed to fire, water or excessive changes in the climate or temperature, or operated outside maximum rating.
- Do not perform any changes or extensions to the CLIPSTER Color Correction Panel LX whatsoever.

Transportation

Please observe in case of transportation:

- Handle the CLIPSTER Color Correction Panel LX with great care.

- Always use the original packing or a similar structured packing for transportation.
- Avoid shocks or vibrations during transport.
- Keep CLIPSTER Color Correction Panel LX as a transportation good dry.

Environmental Conditions

For error-free working and a long service life, the CLIPSTER Color Correction Panel LX needs some basic environmental conditions:

- Do not expose the CLIPSTER Color Correction Panel LX to sources of heat, such as direct sunlight or a radiator.
- Avoid areas with high humidity or dust. Best operating conditions are given in an air-conditioned site.
- Do not expose the CLIPSTER Color Correction Panel LX to strong electric or magnetic fields.
- Avoid areas where the CLIPSTER Color Correction Panel LX will be subject to vibrations or shocks.
- The panel can be fitted into a hole in a desk. However, then you have to take care that the cables exiting from the rear of the panel are not bent, squeezed or twisted in any way. Further information about the desktop mounting can be found in section “Technical Data” on page A-2.

1.5 Important Notes

The following provides information about the warranty of the CLIPSTER Color Correction Panel LX.

Warranty Information

This product is warranted to be free of defects in materials and workmanship for a period of one year from the date of purchase. DVS extends this Limited Warranty to the original purchaser.



You have to keep the original packing and use it in case of transportation. Otherwise this warranty will be void.

In the event of a defect or failure to confirm to this Limited Warranty, DVS will repair or replace the product without charge. In order to make a claim under this Limited Warranty, the purchaser must notify DVS or their representative in writing of the product failure. In this Limited Warranty the customer must upon DVS' request return the product to the place of purchase or send the defective device to a given address for the necessary repairs to be performed. In the warranty period the customer must keep the original packing and pack the DVS product in



it in case of a product return. If the customer is not satisfied with the repair, DVS will have the option to either attempt a further repair, exchange the product or refund the purchase price.

This warranty does not cover:

- Products not developed by DVS Digital Video Systems GmbH.
- Products not used in compliance with the safety instructions detailed in section “Safety Instructions” on page 1-4
- Products on which warranty stickers or product serial numbers have been removed, altered or rendered illegible.
- The costs of installations, removals, transportations, or re-installations.
- Costs for transportation damages.
- Damages caused to any other item.
- Any special, indirect, or consequential damages, and damages resulting from loss of use, data, or profits, or business interruption.

1.6 Scope of Delivery

The following lists the items that come with the CLIPSTER Color Correction Panel LX:

CLIPSTER Color Correction Panel LX

- 1 × Color Correction Panel LX
- 1 × external power supply
- 2 × network connection cables (one standard, one crossover)
- 1 × “CLIPSTER Color Correction Panel LX” user guide



A mains cord to connect the external power supply to your mains supply may not be included in the delivery of the CLIPSTER Color Correction Panel LX. Then you have to use one of your own cables. However, only use the external power supply included in the delivery. Failure to do this will void your warranty and may be dangerous.

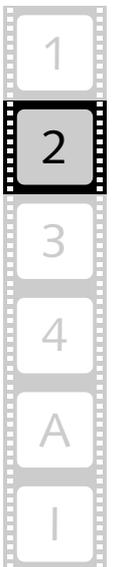
If any of the above mentioned items are missing or damaged, contact your vendor immediately.

Overview



This chapter provides a detailed overview of the CLIPSTER Color Correction Panel LX. The panel will be shown in a top and a rear view and all its operation items and interfaces will be listed.

Furthermore, this chapter includes a description of the individual settings items available in the group **ControlPanel** of the CLIPSTER Configuration Tool. They have to be used to configure and set up the CLIPSTER Color Correction Panel LX.



2.1 Top Side

The following provides a detailed overview of the top side of the CLIPSTER Color Correction Panel LX:

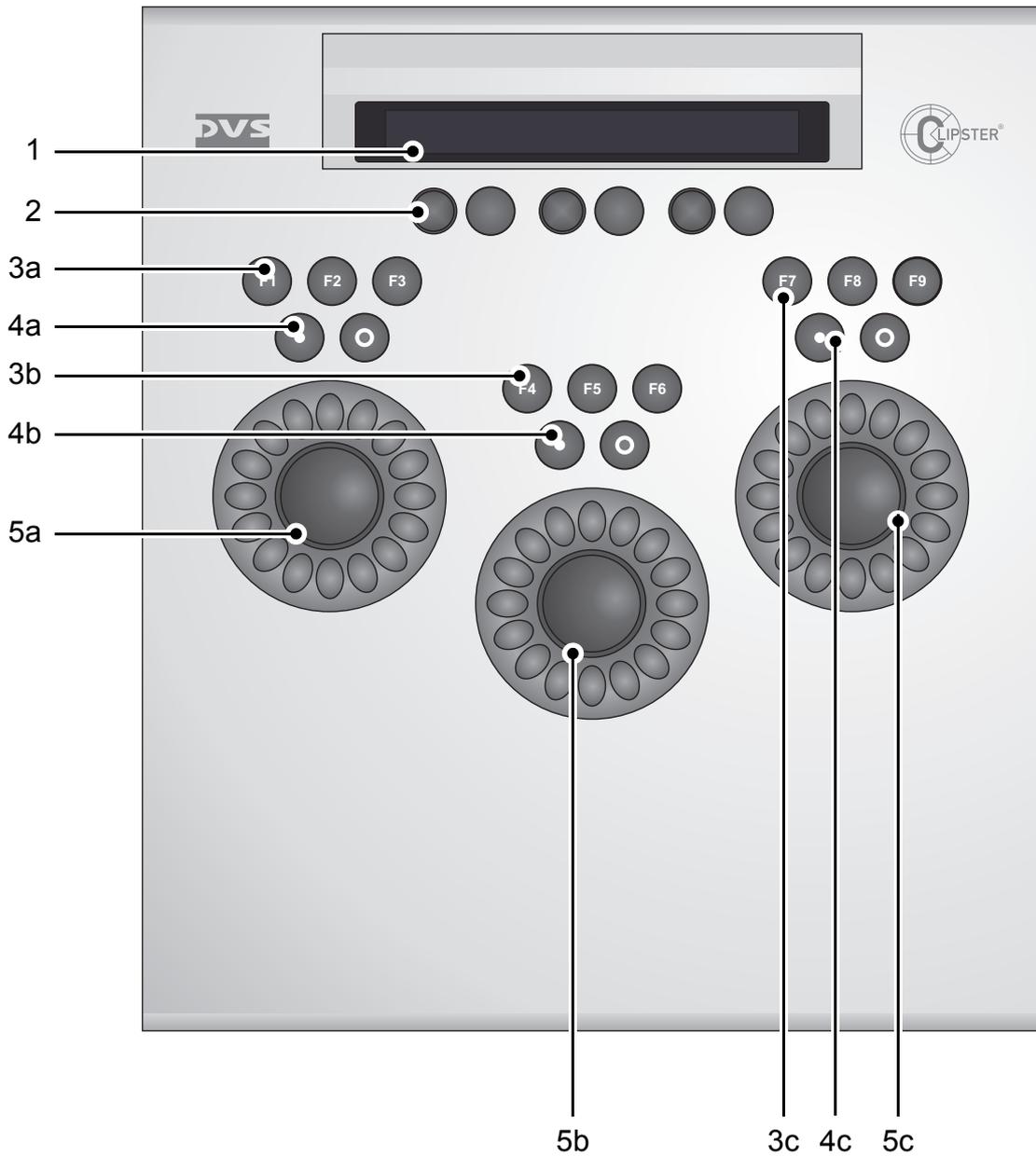
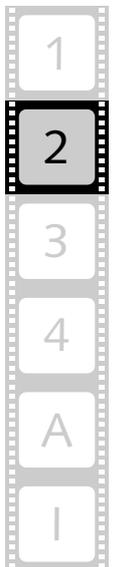


Figure 2-1: Top view of the CLIPSTER Color Correction Panel LX

No.	Item	Description
1	Display	The display shows you the current state of the panel. When working with the Color Correction Panel LX, it provides information about your adjustments to various settings.
2	Knobs	The three knobs are used to make adjustments to certain effects or settings. Each provides to its right a reset button that will reset the respective value back to its default value.
3a, b, c	Effects keys	With the effects keys you can access the different effects provided by the Color Correction Panel LX, such as color correction, zoom and pan, or cropping. They are consecutively labeled from 'F1' to 'F9'.
4a, b, c	Reset keys	With the reset keys you can reset the values changed with the trackball and ring below them. On some effects keys they can provide another functionality than the resetting of values. To refer to them individually they are numbered in this user guide from left to right (1, 2 and 3), e.g. reset key trackball (●) 1, reset key ring (○) 1, reset key trackball (●) 2, etc.
5a, b, c	Trackballs and rings	The trackballs and their encircling rings allow you to make adjustments to parameters of certain effects. To refer to them individually they are numbered in this user guide from left to right (1, 2 and 3), e.g. trackball 1, ring 1, trackball 2, etc.



More detailed information about the different functions of the operation items and how to use them can be found in chapter "Operation" on page 4-1.

2.2 Rear Side

The following provides a detailed overview of the rear of the CLIPSTER Color Correction Panel LX:

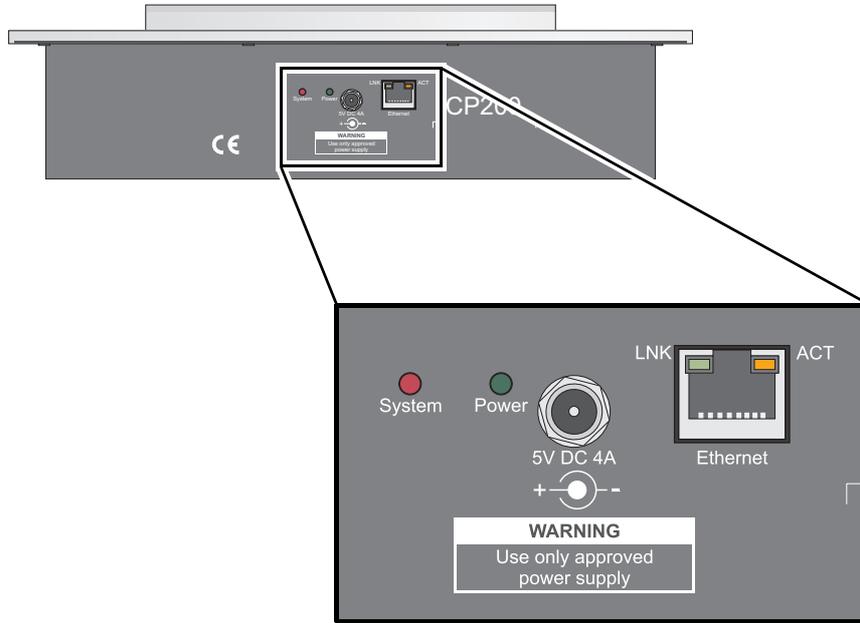


Figure 2-2: Rear view of the CLIPSTER Color Correction Panel LX

Item	Description
System	The system LED will flash red about once a second if the Color Correction Panel LX is running properly.
Power	The power LED will be on and green if power is connected to the panel.
5V DC 4A	This is the power supply input for the Color Correction Panel LX.  Only use the external power supply delivered with the CLIPSTER Color Correction Panel LX.
Ethernet	The ethernet connector provides a standard network connection (RJ45 connector using standard Cat 5 wiring). If you are using a hub/switch to connect to the video system, you can use a straight-through patch cable (pin-to-pin). In case you are connecting the panel directly to the video system, you have to use a cross-over network cable.

Item	Description	
	The two LEDs at the top of the ethernet connector indicate the following:	
	LNK	Will be on and green if a valid ethernet connection is established.
	ACT	Will flash orange when ethernet packets are received by the panel.



2.3 The Group 'ControlPanel' (Configuration Tool)

To connect the CLIPSTER Color Correction Panel LX to the CLIPSTER workstation and successfully configure it, the CLIPSTER Configuration Tool provides a settings group solely for this purpose. Once the Configuration Tool is started with the group **ControlPanel** activated on the tab **Defaults**, the settings pane displays at its top a combo box where you can select the connected type of panel.

With the entry `ControlPanelLX` selected from this combo box you will see something like the following on the screen:

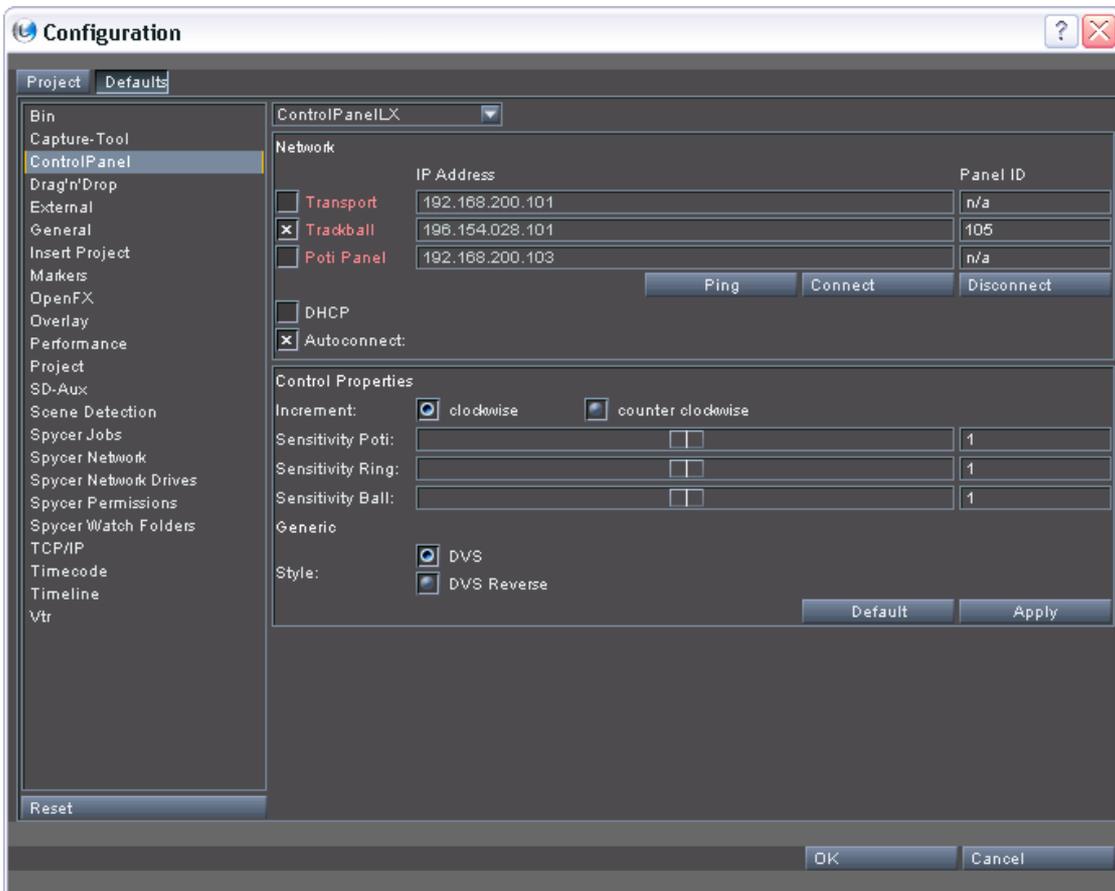


Figure 2-3: The settings items of the group 'ControlPanel'



Further information about the CLIPSTER Configuration Tool, the various groups as well as about the group **ControlPanel** in general can be found in the "CLIPSTER Configurations" user guide.

The settings pane of this group with the entry `ControlPanelLX` selected from the topmost combo box provides several areas where you can configure the CLIPSTER Color Correction Panel LX. They are explained in the following.

The Area 'Network'

With the area **Network** you configure the network settings of the CLIPSTER Color Correction Panel LX as well as of the other panels available in the LX control panel range. The settings are used to connect the panels to the CLIPSTER video system:



The control panels in the panel range of the CLIPSTER Color Correction Panel LX are optional available features of CLIPSTER that need a license to run with your video system. If they are not licensed, the respective settings items mentioned below to configure the individual panels may be hidden on your system.

Transport

Same as **Trackball** but instead these items determine the network configuration of the CLIPSTER Transport Control Panel.

Trackball

With this check box as well as the entry fields **IP Address** and **Panel ID** to its right you enable and set up the CLIPSTER Color Correction Panel LX.

When the check box **DHCP** is enabled, the IP address will be determined automatically by the DHCP server in your network. Then the entry field **IP Address** will be unavailable. In case the panel is connected to another type of network than a DHCP network, you have to configure the IP address manually. For this the DHCP check box must be disabled.

In the entry field **Panel ID** you have to set the ID of the panel. It should be identical to the ID visible in the display of the panel shortly after starting it (see e.g. section "Manual Configuration of the Networking" on page 3-8).

The labeling **Trackball** indicates the state of the respective panel. When it is displayed in red, the panel is not connected to CLIPSTER. If in green, the panel is currently connected to CLIPSTER and can be used together with the CLIPSTER software.

Poti Panel

Same as **Trackball** but instead these items determine the network configuration of the CLIPSTER Potentiometer Panel.

PING

Use the button **PING** to make sure that the panels are still connected to the CLIPSTER software. It sends a ping request to all connected panels.





The ping request sent to the panel with this button is a proprietary call and not identical to a network ping request.

CONNECT

With this button the CLIPSTER software tries to connect to all panels that are currently connected to the CLIPSTER video system. When successful, the respective labeling of the panel will be shown in green instead of red.

DISCONNECT

This button severs the connection of the CLIPSTER software to the connected panels. Afterwards the font color of the panels' labeling will be displayed in red. Once the panels are disconnected with this button, no further reconnection trials are performed by the CLIPSTER software in this session. In case you want to connect to the connected panels again, you have to do it manually with the button **CONNECT**, or close the CLIPSTER software with the autoconnect feature enabled and afterwards start it again.

DHCP

The **DHCP** check box enables the automatic assignment of IP addresses, subnet masks and other IP parameters via a DHCP server. For this the panel(s) must be connected to a DHCP network via a hub to CLIPSTER. Once the check box is activated, the **IP Address** entries will be dimmed and unavailable because the parameters for the networking (except the panel ID) will be determined by the server automatically (see section "Configuration in a DHCP Network" on page 3-5). If the check box is disabled, you have to set the IP address manually (see section "Manual Configuration of the Networking" on page 3-8).

Autoconnect

This setting enables or disables the autoconnect feature of the CLIPSTER software. Further information about this can be found in section "The Autoconnect Feature" on page 4-3.



To bring a change of the autoconnection setting into effect, you have to restart the CLIPSTER software.



Further information about the manual connection/disconnection as well as about the autoconnect feature can be found in section "Basic Operations" on page 4-2.

The Area 'Control Properties'

With the area **Control Properties** you set up and configure the behavior of the LX panels connected to CLIPSTER:

Increment	These radio buttons set the way an increment is performed when using either the knobs or the rings of the trackballs. You can set them to increment either when turned clockwise or when turned counter-clockwise.
Sensitivity Poti	These settings configure the sensitivity of the knobs of the CLIPSTER Color Correction Panel LX as well as of the other panels. Either use the slider to the left to set the sensitivity or type in a value in the entry field to the right. A value of less than one (1) sets a lower sensitivity, while a value greater than one (1) increases it.
Sensitivity Ring	These settings configure the sensitivity of the rings that encircle each trackball of the CLIPSTER Color Correction Panel LX. Either use the slider to the left to set the sensitivity or type in a value in the entry field to the right. A value of less than one (1) sets a lower sensitivity, while a value greater than one (1) increases it.
Sensitivity Ball	These settings configure the sensitivity of the trackballs of the CLIPSTER Color Correction Panel LX. Either use the slider to the left to set the sensitivity or type in a value in the entry field to the right. A value of less than one (1) sets a lower sensitivity, while a value greater than one (1) increases it.



The Area 'Generic'

The area **Generic** allows you to change the layout of the panel settings:

Style	This setting enables you to change the layout of the Color Correction Panel LX settings. You can choose between two different predefined layouts:
DVS	Standard panel layout of the CLIPSTER Color Correction Panel LX.

DVS Reverse Alternative panel layout of the CLIPSTER Color Correction Panel LX, i.e. the settings for lift and gain available on the panel will be switched (trackballs and rings).

Additional Settings

The additional settings of the settings pane to configure the connected panels to CLIPSTER offer you, for example, the possibility to switch back to default values:

- DEFAULT** This button resets most configuration settings of the group **ControlPanel** back to their default values. The settings of the area **Network** will not be reset.
- APPLY** This button confirms your alterations to the settings of the group **ControlPanel** without closing the CLIPSTER Configuration Tool. The new settings will then be in effect for the connected panels.

Installation and Configuration



This chapter details all information necessary to install the CLIPSTER Color Correction Panel LX to a CLIPSTER video system. For this the Color Correction Panel LX provides an ethernet connection to connect to the CLIPSTER video system. It can either be connected to the LAN connection of CLIPSTER directly or via a hub.

First, the different hardware setups and connections of the panel to the CLIPSTER video system are described. After that follows an explanation about how to activate the connection when using DHCP. The chapter will be concluded by a description of how to perform a manual configuration for the networking. It will include a detailed explanation about how to configure the ethernet port of CLIPSTER properly.



When connecting the panel to CLIPSTER via a DHCP server, the panel has to be connected via a hub to CLIPSTER. Furthermore, a configuration of the ethernet port of CLIPSTER will not be necessary.

After all this the panel will be installed correctly and be ready to use with the CLIPSTER software which is described in chapter "Operation" on page 4-1.



3.1 Hardware Installation and Setup

The CLIPSTER Color Correction Panel LX must be installed properly before you can start working with it. It comes with an ethernet connection (10 Mbps) to connect to the CLIPSTER video system and can be installed in two possible setups:

1. It can be connected to the LAN connection of CLIPSTER directly.
2. The connection can be routed over a network hub.



If you want to use the DHCP connection feature of the Color Correction Panel LX enabling the automatic assignment of IP addresses and other parameters, the connection to CLIPSTER has to be made via a hub that is part of the DHCP network.

Both setups will be addressed in this section.

3.1.1 How to Connect to CLIPSTER Directly

The CLIPSTER Color Correction Panel LX can be connected directly to CLIPSTER via a crossover network cable.



When connecting to CLIPSTER directly, the DHCP support of the Color Correction Panel LX cannot be used.

To connect to CLIPSTER directly perform the following:

- Place the CLIPSTER Color Correction Panel LX on a firm, flat surface near the CLIPSTER video system, for example, on a table next to its keyboard.
- After this set up the external connection from the Color Correction Panel LX to the CLIPSTER video system by connecting the ethernet port of the panel with a free ethernet port (LAN connector) of the CLIPSTER video system:



The cable for the external connection is a crossover network cable. A standard network cable cannot be used for the direct connection. Please use an appropriate cable.

The CLIPSTER video system provides two ethernet ports. In the operating system identify the port of CLIPSTER that you want to use for the connection. Later, when configuring the networking, you have to configure the properties of the correct port to enable the connection to the Color Correction Panel LX.

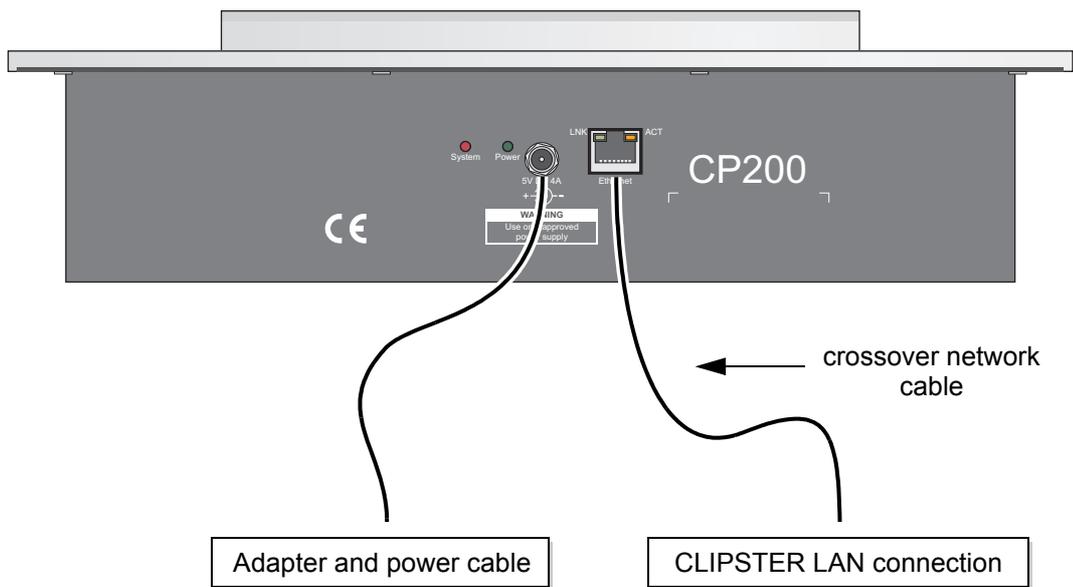


Figure 3-1: Direct connection of Color Correction Panel LX to CLIPSTER

- Connect the 5 V adapter and the power cable to the CLIPSTER Color Correction Panel LX and plug it into a power outlet.

Once the above said is concluded, you have finished the direct hardware connection of the Color Correction Panel LX and it is set up properly. You can now continue the setup by manually configuring the network ports and activating the panel in the software (see section "Manual Configuration of the Networking" on page 3-8).

3.1.2 How to Connect to CLIPSTER via a Hub

The CLIPSTER Color Correction Panel LX can also be connected via a hub to CLIPSTER. For this perform the following:

- Place the CLIPSTER Color Correction Panel LX on a firm, flat surface near the CLIPSTER video system, for example, on a table next to its keyboard.
- After this set up the external connection from the Color Correction Panel LX to the CLIPSTER video system by connecting the ethernet port of the panel with a free port at a hub/switch via a standard network cable.



- Use a second standard network cable to connect the ethernet port (LAN connector) of the CLIPSTER video system to the hub:



The CLIPSTER video system provides two ethernet ports. To establish a connection you may either use an already provided network connection or set up a new one.

If your network does not provide the DHCP service to automatically determine the networking parameters, identify in the operating system the port that CLIPSTER will use for the connection. When configuring the networking, you have to either determine or set the properties of the correct port to enable the connection to the panel.

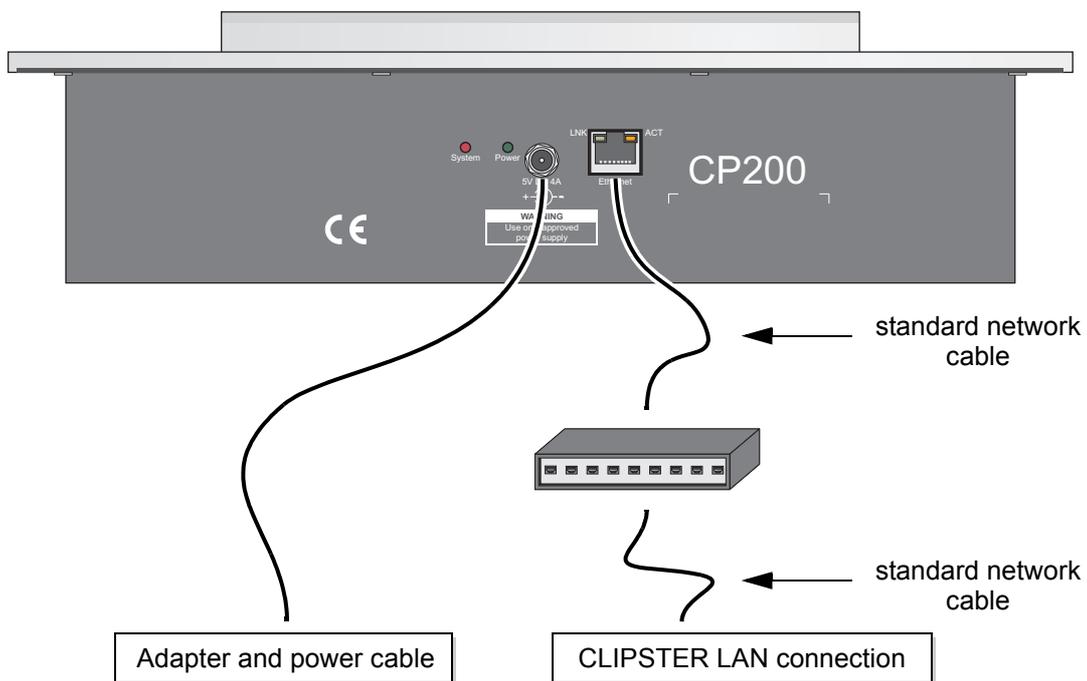


Figure 3-2: Connection of Color Correction Panel LX to CLIPSTER via a hub

- Connect the 5 V adapter and the power cable to the CLIPSTER Color Correction Panel LX and plug it into a power outlet.

Once the above said is concluded, you have finished the hardware connection of the Color Correction Panel LX with the CLIPSTER video system and it is set up properly. You can now continue with the software configuration of the panel either by using the DHCP feature (if provided in your network, see section "Configuration in a DHCP Network" on page 3-5), or by configuring the networking manually (see section "Manual Configuration of the Networking" on page 3-8).

3.2 Configuration in a DHCP Network

Once a hub connection is set up properly as described in section “How to Connect to CLIPSTER via a Hub” on page 3-3 and your network provides the DHCP service, you can use this feature. It will determine the IP addresses as well as the other network parameters automatically, meaning they will be assigned to the panel by the DHCP server that administers the network.

To configure the panel for a DHCP networking you simply have to activate the DHCP support in the software. For this perform the following:

- If appropriate, unplug the power supply and remove the network cable from the panel.
- With the network cable removed turn the panel back on by plugging in the power supply.

During the initialization of the CLIPSTER Color Correction Panel LX you will see in the display besides other information the panel's unique ID:



Figure 3-3: ID number displayed in the display



If you turn any of the knobs or trackballs, or press any of the keys, the ID number will disappear from the display and be replaced by an indication of the control that has been changed.

- Memorize the ID number. It will be required during the activation of the panel in the software.
- After this plug in the network cable again.
- Next start the CLIPSTER software.
- After finishing its loading open the CLIPSTER Configuration Tool and activate the tab to set the default settings (for example, via the menu bar with **Options » Defaults...**).
- Select from the group list of the CLIPSTER Configuration Tool the entry **ControlPanel**.
- Afterwards with the settings of an optional control panel available select from the topmost combo box in the settings pane to the right the entry `ControlPanelLX`.

The settings pane will alter its appearance and the settings for an optional control panel will be displayed:

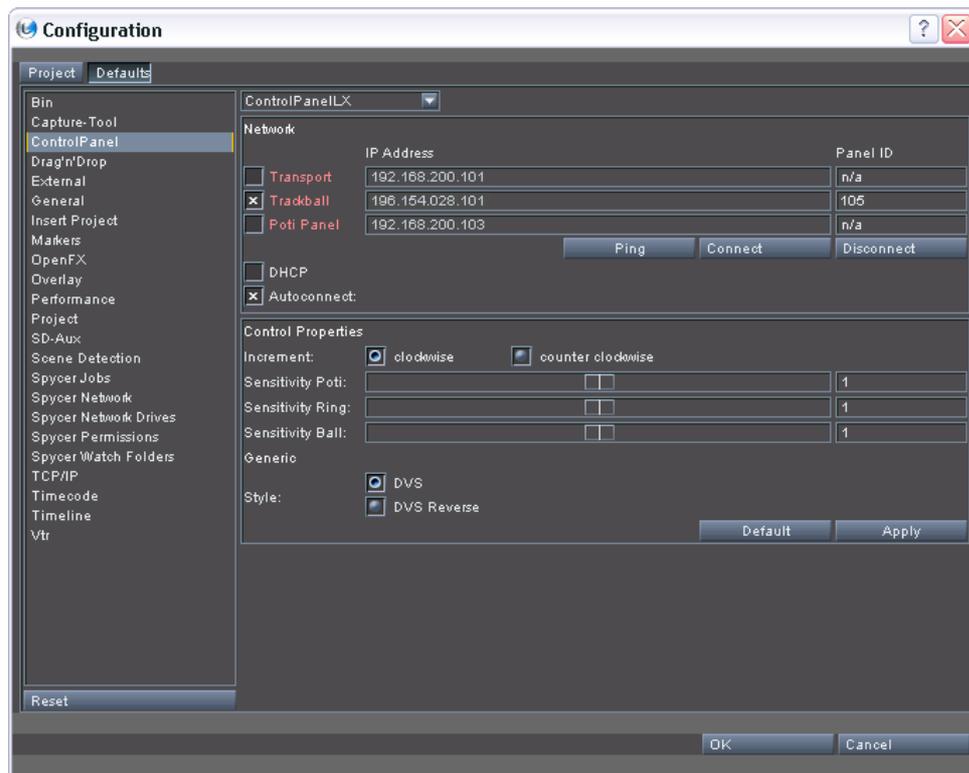


Figure 3-4: Setting and activating the panel



The individual settings items available when the entry `ControlPanelLX` is selected, are explained in section “The Group ‘ControlPanel’ (Configuration Tool)” on page 2-6.

Now you have to set the necessary values to connect successfully to the Color Correction Panel LX:

- Enable the check box **Trackball** to select the Color Correction Panel LX for the connection.
- After this enable the check box **DHCP**.

This will make the fields under **IP Address** unavailable in the software and they can no longer be set because they will be determined and assigned by the DHCP server automatically.

- Enter in the field **Panel ID** of the **Trackball** items the panel’s ID number that you have memorized earlier.

Example: Panel ID: 105

- After that click on the button **CONNECT**.

The CLIPSTER software now sends the commands to connect to the Color Correction Panel LX. When this is achieved, the labeling **Trackball** changes its color from red to green.



In case the panel should be activated automatically in the CLIPSTER software as soon as either the software or the panel is started, you have to enable the check box **Autoconnect** (see section “The Autoconnect Feature” on page 4-3 for further information).

- Once the connection is established, you may confirm your entries with the button **OK** to close the CLIPSTER Configuration Tool.

The CLIPSTER Color Correction Panel LX is now successfully connected to the CLIPSTER video system and activated in the CLIPSTER software. It is ready to be used with the CLIPSTER software as described in chapter “Operation” on page 4-1.



3.3 Manual Configuration of the Networking

When the DHCP feature is not available in your network or when you have connected the panel directly to the CLIPSTER video system, you have to configure the networking manually. How to do this is described in this section: First, it will be described how to determine or set up the parameters of the ethernet port of the CLIPSTER video system, followed by an explanation how to activate the connection in the software.



A configuration of the panel's ethernet port is not required. The IP address will simply be handed over to the panel during its activation in the CLIPSTER software thus establishing the connection.

3.3.1 Setting Up the Ethernet Port of CLIPSTER

To determine or set up the parameters of the ethernet port of the CLIPSTER video system you have to do the following:

- In the operating system of the CLIPSTER video system open the TCP/IP properties window of the ethernet port that you have used for the connection to the Color Correction Panel LX:

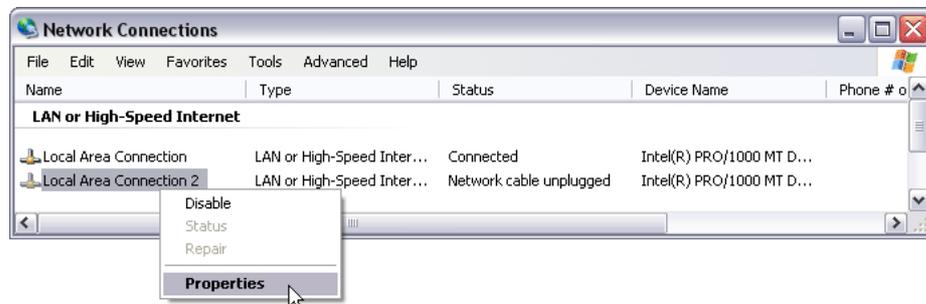


Figure 3-5: Selecting the properties of the ethernet port

This will open the following or a similar window:

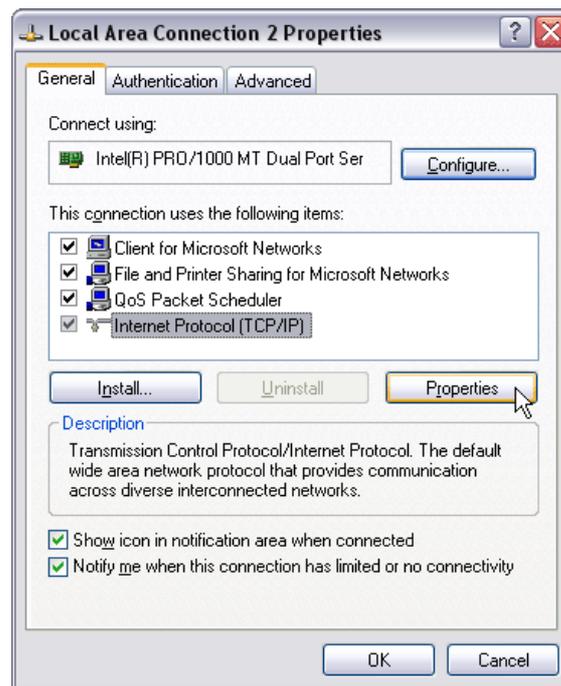


Figure 3-6: Properties of the ethernet port

- In this window choose from the list box the entry for TCP/IP and click on the button **PROPERTIES** (as indicated in the figure above). The following or a similar window will open:

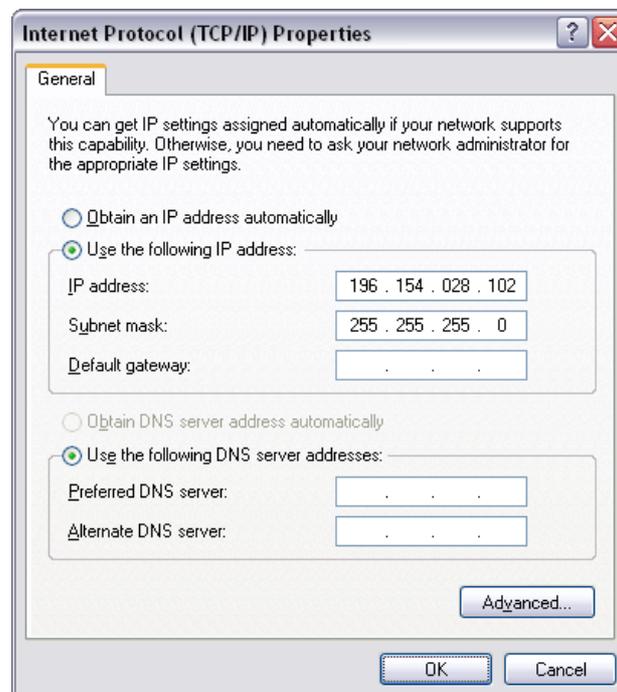


Figure 3-7: Setting the properties of the ethernet port





When using an already provided network connection for the connection of the panel, you only have to memorize or write down the IP address as detailed in the window. After that close all open windows of the operating system and continue the configuration with section "Activation of the Panel in the Software" on page 3-10.

- Activate the radio button **Use the following IP address** to set the necessary values for your network.
- Enter appropriate values for **IP address** and **Subnet mask**. Leave all other fields empty.

Example: IP Address: 196.154.028.102
 Subnet Mask:255.255.255.0



When you have connected the Color Correction Panel LX to CLIPSTER directly, you can select any number for the IP address as long as the first number stays between 1 and 223. Standard subnet masks use numbers of either 0 or 255 as values (as indicated in the example above).

In an already established network you should ask your network administrator for valid numbers of both parameters in your network.

- After this confirm your settings with the **OK** button.

This will close the TCP/IP properties window and afterwards you may close all previously opened windows. With the confirmation of the TCP/IP settings the configuration of the ethernet port of CLIPSTER is finished. As a last step you have to activate the Color Correction Panel LX in the CLIPSTER software which is described next.

3.3.2 Activation of the Panel in the Software

As a last step to use the CLIPSTER Color Correction Panel LX in the CLIPSTER software you have to activate the panel with the help of the CLIPSTER Configuration Tool. For this perform the following:

- If appropriate, unplug the power supply and remove the network cable from the panel.
- With the network cable removed turn the panel back on by plugging in the power supply.

During the initialization of the CLIPSTER Color Correction Panel LX you will see in the display besides other information the panel's unique ID:



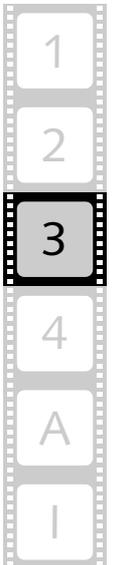
Figure 3-8: ID number displayed in the display



If you turn any of the knobs or trackballs, or press any of the keys, the ID number will disappear from the display and be replaced by an indication of the control that has been changed.

- Memorize the ID number. It will be required during the activation of the panel in the software.
- After this plug in the network cable again.
- Next start the CLIPSTER software.
- After finishing its loading open the CLIPSTER Configuration Tool and activate the tab to set the default settings (for example, via the menu bar with **Options » Defaults...**).
- Select from the group list of the CLIPSTER Configuration Tool the entry **ControlPanel**.
- Afterwards with the settings of an optional control panel available select from the topmost combo box in the settings pane to the right the entry `ControlPanelLX`.

The settings pane will alter its appearance and the settings for an optional control panel will be displayed:



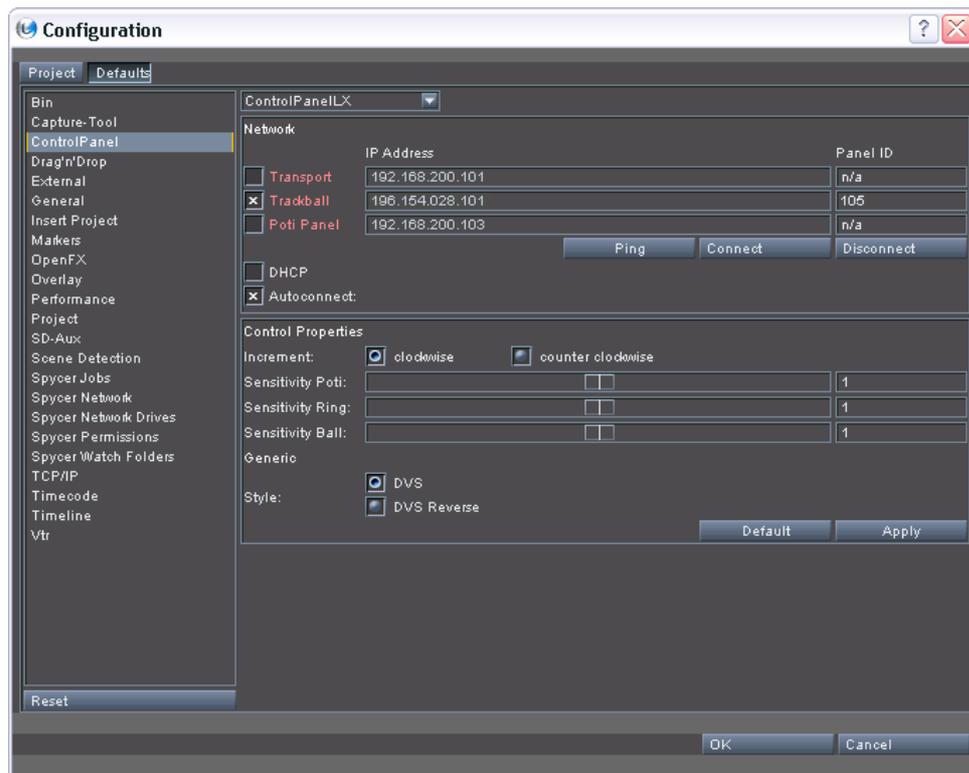


Figure 3-9: Setting and activating the panel



The individual settings items available when the entry `ControlPanelLX` is selected, are explained in section “The Group ‘ControlPanel’ (Configuration Tool)” on page 2-6.

Now you have to set the necessary values to connect successfully to the Color Correction Panel LX:

- Enable the check box **Trackball** to select the Color Correction Panel LX for the connection.
- If appropriate, deactivate the check box **DHCP**.
- Enter in the field **IP Address** of the **Trackball** items the IP address that you have set or determined during your configuration of the ethernet port (see section “Setting Up the Ethernet Port of CLIPSTER” on page 3-8).

Example: IP Address: 196.154.028.101



The class C number of the IP address, i.e. the last three digits of the address, must be different than the one configured or determined at the ethernet port. All other values of the IP address should be identical.

- Enter in the field **Panel ID** of the **Trackball** items the panel’s ID number that you have memorized earlier.

Example: Panel ID: 105

- After that click on the button **CONNECT**.

The CLIPSTER software now sends the commands to connect to the Color Correction Panel LX. When this is achieved, the labeling **Trackball** changes its color from red to green.



In case the panel should be activated automatically in the CLIPSTER software as soon as either the software or the panel is started, you have to enable the check box **Autoconnect** (see section "The Autoconnect Feature" on page 4-3 for further information).

- Once the connection is established, you may confirm your entries with the button **OK** to close the CLIPSTER Configuration Tool.

The CLIPSTER Color Correction Panel LX is now successfully connected to the CLIPSTER video system and activated in the CLIPSTER software. It is ready to be used with the CLIPSTER software as described in chapter "Operation" on page 4-1.



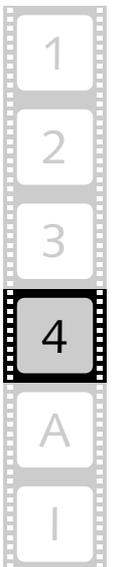
Operation



This chapter describes how to operate the CLIPSTER Color Correction Panel LX together with the CLIPSTER software.

First, the most basic operation is explained, i.e. what to observe during the starting of the panel and the software, and how to turn it off after you have finished your work. However, each time the CLIPSTER software is started and/or the Color Correction Panel LX is turned on they have to connect to each other first to be able to work together. This can be done either automatically (autoconnection) or manually. Both procedures will be explained in this chapter as well.

After that follows a description of how to use the CLIPSTER Color Correction Panel LX together with the CLIPSTER software. Furthermore, this chapter contains a listing of the individual effects that can be adjusted via the Color Correction Panel LX and the operational items of the panel that have to be used for the respective effect. The chapter will be concluded with a description how to reset values to their default settings.



4.1 Basic Operations

This section explains the most basic operations of the CLIPSTER Color Correction Panel LX. It is described how to start the panel and how to turn it off after you have finished your work. However, each time the CLIPSTER software is started and/or the Color Correction Panel LX is turned on they have to connect to each other first to be able to work together. This can be either done automatically (autoconnection) or manually. Both procedures will be explained in this section as well.

4.1.1 Starting or Shutting Down the Panel

The CLIPSTER Color Correction Panel LX provides no extra power switch and it can be turned on or off by simply plugging it in or unplugging it from a mains outlet. It has been built that way because most desktop video workstations provide a main power switch which turns on or off a complete workstation consisting of several individual devices. Nevertheless, after the CLIPSTER Color Correction Panel LX has been supplied with power and the CLIPSTER software is started, they have to connect to each other first to be able to work together.

In most cases the software connects itself automatically to the Color Correction Panel LX as soon as both are running, meaning you can turn on or off the panel and start or end the CLIPSTER software in any sequence you like and after a short period of time the panel will be registered and connected to the CLIPSTER software automatically. Then the display of the Color Correction Panel LX will show you the settings of the first effects key (see section "Effects Key 1" on page 4-7) indicating that it has connected to the CLIPSTER software successfully:



Figure 4-1: Effects settings

However, for an automatic connection of the CLIPSTER software to the Color Correction Panel LX you have to enable this feature first which can be done with the check box **Autoconnect** of the group **Control-Panel** in the CLIPSTER Configuration Tool (see section "The Autoconnect Feature" on page 4-3).

When the autoconnect feature is disabled, no automatic connection of the software will be performed. In such a case you can connect the software to the CLIPSTER Color Correction Panel LX at any time manually (see section "How to Connect to the Panel Manually" on page 4-4).

After your work with the CLIPSTER Color Correction Panel LX is finished, you can turn off the CLIPSTER Color Correction Panel LX and the CLIPSTER software in any sequence you want. As soon as one of them is turned off/exited, the connection between them will be severed.

4.1.2 The Autoconnect Feature

The check box **Autoconnect** of the group **ControlPanel** in the CLIPSTER Configuration Tool (see figure 2-3 on page 2-6) enables an automatic connection of the CLIPSTER software to the CLIPSTER Color Correction Panel LX. With this feature selected the CLIPSTER software tries to connect to the panel during the starting of the software and, if unsuccessful, afterwards again at certain intervals. Once a panel is found, they are automatically connected to each other.

In essence with the autoconnect feature activated you can turn on or off the CLIPSTER Color Correction Panel LX at any time and CLIPSTER will always connect successfully to it again after a short period of time when both are running.

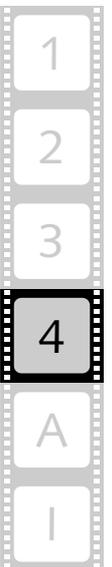


To bring a change of the autoconnection setting into effect, you have to restart the CLIPSTER software.

The user interface of the CLIPSTER software provides in its project information (bottom right of the user interface) an item that allows you to monitor the connection state of the CLIPSTER Color Correction Panel LX. Usually, this item (displaying the words 'ControlPanel') is hidden in the user interface. Only when a change of the connection state is detected by the software, will it be visible shortly, indicating its respective state. The following states are possible:

Item 'ControlPanel'	Explanation
in grey	Connection to Color Correction Panel LX established successfully; this connection state will be hidden from the user interface after a short period of time
in red	Connection to Color Correction Panel LX severed
hidden	Either no connection to the Color Correction Panel LX at program start (e.g. due to a disabled autoconnect feature), or no change in the connection state detected

If the **Autoconnect** check box is not enabled, no automatic connection to the CLIPSTER Color Correction Panel LX will be performed. In such a case you have to connect the CLIPSTER software to the panel manually (see section "How to Connect to the Panel Manually" on page 4-4). Anyhow, after a manual connection of the Color Correction Panel LX you may turn it off and afterwards on again and the software



will automatically reconnect the panel. This will work as long as this particular CLIPSTER software session is not exited. After that no automatic reconnection will be performed anymore and, when starting the software again, you have to connect to the panel manually once more (due to a disabled autoconnect feature).

4.1.3 How to Connect to the Panel Manually

In case the CLIPSTER software is not able to find the CLIPSTER Color Correction Panel LX or when the autoconnect feature is deactivated, you may want to connect the CLIPSTER software to the CLIPSTER Color Correction Panel LX manually. For this you have to use the Configuration Tool of CLIPSTER:

- Open the CLIPSTER Configuration Tool and activate the tab to set the default settings (for example, via the menu bar with **Options » Defaults...**).
- With the default settings selected choose from the group list to the left of the CLIPSTER Configuration Tool the entry **ControlPanel**.

Then the settings pane to the right will alter its appearance and the settings for the CLIPSTER Color Correction Panel LX will be displayed (see figure 2-3 on page 2-6).

- Prior to connecting the panel manually confirm that the network settings to connect to the CLIPSTER Color Correction Panel LX are configured correctly (cf. section "Activation of the Panel in the Software" on page 3-10).
- After that click on the button **CONNECT** to connect to the panel manually.

The CLIPSTER software now tries to connect to the Color Correction Panel LX. When this is achieved, the labeling **Trackball** of the panel's items in the Configuration Tool changes its color from red to green.

- Once the connection is successfully established, you may close the CLIPSTER Configuration Tool.

The CLIPSTER Color Correction Panel LX is now connected to the CLIPSTER software and it is ready to be used together with the software.

4.1.4 How to Disconnect the Panel Manually

Usually, the CLIPSTER Color Correction Panel LX is disconnected automatically as soon as it is turned off. However, in case you want to disconnect it and prevent further autoconnect trials of the CLIPSTER software during this particular session, you may disconnect the panel manually. For this perform the following:

- Open the CLIPSTER Configuration Tool and activate the tab to set the default settings (for example, via the menu bar with **Options » Defaults...**).
- With the defaults settings selected choose from the group list to the left of the CLIPSTER Configuration Tool the entry **ControlPanel**.

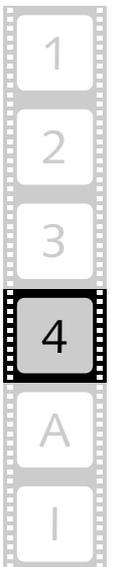
Then the settings pane to the right will alter its appearance and the settings for the CLIPSTER Color Correction Panel LX will be displayed (see figure 2-3 on page 2-6).

- In the settings pane click on the button **DISCONNECT** to sever the connection to the panel manually.

The CLIPSTER software now disconnects the Color Correction Panel LX. When this is achieved, the labeling **Trackball** of the panel's items in the Configuration Tool changes its color from green to red. Afterwards no further reconnection trials are performed by the CLIPSTER software in this session. In case you want to connect to the panel again, you have to do it manually as described in section "How to Connect to the Panel Manually" on page 4-4, or close the CLIPSTER software with the autoconnection feature enabled and afterwards start it again.

- Close the CLIPSTER Configuration Tool.

The CLIPSTER Color Correction Panel LX is now disconnected from the CLIPSTER software and no further reconnection trials will be performed in this session.



4.2 Working with the Color Correction Panel LX

After starting the CLIPSTER software and once a successful connection to the CLIPSTER Color Correction Panel LX is established (see section “Starting or Shutting Down the Panel” on page 4-2), you are able to use the panel together with the CLIPSTER software, i.e. with the CLIPSTER Edit Tool. Then the display of the Color Correction Panel LX will show you the following:



Figure 4-2: Effects settings showing a successful connection

Usually, the effects settings of the first effects key will be displayed by the panel, thereby indicating that the CLIPSTER software is successfully connected to the CLIPSTER Color Correction Panel LX. These default settings can then be used right away as soon as a clip is available in the video track of the timeline area.

To begin to work with the panel perform the following:

- Add at least one clip to the video track of the timeline either by loading a project that contains clips or by adding a clip to the bin and then to the timeline. How to do either one of the procedures is described in the “CLIPSTER Edit Tool” user guide.
- Place the timeline cursor on the clip that should undergo a change of effect, for example, a color correction.
- Next select one of the effects from the effects keys of the CLIPSTER Color Correction Panel LX in case the desired one is not already selected (for a list of all effects keys and their associated functions see section “The Effects Keys” on page 4-7).
- Then use the respective controls of the CLIPSTER Color Correction Panel LX and the selected clip will be changed accordingly.

The effects operator selected via the effects keys of the panel will be added to the clip automatically as soon as a value is altered at the Color Correction Panel LX. You can see this in the properties of the respective timeline clip: For example, if a primary color correction is applied to the clip, the primary color correction operator will be added automatically to the clip. Furthermore, when the primary color correction operator is visible in the CLIPSTER software, you can see the alterations performed at the panel immediately in the settings area of the operator.

4.3 The Effects Keys

The CLIPSTER Color Correction Panel LX offers various effects that can be selected via the effects keys of the panel. The values that the effects provide can be adjusted easily with the knobs and/or the trackballs and rings of the Color Correction Panel LX. This section lists all available effects keys and their associated functions.



Further information about the individual effects operators and their settings as well as any other item mentioned in the following can be found in the "CLIPSTER Edit Tool" user guide.

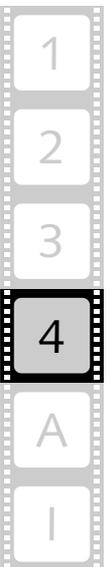
4.3.1 Effects Key 1

With the key [F1] of the CLIPSTER Color Correction Panel LX you can perform a primary color correction of the luminance as well as adjust other color related settings on the selected clip in the timeline (contrast, hue, brightness). Additionally, you can adjust lift, gamma and gain. When this effects key is selected, the necessary values can be adjusted by using the knobs below the display as well as the trackballs and rings.

Key:	[F1]	
Effect:	Master, luma and chroma settings of primary color correction as well as lift, gamma and gain	
Validity:	Selected clip	
Controls:	Knobs, trackballs and rings	
	Knob 1:	Alters the contrast
	Knob 2:	Alters the hue
	Knob 3:	Alters the brightness
	Trackball 1:	Adjusts the RGB values of lift
	Ring 1:	Adjusts the master value of lift
	Trackball 2:	Adjusts the RGB values of gamma
	Ring 2:	Adjusts the master value of gamma
	Trackball 3:	Adjusts the RGB values of gain
Ring 3:	Adjusts the master value of gain	



Depending on the selected layout style of the panel, the settings for lift and gain may be switched (see section "The Area 'Generic'" on page 2-9).



4.3.2 Effects Key 2

With the key [F2] of the CLIPSTER Color Correction Panel LX you can perform additional changes to the luminance and adjust other color related settings on the selected clip in the timeline (luma low, saturation, luma high). Additionally, you can adjust lift, gamma and gain of the primary color correction, i.e. the trackballs and rings provide the same functionality as under the key [F1]. With the key [F2] selected the values can be adjusted by using the knobs below the display as well as the trackballs and rings.

Key:	[F2]	
Effect:	Master, luma and chroma settings of primary color correction as well as lift, gamma and gain	
Validity:	Selected clip	
Controls:	Knobs, trackballs and rings	
	Knob 1:	Alters the low-tones
	Knob 2:	Adjusts the saturation
	Knob 3:	Adjusts the high-tones
	Trackball 1:	Adjusts the RGB values of lift
	Ring 1:	Adjusts the master value of lift
	Trackball 2:	Adjusts the RGB values of gamma
	Ring 2:	Adjusts the master value of gamma
	Trackball 3:	Adjusts the RGB values of gain
	Ring 3:	Adjusts the master value of gain



Depending on the selected layout style of the panel, the settings for lift and gain may be switched (see section "The Area 'Generic'" on page 2-9).

4.3.3 Effects Key 3

The key [F3] allows you to adjust the global/master RGB values of the primary color correction. Also provided on this effects key is the functionality of the key [F1], thus you can adjust lift, gamma and gain of the primary color correction. When this effects key is selected, the values can be adjusted by using the knobs below the display as well as the trackballs and rings.

Key:	[F3]
Effect:	Global/master of primary color correction as well as lift, gamma and gain
Validity:	Selected clip

Controls:	Knobs, trackballs and rings	
	Knob 1:	Alters red of global/master
	Knob 2:	Alters green of global/master
	Knob 3:	Alters blue of global/master
	Trackball 1:	Adjusts the RGB values of lift
	Ring 1:	Adjusts the master value of lift
	Trackball 2:	Adjusts the RGB values of gamma
	Ring 2:	Adjusts the master value of gamma
	Trackball 3:	Adjusts the RGB values of gain
	Ring 3:	Adjusts the master value of gain

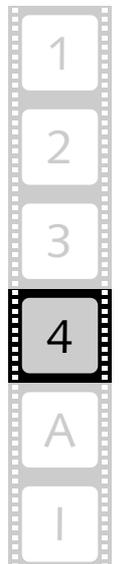


Depending on the selected layout style of the panel, the settings for lift and gain may be switched (see section "The Area 'Generic'" on page 2-9).

4.3.4 Effects Key 4

Via the key [F4] you can alter the operator 'Zoom + Pan' of the CLIP-STER Edit Tool. It enables you to zoom and pan the contents of the video clip in the timeline. Because this operator is by default available and active for all clips in the timeline, it will not be automatically added to the properties of the clip after having adjusted a value. When this effects key is selected, the values can be adjusted by using the knobs below the display as well as trackball 2 and the rings.

Key:	[F4]	
Effect:	Zoom and pan	
Validity:	Selected clip	
Controls:	Knobs, trackball 2 and rings	
	Knob 1:	Pans the clip horizontally (x-axis)
	Knob 2:	Zooms the clip with aspect ratio locked
	Knob 3:	Pans the clip vertically (y-axis)
	Ring 1:	Zooms the width of the clip only
	Trackball 2:	Pans the clip
	Ring 2:	Zooms the clip with current aspect ratio locked
Ring 3:	Zooms the height of the clip only	



4.3.5 Effects Key 5

With the key [F5] you can crop the contents of your timeline, for example, if you need black bars in the video output.



Whereas most effects are valid for a single clip in the timeline only, an alteration of the cropping will be performed for all clips in the timeline, i.e. for the whole timeline.

Furthermore, with this effects key you can alter the operator 'Zoom + Pan' of the CLIPSTER Edit Tool. It enables you to sharpen or blur (setting **Aperture**) the contents of the video clip in the timeline. Because this operator is by default available and active for all clips in the timeline, it will not be automatically added to the properties of the clip after having adjusted a value.

When this effects key is selected, the values can be adjusted by using the knobs below the display as well as trackball 2 and the rings.

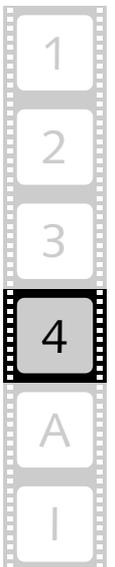
Key:	[F5]	
Effect:	Crop as well as sharpen/blur	
Validity:	Whole timeline (crop) Selected clip (sharpen/blur)	
Controls:	Knobs, trackball 2 and rings	
	Knob 1:	Crops the contents horizontally, i.e. adjusts the vertical borders of the contents (left and right border)
	Knob 2:	Adjusts the sharpness of the clip
	Knob 3:	Crops the contents vertically, i.e. adjusts the horizontal borders of the contents (top and bottom border)
	Ring 1:	Moves the visible part of the cropped contents horizontally (x-axis)
	Trackball 2:	Moves the visible part of the cropped contents
	Ring 2:	Crops the contents with the aspect ratio locked
	Ring 3:	Moves the visible part of the cropped contents vertically (y-axis)

4.3.6 Effects Key 6

With the key [F6] you are able to control the CLIPSTER user interface. It offers you the same features as a mouse as well as some control ele-

ments for a basic control of the CLIPSTER Edit Tool's timeline. Furthermore, with this effects key selected you can adjust the timeline zoom as well as switch through the various video scopes of the CLIPSTER software. When it is selected, you can control the user interface by using the knobs 1 and 3, ring 1, trackball 3, and the reset buttons.

Key:	[F8]	
Effect:	Control of user interface (mouse replacement) and timeline, as well as timeline zoom and video scopes	
Validity:	–	
Controls:	Knob 1, knob 3, trackball 1, ring 1 and reset buttons	
	Knob 1:	Adjusts the zoom of the timeline
	Knob 3:	Switches through the different video scopes of the control area
	Ring 1:	Moves the timeline cursor one frame backward or forward in the timeline
	Trackball 3:	Controls the mouse cursor movement
	Reset ● 1:	Moves the timeline cursor one frame backward in the timeline
	Reset ○ 1:	Moves the timeline cursor one frame forward in the timeline
	Reset ● 2:	Toggles between a reverse play-out and stop of the timeline
	Reset ○ 2:	Toggles between a play-out and stop of the timeline
	Reset ● 3:	Left mouse click
	Reset ○ 3:	Right mouse click



To switch through the different video scopes you can also use the reset key to the right of knob 3.

4.3.7 Effects Keys 7 to 9

The effects keys 7 to 9 (i.e. [F7], [F8] and [F9]) are reserved for future use. Currently they provide no functionality.

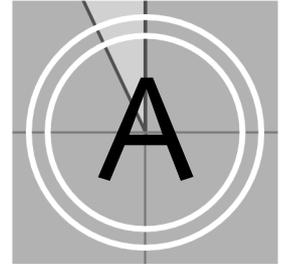
4.4 Resetting Values

Each operation item of the CLIPSTER Color Correction Panel LX provides a reset key (see also section "Top Side" on page 2-2) that usually resets the adjusted value back to its default setting. The reset keys of the knobs are located to the right of the respective knob, whereas the two keys right above the trackballs and rings reset either the respective ring (○) or the trackball (●).



On some effects keys the reset buttons enable functions other than a reset. If such is the case their functionality will be described in section "The Effects Keys" on page 4-7 as well.

Appendix



This chapter provides technical data and general information about the CLIPSTER Color Correction Panel LX. Included are, for example, the dimensions for a desktop mounting as well as troubleshooting information.



A.1 Technical Data

This section provides technical data of the Color Correction Panel LX.

A.1.1 General Technical Data

The general technical data of the panel are as follows:

Dimensions	height: 95 mm (max.) width: 332 mm depth: 381 mm
Weight	approx. 4500 g
Environment	No exposure to heat No exposure to strong electric or magnetic fields
Operating temperature	Maximum: 10 - 30 °C Optimum: 15 - 25 °C
Storage temperature	0 - 50 °C
Humidity	10 - 80 %, non-condensing at all times
Air	Dust-free (recommended)
Surface	No vibrations/shocks allowed
Power	5V DC, 4A; center pin positive connection



Only use the power supply delivered together with the CLIPSTER Color Correction Panel LX. Using a different one may damage the panel or even be dangerous. If you need a power supply specific to your location, please contact your local vendor.

A.1.2 Dimensions for Desk Mounting

Generally, it is expected that the panel will be left free standing on a desk. But the panel provides a lip around its edge, allowing it to be fitted into a hole cut in a desk. The following figure shows the dimensions of the CLIPSTER Color Correction Panel LX in case you want to mount it in a desk. As the following figure shows the minimum recommended hole would be 297 mm x 355.4 mm.



Note that the power connector protrudes approximately 4 mm from the rear.

Please take care not to foul the cables that exit from the rear of the panel when mounting it in a desk.

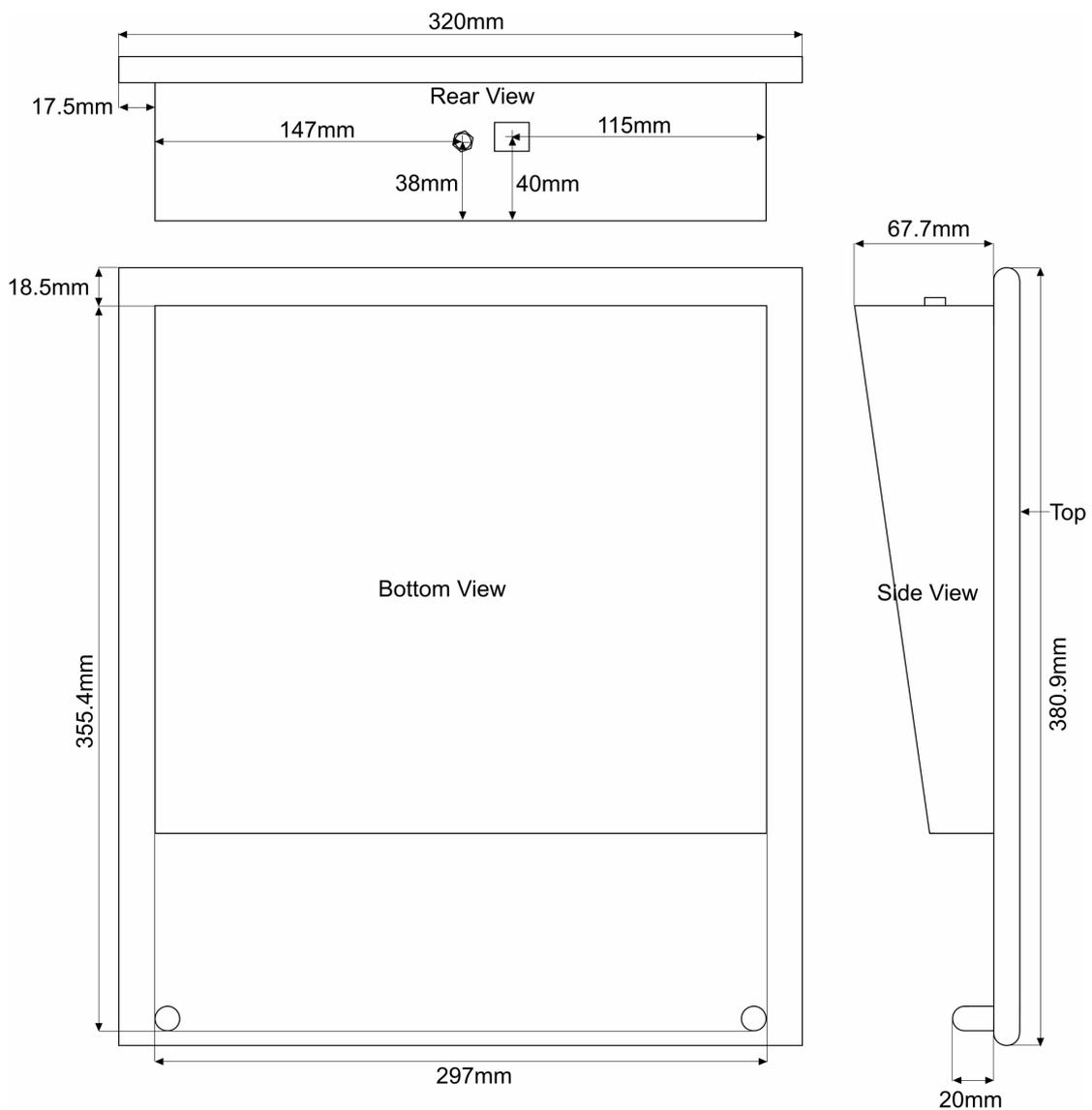


Figure A-1: Dimensions of the panel for a desktop mounting

A.2 Troubleshooting and Self-Test

If for some reason the CLIPSTER Color Correction Panel LX does not give you the expected results, take a moment to do some investigation. The most important concept is that you have your Color Correction Panel LX connected and configured properly as outlined in chapter “Installation and Configuration” on page 3-1. In any case of troubleshooting take a moment to double-check your setup.

Troubleshooting Power

A common problem is that power is not properly supplied to the panel. Make sure all power plugs are plugged in properly and that mains and fuses are working. To isolate a problem further you may also check the lights that indicate power at the external power supply and the rear of the panel. If the panel still does not turn on, please contact the DVS service department.

Communication Problems

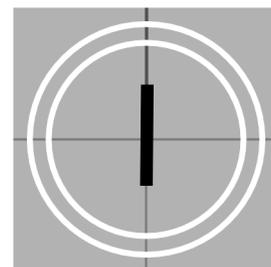
In case you have trouble to communicate with your panel, try a direct connection to the CLIPSTER video system (see section “How to Connect to CLIPSTER Directly” on page 3-2). If the panel works under this simple setup, it will be your network that is causing the problem. In this case it is recommended either to stay with the direct connection or to set up a new network using a hub/switch separated from your local network (see section “Manual Configuration of the Networking” on page 3-8).

Self-Test Mode

The CLIPSTER Color Correction Panel LX provides a self-test mode which aids in troubleshooting the panel. The self-test mode will be automatically engaged when the panel is turned on and no network packages are received, i.e. the network cable should be unplugged during the starting of the panel.

When in the self-test mode, the keys, knobs, trackballs and rings can be tested by simply using them. The status of each operation item will be indicated in the display of the panel: The first number displayed usually indicates the item that is used, while the second number shows the amount of the change. If the latter number does not change when using the control, the item is faulty. In this case please contact the DVS service department.

Index



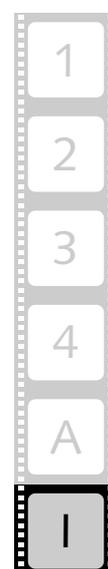
A-C

accessory 1-1
 ACT 2-5
 activation 3-10
 Aperture 4-10
 aspect ratio 4-9, 4-10
 autoconnect 4-2, 4-3
 enable/disable 2-8
 bin 4-6
 blue of global 4-9
 blur 4-10
 brightness 4-7
 Cat 5 2-4
 chapter overview 1-2
 class C number 3-12
 CLIPSTER 1-1
 Color Correction Panel LX 2-7
 Configuration Tool .. 2-6, 3-5, 3-11,
 4-4, 4-5
 control 4-10
 Edit Tool 1-3, 4-6
 optional features 1-1
 Potentiometer Panel 2-7
 software 4-6
 Transport Control Panel 1-1, 2-7
 color correction 1-1, 2-3
 primary 4-7, 4-8
 Color Correction Panel LX 1-1, 2-7
 activation 3-10
 configuration 3-5, 3-8
 desk mounting 1-5, A-3
 installation 3-2
 layout style 2-9
 licensing 2-7
 operation 4-1
 overview 2-1
 rear side 2-4
 shutting down 4-3

 starting 4-2
 technical data A-2
 top side overview 2-2
 usage 4-6
 colorist 1-1, 1-3
 configuration 3-1, 3-8
 default 2-10
 ethernet port 3-8
 in a DHCP network 3-5
 of CLIPSTER software 2-6, 3-10
 of panel 2-6
 Configuration Tool 2-6, 3-5, 3-11, 4-4,
 4-5
 connection 2-8
 automatic 2-8, 4-2, 4-3
 disconnect 2-8, 4-4
 ethernet 3-2, 3-3
 manual 4-4
 severed 4-3
 successful 2-8, 3-7, 3-13, 4-2, 4-3,
 4-6
 contrast 4-7
 control of GUI 4-10
 control properties 2-9
 conventions
 of user guide 1-3
 cropping 2-3, 4-10
 crossover network cable 3-2

D-F

default settings 2-10
 delivery of panel 1-6
 desk mounting 1-5
 dimensions A-3
 DHCP 2-7, 2-8, 3-2
 settings 3-5
 disconnect connection 2-8, 4-4
 display 2-3



Edit Tool 1-3, 4-6
 effects 4-7
 effects keys 2-3, 4-7
 labeling 2-3
 environmental conditions 1-5, A-2
 ethernet 2-4
 connection 3-2, 3-3
 port 3-2, 3-3
 port (configuration) 3-8
 frame backward 4-11
 frame forward 4-11

G-I

gain 2-10, 4-7, 4-8, 4-9
 gamma 4-7, 4-8, 4-9
 global 4-8
 blue 4-9
 green 4-9
 red 4-9
 green of global 4-9
 group 'ControlPanel' 2-6
 guarantee 1-5
 high-tones 4-8
 hub 3-2, 3-3
 hue 4-7
 important notes 1-5
 increment (rings) 2-9
 installation 3-1, 3-2
 instructions
 installation 3-2
 safety 1-4
 shut down of panel 4-3
 starting of panel 4-2
 usage 4-6
 IP address 2-7, 3-10, 3-12
 class C number 3-12

J-L

keys
 effects keys 2-3, 4-7
 reset keys 2-3, 4-12
 test A-4
 knobs 2-3
 sensitivity 2-9
 test A-4
 LAN 3-2, 3-4
 layout style of panel 2-9
 LED
 ethernet connector 2-5
 power 2-4

 system 2-4
 left mouse button 4-11
 licenses 2-7
 lift 2-10, 4-7, 4-8, 4-9
 LNK 2-5
 low-tones 4-8
 luma high 4-8
 luma low 4-8
 luminance 4-7, 4-8

M-O

manual connection 2-8, 4-4
 master
 see global
 mouse 4-10
 left button 4-11
 right button 4-11
 network administration 1-3
 network cable
 crossover 3-2
 standard 3-3
 network settings 2-7
 notes (important) 1-5
 operation 4-1
 operator 4-6, 4-7
 overview
 of chapters 1-2
 of Color Correction Panel LX 2-1
 rear side 2-4
 top side 2-2

P-R

pan 4-9
 panel ID 2-7, 2-8, 3-5, 3-6, 3-10, 3-12
 Ping 2-7
 play-out (timeline) 4-11
 reverse 4-11
 Potentiometer Panel 2-7
 Poti Panel 2-7
 power 2-4
 cable 3-3, 3-4
 supply 1-4, 2-4, A-2
 primary color correction 4-7, 4-8
 project 4-6
 rear side 2-4
 red of global 4-9
 reset keys 2-3
 numbering 2-3
 usage 4-12
 reverse play-out 4-11

