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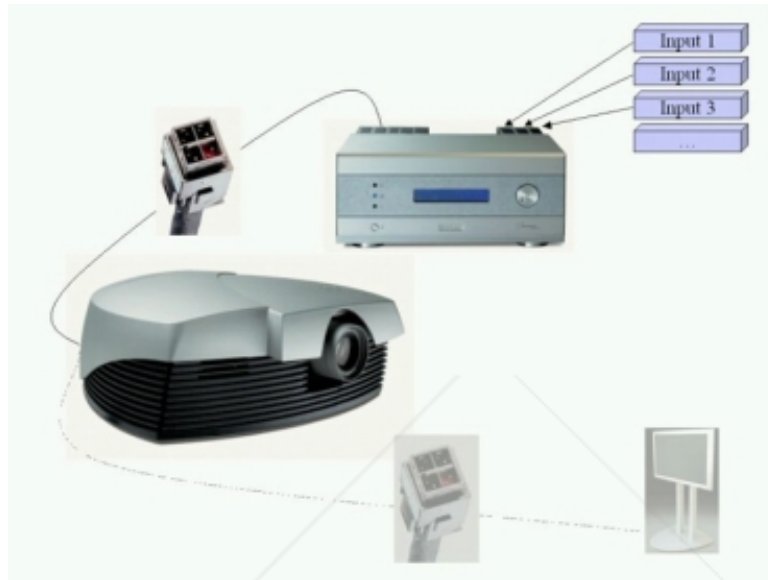


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CINE VERSUM SYSTEM

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Introduction to the user :

If this equipment does cause interference to radio or television reception, the user may try to correct the interference by one or more of the following measures :

- Re-orientation of the receiving antenna for the radio or television.
- Relocate the equipment with respect to the receiver.
- Plug the equipment into a different outlet so that the equipment and receiver are on different branch circuits.
- Fasten cables connectors to the equipment by mounting screws.



The use of shielded cables is required to comply within the limits of Part 15 of FCC rules and EN55022.

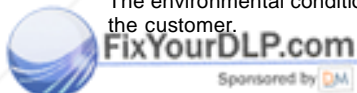
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1. SAFETY INSTRUCTIONS

Overview

- General Safety Instructions
- Module Related Safety Instructions



This manual is intended for the user/operator of the installed digital video distribution system. Any change in cabling or servicing of the installed modules must be performed by service personnel having appropriate technical training and experience necessary to be knowledgeable of potential hazards to which they are exposed in performing a task, and of measures to minimize the potential risk to themselves or other persons.

1.1 General Safety Instructions

Lightning

For added protection for this video distribution system during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the power cord. This will prevent damage to the modules due to a lightning and power-line surges.

Object and Liquid Entry

Never push objects of any kind into the modules through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electrical shock. Never spill liquid of any kind on the product.

Servicing

Do not attempt to service the modules yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Damage Requiring Servicing

Unplug the modules from the wall outlet and refer servicing to qualified service personnel under the following circumstances:

- If the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the modules.
- If the module has been exposed to rain of water.
- If the product exhibits a distinct change in performance, this indicates a need for service.

1.2 Module Related Safety Instructions

Overview

- Cine VERSUM 80
- Cine VERSUM 50
- Cine VERSUM Master

1.2.1 Cine VERSUM 80

On cooling

The cooling fan in this projector continues to run for about 1 min. after the projector is turned off. During normal operation, when turning the power off always use the power down function on the Master or the remote control. Ensure the cooling fan has stopped before switching off the projector using the power switch.

DURING NORMAL OPERATION, NEVER TURN THE PROJECTOR OFF BY DISCONNECTION THE POWER CORD. FAILURE TO OBSERVE THIS WILL RESULT IN PREMATURE LAMP FAILURE:

Slots and Openings

Slots and openings in the cabinet and the sides are provided for ventilation; to ensure reliable operation of the projector and to protect it from overheating, these openings must not be blocked or covered.

1. SAFETY INSTRUCTIONS

Protection from Ultraviolet Radiation

WARNING: DO NOT LOOK DIRECTLY IN THE HIGH INTENSITY LIGHT BEAM. The lamp contained in this product is an intense source of light and heat. One component of the light emitted from the lamp is ultraviolet light.

1.2.2 Cine VERSUM 50

Lightning conditions

In extremely bright surroundings, adjusting the screen intensity may not result in perceptibly brighter images. Keep in mind that extreme intensity settings can reduce system service life.

Prevent condensation

One of the chief sources of problems during winter is 'condensation'. Rapid temperature fluctuations can deposit water vapor inside the unit or on the screen, degrading performance. If condensation occurs, turn the unit off and leave it off for an hour or so. It is also good practice to increase the room temperature gradually.

1.2.3 Cine VERSUM Master

Unit damage

If the air filter is not regularly cleaned or replaced, the air flow inside the unit could be disrupted, causing overheating. Overheating may lead to the master shutting down during operation.



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2. SYSTEM CONFIGURATION

Overview

- The Video Distribution Solution
- Overview of the System

2.1 The Video Distribution Solution

The Cine VERSUM Revolution

Thank you for purchasing the Cine VERSUM system from Barco. You are now at the gates of projection heaven.

The Cine VERSUM from BARCO Home Theatre is the result of a completely new look at home theater. BARCO has fundamentally changed the way a home theater system works, from source to image! We are proud we have fulfilled your demands, with this very first non-compromise home theater solution ever released.

All the modules of the system form a single transparent solution. The Cine VERSUM Series is not just a new range of products: it is a future-proof platform that is compatible with all future standards.

What does modular, future-proof, no-compromise mean?

Think of the audio world: in the low end of the market, audio switching, processing and amplification are done within a single unit. The single unit does it all, and is therefore inherently a compromise "combo". In the high end of the market however, individual modules are optimized to do one specific task:

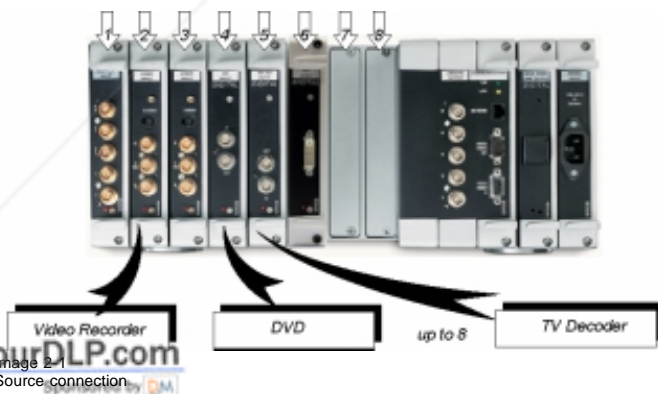
- A pre-amplifier or AV processor.
- A separate power amplifier for all, or multiple power amplifiers for each individual audio channel.
- A digital link between pre- and power amplifier to guarantee a perfect signal transmission.

Barco Home Theater, with CineVERSUM, brings to the high-end video world what the audio world has been enjoying for many years: a truly modular solution, with exceptional video quality.

2.2 Overview of the System

Source managing

The Cine VERSUM system allows you to manage your sources in an easy and comfortable way. As the Cine VERSUM Master can be stored close to your sources, signal loss is limited as much as possible. Once the signal is processed, in a completely digital way, the high-bandwidth cable allows for non-compromise distribution.



Display linking

Given this one-cable design, we integrated the possibility of chaining multiple display units, one after another. As such, your Cine VERSUM Master can feed a combination of up to 32 projectors (Cine VERSUM 80) and plasma displays (Cine VERSUM 50).

2. SYSTEM CONFIGURATION

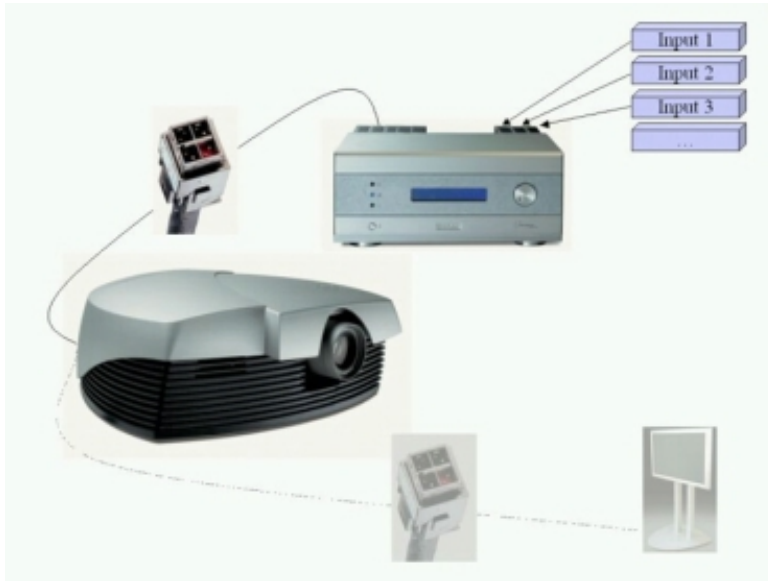


Image 2-2
Display link

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3. OVERVIEW USER'S CONTROLS

Overview

- Cine VERSUM Master
- Cine VERSUM 80
- Cine VERSUM 50
- Remote Control
- Remote Control operation

3.1 Cine VERSUM Master

Front View

The front side of the Cine VERSUM Master is provided with the following controls:



Image 3-1
Front side Cine VERSUM Master

Controls function description

Ref.	Function	Description
1	Infra Red Reception LED indicator	Lights up when a valid Infra Red signal from the Remote Control has been captured.
2	Infra Red Receiver	Reception diode for the Infra Red signals sent by the Remote Control when a key is pressed.
3	Standby LED	Blinks when the Cine VERSUM Master has been powered down to Standby or Economy Standby mode.
4	Main power switch	(see SWITCHING ON/OFF THE CINE VERSUM SYSTEM, page 15)
5	LCD Display	This display indicates the status of the Cine VERSUM Master and allows you to navigate through the different menus.
6	Selection and Confirmation dial	The knob allows to navigate through the different menus.

Table 3-1

3.2 Cine VERSUM 80

Top View

The top side of the Cine VERSUM 80 is provided with the following controls:

3. OVERVIEW USER's CONTROLS

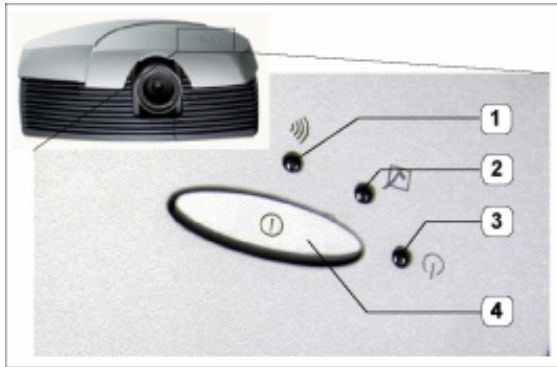


Image 3-2
Cine VERSUM 80 controls

Controls function description

Ref.	Function	Description
1	Infra Red Receiver	Reception diode for the IR signals from the Remote Control. Allows switching On/Off (Standby) of the projector separately and controlling the Cine VERSUM Master.
2	Infra Red Reception LED indicator	Lights up when a valid IR signal from the Remote Control has been captured.
3	Standby LED	Lights up continuously: projector in the operation mode. Lights up repeatedly 2 times short, 1 time long: projector in the standby mode Blinks fast: projector in the cooling down mode after switching off (duration 1 min.). Lights up repeatedly 1 time long, 1 time short: projector has been started up in the cooling down mode, waiting for lamp ignition.
4	Main power switch	Button pressed, switches the projector in the 'Standby' mode. This mode is indicated by the standby LED which lights up repeatedly 2 times short, 1 time long.

Table 3-2

3.3 Cine VERSUM 50

Rear and Front view

The only hardware control on the Cine VERSUM 50 is the Main Power Switch (1), located at the backside of the screen itself. This switch puts the Screen in the 'OFF' or Standby position 'ON'. From the Standby position, the operation is controlled by the Cine VERSUM Master.

The status of the Plasma screen is indicated by a blue LED (3), located at the bottom on the right of the screen. In the same corner an IR LED (2) is mounted .

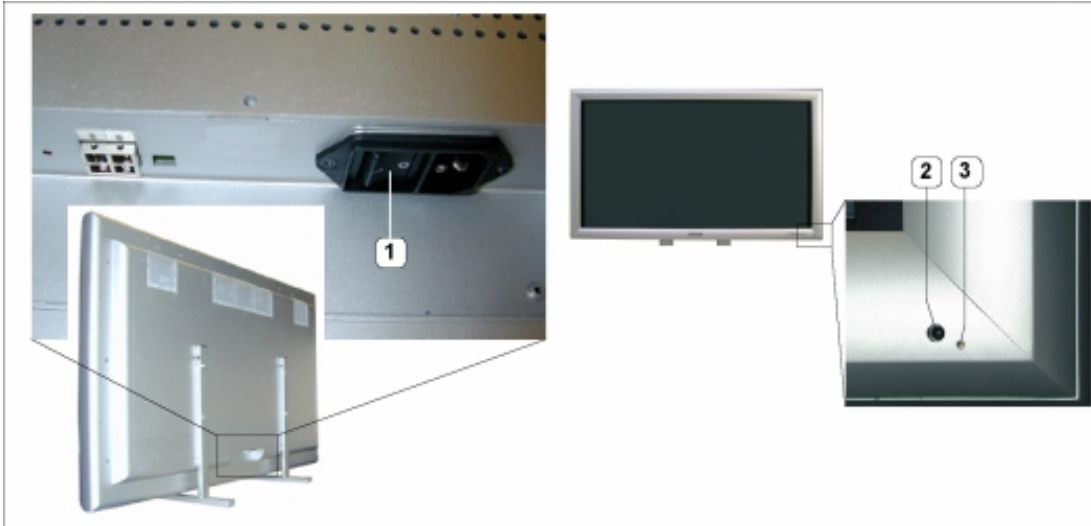


Image 3-3
Cine VERSUM 50 controls

Controls function description

Ref.	Function	Description
1	Main Power Switch	Switches the Cine VERSUM 50 in the Standby mode. Operation mode is controlled by the Cine VERSUM Master.
2	Infra Red Receiver	Reception diode for the IR signals from the Remote Control to control the Cine VERSUM Master.
3	Standby LED	Indicates the status of the Cine VERSUM 50, lights up in standby and operation mode.

Table 3-3

3.4 Remote Control

Top side

The Infra Red Remote Control buttons support the following functionality:

3. OVERVIEW USER's CONTROLS

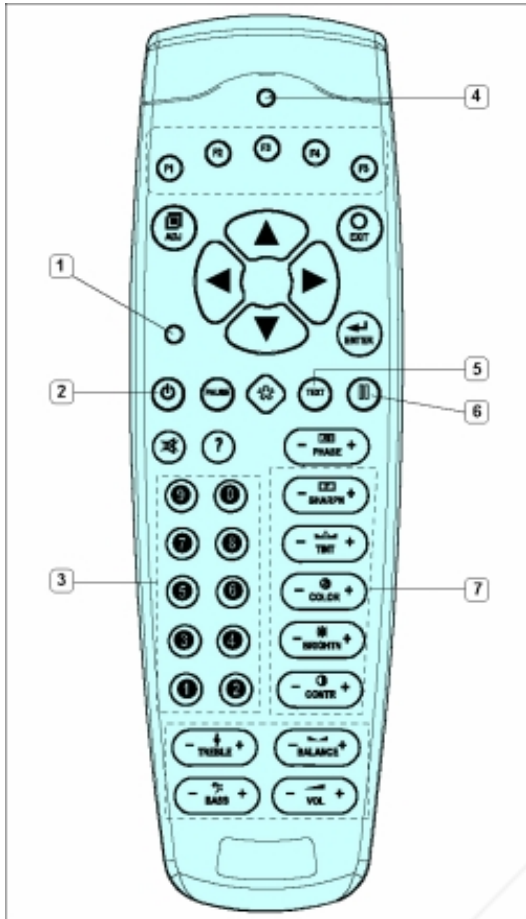


Image 3-4
Remote Control

Controls function description

Ref.	Function	Description
1	Address button	To match the Remote Control with the unit that you are addressing (number between 0 and 9).
2	Standby button	To power up/down the Cine VERSUM Master and the displays in the link.
3	Digit buttons	Allows to directly select sources.
4	RC operation indication	Lights up when a button on the remote control is pressed (Visual indication of remote control operation – Battery check).
5	TEXT	Press to remove bar scale display when adjusting picture. Press button again for reactivation.
6	FREEZE	Press to freeze the image
7	Picture controls	Allow to optimize the picture reproduction

Table 3-4

Stored Sources

The Cine VERSUM Master can be equipped with up to 8 digital and analog input modules. These modules are linked to your sources and can be selected with the touch of a button on the Remote Control.

The table below allows you to note the stored source per input slot, digit button 1 to 8.

Digit Button	Stored source
1	
2	
3	

Digit Button	Stored source
4	
5	
6	
7	
8	

3.5 Remote Control operation

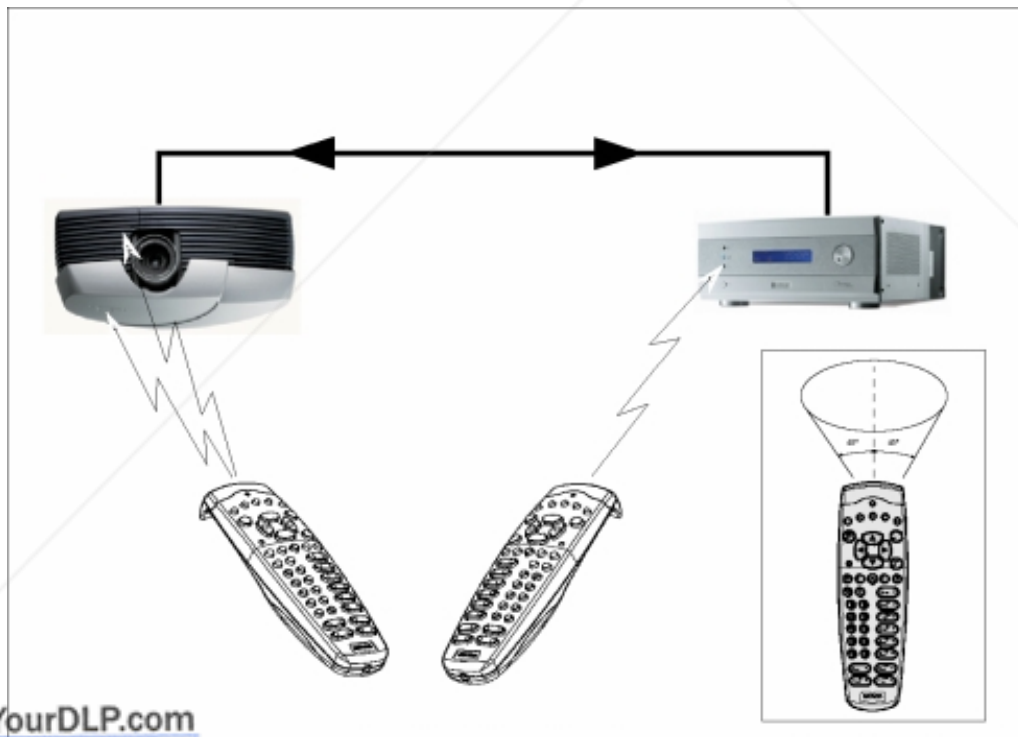
Overview

- General
- Battery Insertion in the Remote Control
- Visualization of commands

3.5.1 General

How to use

The Remote Control allows you to control your Cine VERSUM Master, even when it is built into a cabinet. Indeed, the SL/XL cable allows for 2-way communication. This means you can point the Remote Control to a display unit and still change the settings of the Cine VERSUM Master.



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 Image 3-5 sponsored by DM
 Master control via 2-way communication SL/XL cable

Backlighting

When a button on the remote control is pressed, backlight is activated automatically. That allows the user to operate the remote control in a dark room. Backlight is turned off automatically a few seconds after the last button activation.

 **If backlight and RC operation indicator lights up too long or continuously, batteries need to be replaced.**

3. OVERVIEW USER's CONTROLS

Factory address setting of the modules

The factory address setting of the modules is as follows:

Module	Individual Address	Common Address
Cine VERSUM 80	address <9>	no common address
Cine VERSUM 50	address <9>	no common address
Cine VERSUM Master	address <1>	common address <0>



Common address: is a fixed address, stored in the module. The module will execute the commands sent by a Remote Control, programmed with the common address <0>.

3.5.2 Battery Insertion in the Remote Control

Where to find the batteries

The batteries are not placed in the remote control to avoid remote control operation in its package, resulting in a shorter battery life time.

How to install the batteries

1. Push the cover tab (A) with the fingernail a little backwards and pull upwards the cover top (B). (image 3-6)
2. Slide the cover forwards to remove. (image 3-7)
3. Push the battery body towards the spring and lift it up to remove. (image 3-8)
4. Insert two AA size batteries, making sure the polarities match the + and – marks inside the battery compartment (image 3-8).
5. Insert the lower tab of the battery cover in the gap at the bottom of the remote control, and press the cover until it clicks in place (image 3-8).



Image 3-6
Battery cover unlock



Image 3-7
Battery cover removal



Image 3-8
Battery removal

How to reinstall the address

By removing the batteries, the address in the Remote Control will be set to 0. In case the different modules are controlled separately (own address), the respective address of the module you desire to control has to be set. To reinstall an address, follow procedure below:

1. Point the Remote Control to the module of which you want to know the address and press the address button (use a pencil) (image 3-9)

On the screen appears a message box (image 3-10) indicating the address number. In the graphical display of the Cine VERSUM Master appears the same message (image 3-11).

2. To adapt the address in the Remote Control, cover the IR transmitting diodes and press the address button once, followed within the 5 seconds by pressing the corresponding digit button, 1 to 8.

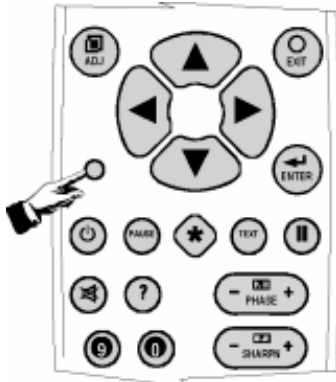


Image 3-9



Image 3-10
Message address on-screen



Image 3-11
Message address display master

3.5.3 Visualization of commands

How the commands are visualized

When a button on the Remote Control or the dial knob on the Cine VERSUM Master is pressed, the command is visualized on the screen of the plasma display or of the projector and also on the graphical display of the Cine VERSUM Master. This can take the form of a menu, a message or a bar scale. Below an illustration of each item:



Image 3-12
On-screen main menu

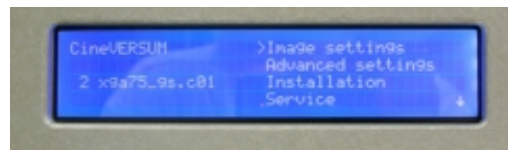


Image 3-13
Main menu on Master display

3. OVERVIEW USER'S CONTROLS



Image 3-14
On-screen message



Image 3-15
Message on Master display



Image 3-16
On-screen bar scale

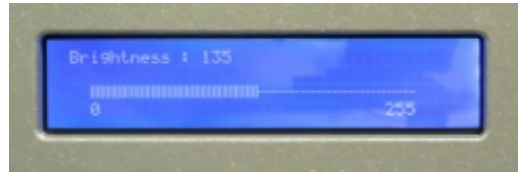


Image 3-17
Bar scale on Master display

4. SWITCHING ON/OFF THE CINE VERSUM SYSTEM

Overview

- Brief introduction
- Upon first startup
- Switching the system between OPERATION and STANDBY
- Switching the system between STANDBY and ECONOMIC Standby
- Switching the system OFF completely and BACK to Operation mode
- Turning ON the system from total OFF mode

4.1 Brief introduction

About the handled system in this manual

The Cine VERSUM is a modular system that provides you the possibility to connect more than one display device to the Cine VERSUM Master.

In this owner's manual, we only discuss the most common case : one Master linked to one Projector. For info on the more complex systems, please review the installation manual.

This is the chapter's structure:


- Upon first startup
- Switching the system between OPERATION mode and STANDBY
- Switching the system between STANDBY and ECONOMIC STANDBY
- Switching the system OFF completely and BACK TO OPERATION mode.

4.2 Upon first startup


Required steps

There are two steps upon first startup:

1. Press the power switch (A) on the Cine VERSUM Master. (image 4-1)

The Cine VERSUM Master goes from OFF to STANDBY, visualized by blinking of the standby indicator  (B).

2. Press the power switch (A) on the Cine VERSUM 80. (image 4-2)

The Cine VERSUM 80 goes from OFF to STANDBY, visualized by blinking of the standby indicator  (B).

3. Select "Power up" in the menu on the Cine VERSUM Master, using the jog dial. (image 4-3, image 4-4)


The Cine VERSUM Master and the Cine VERSUM 80 go from STANDBY to operation, visualized by lighting up of the proper standby indicator  (B).



Image 4-1
Cine VERSUM Master

4. SWITCHING ON/OFF THE CINE VERSUM SYSTEM



Image 4-2
Cine VERSUM 80



Image 4-3
Cine VERSUM Master jog dial



Image 4-4
Power up selection

4.3 Switching the system between OPERATION and STANDBY

Overview

- From OPERATION mode to STANDBY mode
- From STANDBY mode to OPERATION mode

4.3.1 From OPERATION mode to STANDBY mode

Using the Jog dial on the Cine VERSUM Master

1. Press the jog dial once to enter the main menu. (image 4-5)
2. Rotate the jog dial until "Shut down" in the menu is pointed to. (image 4-6)
3. Press jog dial to activate the Shutdown selection.

The Cine VERSUM Master and the Cine VERSUM 80 go from OPERATION to STANDBY. During the power down process, a power down message appears on-screen and on the Master display. At the end, the Master displays the enter menu screen. (image 4-7, image 4-8)



Image 4-5
Main menu



Image 4-6
Shutdown selection




Image 4-7
Power down message



Image 4-8
Enter menu screen

Using the Remote Control

1. Point the Remote Control to the front of the Cine VERSUM Master or to the Cine VERSUM 80.
2. Press the standby button  (image 4-9)

The Cine VERSUM Master and the Cine VERSUM 80 go from OPERATION to STANDBY.

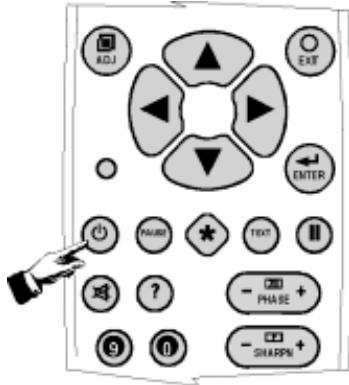


Image 4-9


4.3.2 From STANDBY mode to OPERATION mode

Using the Jog dial on the Cine VERSUM Master

1. Rotate the jog dial until "Power up" in the menu on the Cine VERSUM Master is pointed.
2. Press jog dial to activate the selection.

The Cine VERSUM Master and the Cine VERSUM 80 go from STANDBY to OPERATION, displaying the last selected source.

Using the Remote Control

1. Point the Remote Control to the front of the Cine VERSUM Master or to the Cine VERSUM 80.
2. Press the standby button 

The Cine VERSUM Master and the Cine VERSUM 80 go from STANDBY to OPERATION, displaying the last selected source.

4.4 Switching the system between STANDBY and ECONOMIC Standby

Overview

- From STANDBY mode to Economic STANDBY
- From Economic STANDBY mode to STANDBY

4.4.1 From STANDBY mode to Economic STANDBY

Using the Jog dial on the Cine VERSUM Master

1. Press the jog dial once to enter the Power up menu. (image 4-10)
2. Rotate the jog dial until "Economic" in the menu on the Cine VERSUM Master is pointed to. (image 4-11)
3. Press jog dial to activate the selection

The Cine VERSUM Master and the Cine VERSUM 80 go from STANDBY to Economic STANDBY. The economic standby is visualized in the Master display with a Zzzzz-message with turned off backlighting. (image 4-12)



Image 4-10
Power up menu



Image 4-11
Economic menu

4. SWITCHING ON/OFF THE CINE VERSUM SYSTEM



Image 4-12
Economic standby

Using the Remote Control

1. Point the Remote Control to the front of the Cine VERSUM Master or to the Cine VERSUM 80
2. Toggle with the ↑ or ↓ arrow keys until “Economic” in the menu on the Cine VERSUM Master is pointed to (image 4-11).
3. Press **ENTER** to activate selection.

The Cine VERSUM Master and the Cine VERSUM 80 go from STANDBY to Economic STANDBY. The economic standby is visualized in the Master display with a Zzzzz-message with turned off backlighting (image 4-12).

4.4.2 From Economic STANDBY mode to STANDBY



Awaking the Cine VERSUM Master from the economic standby mode is only possible with the jog dial.

How to awake the Cine VERSUM Master

1. Press the jog dial once.

The Cine VERSUM Master and the Cine VERSUM 80 go from Economic STANDBY to STANDBY. (image 4-13, image 4-14)

2. Switching to operation mode, see From STANDBY mode to OPERATION mode, page 17.



Image 4-13
Economic standby



Image 4-14
Standby screen

4.5 Switching the system OFF completely and BACK to Operation mode

Overview

- Turning OFF the system from Operation mode

4.5.1 Turning OFF the system from Operation mode

How to turn OFF the system totally

1. First, switch the system in the standby mode (see From OPERATION mode to STANDBY mode, page 16).
2. Press the power switch on the Cine VERSUM 80 (image 4-2).

The Cine VERSUM 80 goes from standby to OFF.

3. Press the power switch on the Cine VERSUM Master (image 4-1).

The Cine VERSUM Master goes from standby to OFF.

4.6 Turning ON the system from total OFF mode

How to turn ON the system back to Operation mode

1. Press the power switch on the Cine VERSUM Master (image 4-1).
The Cine VERSUM Master goes from OFF to standby. (image 4-15)
2. Press the power switch on the Cine VERSUM 80 (image 4-2).
The Cine VERSUM 80 goes from OFF to standby.
3. Turning on to operation mode, see From STANDBY mode to OPERATION mode, page 17.



Image 4-15



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5. DIRECT SOURCE SELECTION

5.1 From standby mode

Using the digit buttons on the Remote Control

1. Make sure that the connected sources to the Cine VERSUM Master are turned on.
2. Using the digit button on the Remote Control, key in the corresponding slot number (from 1 to 8). (image 5-1)

The Cine VERSUM Master powers up and starts on its turn powering up the connected displays. Image of the selected source appears on the display.

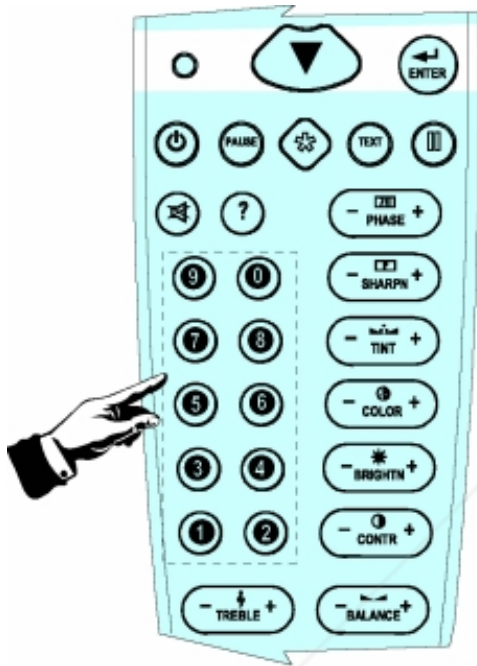



Image 5-1
Digit buttons on Remote Control

Using the standby button on the Remote Control

1. Make sure that the connected sources to the Cine VERSUM Master are turned on.
2. Using the standby button  on the Remote Control, press the standby button. (image 5-2)

The Cine VERSUM Master powers up and starts on its turn powering up the connected display. The image of the last selected source will be redisplayed on the connected display.

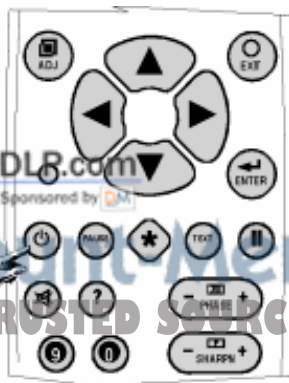


Image 5-2
Standby button on Remote Control

5.2 Return to standby mode

How to return to standby remotely

1. Point the Remote Control to the front of the Cine VERSUM Master or the Cine VERSUM 80.
2. Press the standby button on the Remote Control again. (image 5-2)

The Cine VERSUM Master switches to the standby mode and switches on its turn the connected display into the standby mode.



When switching the Cine VERSUM 80 into the standby mode, a cool down period for the lamp of about 1 minute is activated. As a result, restarting of the lamp is not possible during the cool down period. This mode is indicated by the standby LED which blinks at a beat of 0.3 on/0.3 off

6. IMAGE CONTROL

Image controls

The Brightness, Contrast, Sharpness (Detail), Color and Tint functions are directly accessible with the Remote Control.

The adjustment functions, when selected, display a slide bar overlaid on the source image.



It is useful to adjust the **Brightness**, whenever the ambient room lighting changes. The same is true for **Contrast**. Please note that for the best result, it is advised to first change the **Brightness**, then the **Contrast**.

6.1 Brightness Control

How to adjust the Brightness

The Brightness function is used to adjust the overall light output. To adjust the Brightness, press the (+) or (-) side of the button 'BRIGHT' (image 6-1).

The following barscale is overlaid on the source image, image 6-2.

Press the (+) button for a brighter image or the (-) button for a darker image.

If video or data is displayed with a black background, adjust until the background just appears (black becomes a very dark grey).

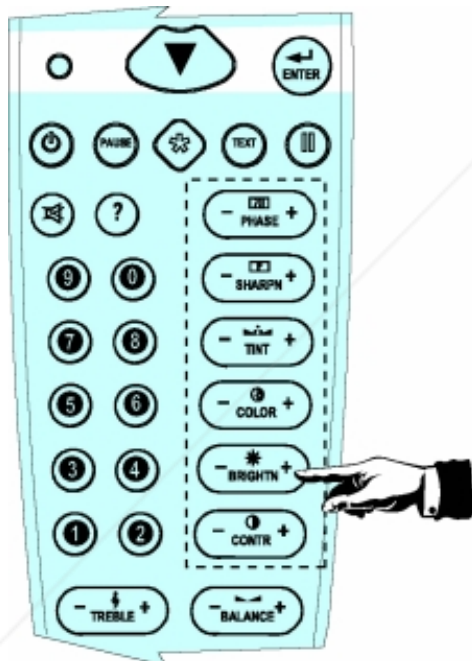


Image 6-1

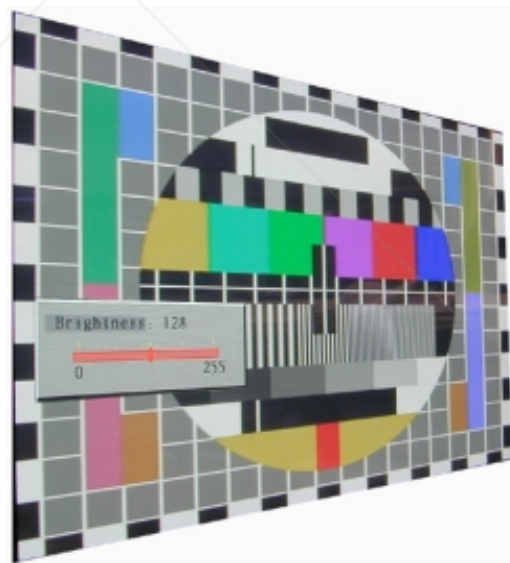


Image 6-2



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6.2 Contrast Control

How to adjust the Contrast

The Contrast function is used to adjust the contrast between the light and dark areas of the displayed image.

To adjust Contrast, press the (+) or (-) side of the button 'CONTR' (image 6-3). The following barscale is overlaid on the source image, image 6-4.

Press the (+) or (-) button until dark parts of the image show good detail.

If Contrast is set too high, the image loses detail and clarity. If set too low, it may be difficult to distinguish between foreground and background information.

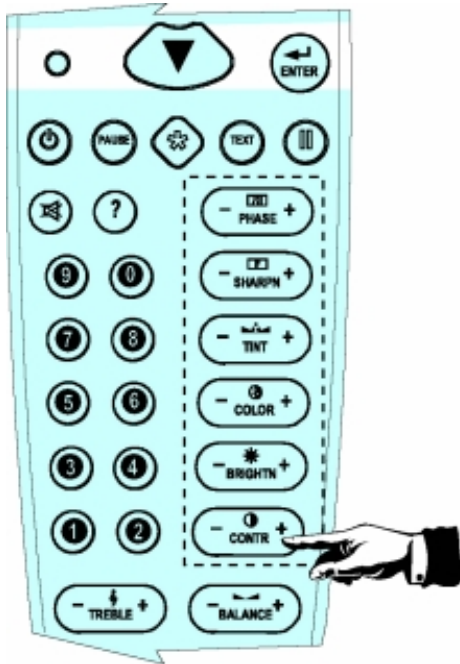


Image 6-3



Image 6-4

6.3 Sharpness (Detail) Control

How to adjust the Sharpness

The Sharpness function is used to adjust the image sharpness of video signals when using a video decoder installed in the Cine VERSUM Master.

To adjust the Sharpness, press the (+) or (-) side of the button 'SHARP' (image 6-5). The following barscale is overlaid on the source image, image 6-6.

Press the (+) or (-) button until the sharpest display is attained. Detail level should be roughly proportional to the input signal quality. Higher levels of detail improve good quality levels. Low levels of detail reduce noise in poor quality signals.

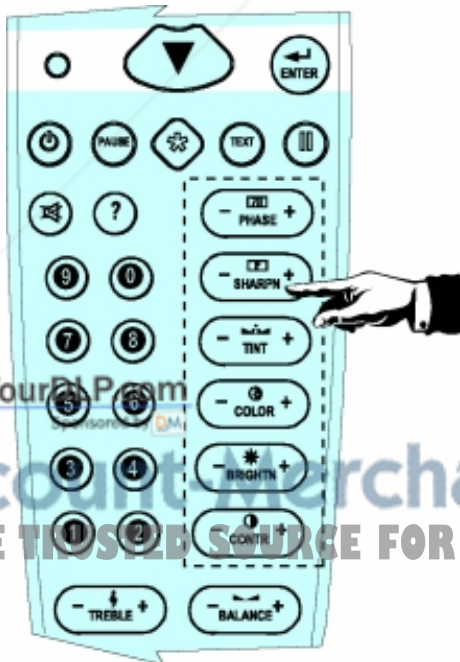


Image 6-5



Image 6-6

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6.4 Color (Saturation) Control

How to adjust the Color (Saturation)

The Color function is used to adjust color saturation levels and is only active for Video and S-Video sources.

To adjust Color, press the (+) or (-) side of the button 'COLOR' (image 6-7). The following barscale is overlaid on the source image, image 6-8.

Press the (+) or (-) button until the desired color saturation level is displayed. If color is set to a 0% level, the result will be black and white picture. If the color is set too high, the color levels in the image will be over-powering.

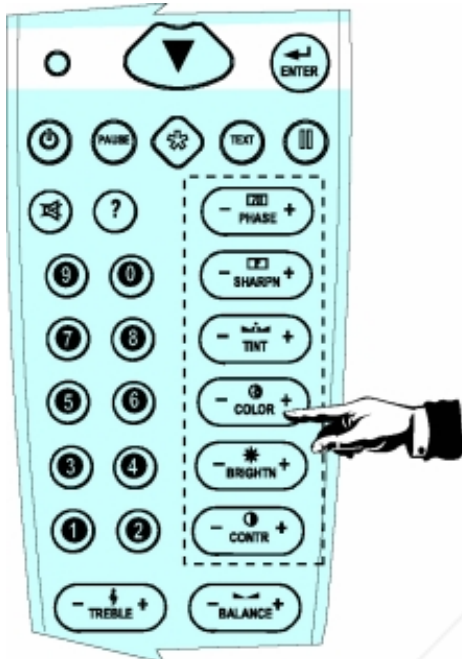


Image 6-7



Image 6-8

6.5 Tint control

How to adjust Tint (Hue)

The Tint function is used to adjust color hue to obtain true color reproduction and is only active for Video and S-Video when using the NTSC4.43 or NTSC 3.58 color system. For PAL and SECAM sources, Tint is not adjustable.

To adjust Tint, press the (+) or (-) side of the button 'TINT' (image 6-9). The following barscale is overlaid on the source image, image 6-10.

Press the (+) or (-) button until an optimal display is obtained. It is best to adjust tint while displaying an image with natural flesh tones.

6. IMAGE CONTROL

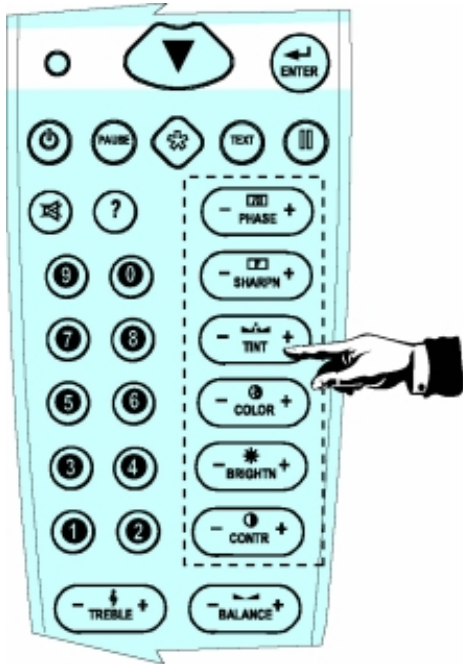


Image 6-9



Image 6-10

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