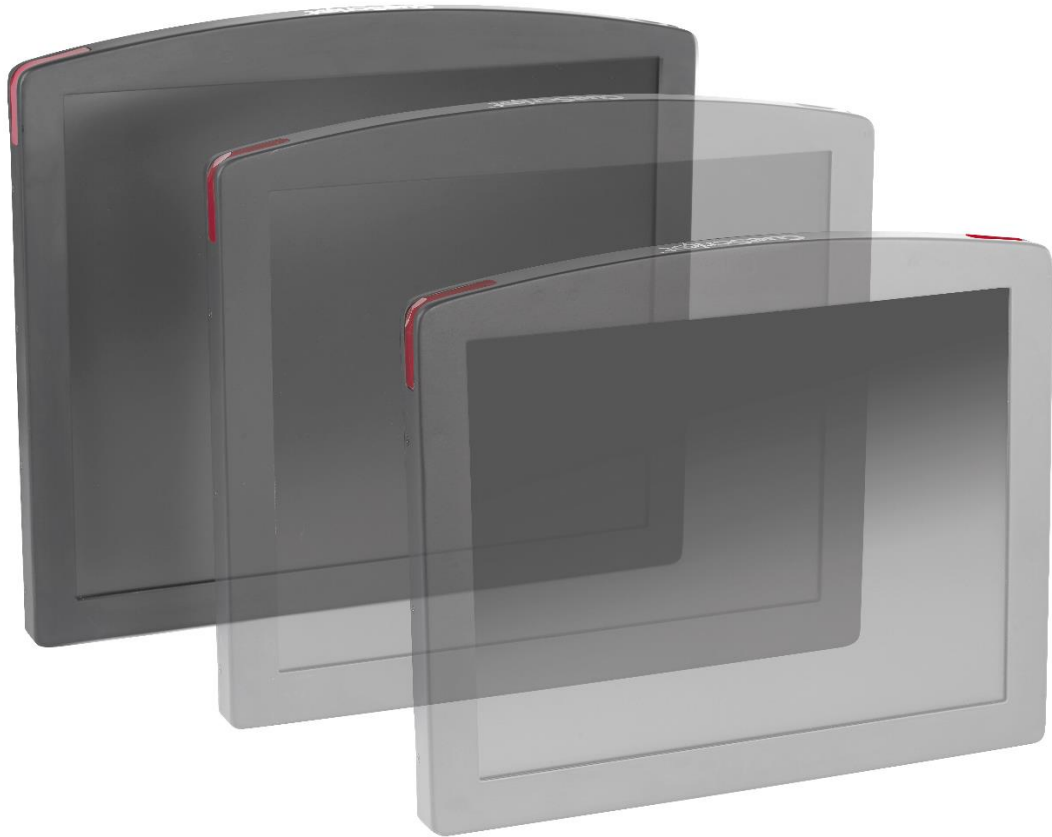


CueScript

A WAY WITH WORDS...

Installation and Operation Manual **Next Generation On-Camera Prompter Displays**



Model CSM 15-17-19 Prompters

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I. CueScript CSM-15, 17, 19” Prompters

CueScript was created with a “clean slate” in order to design the most up to date prompters in the industry. These new low profile prompters have all the state of the art features demanded by professional prompter users. A unique dual curved Cue Light window system enhances the ability for all studio personnel to see the active prompter. A quick, no-tools required, mounting system instantly installs the prompter to the mount. The mount doubles as an external heat sink keeping the prompter internal temperatures low.

The CueScript CSM-15, 17, and 19 monitors have High Brightness LED edge-lit screens and deliver superb picture quality. Standard power saving modes allow use where power is limited such as when powering from the camera power source. Several ways to trigger the Cue lights and two Cue light output options allow for maximum flexibility of system integration.

High brightness screens with a high contrast ratio and standard built in HD-SDI sets CueScript apart from all others. A built in mounting “T” rail system offers the user the ability to quickly add accessories underneath the prompter.

II. CueScript Prompter Features

- **Unique quick mount doubles as external heat sink.**
- **Aluminium case with scratch resistant powder coat finish.**
- **Backlight dimming or cut feature when composite video is not changing.**
- **Three power consumption modes for use with limited power availability.**
- **Unique curved dual dimmable Tally Lights with Optical Sensor input and repeat outputs.**
- **4 Pin XLR DC power out socket for powering external devices.**
- **Powered by AC mains or 4 Pin XLR 12V DC.**
- **Designed for maximum performance with minimum power consumption.**
- **HD-SDI input with re-clocked output standard.**
- **Instant four way picture rotate pushbutton switch.**
- **Pushbutton switch for instant input selection.**
- **T-rail slots on the underside for accessory mounting.**
- **Backlit LED pushbuttons for ease of operation.**

III. Display Technical Specifications

Model CS-15

Screen Size	15.0 inch diagonal
Display Area	304.128(H) x 228.096(V)mm
Native Resolution	1024 x 768 (XGA)
Brightness	1500 cd/m ²
Contrast Ratio	700:1
Viewing Angle	160° (H), 140° (V)
Backlight Technology	High Brightness LED

Model CS-17

Screen Size	17.0 inch diagonal
Display Area	337.92(H) x 270.336(V)mm
Native Resolution	1280 x 1024 (SXGA)
Brightness	1000 cd/m ²
Contrast Ratio	1000:1
Viewing Angle	170° (H), 160° (V)
Backlight Technology	High Brightness LED

Model CS-19

Screen Size	19.0 inch diagonal
Display Area	376.32(H) x 301.06(V)mm
Native Resolution	1280 x 1024 (SXGA)
Brightness	1500 cd/m ²
Contrast Ratio	1000:1
Viewing Angle	170° (H), 160° (V)
Backlight Technology	High Brightness LED

IV. Signal Inputs

All CueScript prompters are designed to accept the most common video signals used in prompting. The following signals are compatible. Please contact CueScript for any special requirements.

- Composite PAL, NTSC, or SECAM Video
- VGA
- HD-SDI

Remove dust from the cabinet when it accumulates. The front LCD panel may be cleaned with a soft cotton cloth. Use only a small amount of mild soap and water solution to dampen the cloth if necessary.

No routine checks or adjustments are required.

IX. Installation

A. Inspecting New Prompter and Accessories

Each item should be inspected as it is unpacked to see if any damage has occurred in shipping. If so, please file a claim with the shipping carrier. Please retain the original packaging in the event it is necessary to reship the unit.

Any missing items should be noted and brought to the attention of the shipper.

B. Installation Requirements

The following requirements should be observed when installing a CS-15, 17, or 19" prompter.

- Do not exceed the maximum operating ambient temperature of +40° C .
- Do not block any ventilation holes in the prompter cabinet. Free flow of air is required for proper operation.
- Use the power supply cord supplied with the unit. Connect the cord to a grounded AC mains outlet.
- **EMC and Safety Compliance:** CS-15, 17, and 19" Prompters have been designed for EMC and safety compliance. However, the installer or operator is responsible for compliance of the system as built and used under the regulations governing such use.

X. Connectors and Controls



A. AC Power

AC Mains Inlet:

IEC socket with built in fuseholder and lighted ON/OFF switch

AC Mains Cord required:

Three wire 18 Gauge conductors with IEC socket and country appropriate plug. Safety ratings such as UL or TUV are preferred.

Fuse type:

5X20mm Fast acting glass fuse rated at 3A 250V AC.

Example fuse: Littlefuse part no. 0235003.HXP

It is required to replace the fuse with the same type and current rating.

B. DC Power

The CueScript prompters require a regulated source of 12 VDC that should be capable of supplying approximately 5 amperes. Alternatively, a battery with sufficient capacity may be used. Prompter lower power settings will reduce the current requirements.

Prompter Connector type: 4 pin XLR Male plug

Mating (cable) connector: 4 pin XLR Female socket

Pin	Description
1	GROUND (connected to monitor chassis)
2	No Connection
3	No Connection
4	+12V DC

Power Consumption Tables

Model CS-15	Power Consumption @ 12 VDC
High Power Mode	24 Watts
Medium Power Mode	19 Watts
Low Power Mode	17 Watts

Model CS-17	Power Consumption @ 12 VDC
High Power Mode	39 Watts
Medium Power Mode	31 Watts
Low Power Mode	27 Watts

Model CS-19	Power Consumption @ 12 VDC
High Power Mode	45 Watts
Medium Power Mode	36 Watts
Low Power Mode	32 Watts

C. Composite Video In and Out

Prompter Connector type: 75 Ohm BNC Socket

Mating (source) connector: 75 Ohm BNC Plug

Pin	Description
Center	Composite Video In (PAL,NTSC, or SECAM)
Outer	Ground

D. Loop/Terminate Slide Switch

Operation: Monitor can be set to Loop or Terminate in 75 ohms. Set the switch to 75 Ohm termination when there are no additional devices connected. When additional monitors are connected, the final video connection (at the end of the loop) should be terminated.

E. HD-SDI In and Out

Description: HD and SD SDI input with an output that is re-clocked and buffered. The input and output are compliant with SMPTE 259M-C and SMPTE 292M standards.

Prompter Connector type: 75 Ohm BNC Socket

Mating (cable) connector: 75 Ohm BNC Plug

Pin	Description
Center	HD-SDI In
Outer	Ground

F. VGA In

Description: CueScript prompters have a PC compatible VGA input. The prompter will automatically scale the input resolution to the screen native resolution.

Prompter Connector type: 15 pin High Density D socket
Pin connections are standard VGA.

G. Cue Light (Optical) Sensor In

NOTE: In this manual, the terms Cue Lights and Tally lights are used interchangeably.

Description: When the CueScript Cuelight sensor is installed, it allows the built in Cue lights to illuminate when the sensor sees sufficient light. Typically the sensor is affixed with a Velcro ring around the camera tally light LED.

There are two additional ways the Cue Lights may be triggered. Grounding (through a relay or transistor switch) the sensor input will cause the Cue Lights to illuminate.

A second way is to apply a voltage (5-24 VDC) to the +Logic Tally input (Tally Sensor In pin 2).

Sensor Description: Photocell device. 16K Ω to 33K Ω @ 10 lux. 1M Ω or more at 0 lux.

Light on the optical sensor or grounded input = CUE LIGHTS ON
No light on the optical sensor or open input = CUE LIGHTS OFF

Prompter Connector type: USB-B (mini-B USB)

Mating (cable) connector: USB-B (mini USB) plug

Pin	Description
1	Sensor In
2	+ Logic Tally
3	No Connection
4	Ground

H. Tally (or Cue) Repeat Out

-Tally Repeat Description:

Open drain (similar to open collector) output giving contact closure of positive voltage to ground when the internal Cue Light is ON. Can be used to signal accessory devices that the tally is active.

+Tally Repeat Description:

Provides a current source output sourcing a positive voltage when the internal Tally Light is ON. Can also be used to signal accessory devices that the tally is active. May be used to power a low current auxiliary cue light.

Prompter Connector type: USB-B (mini-B USB)

Mating (cable) connector: USB-B (mini USB) plug

Pin	Description
1	No Connection
2	-Tally Repeat
3	+Tally Repeat
4	Ground

I. USB Out

Provides a .5A source of 5 VDC to power accessories. Also has a duplication of the tally plus and minus outputs.

Prompter Connector type: USB-A (Standard USB)

Mating (cable) connector: USB-A (USB) plug

Pin	Description
1	+5 VDC
2	-Tally Repeat
3	+Tally Repeat
4	Ground

J. Accessory DC Power Out

Description: Provides a 12V DC supply to operate external accessories. Fused internally with a resettable fuse. This output is only available while powering the prompter by AC mains.

Prompter Connector type: 4 pin XLR Female socket

Mating (cable) connector: 4 pin XLR Male plug

Pin	Description
1	Ground
2	No Connection
3	No Connection
4	+12 VDC

XI. Operation

A. Control Panel



There are **11** buttons on the right side of the prompter. All of these buttons are illuminated and nine of them increase brightness when touched. After a short period of time when no buttons have been pushed, they will revert to their low brightness level. The two backlight inactivity control buttons have fixed brightness levels.

Two of these buttons control the backlight brightness. Pressing the up or down button will increase or decrease the backlight brightness. The actual brightness level will be stored in memory so that when the prompter is turned off and back on again, the set brightness level will return.

B. Backlight Inactivity Control

Two buttons are dedicated to backlight control when there is no changing composite video. The two backlight buttons – Off or Reduced, activate the backlight control function. When there is a period of video inactivity on the screen, the backlight may be shut down completely (Off) or backed down to a low level (Reduced) in order to conserve power and prolong backlight life. Pressing one or the other of these two buttons activates the function. Pressing the activated button a second time shuts off the function. When a period of video inactivity exceeds the value of the timer, the backlight will either go off or reduce the brightness to a very low level. The respective button will flash when it is in that mode.

C. Input and Rotate Buttons

There are two buttons for input selection and screen rotation. Pressing the input button will cause the prompter to select the next video input source in succession. Pressing the rotate button will cause the screen to “flip” in both the horizontal way and the vertical way for a total of four possible ways. Successively pressing the rotate button while

watching the prompting mirror, allows for a quick set up for proper operation. The rotate button is depicted as a circular arrow to the right.

D. Menu keys

There is a group of four buttons arranged as Up and Down, and Left and Right, with one button in the center. The operation of these buttons for the on-screen display is as follows:

MENU

- **Activates or deactivates the OSD (On-Screen-Display) menu**
- **Reverts to one higher level menu page**
- **Must be pressed for less than 4 seconds to prevent going into the Prompter set up menu**

DOWN ARROW

- **Moves the OSD selection DOWN one item**

UP ARROW

- **Moves the OSD selection UP one item**

RIGHT ARROW (+)

- **Increments the OSD item value**
- **Enters into a OSD sub menu**
- **Stores the new value entered on the OSD**

LEFT ARROW (-)

- **Decrements the OSD item value**

See the Section 5.3 for more information on the LCD OSD control functions.

E. Prompter Setup Menu

This is accessed by pressing the Menu button for 5 seconds or more and navigated using the Up and Down buttons and the Left and Right Arrow buttons. The following are the Prompter set-up options:

- **High/Med/Low Power**
- **Cuelight Brightness**
- **Cuelight Sensitivity**
- **Switch Brightness**
- **Backlight Cut or Dim Delay**
- **Dim-Cut Level**
- **Reset to Factory Defaults**

To adjust any of these settings, proceed as follows:

1. Press and HOLD the Menu button for 5 seconds or more.
2. When Menu is released, you should see the CueScript menu appear on the bottom of the screen. Scroll the available options with the UP or Down Buttons.
3. When you find the menu option you want to change, press the right arrow.
4. Adjust the option item value by pressing the Up or Down arrow button.
5. When the menu option is set, press the right arrow to store it.
6. To exit the menu system, press the left arrow button. Note you must press it twice to get out of a second order menu item.
7. If no keys are pressed, after a short while, the menu system will “time out” and go off. In this event, nothing will be stored in memory. Any changes made will stay until the prompter is turned off. The changes are not permanent unless they are stored in memory.
8. Backlight video motion timer cut or dim modes are fixed brightness and the appropriate button will flash when the timer has expired due to no motion in the video.

Exiting before storing any changes keeps the change until you turn off power. On re-application of power, the old (stored) value is restored.

When you select the factory default menu item, all CueScript factory default values are applied and all LCD controller factory defaults are also applied.

When any pushbutton except the backlight cut or dim buttons is pressed, The LED button backlight increases for a while. The Led's will return to the dimmer setting upon time out.


When in the CueScript menu mode, no control of the backlight brightness, input selection, Backlight Cut or Dim, or rotation is possible.

F. LCD Controller Menu


To make adjustments to the LCD display, pressing the MENU button and quickly releasing it will bring up the LCD On-Screen-Display (OSD) menu. The MENU button must be pressed for less than 4 seconds to avoid entering the Prompter set up menu.


Pressing the Right or Left arrows and the Up or Down arrows allows you to highlight available changes in the LCD controller menu. Generally, once you have navigated to the item you want to change, and enter in a new value, the Right arrow button will store the change.


OSD functions





Picture :


Volume^{###}  Increase/decrease volume level, total: 100 steps

Brightness  Increase/decrease panel brightness level, total: 100 steps


Contrast  Increase/decrease panel contrast level, total: 100 steps


Saturation  Increase/decrease saturation, total: 100 steps


Hue ^{**}  Increase/decrease Hue level, total: 100 steps


Sharpness^{*}  Increase/decrease sharpness, total: 30 steps


Position^{**}

 Move the image position upward

 Move the image position downward


 Move the image position to the left


 Move the image position to the right


Backlight  Backlight brightness adjustment (Functions when light detector sets OFF)

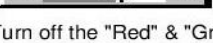
Aspect / Size ▶


- Fill Screen : Enable full screen expansion for lower resolution Image
- Fill to Aspect Ratio: Enable fill screen expansion for lower resolution image according to aspect ratio
- 4 : 3 : scaling format in 4:3
- 16 : 9 : scaling format in 16:9
- 16 : 10 : scaling format in 16:10
- 2.35 : 1 : scaling format in 2.35:1
- 2 : 1 : scaling format in 2:1
- 1 : 1 : Display the exact image resolution on the screen without image expansion.
- Custom Sizing^{####} :
 - Overscan
 - Normal
 - Custom ▶

H Size 

V Size 

H Pan 

V Pan 

Blue Only  ON / OFF : Turn off the "Red" & "Green" channel (i.e. output all zero to Red & Green channel)
 [This function will display on OSD menu when JP4 – 5-6 closed]

* : DISPLAY IN VIDEO MODE ONLY
 ** : FUNCTION IN ARGB/ DVI / VIDEO NTSC MODE ONLY
 # : DISPLAY IN ARGB / DVI MODE ONLY
 ## : FUNCTION IN ARGB MODE ONLY
 ### : DISPLAY WHEN AUDIO ADD-ON BOARD CONNECTED
 #### : DISPLAY IN VIDEO / HD/SD SDI 1 / HD/SD SDI 2 MODE ONLY



Input : Select the input video signal

- HD/SD SDI 1
- HD/SD SDI 2***
- VGA#
- DVI
- HD Component
- Composite 1
- Composite 2***
- S-Video
- SD Component

: Press "-" key to activate the "Auto Picture Setup" function.

PIP Setup ▶

PIP Source ▶

HD/SD SDI 1 / HD/SD SDI 2 / VGA / DVI / HD Component / Composite 1 / Composite 2 / S-Video / SD Component / Off

PIP Size : Off / Small / Medium / Large / PBP

4 possible input groups that can be mixed for PIP :

- a) VGA/HD-Component
- b) DVI
- c) HD-SDI
- d) Composite/S-Video/SD-component

It can not allow to select signal source from the same group for PIP.
[See Appendix VII – PIP mix table]

PIP Position :



Move the PIP position upward



Move the PIP position downward



Move the PIP position to the left



Move the PIP position to the right

PIP Swap : Swap between the main window and PIP window

PIP Auto off : OFF ON : OFF / ON

ON : When PIP is no signal input after 30 seconds, the PIP window will turn off automatically.

OFF : PIP window keeps on

*** DISPLAY WHEN SETTING ON UNDER SETUP → AUTO SOURCE SEEK



Utilities :

Setup ▶

Auto Picture Setup# : Auto adjust the image position, phase and size

Auto Color Gain## : Auto Color Calibration (See appendix IV)

Wide Screen Mode detection# ▶ : Recognize the wide screen mode coming from ARGB port

- Off
- 1280x768
- 1366x768

Manual Clock## : Adjust the image horizontal size

Manual Phase# : Fine tune the data sampling position (adjust image quality)

Auto Source Seek :

- Auto : OFF ON : OFF / ON

ON – Auto source select always enable

OFF – Disable auto source select function

- Setup ▶ Selection for the corresponding input sources detection

HD/SD SDI 1 OFF ON

HD/SD SDI 2 OFF ON

VGA OFF ON

DVI OFF ON

HD Component OFF ON

Composite 1 OFF ON

Composite 2

S-Video

SD Component

The corresponding input port name display on OSD menu will disappear once setting "OFF".

De-interlacing Mode* ▶

AFM : Auto Film Mode
 TNR : Temporal Noise Reduction
 MADI : Motion Adaptive De-interlacing
 LADI : Low Angled De-interlacing
 [See Appendix VI for AFM, TNR, MADI, LADI function description]

Auto Power : OFF / ON

ON – Enable soft power off function if absence of input signals
 OFF – Disable soft power function

Video Standard (SD)* : Auto / NTSC / NTSC 4.43 / PAL / PAL M / SECAM

Image Orientation : Normal / Horizontal flip / Vertical flip / Rotate

Gamma : 1.0 / 1.6 / 1.7 / 1.8 / 1.9 / 2.0 / 2.1 / 2.2 / 2.3 / 2.4 / 2.5 / 2.6 / User Setting

OSD ▶

OSD position :

H POS : Move the OSD menu image horizontally

V POS : Move the OSD menu image vertically

OSD Timeout (sec) : ON – 60 : Adjust the OSD menu timeout period in a step of 5 seconds (max 60 seconds)

ON = Continuous to display OSD menu.
 60 = 60 seconds later will turn off the OSD menu.

Language : English / Chinese : Select OSD menu language display

Display Input : ON / OFF : Display input port name when source switching

Transparency : ON / OFF : Set OSD transparency

Freeze : Freeze the image (use "+" button)

Zoom ▶

Zoom level : : Enable the zoom in function on the image displayed.
 Use "+" button to zoom in the image
 Use "-" button to decrease the zoomed image

Horizontal pan : : Pan the image horizontally

Vertical pan : : Pan the image vertically

Reset to Defaults : Restore to default values

Note : Freeze state will be cleared when you using zoom function.

Color Temperature ▶

5000K

R Gain :

G Gain :

B Gain :

Reset to Defaults : Resume to the default values

6500K

R Gain :

G Gain :

B Gain :

Reset to Defaults : Resume to the default values

8000K

R Gain :

G Gain :

B Gain :

Reset to Defaults : Resume to the default values

9300K

R Gain :

G Gain :

B Gain :

Reset to Defaults : Resume to the default values

User setting :

R Gain :

G Gain : 

B Gain : 

Reset to Defaults : Resume to the default values

Reset All to Defaults : Resume all color temperature settings to the default values.

Hot Key ▶






Hot key 1 : Volume^{###} / Brightness / Contrast / Input / Aspect / Zoom / Freeze / PIP Size / PIP Swap / Image Orientation / Saturation / Hue / Backlight / Auto Picture Setup

Hot key 2 : Volume^{###} / Brightness / Contrast / Input / Aspect / Zoom / Freeze / PIP Size / PIP Swap / Image Orientation / Saturation / Hue / Backlight / Auto Picture Setup

Monochrome Mode ▶

- Color
- Red Monochrome
- Green Monochrome
- Blue Monochrome

Backlight Setup ▶

- B/L Invert :   : Invert for the backlight brightness
- B/L Control : D/A / PWM : Selection for voltage level dimming control / PWM dimming control
- Backlight Frequency :  100 ~ 440Hz in a step of 20
- Light Detector :   : Enable ambient light detector function by using KIT 70220-3

Reset to Factory Defaults

- Reset to Factory Defaults
- Reset to Factory Defaults with (Color Temp)
- Restore to Calibrated Defaults
- Save to Calibrated Defaults

* : DISPLAY IN VIDEO MODE ONLY

: DISPLAY IN ARGB MODE ONLY

: DISPLAY IN ARGB & HD Component MODE ONLY

: DISPLAY WHEN AUDIO ADD-ON BOARD CONNECTED

Firmware V0.48.00

XII. EMC Compliance

The CueScript CS-15", 17", and 19" series prompter monitors and the CSTM 19 Talent monitor have been tested by TUV Rhineland and are compliant with the following standards:

Guidance Documents:

Emissions: EN55103-1:1996

Immunity: EN55103-2:1996

Test Methods:

Emissions: EN55022:2010 & FCC Part 15

EN61000-3-2:2006 +A1:2009 +A2:2009, EN61000-3-3:2013

Immunity: EN55024:2010,

EN61000-4-2:2009, EN61000-4-3:2006 + A2:2010,

EN61000-4-4:2012, EN61000-4-5:2006, EN61000-4-6:2009,

EN61000-4-8:2010, EN61000-4-11:2004

Meet requirements for VCCI 2010. (Japan)

XIII. CE Declaration



The CueScript CS- 15", 17", and 19" prompter monitors and the CSTM-19 Talent Monitor are compliant with all applicable directives necessary for declaration of conformity. All models are RoHS compliant and all models are have the CE mark affixed.

XIV. SAFETY INFORMATION

The CueScript model CS- 15", 17", and 19" prompter monitors are not user serviceable. Please return to CueScript in the event that servicing is required. After any servicing, the CueScript service center will re-test each prompter to ensure product safety is intact.

In no event should any modification be made to any CueScript prompter without authorization from CueScript. Doing so without authorization will void the warranty and possibly affect the safety of the product.

Warnings:

The following warning symbol appears on the underside of the CueScript monitors:



WARNING:

**HAZARDOUS VOLTAGE—DO NOT OPEN EXCEPT
FOR QUALIFIED SERVICE PERSONNEL ONLY.**

The CueScript prompters utilize switching power supplies which inherently have high voltages appearing within the circuitry. Specialized equipment and skill is required to service this equipment. Touching anything on the inside of the cabinet with the cover removed can be extremely dangerous.

In addition, the following warning is given:

THIS EQUIPMENT MUST BE EARTH GROUNDED.

In order to prevent accidental electric shocks or other hazards, the AC mains power cord must be connected to an earth grounded receptacle.

There is another warning symbol near the DC power input XLR jack.



For 12 Volt DC operation, you must unplug the power source connector (4 pin XLR) to shut the monitor down. There is no On-Off switch when the prompter is powered with 12 VDC.

Before removing any cabinet part, you must remove *both* the 12 VDC power and the 100-240 VAC mains power to ensure that the prompter is not powered up by either source.

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