

CueScript

A WAY WITH WORDS...

Installation and Operation Manual

Next Generation On-Camera Prompter Displays



Model CSM17-19 V2 Prompters

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1.0 Introduction

The release of the Cuescript CSM 2 series of prompting monitors marks a significant advance in this area of production. Feature-rich and ergonomically designed, the V2 series offers leading-edge technology. The core of the monitor is a high-resolution video rendering engine providing a CueTalk® interface over IP to the Cuelit prompting application. In addition, the monitor offers Video over IP (2110), digital and analogue video inputs, a switched auxiliary SDI output, extensive USB interfacing and a user-friendly control interface and menu system. At the front end is a high-resolution 1500 nit low power display capable of operating in a wide range of challenging environments.

2.0 CueScript Prompter Features

- Unique quick mount doubles as external heat sink
- T-rail slots on the underside for accessory mounting
- Aluminum case with scratch resistant powder coat finish
- Backlight dimming or cut feature for static video
- Unique curved dual dimmer-controlled Tally Lights with Optical Sensor input
- 4-Pin XLR DC power out socket for external devices
- Powered by AC mains or 4 Pin XLR 12V DC
- Designed for maximum performance with minimum power consumption
- CueTalk®, 2 x SD/HD/3G-SDI, 1 x HDMI, and 1 x composite inputs
- Optional SFP-2110 input facility
- Switched auxiliary SDI output
- Top-level picture rotate/invert & input select buttons
- Backlit LED pushbuttons for ease of operation
- Comprehensive on-screen menu

3.0 Display Technical Specifications

3.1 Model CSM17

Screen Size	17.0 inch diagonal
Display Area	337.92(H) x 270.336(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

3.2 Model CSM19

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/m2
Contrast Ratio	1000:1
Viewing Angle	170°(H), 160°(V)
Backlight Technology	High Brightness LED

4.0 Signal I/O

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

4.1 Input facilities

- CueTalk®
- SD/HD/3G-SDI
- HDMI
- Composite PAL/NTSC/SECAM
- Optional SFP+ (Supported standard ST2110)

4.2 Output facilities

- Auxiliary switched SDI

5.0 Power Requirements

- DC 3.6A @ 12V nominal (44W)
- AC 100-240 V 50-60 HZ 40VA

6.0 Dimensions

6.1 Model CSM17

Outer Dimensions: 396 mm W x 341 mm H x 68 mm D (15.574" W X 13.43" H X 2.67" D)
Weight: 5.00 kg. 11.0 Lb.

6.2 Model CSM19

Outer Dimensions: 430 mm W x 369 mm H x 68 mm D (16.920" W X 14.52" H X 2.67" D)
Weight: 4.66 kg. 10.25 Lb.

7.0 Environmental

All CueScript prompter monitors are designed to be operated within the environment specified below.

Temperature Range: Operation: 5 to 40 degrees C
Storage: -20 to 60 degrees C
Relative Humidity: 0-95% Non-condensing

8.0 Routine Maintenance

All CueScript prompter monitors are designed to be low maintenance. Recommended maintenance is as follows:

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.

9.0 Installation

9.1 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 case it is necessary to return the unit.

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

9.2 Installation Requirements

The following requirements should be observed when installing a CSM17/19 V2 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: CSM17/19 V2 Prompters have been designed for EMC and safety compliance. The installer or operator is responsible for compliance of the system as built and used under the regulations governing such use.

10.0 Connectors and Controls



10.1 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: Littelfuse part no. 0235003.HXP

The fuse must only be replaced with one of the same type and current rating.

10.2 DC Power

The CueScript prompters require a regulated supply of 12 volts DC rated at 4 amps. Alternatively, a battery with sufficient capacity may be used. The prompter is designed to operate in the range 9V – 18V DC.

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

10.3 Composite Video In

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

10.4 Composite input termination

The composite input can be set to high-impedance (for “daisy-chain” operation) or 75 ohm termination. The input termination is set in the menu – see page xx for more information.

10.5 SD/HD/3G-SDI Prompter and Talent Inputs

The SDI inputs will configure themselves automatically according to the SDI format presented. The inputs are compliant with SMPTE 259M-C, SMPTE 292M and SMPTE424M standards.

Prompter Connector type: 75 Ohm BNC Socket

Mating (cable) connector: 75 Ohm BNC Plug

Pin	Description
Center	SD/HD-SDI In
Outer	Ground

10.6 SD/HD/3G-SDI Auxiliary output

The Auxiliary SDI output is set in the menu – see page 13 for more information.

Prompter Connector type: 75 Ohm BNC Socket

Mating (cable) connector: 75 Ohm BNC Plug

Pin	Description
Center	SDI Out
Outer	Ground

10.7 HDMI In

Prompter Connector type: 19 pin HDMI socket: Pin connections are standard HDMI. The input is compatible with HDMI 1.3 / 1.4 / 1.4a.

10.8 Cue Light (Optical) Sensor In

When the CueScript Cuelight sensor is installed, it allows the on-board 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:

Ground the sensor input (through a relay or transistor switch).

Apply a voltage (5-24 VDC) to the +Logic Tally input (Tally Sensor In pin 2).

Sensor: 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 Mini socket

Mating (cable) connector: USB Mini plug

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

10.9 Dual USB Type A

This connector has two duplicated functions that are set in the menu.

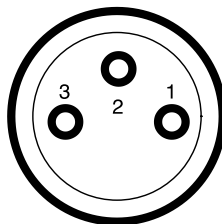
Mode A (default mode): Drives Cuescript proprietary timecode display

Mode B: Functions as a standard PC port for connection of a keyboard

Pin	Description
1	+5 VDC
2	RS232 display drive / USB-DN
3	Display R/G switch / USB-DP
4	Ground

10.10 LTC input

This connector can accept balanced or unbalanced inputs. Below is the front view of the input connector.



Pin	Balanced	Unbalanced
1	Ground	No connection
2	LTC+	LTC
3	LTC-	Ground

10.11 Accessory DC Power Out

Provides a 12V DC @ 4A supply to operate external accessories. Fused internally. This output is only available when supplying the prompter with AC power (minimum supply rating 100VA).

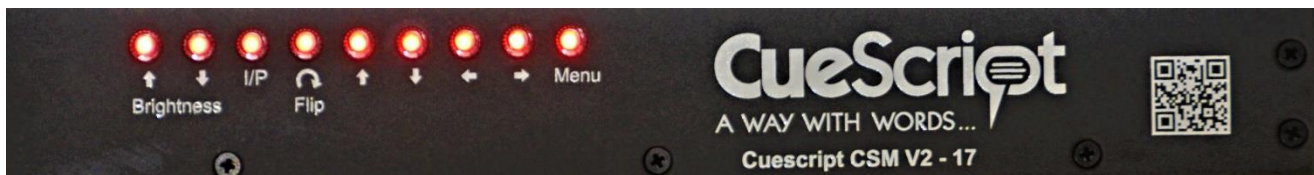
Prompter Connector type: 4 pin XLR Female socket

Mating (cable) connector: 4 pin XLR Male plug

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

11.0 Operation

11.1 Control Panel



There are 9 illuminated buttons on the right side of the prompter.

Reading from right to left, the button functions are as follows:

- 1) Backlight up
- 2) Backlight down
- 3) Input select
- 4) Picture horizontal/vertical flip
- 5) Menu scroll down
- 6) Menu scroll up
- 7) Menu item next

8) Menu item previous

9 Menu on-screen

11.2 Backlight Inactivity Control

The prompter continuously monitors on-screen activity. If the display is static for a certain period (set in the menu), the backlight will shut down to conserve power. It can be restored by a momentary press of any button. The backlight will also be restored if there is any change in the picture content.

11.3 Input select

Cycle sequence > CueTalk > SFP+ (ST2110)* > Prompt SDI > Talent SDI > Composite > HDMI >

* When option installed

11.4 Image rotate

Alternates between horizontal and vertical switch (flip/mirror).

12.0 Menu operation

12.1 Menu Start

- Activates the OSD (On-Screen-Display) menu
- Reverts to one higher level menu page

12.2 Menu Fwd/In

- Moves the OSD selection into an item
- Scrolls forward through a list

12.3 Menu Back/Out

- Moves the OSD selection out of an item
- Scrolls backwards through a list

12.4 Menu Down

- Scrolls down a list

12.5 Menu Up

- Scrolls up a list

All menu settings are written to non-volatile memory. Following a power cycle, the last-used settings will automatically be restored to the monitor set-up.

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

See the next three pages for a detailed table of the menu structure. Following the tables, there are notes explaining the various features.

12.6 Menu guide

Note: In the column headed **SEE...**, click the section number to jump to the Notes section.

Cuescript CSM V2 Operation menu									
MENU START		MENU FWD / IN		MENU BACK / OUT		MENU DOWN		MENU UP	
ONLY LOWEST LEVEL RETURNS ARE SHOWN									
LEVEL1		LEVEL 2		LEVEL 3		LEVEL 4		LEVEL 5	SEE...
INPUT SELECT	>	INPUT	>	HDMI					12.7
			▼	CueTALK					
			▼	SMPTE IP					
			▼	SDI PROMPT					
			▼	SDI TALENT					
			▼	COMPOSITE					
				(RETURN)					
		TEST PATTERN	>	MAIN OUTPUT	>	DISABLE			12.8
					▼	WHITE			
					▼	CROSS			
					▼	HATCH			
					▼	COLOUR BAR			
					▼	GRAY SCALE			
					▼	WINDOW			
					▼	H-RAMP			
▼					▼	H-RAMP (WD)			
					▼	V-RAMP			
					▼	DIAGONAL			
					▼	RED			
					▼	GREEN			
					▼	BLUE			
						(RETURN)			
		PICTURE OFFSET	>	MAIN H OFFSET	>	DEFAULT 148	>>	<<	12.9
								(RETURN)	
		▼		MAIN V OFFSET	>	DEFAULT 30	>>	<<	12.10
								(RETURN)	
		CV TERMINATION	>	ON					
			▼	OFF					
				(RETURN)					
		INPUT FORMAT		(READ ONLY)					

										SEE...
PICTURE	>	CONTRAST	>	DEFAULT 10	<<		>>			
		v			(RETURN)					
		BRIGHTNESS	>	DEFAULT 10	<<		>>			
		v			(RETURN)					
		SATURATION	>	DEFAULT 10	<<		>>			
v		v			(RETURN)					
		HUE	>	DEFAULT 10	<<		>>			
		v			(RETURN)					
		BACKLIGHT	>	DEFAULT 128	<<		>>			
					(RETURN)					
CUELIGHT ETC	>	CUELIGHT SNSR	>	OFF						12.11
			v	LOW						
			v	MED						
			v	HIGH						
			v	AUTO						
				(RETURN)						
		v								
		TALLY SWITCH	>	NORMAL						12.12
			v	INVERT						
				(RETURN)						
		CUELIGHT BRI	>	DEFAULT 148	<<		>>			
		v			(RETURN)					
		BUTTON BRI	>	DEFAULT 148	<<		>>			
					(RETURN)					
FLIP/MIRROR	>	MAIN MIRROR	>	OFF						12.13
				H MIRROR						
				V MIRROR						
		v		H+V MIRROR						
				(RETURN)						

										SEE...
		OVER SCANNING	>	OFF						12.14
			▼	1%						
			▼	2%						
			▼	3%						
			▼	4%						
			▼	5%						
		▼	▼	-5%						
			▼	-4%						
			▼	-3%						
			▼	-2%						
			▼	-1%						
				(RETURN)						
		ASPECT RATIO	>	16:9						12.15
			▼	4:3						
		▼		(RETURN)						
MISC		CSM SERIES		(READ ONLY)						
		H/W VERSION		(READ ONLY)						
		S/W VERSION		(READ ONLY)						
		BUILD DATE		(READ ONLY)						
		USB-A MODE	>	CSTD/CSCN						12.16
			▼	KEYBOARD						
		▼		(RETURN)						
		TC SOURCE	>	OFF						12.17
			▼	LTC						
			▼	VITC						
		▼	▼	D-VITC						
				(RETURN)						
		POWERSAVE IDLE	>	OFF						12.18
				0.5 Hours						
				1 Hour						
				2 Hours						
				(RETURN)						

Note: For sections 12.7 to 12.18, click the section number to return to the menu table

[12.7](#) Input select

Cycles through the inputs. Some inputs, especially, take a couple of seconds to lock up to the incoming signal. This is common with digital signals, especially HDMI.

[12.8](#) Test pattern

Sets prompter to display various test signals (regardless of input setting) for calibration and other set-up purposes.

[12.9](#) Main H offset

Horizontal picture offset will move the display position horizontally in either direction. The default value is for nominal centre

[12.10](#) Main V offset

Vertical picture offset will move the display position vertically in either direction. The default value is for nominal centre

[12.11](#) Cuelight Sensor

Sets the sensitivity of the cue light sensor. In high ambient light areas, it may be necessary to reduce the sensitivity to reduce the risk of false transmission indication.

[12.12](#) Tally switch

Sets the polarity of the logic input pin on the sensor connector

[12.13](#) Flip/mirror

Switches the display in a 4-position cycle (normal/mirror/invert/mirror)

12.13.1: Factory Reset:

Hold this button when powering on the monitor to reset all factory defaults.

[12.14](#) Overscanning

Increases/decreases in 1% increments the image size

[12.15](#) Aspect ratio

Normally set to 4:3

[12.16](#) USB-A Mode

Mode 1 (CSTD/CSTN) drives the Cuescript proprietary timecode display with data and a Red/Green switch

Mode 2 (Keyboard) allows the user to connect a standard pc keyboard to the internal CueTalk module

[12.17](#) TC source

Three sources of time code may be used:

LTC – linear time code supplied to the three-pin Mini-XLR connector

VITC – vertical interval time code derived from the incoming composite video signal

D-VITC – digital vertical interval time code demultiplexed from the incoming SDI signal

[12.18](#) Powersave idle

Sets the time from the start of a period of display inactivity after which the display will power down.

13.0 EMC Compliance

The CueScript CSM15", 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:

13.1 Guidance Documents

Emissions: EN55103-1:1996
Immunity: EN55103-2:1996

13.2 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
Meets requirements for VCCI 2010. (Japan)

13.3 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.

14.0 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.

15.0 WARNINGS

The following warning symbol and stipulation appear on the underside of the CueScript monitors:



WARNING: NO USER SERVICEABLE PARTS INSIDE

The CueScript prompters utilize switching power supplies which inherently have high voltages appearing within the circuitry. Specialized equipment and skill are 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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