

# **CueScript CSM17-19 Next Generation On Camera Prompter Displays Instruction Manual**

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



Model CSM17-19 V2 Prompters

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#### 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 CueiT 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.

### **CueScript Prompter Features**

- · Unique quick mount doubles as external heat sink
- T-rail slots on the underside for accessory mounting
- · Aluminium 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

### **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/m2
Contrast Ratio	1000:01
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	1000:01
Viewing Angle	170°(H), 160°(V)
Backlight Technology	High Brightness LED

### 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

### **Power Requirements**

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

#### **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.

#### **Environmental**

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

Temperature Range: Operation: 5 to 40 °C / 41 to 104°F

Storage: -20 to 60 °C / 4 to 140°F

Relative Humidity: 0-95% Non-condensing

#### **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 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.

#### 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 ambient temperature of 40°C / 104°F.

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 operated under the regulations governing such use.

#### **Connectors and Controls**



10.1 AC Power

AC Mains Inlet:	IEC socket with built in fuse holder and ON/OFF switch
AC Mains Cord required:	Three wire 18 a.w.g minimum 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 curren t 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; example is the Neutrik NC4FX

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

### 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
Centre	SD/HD-SDI In
Outer	Ground

### 10.6 SD/HD/3G-SDI Auxiliary output

The Auxiliary SDI output is set in the following way (monitor Video Firmware 1.23 or later):

Press and hold the input select button marked "IP", after 5 seconds or so the monitor will momentarily display "Auxiliary Output", and you should then release the input "IP" button. The monitor is now ready for you to select the desired video source to be output to the "Switched SDI Out" connector.

Pressing the IP button scrolls through the four available options as follows:

AO: SFP 1 – This is the SMPTE IP video feed for prompt video (requires SMPTE license and compatible SMPTE IP SFP device)

AO: SFP 2 – This is the SMPTE IP video feed for talent video and is the default (requires SMPTE license and compatible 2 channel SMPTE IP SFP device)

AO: SDI P – This is the baseband SDI Prompt input AO: SDI T – This is the baseband SDI Talent input

Prompter Connector type: 75 Ohm BNC Socket Mating (cable) connector: 75 Ohm BNC Plug

Pin	Description
Centre	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 CueLight (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  $\Omega$  to 33K  $\Omega$  @ 10 lux. 1M  $\Omega$  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 (monitor Video Firmware 1.24 or later):

 CSTD/CSCN (default) – Both USB A ports will power and transmit timecode and tally data to CSTD Clock and CSCN CueNumber

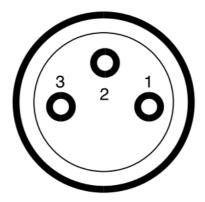
Pin	Description
1	+5 VDC
2	RS232 display drive / USB-DN
3	Display R/G switch / USB-DP
4	Ground

### • KYBD/CTRL – Both USB A ports allow for:

- o Connecting CueScript Scroll controller, monitor will act as a relay and pass controller data to CueiT via CueTALK (HW-INF)
- o Connecting USB keyboard to set CueTALK network configuration
- o Connecting USB Mass Storage Device for CueTALK debug logging purposes

### 10.10 LTC input

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



This connector can accept balanced or unbalanced inputs. Below is the table for wiring the mating flying lead connector:

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

The mating connector is the Neutrik 3-pin mini-XLR "P/N: RT3FC-B".

### 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; example is Neutrik NC4MX

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

### Operation

#### 11.1 Control Panel



There are 9 illuminated buttons on the right side of the prompter. Reading from left to right, the button functions are as follows:

- 1. Backlight Up
- 2. Backlight Down
- 3. Input Select
- 4. Picture horizontal/vertical flip

The four left-hand buttons (see below 11.2 > 11.4) give direct access to top level monitor settings.

Other settings are accessed with the five right-hand buttons through the on-screen menu (see section 12).

- 5. Menu Scroll Down
- 6. Menu Scroll Up
- 7. Menu Item Next
- 8. Menu Item Previous
- 9. Menu on-screen

### 11.2 Brightness Inactivity Control

Use the brightness buttons to increase/decrease the level of screen illumination. 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 (I/P) Input select

Repeated presses of this button will cycle through the sequence Cycle sequence > CueTALK > SFP+ (ST2110)\* > Prompt SDI > Talent SDI > Composite > HDMI \* (subject to license add-on)

### 11.4 Image orientation

Repeated presses of this button will cycle through four settings: horizontal (mirror) and vertical (flip).

### 11.5 Factory Reset

To restore the monitor to its default factory settings, remove all power, hold down this button and apply power. After 2 seconds, release the button and cycle the power.

### 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 and backlight factory defaults are also applied.

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

### 12.6 Menu guide (see next page)

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

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Note: For sections 12.7 to 12.19, 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 setup 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.

This menu setting is an engineering option and should generally not be used unless directed to do so by CueScript. Any settings made to this option are not persisted and should they be accidentally adjusted then power cycling the monitor will restore the correct values.

#### 12.10 Main V offset

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

This menu setting is an engineering option and should generally not be used unless directed to do so by CueScript. Any settings made to this option are not persisted and should they be accidentally adjusted then power cycling the monitor will restore the correct values.

### 12.11 Input Enable

Allows for disabling/enabling each video input. Auto Seek function, when enabled, it will cycle through all enabled video inputs and will lock on first which has signal.

### 12.12 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.

### 12.13 Tally switch

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

#### 12.14 Flip/mirror

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

Factory Reset:

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

### 12.15 Overscanning

Changes the image size in 5% steps.

### 12.16 Aspect ratio

4:3 (default) – picture fills full monitor screen

16:9 – picture is letterboxed and aligned to the top edge of the screen (in all rotation modes); this helps with correct picture proportions when non-prompting video feed is used.

### 12.17 USB Tupe A mode

USB Type A mode has two states:

- CSTD/CSCN (default) Both USB A ports will power and transmit timecode and tally data to CSTD Clock and CSCN CueNumber
- KYBD/CTRL Both USB A ports allow for:
- o Connecting CueScript Scroll controller, monitor will act as a relay and pass controller data to CueiT via CueTALK (HW-INF)
- o Connecting USB keyboard to set CueTALK network configuration
- o Connecting USB Mass Storage Device for CueTALK debug logging purposes

#### 12.18 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

#### 12.19 Powersave idle

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

#### SEE NEXT PAGE FOR IMPORTANT SAFETY AND COMPLIANCE INFORMATION

### **EMC Compliance**

The CueScript CSMV2 17" and 19" series prompter monitors and the CSTM 19/22 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 have the CE mark affixed.

### **SAFETY INFORMATION**

The CueScript model CSMV2 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 centre 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 may affect the safety of the product.

#### **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.

To minimise the risk of electric shocks or other hazards, the AC mains power cord must be connected to a grounded/earthed supply.

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. The power switch on the IEC connector does not control the when the 12VDC input.

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.

### **US OFFICE**

555 Lordship Blvd Stratford CT 06824 T: +1(203) 763 4030

#### **UK OFFICE**

Unit 15, First Quarter Business Park Blenheim Road Epsom, Surrey KT19 9QN T: +44 (0) 20 3757 8880

24 Hour Support: +1(203) 692 4856 <u>support@cuescript.tv</u> <u>www.cuescript.tv</u>

**Documents / Resources** 



## <u>CueScript CSM17-19 Next Generation On Camera Prompter Displays</u> [pdf] Instruction

Manual

CSM17-19 Next Generation On Camera Prompter Displays, CSM17-19, Next Generation On Camera Prompter Displays, On Camera Prompter Displays, Prompter Displays, Displays

### References

• User Manual

#### Manuals+, Privacy Policy

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