

# Cine-tal

Field Service Bulletin: #061220

Title: DVI Input Release Notes

Date: December 20, 2006

## Summary:

DVI is enabled on the Cinemage product line in two phases. The first phase is on software version 2.1. In this release the Cinemage supports a DVI-D or DVI-I input at a fixed 1920x1200 resolution with a refresh rate of 60Hz. The DVI input can not be routed to the HDSDI outputs, Framestore, or 3D LUT. When the DVI input is selected it is calibrated and routed directly to the display at the full 1920x1200 resolution. As this is the full resolution of the panel, the menus and heads-up display are not visible.

After selecting the DVI input users can return to the menus by selecting any button. The standard use of the DVI input in version 2.1 is as a calibrated desktop display for a computer workstation with a DVI-D or DVI-I output supporting 1920 x1200 resolution at 60 Hz.

The second phase of DVI support will be in version 2.2. In the 2.2 release the DVI input will support several HD video related resolutions and frame rates. These resolutions may be routed to HDSDI outputs, Framestore, or 3D LUT and is available as a source for the split screen and waveform monitor and vector scope.

## Cinemage Supported Resolutions:

Video Format	HD-SDI	DVI	Software Version	Release Date
<b>Computer Graphics DVI-D</b>				
1920 x 1200 / 60 Hz (see note 1)		●	2.1	12/28/2006
<b>Single Link (4:2:2)</b>				
486i / 59.94 (see note 1)	●		2.0	Released
576i / 50 (see note 1)	●		2.0	Released
720p / 23.98, 24, 25, 29.97, 30, 50, 59.94,	●	●	2.2	2/15/2006 (for DVI-D)
1080sF / 23.98, 24, 25, 29.97, 30 Hz	●	●	2.2	2/15/2006 (for DVI-D)
1080i / 50, 59.94, 60 Hz	●	●	2.2	2/15/2006 (for DVI-D)
1080p / 23.98, 24, 25, 29.97, 30 Hz	●	●	2.2	2/15/2006 (for DVI-D)
<b>Dual Link (4:4:4)</b>				
1080sF / 23.98, 24, 25, 29.97, 30 Hz	●		1.0	Released
1080i / 50, 59.94, 60 Hz	●		1.0	Released
1080p / 23.98, 24, 25, 29.97, 30 Hz	●		1.0	Released

(1) Framestore, Cage, LUTs, & OmniTek options operate only in HD modes

**EDID**

Extended Display Identification Data is a VESA standard data format that contains basic information about a monitor and its capabilities, including vendor information, maximum image size, color characteristics, factory pre-set timings, frequency range limits. The information is stored in the display and is used to communicate to computer graphics adapter. The system uses this information for configuration purposes, so the monitor and computer system can work together. Cinemage systems shipped before December 1, 2006 did not have the EDID set in DVI input chipsets (see Setting EDID). If you are using an operating system in your computer that allows manual settings for monitor support you should set them to:

Pixel Clk:	154	V Active Lines:	1200
H Active Pix:	1920	V Blank:	35
H Blank:	160	V Sync Offset:	3
H Sync Offset:	48	V Sync Width:	6
H Sync Width:	32	V Image Size:	324
H Image Size:	519	V Border:	0
H border:	0	Min V Rate:	56 Hz
Min H Rate:	30 KHz	Max V Rate:	76 Hz
Max H Rate:	81 KHz		
Max Pxl Clk:	170 MHz		

**Setting EDID**

Although it is not required to use the DVI input, customers with Cinemage units shipped before December 1, 2006 may want to setup the EDID on their systems. Setting the EDID is accomplished with a field update kit available for loan from Cine-tal. The EDID update kit allows customers to set their EDID without returning the units to the factory. The update kit includes a special DVI cable and WindowsXP based software. System requirements are a WindowsXP based system with a standard RS232 Serial Port. Customers may also return units to Cine-tal for EDID settings. Contact Cine-tal Customer Service (01-317-576-0091) or (support@cine-tal.com) to determine the best method for you.

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