



- High Performance HD Monitoring
- HD-SDI, Dual Link and DVI input / output
- YCbCr or RGB at 8 or 10 bits linear or logarithmic
- Integrated OmniTek™ waveform monitor and vectorscope
- 3D LUT for color pre-visualization
- Full 1920 x 1080 resolution on 24" display
- LCD calibration for gamma, white point, luminance level
- Superior black level performance
- Gigabit and wireless network connectivity
- Seamless integration with existing equipment through web-appliance interface
- Frame capture/store locally, to network device or USB data key
- Quantitative digital video analysis
- Rugged construction for field applications

APPLICATIONS

- Multi camera setup
- Scene matching
- Color pre-visualization
- Display simulation
- Video test and measurement
- Image quality control and assurance
- Remote collaboration

Cinemage featuring IDS™ technology.

The Cinemage product family revolutionizes critical monitoring for digital cinema acquisition, post production and DI by combining Cine-tal's leading edge IDS (Intelligent Display Server) technology and a calibrated full resolution LCD display. Cinemage provides quantitative video analysis, color pre-visualization, video signal quality assurance, real time collaboration between acquisition and post production, and an integrated Omnitek™ Dual Link Waveform Monitor and Vectorscope. With Cinemage you can conduct both critical visual analysis and digital quantitative analysis of your HD-SDI or HD-SDI Dual Link signal in either YCbCr or RGB, linear or logarithmic, at 8 or 10 bits.

IDS (Intelligent Display Server technology)

IDS technology is a joint technology development between Cine-tal and OmniTek. IDS provides image processing, signal routing, frame stores, color manipulation (3D LUTs) and test and measurement all in a network appliance configuration. Internal to IDS is a powerful image processor that generates real time data about the HD video stream. The data is used to generate waveforms, vector scopes, gamut information and status of the incoming video signal. IDS also provides for display calibration and profiling as well as input signal color grading for pre-visualization. All data and operations can be performed over a LAN, WAN or wireless network with any web-enabled device.



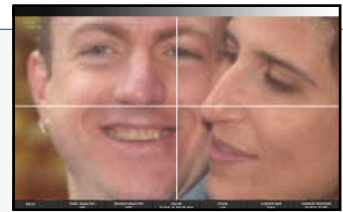
WAVEFORM MONITOR / VECTORSCOPE

Real time 4:4:4 HDTV and Digital Cinema waveform monitor and vectorscope. Supports both RGB and YCbCr modes at 8 and 10 bits, linear or logarithmic. Full line, parade or vertical frame display. H&V magnifications, Measurement graticules in IRE, mV, or digital value. Store and recall waveforms and vectors for camera and scene matching. The OmniTek option is offered in three configurations: Dual Link, HD and HD Display.



MATCH CAMERAS / SOURCES

Cinemage provides a split screen function simultaneously displaying two signal sources. Compare camera inputs for matching, compare captured frames from previous sessions to current input video, and compare a color-graded input to non-graded input for color pre-visualization.



PIXEL LEVEL ANALYSIS

RGB or YCbCr data values can be measured for any pixel. When enabled, a cross hair is displayed with line and pixel counts. YCbCr and RGB data values are displayed in the head up display and in the local operator menus. Use in conjunction with pan and zoom to select specific pixels for analysis.



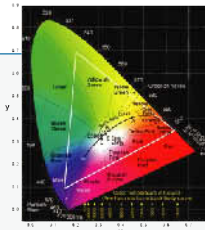
WEB APPLIANCE

IDS technology makes Cinemage a web appliance. All operations and functions are accessible remotely through any web browser. Use your PDA, laptop or tablet PC to control the system, grab and e-mail frames, upload and download color pre-visualization LUTs. Communicate image data with your production partners. Have remote colorists grab frames create LUTs and load them into Cinemage for color pre-visualization on set.



CAGE GENERATOR

A Cage Generator provides standard and custom cages. Cages can be scaled and positioned anywhere on screen. The external cage area can be set to mask the video for ease of use. Two cages may be displayed at the same time.



COLOR PRE-VISUALIZATION

A full 3D LUT provides color pre-visualization. LUTs can be stored locally, on network storage or on a portable USB datakey. Primary color grading is provided on the device allowing for LUT manipulation while viewing input signals. The web appliance interface allows remote colorists to color grade frames and load LUTs from anywhere in the world.

SPECIFICATIONS

SIGNAL FORMATS:	720p / 23.98, 24, 25, 29.97, 30, 50, 59.94, 60 Hz 1080sF / 23.98, 24, 25, 29.97, 30 Hz	SMPTE 296M
	1080i / 50, 59.94, 60 Hz 1080p / 23.98, 24, 25, 29.97, 30 Hz	SMPTE 274M
	Dual-link 1080sF / 23.98, 24, 25, 29.97, 30 Hz 1080i / 50, 59.94, 60 Hz 1080p / 23.98, 24, 25, 29.97, 30 Hz	SMPTE, 372M
VIDEO INPUTS:	HD-SDI, HD-SDI Dual Link DVI at 1920 x 1200 Reference sync input tri-level or bi-level sync	SMPTE 292M/372M
VIDEO OUTPUTS:	HD-SDI, HD-SDI Dual Link DVI at 1920 x 1200	SMPTE 292M/372M
DISPLAY:	24 inch a-Si TFT active matrix LCD Resolution: 1920 x 1200 (1920 x 1080 active video area) Contrast ratio: 1000:1, Brightness: 500Cd/m ² , Response time: 15ms Viewing angle: 89/89/89/89 1-1 pixel mapping to native resolution of input	
SERIAL:	USB	
NETWORK:	Gigabit Ethernet - IEEE 802.1p, 802.1Q, 802.3, 802.3ab, 802.3U, 802.3x, Wireless DSSS - IEEE802.11b,g 54Mbps	
GENERAL:	Power: 120-240v AC 50/60 Hz or 24vdc; 150W Weight: 27 lbs Dimensions (WxHxD) : 21.5"x17"x3" Operating Temperature 0-40 C	
CERTIFICATIONS:	FCC Class A, CE	
VERSIONS:	Cinemage 2142 -4 input, 2 output, Dual Link, DVI Out, 3D LUT, Framestore Cinemage 2122 -2 input, 2 output, Dual Link, DVI Out, 3D LUT, Framestore Cinemage 2042 -4 input, 2 output Cinemage 2022 -2 input, 2 output	
OPTIONS:	OmniTek Dual Link Waveform Monitor and Vectorscope (2142 & 2122 only) OmniTek HD Waveform Monitor and Vectorscope OmniTek HD-Display Waveform Monitor and Vectorscope DVI Input DVI Output (2042 & 2022 only) Cine-tal Calibration Software and GretagMacbeth EyeOne Design Cine-tal Calibration Software and GretagMacbeth EyeOne Display2 OmniTek Test Pattern Generator Cine-tal 30 Frame Framestore (2042 & 2022 only) Cine-tal 60 Frame Framestore Wireless 802.11 ABG Networking DC Power Input Neutral Density Glass Filter VESA Mount Stand ATX Shipping Case	

Specifications subject to change.



Route

Full signal routing allows the user to route any signal source to any output or process. User can monitor input 1 with color processing for pre-visualization while sending the same signal to output 1 without any processing. Input signals can be routed independently to one of two HD-SDI outputs, one Dual Link, or the DVI output.

Process

A full 3D LUT provides color pre-visualization. LUTs can be stored locally, on network storage or on a portable USB datakey. Primary color grading is provided on the device allowing for LUT manipulation while viewing input signals. Use the web appliance interface to load and retrieve LUTs from any web browser enabled device.

Capture and store image frames locally, on network storage or on a portable USB datakey. Recall frames from previous shoots for scene matching, continuity, or to compare against color-graded inputs. Use the web appliance interface to grab, save, and load frames into the frame buffer from any web browser enabled device.

3:2 pull down on input video provides an instant view of 24fps signals at a 30 fps rate.

Measure

Cinemage features the OmniTek™ waveform monitor and vectorscope. OmniTek is a global leader in quality High Definition video test and measurement. Three levels of waveform monitoring and vectorscope are available as an option to Cinemage. The display only version provides a real-time parade waveform and vectorscope great for camera setup. The full HD version provides a full functioning HD waveform monitor and vectorscope with the ability to save and recall waveforms and vectors for camera matching and color pre-visualization. The HD Dual Link option provides all the features of the HD version along with OmniTek's leading Dual Link waveform monitor and vectroscope.

RGB or YCbCr data values can be measured for any pixel. When enabled a cross hair is displayed with line and pixel counts. YCbCr and RGB data values are displayed in the head up display and in the local operator menus. Use in conjunction with pan and zoom to select specific pixels for analysis.

An optional test signal generator provides 68 standard test signals. Test signals have full routing capability to the display, LUT processor, HD-SDI or DVI outputs.

Cine-tal Systems
8383 Craig Street Suite 130
Indianapolis, IN 46250
317-576-0091

Display

The Cinemage display features a full resolution 1920 x 1080 calibrated display with superior black level performance. A pixel-to-pixel mapping of the input signal to the display provides an accurate display of input signal data. There is no re-sizing, filtering or other pixel manipulation to degrade input signal data.

A Cage Generator provides standard and custom cages. Cages can be scaled and positioned anywhere on screen while external cage area can be set to mask the video for ease of use. Up to two cages may be displayed at the same time.

The Cinemage head up display provides real time information on signal sources including format, CRC errors, ANC errors, out of gamut warnings, pixel data readings, timecode and meta data packets.

A split screen function provides simultaneous display of two signal sources. Compare camera inputs for matching, compare captured frames from previous sessions to current input video, and compare a color-graded input to non-graded input.

Cinemage provides a real time pan and zoom feature to allow for pixel level analysis and display. A replicated pixel method is used to maintain data integrity and provide the ability to select a single data point for analysis or just zoom into an area for a better view of the pixel data. When used in conjunction with pixel data analysis, any pixel on any line can be selected, and the real time data can be measured.

Calibrate

An automated calibration system calibrates the display through a full spectrum photometer to user defined white point, gamma, and luminance level. Ambient light measurement may be taken to further enhance the display calibration accuracy. A full manual calibration allows the user to set custom RGB levels while taking measurements with the photometer.

Presets

Every system setting can be saved as a preset for quick recall. Store presets locally, on network storage or on a portable USB datakey.

Collaborate

Cinemage is a network device that provides for full connectivity to wireless and Gigabit ethernet networks. Frames, LUTs, waveforms, vectors and system presets can be saved to network storage devices. Cinemage is also a network appliance. All operations are accessible through any web browser enabled device. Use your PDA to control the system, e-mail frames, LUTs, and waveforms to your production partners. Send approval stills to your client anywhere in the world.