

## LEDView510

### LED Screen HQV™ Scaler–Switcher with 3G-SDI



Harnessing the power of the Reon™ video processor from IDT, running state of the art HQV algorithms with expertly designed hardware and firmware from Calibre, LEDView510 is a highly flexible LED video screen image scaler which provides stunning image quality for professional, broadcast, sports, digital signage & corporate AV.

LEDView510 features 4-sided edge drag and drop for sizing the picture to fit the LED screen, making system configuration very easy.

Multiple-unit mode with autozoom allows several LEDView510s to seamlessly drive huge LED walls made of several screens. Support is provided for stacking screens up to 4 wide x 4 high for a maximum screen resolution of 7680x4800.

Very low image latency ensures minimal picture lag, which together with genlock capability makes LEDView510 ideal for on-stage or in-camera use at live events.

Control is by webserver for easy intuitive installation & control without the need for special control software apps to be installed.

- Best in class professional image processing in a compact affordable 1U format
- Use as a routing switcher and universal interface for connecting LED screens to 3G-SDI, HD-SDI, DVI or HDMI, Composite, S-Video, Component or SVGA
- Improve video image quality with better detail and clarity
- Superior de-interlacing reduces image flicker and artefacts
- Remove picture noise from poor quality SD video sources
- Powerful picture re-sizing to fit LED screen with simple edge drag and drop
- Genlock and I/O Lock for in-camera use
- Multiple-Unit Mode with Autozoom to support huge stacked LED walls

- 3G-SDI, HDMI, DVI, VGA Analog, Component YPbPr, RGB/RGBS, Composite & S-Video inputs with signal compatibility up to 1080p & WUXGA
- HDMI/DVI, 3G-SDI & VGA Analog outputs
- Motion adaptive per pixel video de-interlacing, HD & SD
- Multi-directional diagonal de-interlace filter
- Automatic 3:2 & 2:2 pull-down detection with automatic film, video and video over film detection
- Chroma and Luma transient improvement
- Edge anti-aliasing
- 4-field full resolution SD & HD processing
- 4D Motion, Noise Adaptive HQV noise reduction for spatial and temporal noise
- Codec noise reduction for mosquito and block compression noise
- Direct input selection keys allow input selection without using browser interface
- Flexible color calibration controls, Gamma controls
- 10-bit signal inputs, 12-bit accurate internal processing
- Latency as low as 1.25-frames progressive inputs
- Latency as low as 2.25-frames interlaced inputs with full motion adaptive processing, 1.25-frames low-latency mode
- Filter for interlaced input in low latency mode
- I/O Lock, Genlock/Frame Sync and Free Run selectable output modes
- Configuration & control via Web Server, interfaces to industry standard browsers
- TCP/IP & RS232 remote control API
- Easy to navigate self-explanatory menus
- Powerful LED screen sizing, as low as 128x96 pixels, max screen size 1920x1200 in single unit mode, 7680x4800 in multiple unit mode
- Pan, Zoom, Tilt
- 3G-SDI and HDMI Audio De-Embed
- Black Crush control for low-level background noise removal

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## LED Screen HQV™ Scaler–Switcher with 3G-SDI

### Inputs

2x Composite Video CVBS (NTSC, PAL & SECAM),  
1x via BNC jack and 1x via Cinch/RCA  
1x YC/S-Video via 4 pin mini DIN  
1x Component analog video YPbPr(S) or RGsB/RGBS  
via 3 or 4 x BNC jack  
1x HDMI1.3 with HDCP, 8/10/12 bit video compatible, 10-bit  
internal processing depth. Audio strip-off of SPDIF compatible  
formats  
1x DVI with HDCP  
1x VGA Analog via 15HDD  
1 x 3G-SDI, accepts 3G, HD and SD SDI signals via BNC  
supports 4:2:2 and 4:4:4 formats with audio de-embed

1x Genlock input via BNC, accepts bi-level, tri-level sync or black  
& burst, 50/59.94/60Hz formats

### Supported video formats

HD 720p, 1080i, 1080psf (psf digital only), 1080p23.97/24/25/30,  
1080p30, 1080p50, 1080p59.94, 1080p60  
ED 480p, 576p (not via SDI)  
SD 625i (576i), 525i (480i)  
Common VESA graphics formats from 640x480 to 1920x1200  
(with reduced blanking for 1920x1200 and 1600x1200 modes)

Multi standard support for CVBS & YC in PAL, NTSC, SECAM  
formats with selectable 3D comb for composite

### Outputs

1x DVI/HDMI with HDCP (HDMI1.3 with deep color 8/10/12 bit support, via DVI connector)  
1x VGA Analog via 15HDD  
1x S/PDIF digital audio via RCA  
1x 3G-SDI via BNC  
*NB: 3G-SDI and VGA Analog outputs are disabled with HDCP-encrypted input. Not all outputs are  
available simultaneously*

### Supported Output formats:

DVI/VGA common VESA/SMPTE progressive scan formats from  
640x480 to 1920x1200, 720p, 1080p  
Selectable Genlock, I/O lock or frame rate conversion mode  
Selectable aspect ratio conversion  
Selectable VT filter for interlace flicker reduction in low latency mode  
Multiple unit mode for very large LED screens (PIP not supported in this mode)

### User Controls

User control and configuration via Web Server,  
Remote control via RS232 & TCP/IP API  
Keypad for direct input selection and control of common adjustments  
USB port for uploading software updates and new features

### Power Requirements

100-264VAC, 35W typical

### Warranty

1-year return to base warranty covers parts and labor, shipping excluded.

LED Video Scaler/Processor Model >	LEDView400	LEDView510	PVProHD-LED
Broadcast Grade HQV Processing & 1024-tap scaling using Realta			X
Professional HQV Processing using Reon	X	X	
DVI/HDMI Inputs	X	X	X
Component Input	X	X	X
Composite/S-Video Inputs	X	X	X
VGA Analog Input	X	X	X
HD-SDI Input, SD-SDI compatible	X		X
3G-SDI In & Out, HD-SDI & SD-SDI compatible, with audio de-embed		X	
DVI/HDMI Output	X	X	X
VGA Analog Output	X	X	X
SD Temporal and MPEG noise reduction	X	X	X
HD Temporal noise reduction			X
Detail Enhancement, 2D	X	X	X
Real-Time Unsharp Mask			X
Picture in Picture (PIP)	X	X	X
User controls via Web Server	X	X	
PC-based remote control software with back-up/restore capability			X
TCP/IP Control	X	X	X
Low Latency Mode		X	X
Flicker Filter for interlaced signals in Low Latency mode		X	X
LED Screen Sizing by Edge Drag-Drop	X	X	X
Genlock to bi/tri-level sync		X	X
Genlock to digital sync			X
Pan, Zoom, Tilt	X	X	X
Direct Input Select Buttons	X	X	X
Multiple unit mode with Auto pan/zoom/tilt		X	X
Black Crush function with level adjustment		X	X
Front panel LCD menu system			X



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