



With a simple click, the highly intuitive operator-driven Kiva user interface presents a variety of digital media assets into venue videoboards with unparalleled flexibility and ease. These include real-time video clips, 'fill+matte' stills and animations, surround-sound audio, and sponsored adverts.

**ROSS**

## Highly Visual

The Kiva user interface features a familiar, quick, and very visual 'shot-box style' operational paradigm. With Kiva, you can easily ingest, organize, and confidently present on-demand a wide variety of media.

## Flexible Playlists

Active playlists can be quickly and easily rearranged on the fly. Unwanted playlist items can be skipped or removed, or new items can be added, all without interrupting the item currently being presented.

## Robust & Reliable

Kiva is built upon dedicated, real-time hardware media processing engines, ensuring your live productions will never suffer from video playout stutters, audio dropouts, user interface freezes, or unexpected hang-ups.

### KIVA Features

<b>Three KIVA Models Available</b>	Single Channel   Dual Channel   Triple Channel
<b>Three Media Storage Options</b>	40-Hours   80-Hours   480-Hours   (@ 100Mb/s video bit rates)   20-Hours   40-Hours   240-Hours   (@ 200Mb/s video bit rates)
<b>AVC-Intra Class 100 Video Codec</b>	For all Motion Media Recording & Playout
<b>Real-time Hardware Media Processing Engines</b>	Ensures Rock-Solid Record & Playout Performance)
Integrated Kiva User Application with Highly Visual Shotbox-Style Control	
Independent PVW+PGM Audio Players   Independent PVW+PGM Video Players	
Video+Key on all PVW+PGM Video Players	
Audio Level Playout Gain Controls within Kiva User Application	
Internal Audio Mixer for Audio & Video Players	
Integrated Input & Output Audio Router	
Integrated Media File Import Application	
Integrated Quad-Viewer on dedicated HD-SDI Output with Tally Indicators	
Integrated SSD Media Storage with RAID-5   RAID-6 Protection	
Sophisticated Playlists with Advanced & Flexible Playout Features	
VANC Record & File Import preserves timecode & closed-captioning data	
<b>Dual SuperSpeed+ 10G Ethernet Ports</b> Supports extremely fast Media File Import	
<b>Dual SuperSpeed+ 10G USB-3.1 Ports</b> Supports extremely fast Media File Import	
Native Ethernet API for programming custom Ross DashBoard control interfaces	
<b>Windows 10 Enterprise Edition LTSC Operating System†</b> Preinstalled and licensed on SSD System Disk	
Hot-Swap Redundant SSD/HDD Media Drives with Automatic Rebuild	
Hot-Swap Redundant Chassis Fans	
Hot-Swap Dual Redundant Chassis Power Supplies	

### Safety & Emissions

TUV | FCC Class A | C

† Windows® is a registered trademark of Microsoft Corporation | Sony® is a registered trademark of Sony Corporation

Supported Video Standards		Chassis Physical & Electrical	
Recording & Playout Native Video Codec	AVC-Intra Class 100 720p & 1080i HD @ 100Mb/s 1080p HD @ 200Mb/s	Kiva Chassis Dimensions	3RU Height & Width Depth = 25.6 in (65.1 cm) Rackmount Slides Included
HD Video (1.5G HD-SDI I/O)	720p /50 /59.94 1080i /50 /59.94	Kiva Chassis Maximum Weight	75 lbs. (34 kg)
HD Video (3.0G HD-SDI I/O)	1080p /50 /59.94	Kiva Chassis Maximum Power	<500 Watts   100-240 VAC   50-60Hz Auto-Sensing AC Power Input
Embedded Digital Audio Inputs		Embedded Digital Audio Outputs	
Embedded in all HD-SDI Video Inputs 14 Tracks   48kHz @ 24-bits	Single-Channel Model I (1) Female HD-BNC* 75Ω	Embedded in all HD-SDI Video Outputs 14 Tracks   48kHz @ 24-bits	Single-Channel Model I (4) Female HD-BNC* 75Ω
	Dual-Channel Model I (2) Female HD-BNC* 75Ω		Dual-Channel Model I (8) Female HD-BNC* 75Ω
	Triple-Channel Model I (3) Female HD-BNC* 75Ω		Triple-Channel Model I (12) Female HD-BNC* 75Ω
Digital Video Inputs		Digital Video Outputs   PVW+PGM FILL+MATTE	
HD Video: 720p   1080i HD-SDI SMPTE-292M (1.5 Gb/s @ 10-Bits)	Single-Channel Model I (1) Female HD-BNC* 75Ω	HD Video: 720p   1080i HD-SDI SMPTE-292M (1.5 Gb/s @ 10-Bits)	Single-Channel Model I (4) Female HD-BNC* 75Ω
HD Video: 1080p HD-SDI SMPTE-424M (3.0 Gb/s @ 10-Bits)	Dual-Channel Model I (2) Female HD-BNC* 75Ω	HD Video: 1080p HD-SDI SMPTE-424M (3.0 Gb/s @ 10-Bits)	Dual-Channel Model I (8) Female HD-BNC* 75Ω
	Triple-Channel Model I (3) Female HD-BNC* 75Ω		Triple-Channel Model I (12) Female HD-BNC* 75Ω
Quad-Viewer Digital Video Inputs		Analog Audio Monitoring Output	
HD Video: 720p   1080i HD-SDI SMPTE-292M (1.5 Gb/s @ 10-Bits)	Single-Channel Model I (1) Female HD-BNC* 75Ω	Unbalanced Line-level @ –10 dBV Selectable: Any Video Channel's Output Tracks 1+2 Stereo Pair	Single-Channel Model I (1) Female HD-BNC* 75Ω
HD Video: 1080p HD-SDI SMPTE-424M (3.0 Gb/s @ 10-Bits)	Dual-Channel Model I (2) Female HD-BNC* 75Ω		Dual-Channel Model I (2) Female HD-BNC* 75Ω
	Triple-Channel Model I (3) Female HD-BNC* 75Ω		Triple-Channel Model I (3) Female HD-BNC* 75Ω
Data/Control			
RS422 Ports Protocols:   Sony*   Louth VDCP   Odetics		(8) Male RJ45 'Male 68D-to-Male RJ45' Breakout Cable included (8) 'Female RJ45-to-Male D9' adapters included	
Computer Display Ports Minimum 1920×1080 Native Resolution Computer Display required for Kiva User Interface		(4) Female mDP Mini DisplayPort	
10-Gigabit Ethernet Ports   10-T   100-T   1000-T   10000-T   Protocols:   AMP   Louth VDCP   Native Ethernet API		(2) Female RJ45	
SuperSpeed USB Ports @ up to 1-Gigabit Speeds   USB 3.0		(5) Female USB Type-A	
SuperSpeed+ USB Ports @ up to 10-Gigabit Speeds   USB 3.1		(1) Female USB Type-C	(1) Female USB Type-A
QWERTY Keyboard & Mouse 1 Set included with each Kiva Server		USB-A	
AES Digital Audio Inputs & Outputs			
Unbalanced Line-level @ –10 dBV Selectable: Any Video Channel's Output Tracks 1+2 Stereo Pair		(2) F-D25 TASCAM Breakout Cable NOT Included	
Analog Reference Input		Analog LTC Input	
Terminating Tri-level HD   Analog SD Black-Burst	(5) Female USB Type-A	LTC Unbalanced   SMPTE-12M Time of Day Timecode	(1) Female XLR

\* HD-BNC = High-Density BNC / Adapter Cable to Standard-Sized Female BNC included for every HD-BNC connector