



PRESENT ON YOUR VIDEOBOARD LIKE NEVER BEFORE

The brand-new Kiva Live Presentation Server from Ross brings an impressive, professional digital media playout solution to the live sports and entertainment industry that will take your live productions to another level.

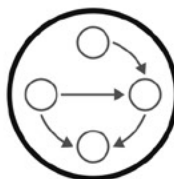
With a simple click, the highly intuitive operator-driven Kiva user interface presents a variety of digital media assets into venue videoboards with unparalleled flexibility and ease. These include real-time video clips, 'fill+matte' stills and animations, surround-sound audio, and sponsored adverts.

With Kiva, all your live productions are instantly simplified. Incoming media are quickly ingested, efficiently organized, and easily presented during live sports shows, concerts, and events.



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 Abekas® 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

Two Kiva Models Available

| Single-Channel | Dual-Channel |

Three Kiva Media Storage Options

| 40-Hours | 80-Hours | 580-Hours | (@ 100Mb/s video bit rates)
| 20-Hours | 40-Hours | 290-Hours | (@ 200Mb/s video bit rates)

AVC-Intra Class 100 Video Codec

For all Motion Media Recording & Playout

Real-time Abekas® Hardware Media Processing Engines

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 Media Storage with RAID-5 | RAID-6 Protection

Sophisticated Playlists with Advanced & Flexible Playout Features

VANC Record & File Import preserves timecode & closed-captioning data

Dual SuperSpeed+ 10G Ethernet Ports

Supports extremely fast Media File Import

Dual SuperSpeed+ 10G USB-3.1 Ports

Supports extremely fast Media File Import

Native Ethernet API for programming custom Ross DashBoard control interfaces

Windows 10 Enterprise Edition LTSC Operating System†

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

SUPPORTED VIDEO STANDARDS

| Recording & Playout Native Video Codec | AVC-Intra Class 100 720p & 1080i HD @ 100Mb/s 1080p HD @ 200Mb/s |
|--|--|
| HD Video (1.5G HD-SDI I/O) | 720p /50 /59.94 1080i /50 /59.94 |
| HD Video (3.0G HD-SDI I/O) | 1080p /50 /59.94 |

CHASSIS PHYSICAL & ELECTRICAL

| | |
|-----------------------------|--|
| Kiva Chassis Dimensions | 3RU Height & Width Depth = 25.6 in (65.1 cm) Rackmount Slides Included |
| Kiva Chassis Maximum Weight | 75 lbs. (34 kg) |

KIVA+ AC POWER REQUIREMENTS:

| | |
|---------------------------------------|---|
| Input AC Voltage Range (Auto-Sensing) | 100VAC-240VAC / 50Hz-60Hz |
| Input AC Power Consumption | Input AC Power @ 100-127VAC = 12A-9A Input AC Power @ 200-240VAC = 7.2A-6A |

ANALOG REFERENCE INPUT

| | |
|--|------------------------|
| Terminating Tri-level HD Analog SD Black-Burst | (1) Female HD-BNC* 75Ω |
|--|------------------------|

SAFETY & EMISSIONS

TUV | FCC Class A | CE

DIGITAL VIDEO INPUTS

HD Video: 720p | 1080i
HD-SDI SMPTE-292M (1.5 Gb/s @ 10-Bits)
HD Video: 1080p
HD-SDI SMPTE-424M (3.0 Gb/s @ 10-Bits)

Single-Channel Model
(1) Female HD-BNC* 75Ω
Dual-Channel Model
(2) Female HD-BNC* 75Ω

DIGITAL VIDEO OUTPUTS | PVW+PGM FILL+MATTE

HD Video: 720p | 1080i
HD-SDI SMPTE-292M (1.5 Gb/s @ 10-Bits)
HD Video: 1080p
HD-SDI SMPTE-424M (3.0 Gb/s @ 10-Bits)

Single-Channel Model
(4) Female HD-BNC* 75Ω
Dual-Channel Model
(8) Female HD-BNC* 75Ω

QUAD-VIEWER DIGITAL VIDEO OUTPUT

HD Video: 720p | 1080i
HD-SDI SMPTE-292M (1.5 Gb/s @ 10-Bits)
HD Video: 1080p
HD-SDI SMPTE-424M (3.0 Gb/s @ 10-Bits)

Single-Channel Model
(1) Female HD-BNC* 75Ω
Dual-Channel Model
(2) Female HD-BNC* 75Ω

EMBEDDED DIGITAL AUDIO INPUTS

Embedded in all HD-SDI Video Inputs
8-Tracks | 48kHz @ 24-bits

Single-Channel Model
(1) Female HD-BNC* 75Ω
Dual-Channel Model
(2) Female HD-BNC* 75Ω

EMBEDDED DIGITAL AUDIO OUTPUTS

Embedded in all HD-SDI Video Inputs
8-Tracks | 48kHz @ 24-bits

Single-Channel Model
(4) Female HD-BNC* 75Ω
Dual-Channel Model
(8) Female HD-BNC* 75Ω

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 AUDIO MONITORING OUTPUT

Unbalanced Line-level @ -10 dBV
Selectable: Any Video Channel's Output Tracks 1+2 Stereo Pair

Single-Channel Model
(1) Female 3.5mm
Dual-Channel Model
(2) Female 3.5mm

ANALOG LTC INPUT

LTC Unbalanced | SMPTE-12M
Time of Day Timecode

(1) Female XLR

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 1920x1080 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

† Windows® is a registered trademark of Microsoft Corporation | Sony® is a registered trademark of Sony Corporation
* HD-BNC = High-Density BNC | Adapter Cable to Standard-Sized Female BNC included for every HD-BNC connector

