

Multi-Layer Hi-Resolution Mixer Matrix Scaler Seamless Switcher with 4 Scalers dedicated to High-End AV presentations



Inputs



Outputs

Special Features



Features



Eikos at a glance

- > High Resolution Mixer and Matrix (12x2) Seamless Switcher
- > Quadravision Mode and Mosaic Preview
- > Full High Resolution digital processing
- > 4 x 3G/HD/SD-SDI
- > Stunning, Dynamic Effects

Key Features

12 Inputs

- 2 DVI Inputs
- 6 Universal Analog Inputs
- 4 x 3G/HD/SD-SDI
- SDTV, EDTV, HDTV and Computer formats up to 2K
- Full digital In/Out Processing

Outputs

- 2 Analog and Digital Outputs: Main & Preview
- Computer Formats up to 2K
- RGBHV and DVI
- Video Output: SD/HD-TV Analog and 3G/HD/SD-SDI

Operation Modes & Effects

- **3 Operation Modes:** Mixer, Native Matrix and Quadravision Mode
 - **Mixer Mode:** Stunning effects between each layer
 - **Matrix Mode:** 2 PIPs on frame, Mirror Mode effect (4 modes)
 - **Quadravision Mode:** 4 sources are displayed on the Main Output
- Logo & Frame Store (2 Logos + 1 frame simultaneously on display)
- 8 Logos & 8 Frame stores
- 1 Animated Logo

(...)

Reference

> EKS500: Eikos

To Control EKS500

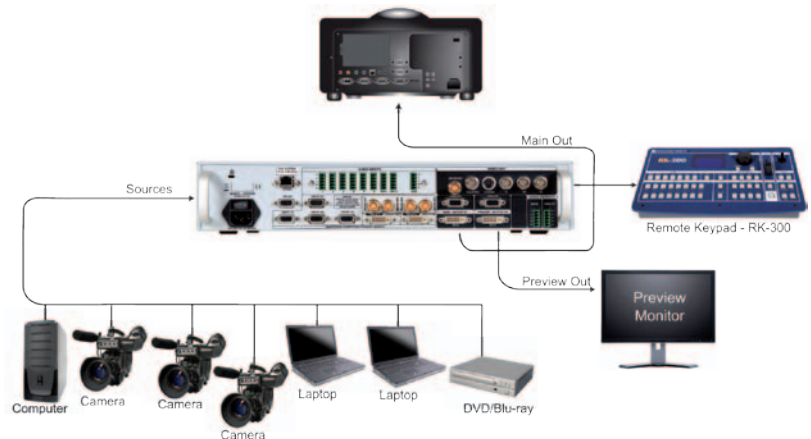
- > Remote Control Software (RCS): EKS500 (Supplied)
- > ARC200: Axion2
- > ORC50: Orchestra
- > TRK-800: Triple Remote Keypad TRK-800
- > RK-300: Remote Keypad RK-300



Key Features

- PIP: Pan & Zoom resizing up to 1000%
- PIP: Flying/Zooming, PIP animation or moving from A to B
- PIP: Cropping animation
- PIP Open/Close animation
- 2 PIPs on Live Background in Mixer Mode
- 3 PIPs on Frame Background in Mixer Mode
- Dynamic PIP (Advanced or Basic)
- PIP Border and Shadow (Edge: 1 Color, 1 Width, 1 Height)
- Dynamic Fit: Automatic adjustment of the PIP to fit the image borders
- Transitions: Fade (Dissolve), Cut, Wipe, Slide, Circle, Stretch, Depth, Flip...
- Mosaic Preview
- Smooth Move effect
- Mirror effect
- Chroma/Luma Key/DSK Title
- DSK on Analog & Digital inputs
- 8 Memory Presets
- Internal Test Patterns
- Audio Breakaway
- Audio Delay Compensation
- 12 Preset Layouts

Diagram



Technical Specifications

6 Universal Inputs - Analog Inputs (All inputs #1 to #6)

SD-TV:

- Composite, S.Video, YUV, RGsB or RGsB
- NTSC: 15.735kHz/60Hz
- PAL/SECAM: 15.625kHz/50Hz

ED/HD-TV:

- RGsB, RGsB or YUV
- 480p/60 Hz – 576p/50 Hz - 720p, 1080i, 1035i /50 or 60Hz – 1080p/24, 25, 30, 50 or 60 Hz - 1080psF/24, 25 or 30 Hz

Computer:

- RGBHV, RGsB or RGsB
- Resolution up to 1600x1200/60 Hz, 1920x1200/60 Hz or 2048x1080/60 Hz
- Horizontal frequency from 31.5 to 130 kHz
- Vertical frequency up to 130 Hz
- FpxMax = 165MHz

6 Digital Inputs (DVI-I 1, DVI-I 2, SDI1 to SDI4)

- DVI-I: SD-TV, ED-TV, HD-TV and Computer formats
- SDI: SD-TV & HD-TV – YUV/10bits/4:2:2, or 3G-SDI
- Automatic synchronization detection

Main and Preview Outputs

Computer Digital and Analog:

- RGBHV, RGsB or RGsB and DVI
- Resolution up to 1600x1200/60 Hz, 1920x1200/60 Hz or 2048x1080/60 Hz
- Vertical frequency 50, 60, 72 or 75 Hz depending on Output format
- FpxMax = 165MHz

HD-TV:

- RGsB, RGsB or YUV, DVI
- 720p, 1080i, 1035i/50 or 60Hz - 1080p/24, 25, 30, 50 or 60Hz - 1080psF/24, 25 or 30Hz

Operation Standards

SMPTE 259M, SMPTE 274M, SMPTE 292M, SMPTE 296M and SMPTE 424M

Video Outputs

- Analog and Digital SD/HD-TV
- SD-TV: NTSC/PAL, S.Video, RGB/YUV and SDI
- HD-TV: RGB/YUV and HD-SDI, or 3G-SDI

- HD Formats: 720p@50/59.95 & 60Hz - 1035i @59.94@60Hz - 1080i@50/59.94/@60Hz - 1080p@23.97/24/25/29.97/30/50 & 60Hz - 1080psF@25 or 30Hz

Audio Stereo In/Out

- **Input:**
- 8 Audio stereo inputs + 1 Auxiliary (All Balanced/Unbalanced)
- 4 inputs from embedded SDI
- Vi = +15dBu max
- Zi = 40 kOhms (Balanced)
- Adjustable Level per input
- 4 inputs from Embedded SDI

Output:

- 2 independent outputs
- Balanced/Unbalanced
- Vo = +15 dBu/300 Ohms (Unbalanced)
- Vo = +21 dBu/600 Ohms (Balanced)

User Controls - Front Panel

- Standby On/Off
- Input, Layer and Logo direct access
- Freeze/Black
- Effect and preset selection
- Large Graphic VFD screen with control knobs and buttons for easy and fast access to menus and adjustments

Connectors - Rear Panel

- Input #1 to #4 Connectors:
 - HD15-F: (Analog SD/ED/HD-TV and Computer)
- Input #5 to #6 and DVI-I 1 to DVI-I 2 Connectors:
 - DVI-I Female: (Analog SD/ED/HD-TV and Computer)
- SDI 1, SDI 2, SDI 3, SDI 4 = BNC: SD/HD SDI
- Audio:
 - 5 pin MCO connectors: 9 for Inputs and 2 for Outputs
- DB9: Dual RS232 for remote control
- RJ45: Ethernet connection
 - AC main connector with On/Off switch

Main and Preview Output Connectors

- Each output is fitted with:
- DVI-I Female: (Digital and Analog) RGB or YUV
 - HD15 Female: RGB or YUV

Video Out

- BNC-F: SD/HD-SDI (with audio embedded)
- 3 x BNC-F: Y-Cb-Cr
- Mini Din 4: S.Video
- BNC-F: Composite Video PAL/NTSC

Dimensions

- 2U, 19"
- D 13" x W 19" x H 3.15"
- D 330 mm x W 480 mm x H 88 mm

Weight

- 5.3kg/11.68lbs

Power Supply

- Internal, universal, automatic, 100-250 V; 50/60 Hz; 140 W (UL, CSA, GS, CE)

Supplied with

- 1 x Power supply cord
- 2 x DVI-I male to HD15 female + DVI-D female breakout cable
- 1 x HD15-M to 5 BNC-F cable
- 1 x Ethernet crossover cable
- 1 x Set of 11 audio 5 pin screw terminals
- 1 x Remote Control Software (RCS) (PC only)*
- 1 x User Manual*
- 1 x Quick Start Guide*

Warranty

- 3-year warranty on parts and labor back to factory

Specifications subject to change without prior notice

* All RCS, User Manuals and Quick Start Guides are also available on www.analogway.com

