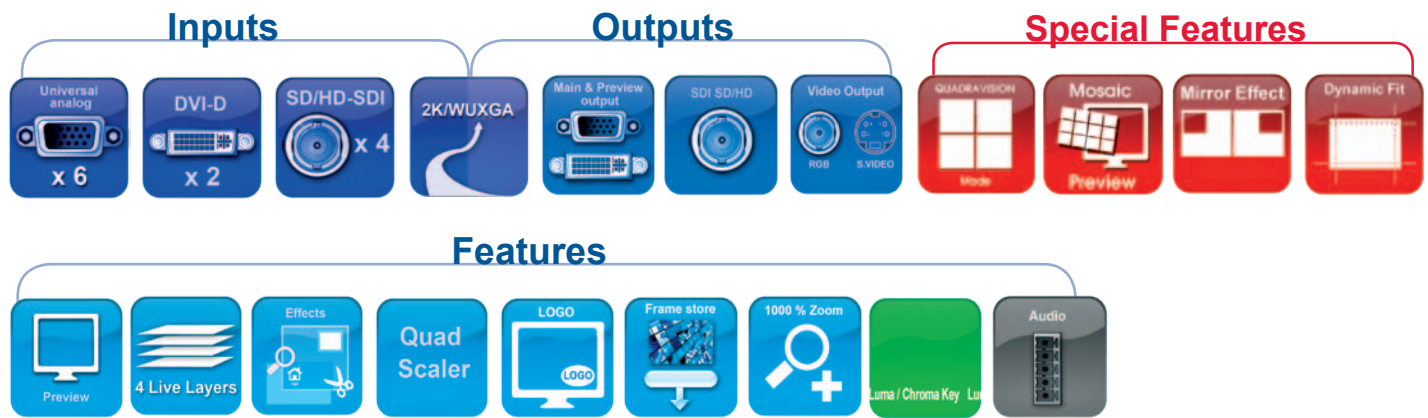
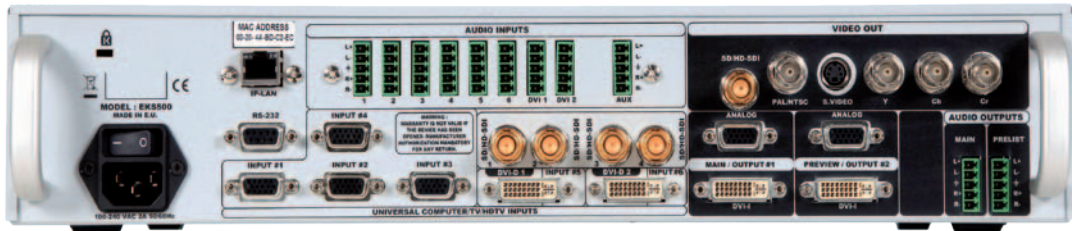
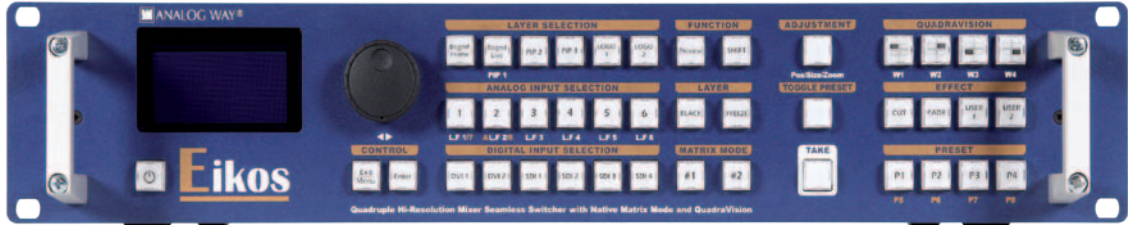


## Multi-Layer Hi-Resolution Mixer Matrix Scaler Seamless Switcher with 4 Scalers dedicated to High-End AV presentations



### EKS500 at a glance

- > High Resolution Mixer and Matrix (12x2) Seamless Switcher
- > QuadraVision Mode and Mosaic Preview
- > Full High Resolution digital processing
- > New design - More SDI/HDSDI
- > Stunning, Dynamic Effects

### 12 Inputs

- 2 Digital Inputs (DVI-D)
- 6 Universal Analog Inputs
- 4 SD/HD-SDI Inputs
- 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 SD/HD-SDI

### Reference

> EKS500: Eikos

### To Control EKS500

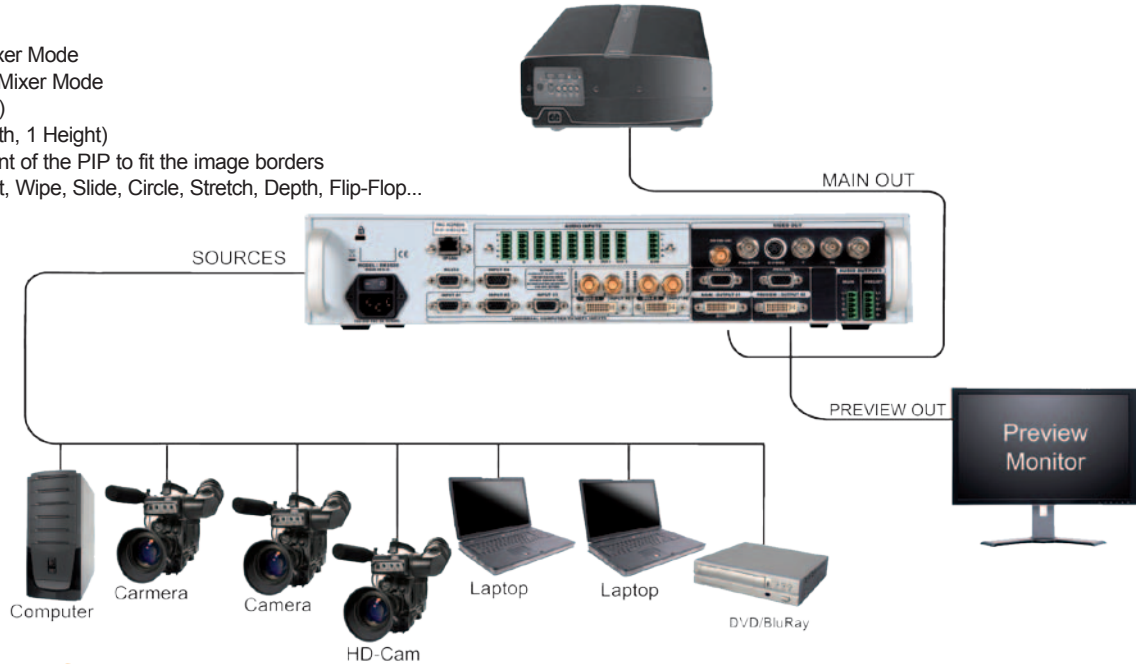
- > Remote Control Software (RCS): EKS500 (Supplied)
- > ORC50: Orchestra
- > ARC200: Axion2
- > RK-300: Remote Keypad
- > TRK-800: Triple Remote Keypad



## Operation Modes & Effects

- **3 Operation Modes:** Mixer, Native Matrix and QuadraVision Mode
  - **Mixer Mode:** Stunning effects between each layer
  - **Matrix Mode:** New feature with 2 PIPs on frame, Mirror Mode with one PIP
  - **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
- 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 (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-Flop...
- Mosaic Preview
- Smooth Move effect
- Mirror effect
- Chroma / Luma Key / DSK
- DSK on DVI Inputs
- 8 Memory Presets
- Internal Test Patterns
- Audio Breakaway
- Audio Delay Compensation

### Connecting the EKS500:



## Technical Specifications

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

- SD-TV:**
- Composite, S.Video, YUV, RGB or RGsB
  - NTSC: 15.735kHz / 60Hz
  - PAL/SECAM : 15.625kHz / 50Hz
- ED/HD-TV:**
- RGsB, RGBS 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, RGBS 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
- Automatic synchronization detection

### Main and Preview Outputs

- Computer Digital and Analog:**
- RGBHV, RGBS 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, RGBS or YUV, DVI
  - 720p, 1080i, 1035i / 50 or 60Hz - 1080p / 24, 25, 30, 50 or 60Hz - 1080psF / 24, 25 or 30Hz

### 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
- HD Formats: 720p, 1080i / 50 or 60Hz – 1080p / 24, 25, 30Hz – 1080psF / 25 or 30 Hz

### 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 80 mm

### Weight

- 5.400kg / 11.90lbs

### 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 RCS CD-ROM (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