

Smart MatrixX



Ref. SMX200

12x2 High-End Scaled Matrix with Native Hi-Res. Output for High-End Installations



Special Features



Inputs

Outputs

Features



SMX200 at a glance

- > 12 inputs including 2 x DVI-D and 4 x SDI
- > Quad Scalers
- > High-End Native Matrix Mode
- > Numerous Live Effects for impressive A/V presentations
- > Up to 2 x PIPs on Still Background on each output

12 Inputs

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

2 Outputs

- 2 Analog and Digital Outputs: Output #1 & Output #2
- Computer Formats up to 2K
- RGBHV and DVI

Operation Modes & Effects

- 1 Operation Mode : Native Matrix Mode
- 2 PIPs on Still Background on each output
- 1 PIP on Still Background with Seamless Effects
- 1 PIP with Title on Live Background
- 8 Full Frames, 8 Logo Memories, 1 animated logo
- 8 Presets per output
- Chroma/Luma Key/DSK Title
- DSK on analog or digital inputs
- PIP: Pan & Zoom resizing up to 1000%
- PIP: Open/Close Animation
- Transitions with numerous effects
- Transitions: Fade (Dissolve), Cut, Wipe, Slide
- Dynamic PIP (Moving from A to B) with Flying, Zooming or Cropping
- Mirror Mode
- Smooth Move effect
- PIP Border (Edge: 1 Color, 1 Width)

Reference

- > [SMX200](#): Smart MatrixX

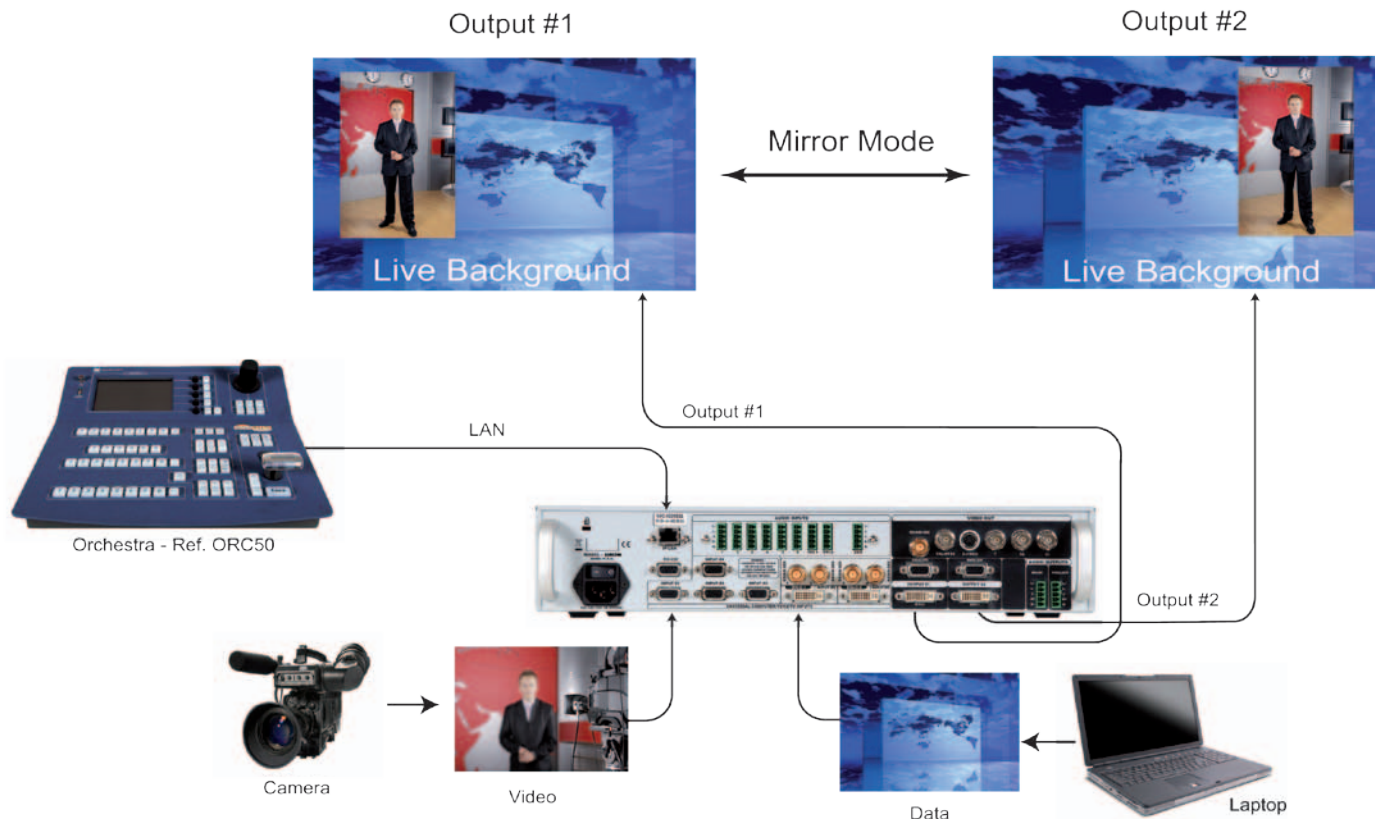
To Control SMX200

- > [Remote Control Software \(RCS\)](#): SMX200 (Supplied)
- > [ARC200](#): Axion2
- > [ORC50](#): Orchestra
- > [TRK-800](#): Triple Remote Keypad TRK-800
- > [RK-300](#): Remote Keypad RK-300



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Example of application with **SMX200**:



Technical Specifications

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

SD-TV:

- Composite, S.Video, YUV, RGsB or RGbS
- 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, or 3G-SDI
- Automatic synchronization detection

Output #1 & Output #2

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

Operation Standards

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

Video Output

- 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@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

- Inputs:
- 8 Audio stereo inputs + 1 Auxiliary (All Balanced/Unbalanced)
- 4 inputs from embedded SDI
- $V_i = +15\text{dBu max}$
- $Z_i = 20\text{ kOhms (Unbalanced)}/40\text{ kOhms (Balanced)}$
- Adjustable Level per input

- Outputs:
- 2 independent outputs
- Balanced/Unbalanced
- $V_o = +15\text{ dBu}/300\text{ Ohms (Unbalanced)}$
- $V_o = +21\text{ dBu}/600\text{ Ohms (Balanced)}$

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)
- Input SD/HD-SDI
- SDI 1, SDI 2, SDI 3, SDI 4: BNC-F

- 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

Output #1 and Output #2 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 embedded audio
- 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

- 5kg/11lbs

Power Supply

- Internal, universal, automatic, 100-240 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
- 1 x HD15 to 5 BNC 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 available on www.analogway.com