

DIMAX404/804 Scaling and Seamless Matrix

DEXON's 4x4 / 8x4 Intelligent Matrix Switcher



- > Matrix switch of 4x4 and 8x4
- > Up- and down-scaling
- > Seamless switching
- > PIP of 2 different inputs

Intelligent Matrix

DEXON Systems' DIMAX Matrix Switchers are vital components in demanding AV projects, where different input signals must be switched to any or multiple outputs. Serving broadcast, digital signage or conference room applications that demand applying the best equipment in order to deliver complete solution. For these installation challenges DEXON Intelligent Matrix (DIMAX) provides perfect solution with smart features such as multi-format input handling, quality scaling and seamless switching. DIMAX Family offers superior design, excellent price/performance balance, brilliant video quality and high reliability tailored to these challenging AV projects. Easy installation and usage is guaranteed by DEXON's intuitive man-machine interface.

Main Features

DIMAX404/804 intelligent matrix is an all-in-one solution provided by a standalone box with the following features:

- Supports all currently used industry standard signals
- Professional input signal processing and quality tuning services as pixel motion adaptive de-interlacing, 3D adaptive comb filtering and adaptive 3D noise reduction
- High quality scaling up or scaling down of input signals to the outputs
- Programmable seamless switching and transition switching effects
- PIP of two different input sources on the output
- Full HDCP support for input signals and output connections
- Easy-to-use graphics user interface for configuration process with notebook through LAN connection

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Main Features

4x Input Signals

- Digital DVI/HDMI with HDCP
- DisplayPort
- RGB, VSYNC, HSYNC
- Component video, YPbPr
- S-video
- Composite video

Input Signal Specification

Digital HDMI

HDMI 1.3 and HDCP 1.2 specifications from 640x480 to 1920x1200

Digital DVI

DVI 1.0

from 640x480 to 1920x1200

DisplayPort 1.1

from 640x480 to 1920x1200

RGB, VSYNC, HSYNC

from 640x480 to 1920x1200

Component video, YPbPr

576i, 576p, 480i, 480p, 720p, 1080i, 1080p

S-video

PAL, NTSC, SECAM

Composite video

PAL, NTSC, SECAM

4x Output Signals

- DVI-I connectors including DVI, HDMI with HDCP
- RJ45 connectors including HDBaseT compatible Cat5/6 signals

Output Signal Specification

From 640x480 up to 1920x1200 pixels:

- DVI 1.0
- HDMI 1.2 and HDCP 1.2
- HDBaseT compatible Cat5/6 signal

Audio Handling

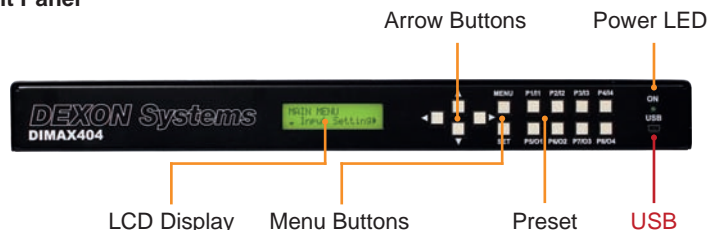
R, L analogue audio input
Audio embedding

Setup and Configuration

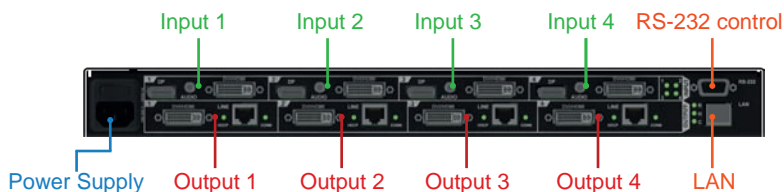
- Easy-to-use setup through push buttons and LCD panel
- LAN connection for remote setup

System Architecture

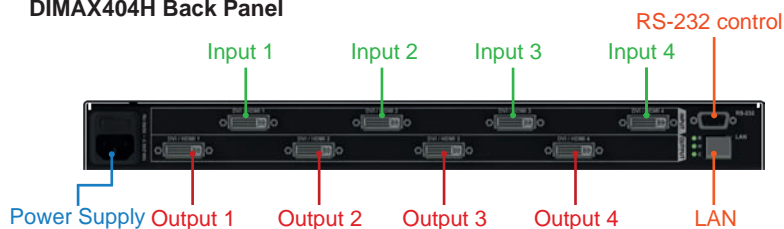
Front Panel



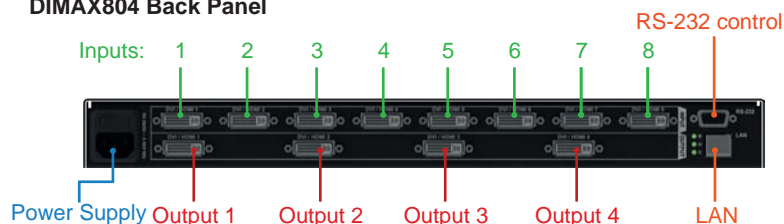
DIMAX404U Back Panel



DIMAX404H Back Panel



DIMAX804 Back Panel



Models

	Input signals	Output signals
DIMAX404U	4x DVI-I Female: CVBS, S-video, YPbPr, RGB, DVI, HDMI with HDCP 4x DisplayPort: DisplayPort 4x RCA: Audio	4x DVI-I Female: DVI, HDMI 4x RJ-45: HDBaseT
DIMAX404H	4x DVI-I Female: DVI, HDMI with HDCP	4x DVI-I Female: DVI, HDMI
DIMAX804	8x DVI-I Female: DVI, HDMI with HDCP	4x DVI-I Female: DVI, HDMI



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