

# DIMAX1616 Scaling and Seamless Matrix

DEXON 16x16 Intelligent Modular Matrix Switcher



- ✓ Modular Matrix from 4x4 to 16x16
- ✓ Capable to switch any video standards, HDBaseT and Optic Fiber
- ✓ PIP of two different inputs
- ✓ Seamless switching and scaling

## Intelligent Matrix

DEXON Systems® offer high quality, intelligent matrix switchers to handle from 4 input and 4 output signals to 16 input and 16 output signals in demanding AV projects. The modular unit accepts different format of input signals, **switch** and **scale** them to the required output resolution.

Professional scaling and format conversion make the product an essential part of AV projects where different signals must be processed, switched and presented. Advanced signal processing provide the highest quality and crystal clear video picture without loss of frames. Easy-to-use configuration can be performed locally through push buttons or remotely through LAN connection.

## System Characteristics

The DIMAX-1616 intelligent matrix provides the following features:

- Supports all currently used video signal standards
- Expandable from 4x4 to 16x16 with different input and output boards
- PIP of two different inputs
- Professional 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
- Seamless switching
- Full HDCP support for input signals and output connections

**DEXON Systems Ltd.**

E-mail: [sales@dexonsystems.com](mailto:sales@dexonsystems.com) Web: <http://www.dexonsystems.com>

Phone: +36 23 422 804 Fax: +36 23 445 199 Address: Baross u. 165. H-2040 Budaörs, Hungary

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# Main Features

## Input Boards

- **Universal input board**  
4x analogue or digital SD/HD input signal  
4x DVI-I (Female) connector
- **DVI/HDMI input board**  
4x DVI/HDMI with HDCP encrypted input signal  
4x DVI-I (Female) connector
- **Cat input board**  
4x Category input up to 100m (330 feet)  
4x RJ45 (Female) connector
- **Fiber Optic input board**  
4x SC standard Optic Fiber input up to 1600m (5,250 feet)
- **SDI input board**  
4x 3GSDI/HD-SDI/SDI input signal  
4x BNC (Female) connector

## Output Boards

- **DVI/HDMI output board**  
4x DVI/HDMI with HDCP encryption
- **Cat output board**  
4x Category output
- **Fiber Optic output board**  
4x SC Standard Optic Fiber output

## 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
- **RGB, VSYNC, HSYNC**  
from 640x480 to 1920x1200
- **Component video, YPbPr**  
576i, 576p, 480i, 480p, 720p, 1080i, 1080p
- **S-video, Composite video**  
PAL, NTSC, SECAM
- **SDI**  
3GSDI/HD-SDI/SDI
- **HDBaseT compatible Cat5/6 signal**  
up to 100m (330 feet)  
from 640x480 to 1920x1200
- **Fiber Optic**  
up to 1,600m (5,250 feet)

## Output Signal Specification

- From 640x480 up to 1920x1200 pixels:**
- Digital HDMI 1.2 and HDCP 1.2
  - Digital DVI 1.0
  - Fiber Optic up to 1,600m (5,250 feet)
  - HDBaseT compatible Cat5 signal up to 100m (330 feet)

## Setup and Configuration

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

## General

- Dimension: 483 x 178 x 526 (mm)  
including rack ears
- 19" rack-mountable enclosure:

## System Architecture

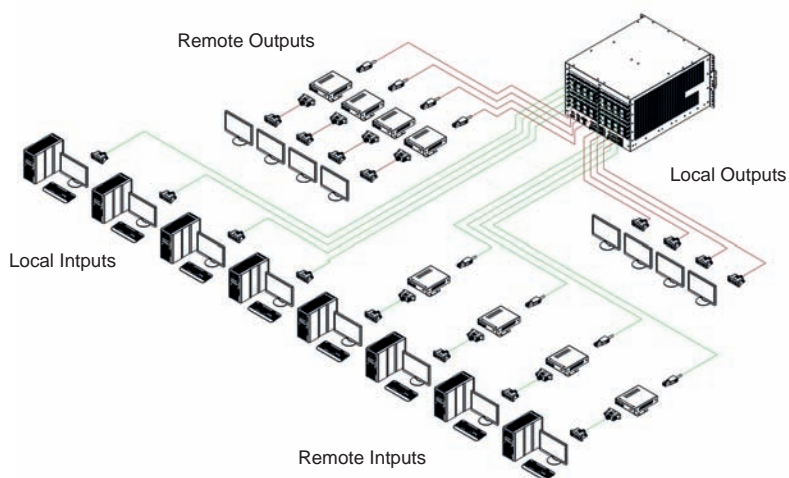
### Front Panel



### Back Panel



### Card Slots



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