

Universal Scaler Line

Universal/SDI Inputs Scaled and Switched to RGB/DVI/HDMI Output

HDMI



- Multi-format input signals
- Format conversion
- Frame-rate conversion
- De-interlacing and comb-filtering
- Up- and down-scaling
- Signal switching
- Standard RGB/DVI/HDMI output

Universal Scalers

DEXON Systems offer high quality universal scaling switchers for demanding AV projects. The standalone scalers accept different format of input signals, switch and scale them to the required output resolution through standard DVI/HDMI connector. All current industrial standards and signal formats are supported by the unit on the Universal input and the RGB/DVI/HDMI output side. The format and frame rate conversion make the product an essential part of AV projects where different signals are used to form one coherent solution. Professional input signal processing and scaling provide the highest quality and crystal clear video picture on the output without loss of frames. Easy-to-use configuration can be performed by front LCD panel and push button driven menu items.

System Characteristics

The Universal Scaler is an all-in-one solution provided by a standalone box of the following features:

- Supports all currently used input signal and connector standards as composite video, S-video, component video (YPbPr), analogue RGB (VGA), digital DVI, digital HDMI with HDCP, DisplayPort and 3GSDI
- Professional input signal processing and quality improvement services as pixel motion adaptive de-interlacing, 3D adaptive comb-filtering and adaptive 3D noise reduction
- High quality up or down scaling
- Switching of input signals to the RGB/DVI/HDMI output
- Providing the highest quality crystal clear video picture on the output in real time

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Technical Details

Input Signals

Composite video
S-video
Component video, YPbPr
RGB, VSYNC, HSYNC
Digital DVI
Digital HDMI with HDCP
DisplayPort
3GSDI/HD-SDI/SDI

Input Signal Specifications

Composite video
PAL, NTSC, SECAM

S-video
PAL, NTSC, SECAM

Component video, YPbPr
576i, 576p, 480i, 480p, 720p, 1080i, 1080p

RGB, VSYNC, HSYNC
from 640x480 up to 1920x1200

Digital DVI
DVI 1.0
from 640x480 up to 1920x1200

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

DisplayPort 1.1
from 640x480 up to 1920x1200

3GSDI/HD-SDI/SDI
SMPTE 424M, SMPTE 425M,
SMPTE 292M, SMPTE 259M

Output Signals

RGB, DVI and HDMI

Output Signal Specifications

DVI 1.0
HDMI 1.2 and HDCP 1.2
from 640x480 up to 1920x1200 pixels

Audio Handling

R, L analogue audio input
R, L analogue audio output
S/PDIF digital audio input
S/PDIF digital audio output

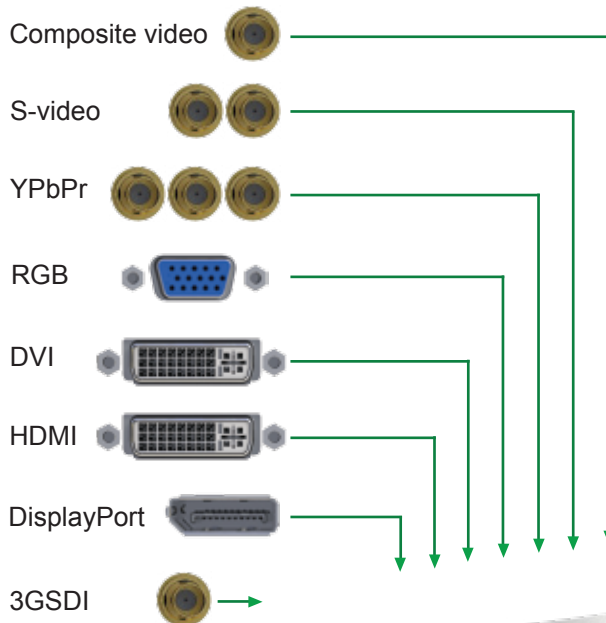
Setup and Configuration

Easy-to-use setup through push buttons and LCD panel or USB connected laptop

- Input selection
- Output signal resolution
- Autosense based automatic input selection

System Architecture

Input Signals

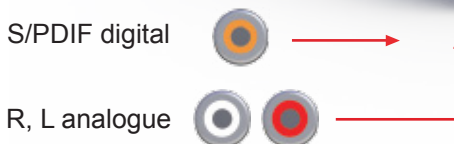


DVI/HDMI Output Signal



RGB/DVI/HDMI cable

Audio In/Out



Model Name	Universal Inputs	SDI Input	Output
DUS100	Composite video S-video Component video, YPbPr RGB, VSYNC, HSYNC Digital DVI Digital HDMI 1.3 signal DisplayPort 1.1 signal	-	RGB DVI 1.0 HDMI 1.2 and HDCP 1.2
DUS101	Composite video S-video Component video, YPbPr RGB, VSYNC, HSYNC Digital DVI Digital HDMI 1.3 signal DisplayPort 1.1 signal	3GSDI/HD-SDI/SDI SMPTE 424M SMPTE 425M SMPTE 292M SMPTE 259M	RGB DVI 1.0 HDMI 1.2 and HDCP 1.2

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