

Universal Scaling Extender Line

Universal/SDI Inputs Scaled and Switched to DVI/HDMI Output through 100 m Cat6 Cable

Cat6



- Multi-format input signal handling
- Up- and down-scaling of Universal and SDI inputs
- Signal switching of Universal and SDI inputs
- Transmit HDMI signal over single Cat6 cable of 100 m
- DVI/HDMI output connector on the remote receiver box
- Format and frame-rate conversion
- De-interlacing and adaptive comb-filtering

Universal Extender

DEXON Systems offer high quality universal extender for demanding AV projects. The DUSE scaling extenders accept different format of input signals, switch and scale them to the required output resolution and transmit through Cat6 cable to remote displays with HDMI input.

The format and frame rate conversion make the product an essential part of AV projects where different signals are used to drive remote displays. 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 push buttons and LCD panel or USB connected laptop.

System Characteristics

The Universal Scaling Extender 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/HD-SDI/SDI
- 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 scaling up or scaling down of input signals
- Switch and transmit the input signals to HDMI output up to 100 m distance
- Full HDCP support over single Cat6 cable

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Technical Details

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 Signal Specifications

Standard RJ45 connector for Cat6 cable of 100 m to remote box

DVI output connector for DVI/HDMI

DVI 1.0 output signals

HDMI 1.2 and HDCP 1.2 specification

Audio Handling

R, L analogue audio input

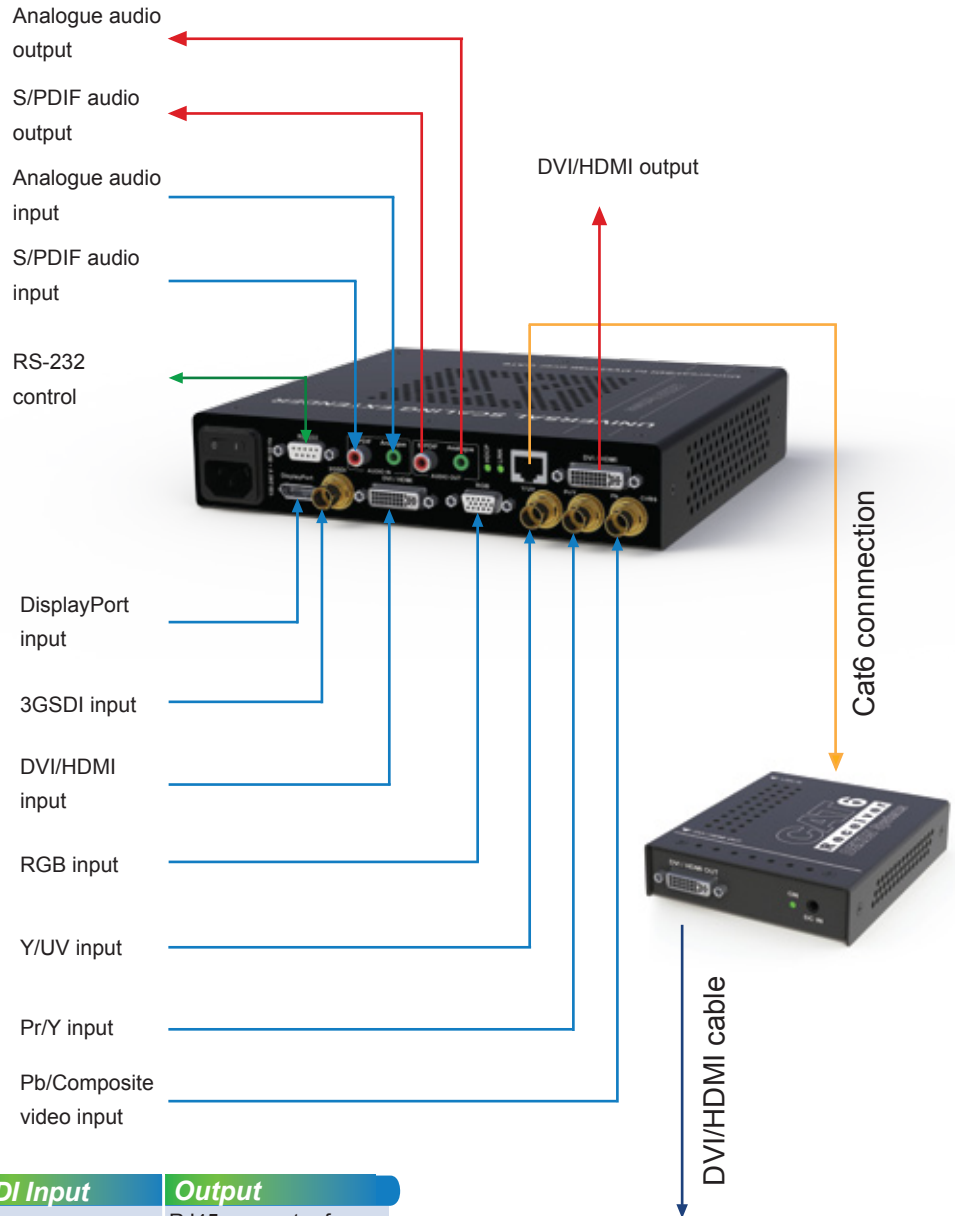
R, L analogue audio output

S/PDIF digital audio input

S/PDIF digital audio output

System Architecture

Input Signals



Model Name	Universal Inputs	SDI Input	Output
DUSE200	Composite video S-video Component video, YPbPr RGB, VSYNC, HSYNC Digital DVI Digital HDMI 1.3 DisplayPort 1.1	-	RJ45 connector for Cat5e/Cat6/Cat6a cable Cat6 receiver with DVI/HDMI connector output
DUSE201	Composite video S-video Component video, YPbPr RGB, VSYNC, HSYNC Digital DVI Digital HDMI 1.3 DisplayPort 1.1	3GSDI/HD-SDI/SDI SMPTE 424M SMPTE 425M SMPTE 292M SMPTE 259M	RJ45 connector for Cat5e/Cat6/Cat6a cable Cat6 receiver with DVI/HDMI connector output

DVI/HDMI Output Signal

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