



# DECIMATOR 2

MINIATURE (3G/HD/SD)-SDI to both HDMI and NTSC/PAL Converter  
with simultaneous scaling on both outputs  
and De-Embedded Analogue Audio

## PRODUCT FEATURES

- Auto detects 3G, HD or SD (26 Formats in total) and can handle switching of synchronous sources
- Simultaneous scaling on both the HDMI and Composite outputs with a maximum delay of 1 input frame
- HDMI output with optional full scaling and aspect ratio conversion.
- Down-converted Composite output
  - NTSC or PAL is selectable for 3G/HD inputs
  - SD will be passed unchanged.
  - Low latency 3G/HD to SD Down-conversion with ARC (Aspect Ratio Conversion) of either:
    - 16:9 to 16:9 Anamorphic
    - 16:9 to 4:3 Letterbox
    - 16:9 to 4:3 Centre Cut (Crop to 4:3)
  - Full 10-bit data path and multipoint interpolation
  - 16 times over-sampling for Composite Output
- Passes EIA-708/608 Closed Captions to the Composite Output
- Full 16-Channel Audio metering displayed on the HDMI output with:
  - Any of the 4 audio groups individually selectable
  - Vertical or Horizontal Bars
  - AES, VU, Extended VU, BBC, EBU, DIN and NORDIC Scales
  - Bar & Float, Bar only or Float only
  - Transparency adjustment
  - Separate Bar and Float Ballistics control
  - Adjustable Reference level
  - Red, Yellow and Green Range adjustment
  - Bar thickness adjustment
  - Margin adjustment
- De-Embedded Analogue Audio is output on 2 x RCA connectors at -10dBu = -20dBFS.
- 3G/HD/SD-SDI Active Loop-Through Output
- Adjustable Graticules Generator displayed on the HDMI output with:
  - Separate enables for Safe Action, Safe Title and Centre Cross
  - Adjustable position for either Safe Action or Safe Title
  - Adjustable colours for Safe Action, Safe Title and Centre Cross
- Text Overlays displayed on the HDMI output with:
  - Adjustable Foreground and Background colours
  - Adjustable 16 character text
  - Current input format status
- External Dipswitch Configuration
- USB port for control and firmware updates
- Locking DC Power Socket
- The following is also included with the unit:  
Power Supply, HDMI Cable, USB Cable and Mounting Bracket



## SPECIFICATIONS

<b>VIDEO FORMATS</b>	3G: SMPTE 424M@2.97 and 2.967Gb/s • 1080p@60/59.94/50Hz HD: SMPTE 292M/274M/296M@1.485 and 1.435Gb/s • 1080i@60/59.94/50Hz • 1080p/psf@30/29.97/25/24/23.98Hz • 720p@60/59.94/50/30/29.97/25/24/23.98Hz SD: SMPTE 259M@270Mb/s • 625i50 • 525i59.94	<b>DIP SWITCH CONTROLS</b>	• NTSC or PAL Selection • SD Pedestal • Crop 16:9 to 4:3 • 16:9 or 4:3 Aspect Selection • Stereo Pair selection for RCA Analogue Audio • HDMI Output format select
<b>INPUTS</b>	• (3G/HD/SD)-SDI 10-bit • Conditional Maximum Equalization cable length of 400M for SDI, 200M for HD-SDI and 100M 3G-SDI using Belden 1694A	<b>OUTPUTS</b>	• HDMI • SD-Composite • 1 x (3G/HD/SD)-SDI Active Loop-Through • 2 x RCA for De-embedded Analogue Audio (20dBFS=-10dBu)
<b>LED STATUS</b>	• Power • Signal Lock	<b>DIMENSIONS</b>	90mm x 71mm x 23mm (3.5" x 2.8" x 0.9")
<b>POWER</b>	• +5V to +24V DC, ~5 Watts • Positive Centre Pin		

www.decimator.com  
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