



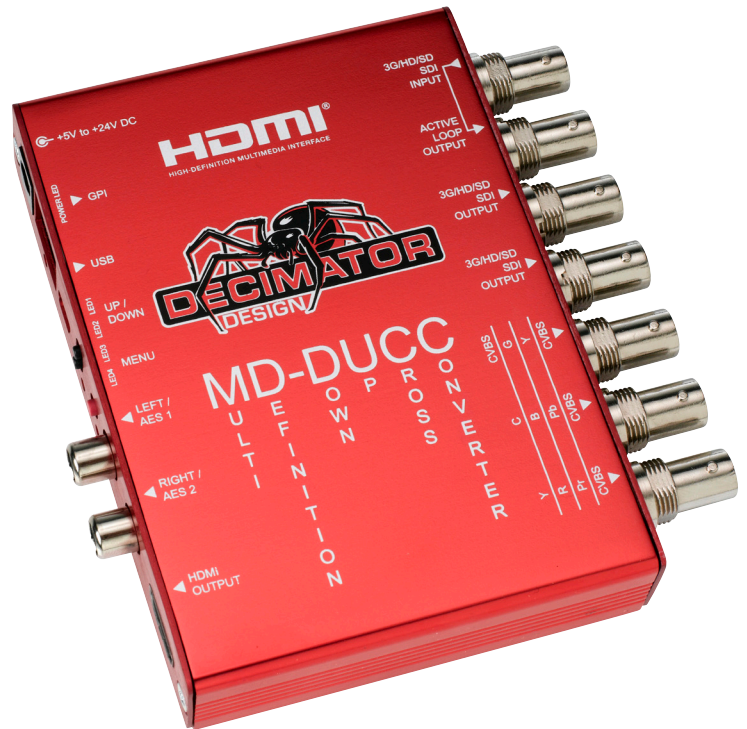
# MD-DUCC

## MULTI-DEFINITION DOWN UP CROSS CONVERTER

Finally a low cost solution to convert any video format/frame rate to any video format/frame rate!

### PRODUCT FEATURES

- Auto detects 3G, HD or SD (26 Formats in total)
- Full 10-bit data path and multipoint interpolation
- Professional motion-adaptive de-interlacing
- True Down Up Cross conversion, allowing the conversion between any of the supported formats. Simply select the output format you require, no matter what the input format is
- Complete 16:9, 14:9 and 4:3 Aspect ratio conversion support, with individual selection for HD to HD, HD to SD, SD to HD and SD to SD conversions
- Full 16-Channel Audio metering 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
- Adjustable Graticules Generator 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 with:
  - Adjustable Foreground and Background colours
  - Adjustable 16 character text
  - Current input format status
- HDMI output
- Selectable analog video from: 3 x CVBS / YPbPr / RGB / CVBS & YC
- 2 x (3G/HD/SD)-SDI 10-bit outputs with audio from input automatically delayed and passed



- GPI on RJ-45 for Tallies
- 3G/HD/SD-SDI Active Loop-Through Output
- De-Embedded audio can be output on 2 x RCA connectors as either AES or Analogue with adjustable analogue audio level
- LEDs for status and buttons for basic 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>CONTROLS</b>	<ul style="list-style-type: none"> <li>• HDMI format type</li> <li>• Analogue Video format type</li> <li>• Output format</li> <li>• Aspect conversion type for HD to HD, HD to SD, SD to HD and SD to SD conversions.</li> <li>• On-Screen Overlays Enables</li> <li>• Basic Audio Meter control</li> <li>• Basic Graticule Enables</li> </ul>
<b>INPUTS</b>	<ul style="list-style-type: none"> <li>• (3G/HD/SD)-SDI 10-bit</li> <li>• Conditional Maximum Equalization cable length of 400M for SDI, 200M for HD-SDI and 100M 3G-SDI using Belden 1694A</li> </ul>	<b>OUTPUTS</b>	<ul style="list-style-type: none"> <li>• HDMI</li> <li>• 1 x (3G/HD/SD)-SDI Active Loop-Through</li> <li>• 2 x (3G/HD/SD)-SDI 10-bit Outputs</li> <li>• (3 x CVBS) / (Y, Pb, Pr) / (G, B, R) / (CVBS, Y &amp; C)</li> <li>• AES 1 / Unbalanced Analogue Audio - Left</li> <li>• AES 2 / Unbalanced Analogue Audio - Right</li> </ul>
<b>LED STATUS</b>	<ul style="list-style-type: none"> <li>• Power</li> <li>• Signal Lock</li> </ul>	<b>DIMENSIONS</b>	90mm x 123mm x 23mm (3.5" x 4.8" x 0.9")
<b>POWER</b>	<ul style="list-style-type: none"> <li>• +5V to +24V DC, ~5 Watts</li> <li>• Positive Centre Pin</li> </ul>		

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