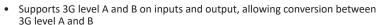# MD-QUAD

VERSION 3
Miniature (3G/HD/SD)-SDI Quad-Split / Multiviewer with (3G/HD/SD)-SDI and HDMI Outputs

PRODUCT FEATURES

- Supports 3G level A and B on inputs and output, allowing conversion between 3G level A and B
- Low cost (3G/HD/SD)-SDI 1 to 4 Multi-Viewer or 4 to 1 input multiplexer
- Custom Layouts with various standard layouts
- 16 Character UMD overlay per window with individual enables, custom positioning and size
- 8 Channel Audio Metering overlay per window with individual enables, custom positioning and size
- Horizontal and/or Vertical image flipping per window
- Audio ID overlay
- Tallies can be applied to either Tally Boxes (Default) or Border
- Tally boxes allows for up to 4 Tallies per window
- Fast switching between inputs using Full-Screen scaling
- Selectable output format in both Full-Screen Multi-Viewer mode
- Low latency buffering for each input allowing non-synchronous inputs
- Linked (3G/HD/SD)-SDI and HDMI outputs
- 4 x (3G/HD/SD)-SDI inputs with auto detection (26 Formats supported in total)
- Each window is independent of the others, allowing any 3G/HD/SD format of any frame rate to be displayed simultaneously
- Variable aspect ratios per window
- Professional 3G/HD/SD Test Pattern Generator featuring 54 Test Patterns including Luma and Chroma Zone-plates
- Audio Tone Generator
- In Pass-Through mode the selected input is passed through to both the (3G/HD/SD)-SDI and HDMI outputs
- An extensive selection of user controllable functions via an easy to use rotary encoder for menu selection. LEDs and a push button can then be used for status and control
- On-screen display pop-up when using the rotary to allow for use when without a PC
- This unit also includes:
    - GPI on RJ-45 connector for Tallies and Remote Switching
    - RS422/485 on RJ-45 connector for Dynamic UMD and Tallies
    - USB port for control and firmware updates
    - Locking DC Power Socket
    - Power Supply, HDMI Cable and USB Cable

SPECIFICATIONS

SDI FORMATS	3G:SMPTE 424M@2.97 and 2.967Gb/s	MENU OPTIONS	• Input status for all 4 inputs
	• 1080p@60/59.94/50Hz		• Output format
	HD:SMPTE 292M/274M/296M@1.485 and 1.435Gb/s		• Output selection of Quad Split or input 1, 2, 3 or 4.
	• 1080i@60/59.94/50Hz		• Output aspect and type of 16:9 or 4:3 at either 90 or 100% of screen size
	• 1080p/psf@30/29.97/25/24/23.98Hz		• Individual aspect format for each input of Same as output, Letter-box or Pillar-box
	• 720p@60/59.94/50/30/29.97/25/24/23.98Hz		• Border Enable
	SD:SMPTE 259M@270Mb/s		• Quad split mode reference of either Free-run or input 1
	• 625i50 (PAL)		• Enables for On-Screen Overlays
	• 525i59.94 (NTSC)		• Basic Audio Meter control
INPUTS	• Input Equalization > 100M using Belden 1694A	OUTPUTS	• 1 x 10-bit (3G/HD/SD)-SDI Re-clocked
	• USB for control and updates		• HDMI Type A
	• GPI on RJ-45		
LED STATUS	• Power	DIMENSIONS	90mm x 94mm x 23mm (3.5" x 3.7" x 0.9")
	• 4 x Signal lock and rate		
POWER	• +5V to +24V DC, 6 Watts		
	• Positive Centre Pin		

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