

PRODUCT TECHNICAL SPECIFICATIONS



# DMON-QUAD

1 to 4 Channel MultiViewer / Quad-Split  
with SDI and HDMI outputs for 3G/HD/SD plus  
Custom Layouts, UMDs, Audio Meters and Tallies

[VIEW](#)



# 12G-CROSS

HDMI / SDI 4K CROSS CONVERTER  
with Scaling and Frame Rate Conversion

[VIEW](#)



# MD-CROSS

MINIATURE (3G/HD/SD)-SDI / HDMI CROSS CONVERTER  
with Scaling and Frame Rate Conversion

[VIEW](#)



# DMON-16S

1 to 16 Channel Multi-Viewer with SDI and HDMI  
Outputs for 3G/HD/SD and Custom Layouts, UMDs,  
Audio Meters, Graticules and Tallies

[VIEW](#)



# MD-LX

(3G/HD/SD)-SDI / HDMI  
BI-DIRECTIONAL CONVERTER

[VIEW](#)



# MD-HX

MINIATURE (3G/HD/SD)-SDI / HDMI CROSS CONVERTER  
with Scaling and Frame Rate Conversion

[VIEW](#)





# DMON-QUAD

1 to 4 Channel MultiViewer / Quad-Split  
with SDI and HDMI outputs for 3G/HD/SD plus  
Custom Layouts, UMDs, Audio Meters and Tallies

## 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
- In Pass-Through mode the selected input is passed through to both the (3G/HD/SD)-SDI and HDMI outputs
- The DMON-QUAD is a truly portable converter, that incorporates our easy to use LCD and button control system. This gives you easy access to most of the amazing features without using complicated LED/button control, dip switches or having to carry around a computer to change a simple setting.
- 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
  - Robust Aluminium box
  - Metal Thread Locking DC Power Socket
  - Power Supply, HDMI Cable and USB Cable



## SPECIFICATIONS

<b>SDI INPUT &amp; OUTPUT 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 (PAL) • 525i59.94 (NTSC)	<b>LCD / BUTTON MENU OPTIONS</b>	• HDMI output type • Output Select • Multi-Viewer Output Format • Multi-Viewer Number of Windows • Multi-Viewer Layout • Multi-Viewer Audio Source • Multi-Viewer Reference • Full Screen is Scaled • Input Routing • GPI mode • Setup
<b>HDMI OUTPUT FORMATS</b>	• 1080p@60/59.94/50/30/29.97/25/24/23.98Hz • 1080i@60/59.94/50Hz • 720p@60/59.94/50/30/29.97/25 • 625i50 (PAL) • 525i59.94 (NTSC)	<b>INPUTS</b>	• 4 x (3G/HD/SD)-SDI • USB for control and updates • GPI on RJ-45
<b>POWER</b>	• +5V to +32V DC • Positive Centre Pin	<b>OUTPUTS</b>	• 1 x (3G/HD/SD)-SDI • HDMI Type A
<b>DIMENSIONS</b>	79.5mm x 123mm x 29.5mm (3.1" x 4.8" x 1.2")		

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# 12G-CROSS

HDMI / SDI 4K CROSS CONVERTER  
with Scaling and Frame Rate Conversion

## PRODUCT FEATURES

- The 12G-CROSS is a small (4.2" x 5.1" x 1.2") low power portable converter encased in a solid robust aluminium case and does not contain a noisy fan. Allowing it to be used in almost any environment.
- Allows either of the HDMI or SDI outputs to be simultaneously sourced from either the HDMI or SDI input or the new 4K scaling engine.
- The 4K scaling engine can be driven by either the SDI or HDMI input, supports horizontal and/or vertical flipping and can be locked to either the SDI, HDMI or Genlock input.
- The 4K scaling engine can scale and/or frame rate convert between any of the following 57 formats:
  - (3840 or 4096) x 2160p50/59.94/60 via HDMI or 12G-SDI
  - (3840 or 4096) x 2160p30/29.97/25/24/23.98 via HDMI or 6G-SDI
  - (1920 or 2048) x 1080p50/59.94/60 via HDMI or 3G-SDI (A or B)
  - 1920 x 1080i60/59.94/50 via HDMI or HD-SDI
  - (1920 or 2048) x 1080p30/29.97/25/24/23.98 via HDMI or HD-SDI
  - (1920 or 2048) x 1080psf30/29.97/25/24/23.98 via HD-SDI
  - 1280 x 720p60/59.94/50/30/29.97/25 via HDMI or HD-SDI
  - 1280 x 720p24/23.98 via HD-SDI
  - 720 x 480p59.94 or 720 x 576p50 via HDMI
  - 720 x 480i59.94 (NTSC) or 720 x 576 (PAL) via HDMI or SD-SDI

That is an amazing 3249 possible format conversions!

- The audio pairs in the SDI and HDMI outputs can be rearranged as required.



- Includes 4 x (3G/HD/SD)-SDI outputs, that allow it to be used as a 1 to 4 distribution amplifier.
- The 12G-CROSS is a truly portable product that incorporates an easy-to-use LCD screen and button control system. This gives easy access to the outstanding features without using complicated LED/button controls, dip switches, or having to carry around a computer to change a simple setting.
- This unit also includes:
  - USB port for control and firmware updates
  - Metal Thread Locking DC Power Socket
  - Power Supply and USB Cable

## SPECIFICATIONS

SDI FORMATS	12G:SMPTE 2048-1/2036-1@11.88 and 11.868Gb/s • (3840 or 4096) x 2160p@60/59.94/50Hz 6G: SMPTE 2048-1/2036-1@5.94 and 5.934Gb/s • (3840 or 4096) x 2160p@30/29.97/25/24/23.98Hz 3G-A or 3G-B: SMPTE 424M@2.97 and 2.967Gb/s • (1920 or 2048) x 1080p@60/59.94/50Hz HD:SMPTE 292M/274M/296M@1.485 and 1.435Gb/s • 1920 x 1080i@60/59.94/50Hz • (1920 or 2048) x 1080p/psf@30/29.97/25/24/23.98Hz • 1280 x 720p@60/59.94/50/30/29.97/25/24/23.98Hz SD:SMPTE 259M@270Mb/s • 720 x 576 (PAL) • 720 x 480i59.94 (NTSC)	HDMI FORMATS	• (4096 or 3840) x 2160p@60/59.94/50/30/29.97/25/24/23.98Hz • 1920 x 1080p@60/59.94/50/30/29.97/25/24/23.98Hz • 1920 x 1080i@60/59.94/50Hz • 1280 x 720p@60/59.94/50/30/29.97/25 • 720 x 480p59.94 or 720 x 576p50 • 720 x 480i59.94 (NTSC) or 720 x 576 (PAL)
		INPUTS	• 1 x HDMI Type A • 1 x (12G/6G/3G/HD/SD)-SDI • 1 x Genlock
LCD / BUTTON MENU OPTIONS	• SDI output source from HDMI IN, SDI IN or Scaler • HDMI output type and source from HDMI IN, SDI IN or Scaler • Scaler source, reference, format and Aspect Controls • Audio pair routing for HDMI and SDI output • LCD backlight off time • Back to Status time	OUTPUTS	• 1 x HDMI Type A • 2 x (12G/6G/3G/HD/SD)-SDI Re-clocked Loop-through • 2 x (12G/6G/3G/HD/SD)-SDI
		POWER	• +5V to +32V DC • Positive Centre Pin
		DIMENSIONS	106mm x 130mm x 31mm (4.2" x 5.1" x 1.2")

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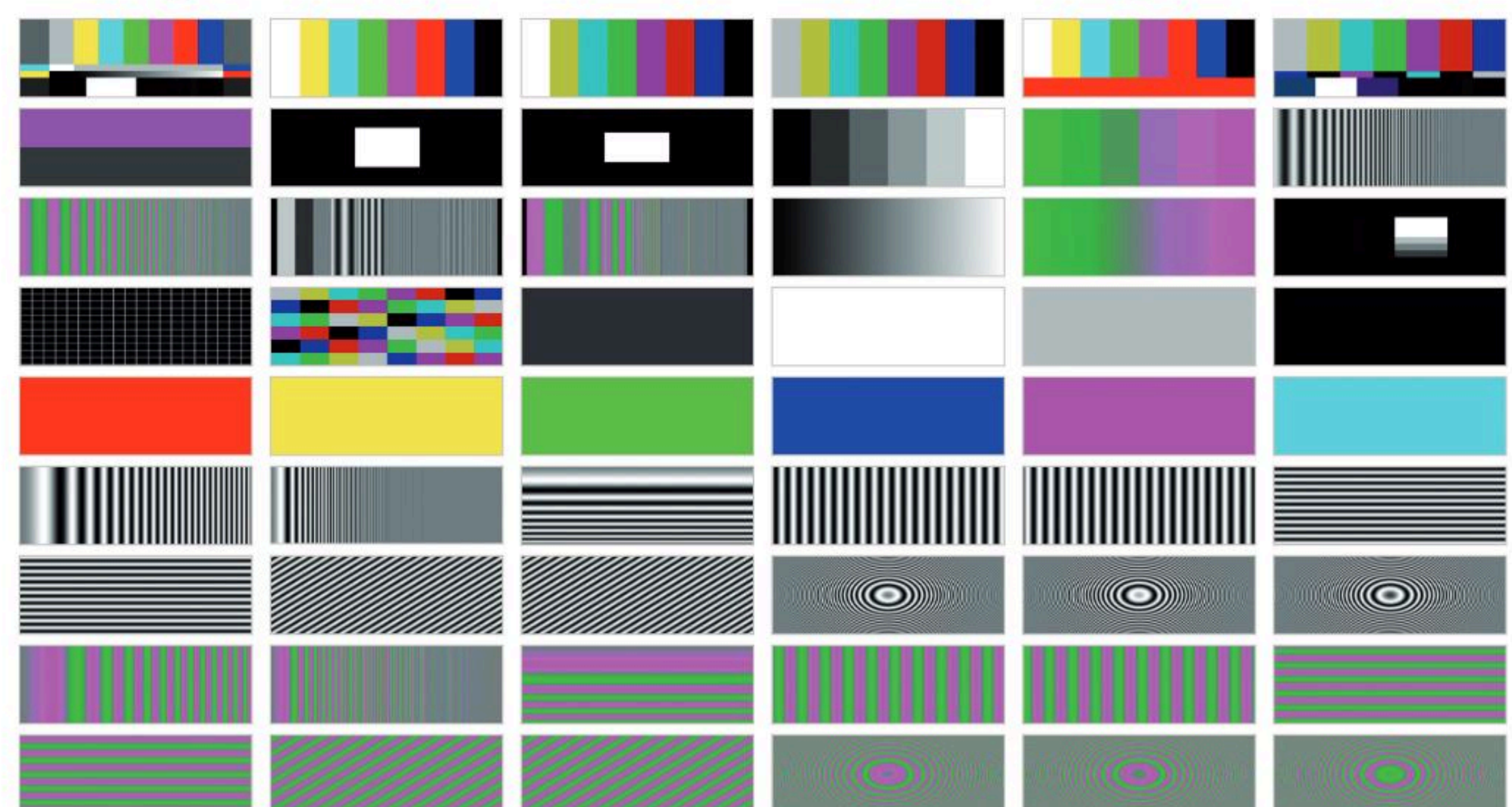


# MD-CROSS

MINIATURE (3G/HD/SD)-SDI / HDMI CROSS CONVERTER  
with Scaling and Frame Rate Conversion

## PRODUCT FEATURES

- Features the following four modes:
  1. HDMI to SDI while simultaneously converting SDI to HDMI
  2. HDMI to HDMI while simultaneously converting SDI to SDI
  3. HDMI to SDI and HDMI
  4. SDI to SDI and HDMI
- Professional 3G/HD/SD Test Pattern Generator featuring:
  - 26 Selectable Output Formats
  - 54 Test Patterns including Luma and Chroma Zone-plates
- Includes the same Down Up Cross Converter from our multi-award winning MD-DUCC, allowing either the HDMI or SDI input to be scaled and/or frame rate converted to the required standard.
- The MD-CROSS is a truly portable converter, that incorporates a new easy to use LCD and button control system. This gives you easy access to all of the amazing features that have been unavailable without a computer until now. The days of having to play with annoying dip switches or having to carry around a computer to change a simple setting are gone.
- This unit also includes:
  - (3G/HD/SD)-SDI Active Loop-Through Output
  - Full 16-Channel Audio Metering Overlays
  - Adjustable Safe Title and Safe Action Overlays and static Center Cross
  - Text Overlays
  - USB port for control and firmware updates
  - New Metal Thread Locking DC Power Socket
  - Power Supply, HDMI Cable and USB Cable



## SPECIFICATIONS

<b>SDI FORMATS</b>	3G:SMPTE 424M@2.97 and 2.967Gb/s <ul style="list-style-type: none"><li>• 1080p@60/59.94/50Hz</li></ul> HD:SMPTE 292M/274M/296M@1.485 and 1.435Gb/s <ul style="list-style-type: none"><li>• 1080i@60/59.94/50Hz</li><li>• 1080p/psf@30/29.97/25/24/23.98Hz</li><li>• 720p@60/59.94/50/30/29.97/25/24/23.98Hz</li></ul> SD:SMPTE 259M@270Mb/s <ul style="list-style-type: none"><li>• 625i50</li><li>• 525i59.94</li></ul>	<b>LCD / BUTTON MENU OPTIONS</b>	<ul style="list-style-type: none"><li>• SDI output source from HDMI IN, SDI IN, TPG or Scaler</li><li>• HDMI output type and source from HDMI IN, SDI IN, TPG or Scaler</li><li>• Scaler source, format and Aspect Controls</li><li>• Full control for Audio Meter Overlays</li><li>• Full control for Safe Action, Safe Title and Centre Cross Overlays</li><li>• Full control for Text Overlays</li><li>• Full control for Format Status Overlays</li></ul>
<b>INPUTS</b>	<ul style="list-style-type: none"><li>• HDMI</li><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></ul>
<b>POWER</b>	<ul style="list-style-type: none"><li>• +5V to +32V DC</li><li>• Positive Centre Pin</li></ul>	<b>DIMENSIONS</b>	79.5mm x 123mm x 29.5mm (3.1" x 4.8" x 1.2")

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# DMON-16S

1 to 16 Channel Multi-Viewer with SDI and HDMI Outputs for 3G/HD/SD and Custom Layouts, UMDs, Audio Meters, Graticules and Tallies

## PRODUCT FEATURES



- Low cost miniature (3G/HD/SD)-SDI 1 to 16 Multi-Viewer or 16 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
- Safe Action and Safe Title overlay per window with individual enables and adjustment
- Centre Cross overlay per window with individual enable
- Audio ID overlay
- Tallies can be applied to either Tally Boxes (Default), Outside Safe Action Area 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 and Multi-Viewer mode
- Low latency buffering for each input allowing non-synchronous inputs
- Linked (3G/HD/SD)-SDI and HDMI outputs
- 16 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
- In Pass-Through mode the selected input is passed through to both the (3G/HD/SD)-SDI and HDMI outputs
- The DMON-16S is a truly portable converter, that incorporates our new easy to use LCD and button control system. This gives you easy access to most of the amazing features without using complicated LED/button control, dip switches or having to carry around a computer to change a simple setting.
- This unit also includes:
  - 32 GPI on 37-pin D-SUB for Tallies and Remote Switching
  - RS422/485 on 37-pin D-SUB for Dynamic UMD and Tallies using TSL protocol
  - USB port for control and firmware updates
  - Robust Aluminium box
  - Metal Thread Locking DC Power Socket
  - Power Supply, HDMI Cable and USB Cable

## SPECIFICATIONS

<b>SDI INPUT &amp; OUTPUT 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>LCD / BUTTON MENU OPTIONS</b>	• HDMI output type • Output Select • Multi-Viewer Output Format • Multi-Viewer Number of Windows • Multi-Viewer Layout • Multi-Viewer Audio Source • Multi-Viewer Reference • Full Screen is Scaled • Input Routing • GPI mode • Setup
<b>HDMI OUTPUT FORMATS</b>	• 1080p@60/59.94/50Hz • 1080i@60/59.94/50Hz • 1080p@30/29.97/25/24/23.98Hz • 720p@60/59.94/50/30/29.97/25 • 625i50 • 525i59.94	<b>INPUTS</b>	• 16 x (3G/HD/SD)-SDI • Input Equalization > 100M using Belden 1694A • USB for control and updates
<b>POWER</b>	• +5V to +32V DC • Positive Centre Pin	<b>OUTPUTS</b>	• HDMI Type A • 1 x SDI (3G/HD/SD)-SDI
<b>DIMENSIONS</b>	220mm x 103.7mm x 29.5mm (8.7" x 4.1" x 1.2")		

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# MD-LX

## (3G/HD/SD)-SDI / HDMI

### BI-DIRECTIONAL CONVERTER



## PRODUCT FEATURES

- Supports 3G level A and B on the input and output, allowing conversion between 3G level A and B
- Features the following modes:
  1. Auto Select (Active input to all outputs or if both inputs are active SDI to HDMI and HDMI to SDI)
  2. HDMI IN to SDI OUT and SDI IN to HDMI OUT
  3. SDI IN to HDMI and SDI OUT
  4. HDMI IN to HDMI and SDI OUT
- Low Power enabling operation from the USB
- USB provides for power, control and firmware upgrades
- This unit also includes a Power Supply and USB Cable

## SPECIFICATIONS

<b>SDI FORMATS</b>	3G-A or 3G-B: 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 (PAL) • 525i59.94 (NTSC)	<b>HDMI FORMTS</b>	• 1080p@60/59.94/50/30/29.97/25/24/23.98Hz • 1080i@60/59.94/50Hz • 720p@60/59.94/50/30/29.97/25 • 625i50 (PAL) • 525i59.94 (NTSC)
<b>INPUTS</b>	• 1 x HDMI Type A • 1 x (3G/HD/SD)-SDI • Micro USB for power, control and firmware updates	<b>OUTPUTS</b>	• 1 x HDMI Type A • 1 x (3G/HD/SD)-SDI
<b>POWER</b>	• USB Power +4.4V to +5.25V DC • Uses under 2.5 Watts	<b>DIMENSIONS</b>	60mm x 73.7mm x 23mm (2.4" x 2.9" x 0.9")

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# MD-HX

MINIATURE (3G/HD/SD)-SDI / HDMI CROSS CONVERTER  
with Scaling and Frame Rate Conversion

## PRODUCT FEATURES

- Robust Aluminium Case
- Features the following 14 modes:
  1. SDI IN to HDMI and SDI OUT
  2. SDI IN to SDI OUT and HDMI IN to HDMI OUT
  3. SDI IN to SDI OUT and Scaled SDI IN to HDMI OUT
  4. SDI IN to SDI OUT and Scaled HDMI IN to HDMI OUT
  5. HDMI IN to SDI OUT and SDI IN to HDMI OUT
  6. HDMI IN to HDMI and SDI OUT
  7. HDMI IN to SDI OUT and Scaled SDI IN to HDMI OUT
  8. HDMI IN to SDI OUT and Scaled HDMI IN to HDMI OUT
  9. Scaled SDI IN to SDI OUT and SDI IN to HDMI OUT
  10. Scaled SDI IN to SDI OUT and HDMI IN to HDMI OUT
  11. Scaled SDI IN to HDMI and SDI OUT
  12. Scaled HDMI IN to SDI OUT and SDI IN to HDMI OUT
  13. Scaled HDMI IN to SDI OUT and HDMI IN to HDMI OUT
  14. Scaled HDMI IN to HDMI and SDI OUT
- Includes the same Down Up Cross Converter from our multi-award winning MD-DUCC, allowing either the HDMI or SDI input to be scaled and/or frame rate converted to the required standard.
- Includes 4 x (3G/HD/SD)-SDI outputs, that allow it to be used as a 1 to 4 distribution amplifier. Output pair 1 can either be a copy of the SDI input (default) or the same as pair 2.
- The audio pairs in the SDI and HDMI outputs can be rearranged as required.



- The MD-HX is a truly portable converter, that incorporates our new easy to use LCD and button control system. This gives you easy access to all of the amazing features that have been unavailable without a computer until now. The days of having to play with annoying dip switches or having to carry around a computer to change a simple setting are gone.
- This unit also includes:
  - USB port for control and firmware updates
  - Metal Thread Locking DC Power Socket
  - Power Supply, HDMI Cable and USB Cable

## SPECIFICATIONS

<b>SDI 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>LCD / BUTTON MENU OPTIONS</b>	• SDI output source from HDMI IN, SDI IN, Scaler • SDI output 1 is loop • HDMI output type and source from HDMI IN, SDI IN, Scaler • Scaler source, reference, format and Aspect Controls • Audio pair routing for HDMI and SDI output • LCD backlight off time • Back to Status time
<b>INPUTS</b>	• 1 x HDMI input • 1 x (3G/HD/SD)-SDI input	<b>OUTPUTS</b>	• 1 x HDMI • 2 x (3G/HD/SD)-SDI Active Loop-through or addition outputs • 2 x (3G/HD/SD)-SDI outputs
<b>POWER</b>	• +5V to +32V DC • Positive Centre Pin	<b>DIMENSIONS</b>	79.5mm x 123mm x 29.5mm (3.1" x 4.8" x 1.2")

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