Your Vision
Our Mission

8K / 4K
Video Converter
Solutions



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YUAN
Visualize Intelligent Planet

2026
New
Release

Content

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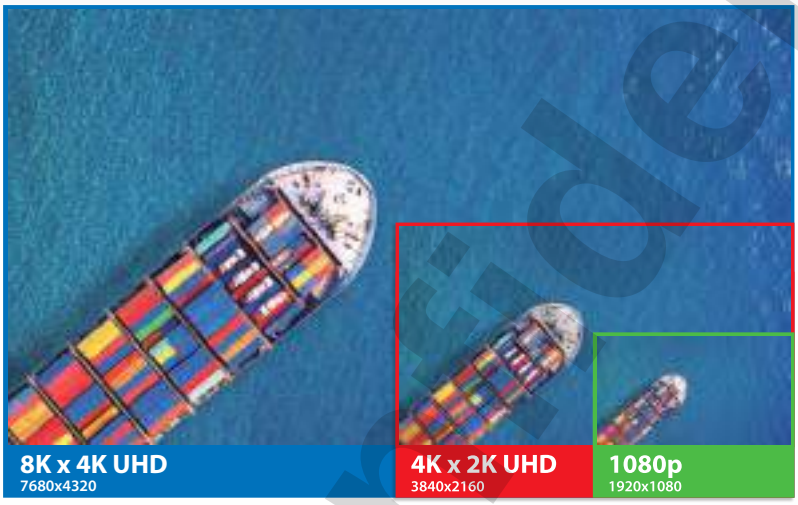


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Feature

8K/4K

We had design multiple 8K interface supported video converter box, including DP1.4a, HDMI2.1 and Quad-Link 12G-SDI; 8K can transmit 4 times pixels than 4K, it's especially designed for various high-resolution requirements.



8K ULTRA HD

Scaling

SmartVDO Video Engine performs high quality and high precision video resolution up or down conversion, compatible with various CEA or VESA video formats.

Frame rate can also be converted upon your field requirement, and 60fps↔59.94fps conversion is as simple as simple click.

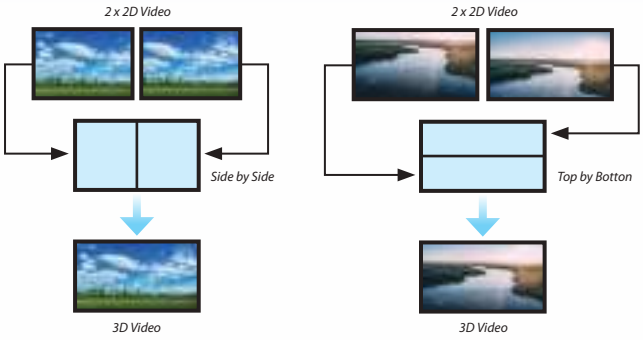


Scaling

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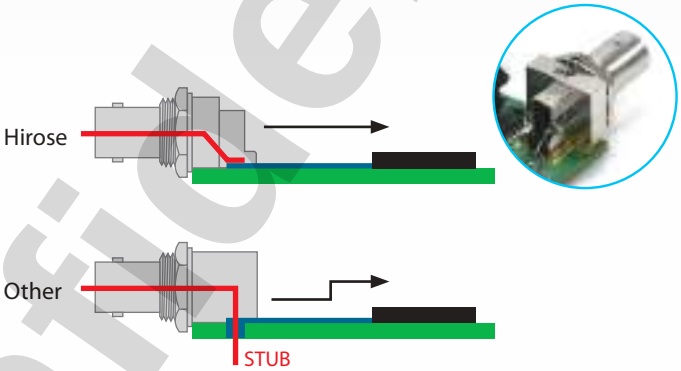
3D

3D video converter box can combine 2 match 2D video into a 3D video, 3D converter devices can provice Side by side, Top and Bottom modes.



12G-SDI

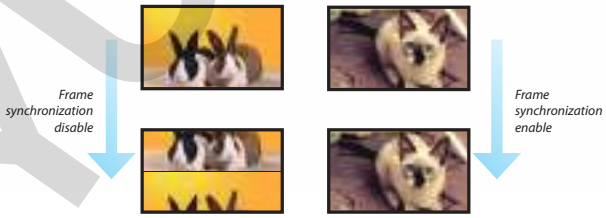
We had choose the famous Hirose connectors for our 12G-SDI converter box, it provides the best anti-noise quality and provides up to 100 meters of 12G-SDI signal transfer distance.



Frame Synchronization

Frame synchronization is specially designed to synchronize across multiple display devices. SmartVDO supports following frame synchronization type:

- Genlock: Synchronize with Sync generator's reference signal and output the same resolution and framerate.
- Framelock: Synchronize with Sync generator's reference signal and output the same framerate.



Processing Amplifier

(Proc Amp)

Processing amplifier provides user to change video setting (Brightness, Contrast, Hue and Saturation) by OSD or PC host in real time.

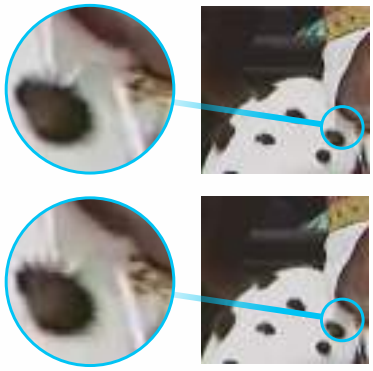


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Feature

Interlacer & De-Intelacer

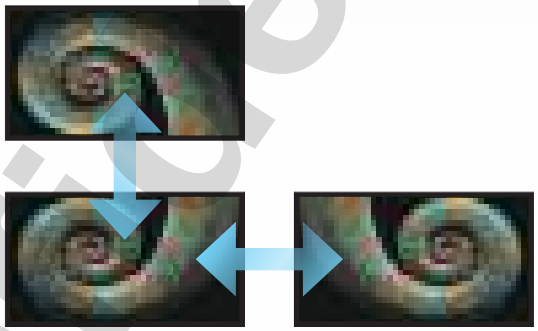
SmartVDO Video Engine's built in high quality de-interlacer for display legacy video sources on modern signage display systems, or for latest encode systems. Interlacer is also incoporated for consumer or computer generated video sources to be fed into traditional workflows.



Mirror

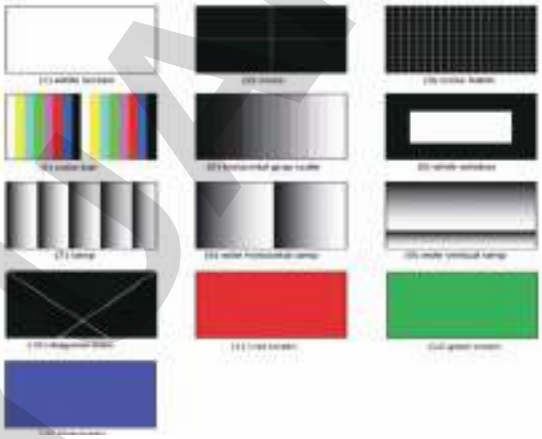
Image vertical and horizontal rotation by SmartVDO Video Engine is ideal for signage display field deployment.

Mirror function is suitable for mirroring selfie video/photos and transfer instantly.



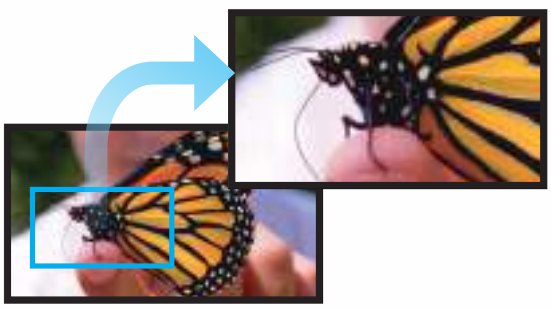
Test Pattern

SmartVDO Video Engine provides various test patterns, which helps engineers to check if any signal loss from video sources, or wrongly deployed equipments or cabling at field.



Region of Interest (ROI)

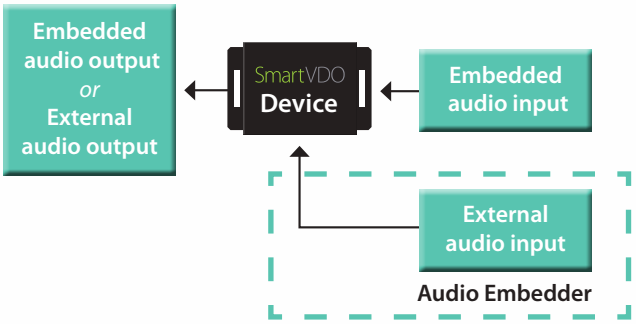
With high quality SmartVDO Video Engine and ease-of-use BOX Center software, simply specify the portion of incoming video, SmartVDO devices directly transform that area of image to SDI or HDMI interfaces, with your specified resolution and frame rate.



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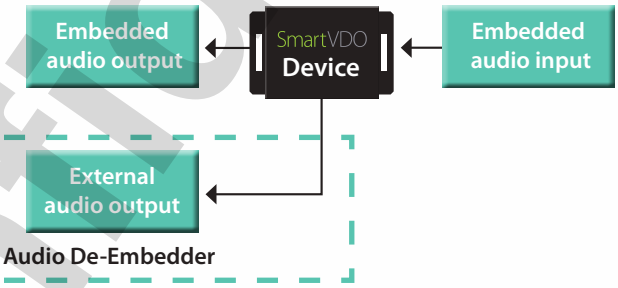
Audio Embedder

Embed sub audio channels with dubbing or music with live camera input. SmartVDO devices works with various analog balanced or unbalanced audio, or digital audio sources. Embedded Audio processing is also supported.



Audio De-Embedder

Extract specified audio channels from video sources with audio embedded. SmartVDO devices works with various analog balanced or unbalanced audio, or digital audio devices.



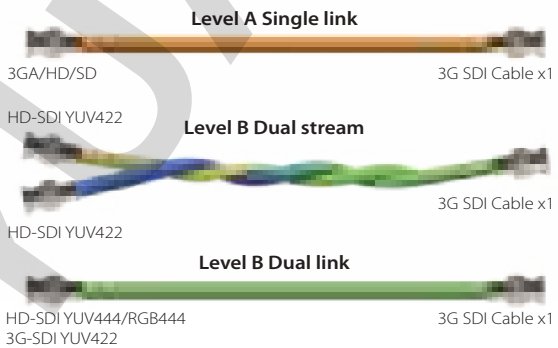
3G SDI (Level A / Level B)

SmartVDO devices support both of Level A or Level B.

In 3G SDI specification ,Level A single link and Level B are including 4 kinds of signal formats in common usage.

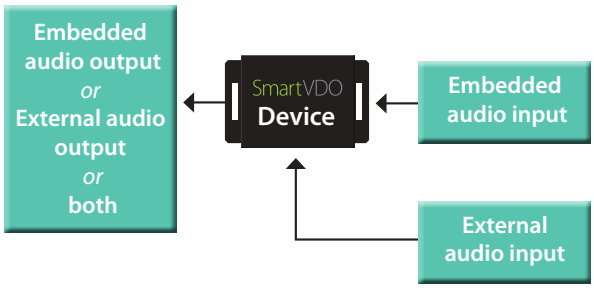
For 3G SDI Level A, 3G-SDI cable supports 3G YUV422 single link.

For 3G SDI Level B, 3G-SDI cable supports 3G YUV422 dual link, 2 HD YUV422 dual stream or HD YUV444 dual link signals.



Audio Mixer

Mix sub audio channels with dubbing or music with live camera input. SmartVDO devices works with various analog balanced or unbalanced audio, or digital audio sources. Embedded Audio processing is also supported.



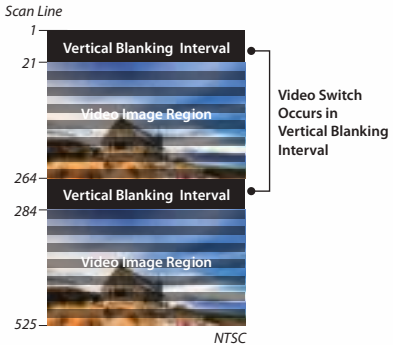
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Feature

Seamless Switcher

Seamless Switching supports switching display source from A to B without break and glitch, but also scaling output sources function.

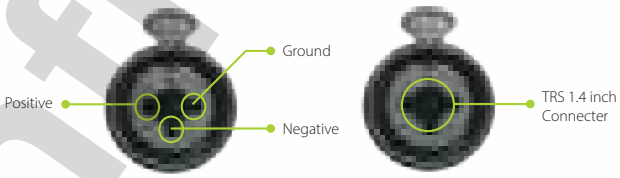
All the input/output sources are independent and also including automatic audio mute mode during switching display sources, which prevent audio clipping circumstance.
Seamless switching especially suitable for sport events or live TV broadcasting usage.



Balanced Audio

By interconnecting audio with balanced lines, balanced audio can provides a better noise resistance for audio.

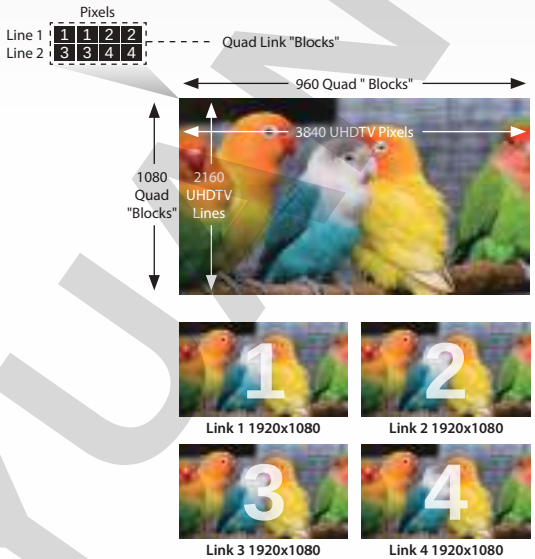
Here are 2 balanced audio standard supported on SmartVDO devices :
Analog : 2 XLR 3-Pin connectors provide analog stereo balanced audio
Digital : 1 XLR 3-Pin connector provide AES-3 digital stereo balanced audio



Quad-Link : 2SI

Quad-Link 2 Sample Interleave:

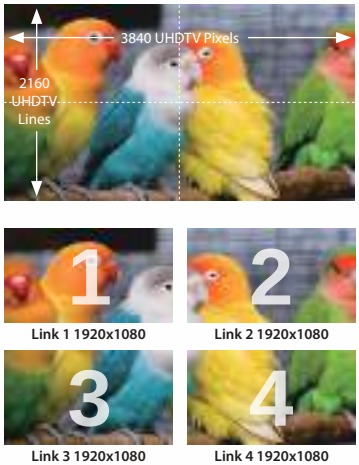
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Quad-Link : SQD

Quad-Link Square Division:

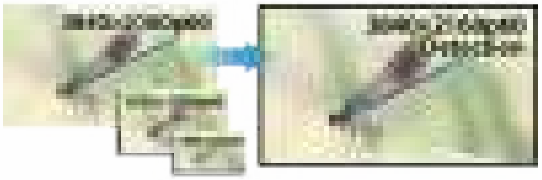
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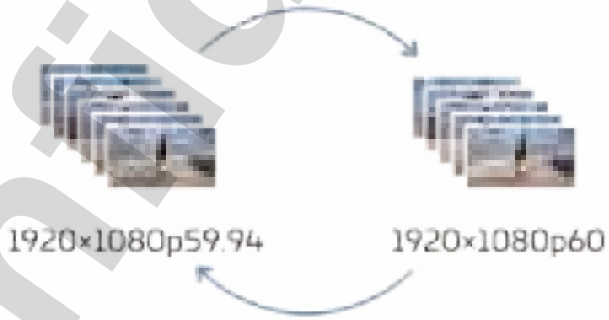
Auto Input Detection

Automatically detects incoming video formats, including various resolutions and frame rates such as 1920×1080p60 and 1280×720p50. No manual configuration is required, ensuring seamless input recognition and stable signal processing.



Auto FPS

Automatically converts the output frame rate to match system or display requirements. For example, a 1920×1080p60 input can be converted and output as 1280×720p50 while maintaining smooth and consistent video performance.



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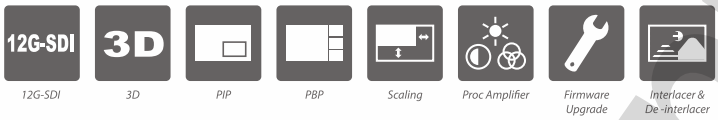
4K Converter

2×12G-SDI/HDMI2.0 to 12G-SDI/HDMI2.0

12G-SDI/HDMI2.0 3D Converter

- Side by Side, Top and Bottom, Line by Line 3D Mode and Frame Sequential Support
- Two 2D Video Convert to One 3D Video Support
- One 3D Video Convert to Two 2D Video Support
- I↔P Conversion (Built-In Interlacer and DeInterlacer.)
- 60fps↔59.94fps Conversion
- Frame Rate and Format Up / Down Conversion



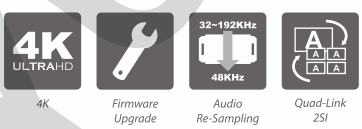


Multi Converter 4K

HDMI 2.0, DisplayPort 1.2, DVI-DL, and 12G-SDI to 12G-SDI, HDMI 2.0 Converter

- DisplayPort Multi-Stream Transport (MST) Support
- DVI Dual Link (DVI-DL) Support
- Multi-Standard Support (12G / 6G / 3G / HD-SDI)
- Quad-Link 2 Sample Interleave (2SI) Output Supported
- Auto Source Format Detection





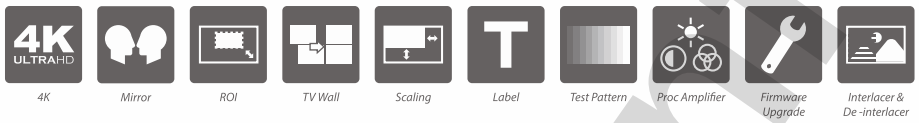
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HDMI to HDMI2.0 4K

HDMI to HDMI 2.0 Up/Down Converter

- Real HDMI 2.0 Output with
  RGB444 / YUV444 / YUV422 / YUV420 Processing
- Built-in 4K Super Resolution Engine
- I↔P Conversion
  (Built-In Interlacer and DeInterlacer.)
- 60fps↔59.94fps Conversion
- Frame Rate and Format Up / Down Conversion





12G-SDI/HDMI2.0 to QSDI-S

12G-SDI/HDMI2.0 to 4×SDI Up/Down Converter

- Quad-Link 2 Sample Interleave (2SI) Supported
- Square Division Quad Supported
- Quad-Link 3G-SDI Supported
- 60fps↔59.94fps Conversion
- Multi-Standard Support (12G / 6G / 3G / HD-SDI)
- Auto Source Format Detection





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4K Converter

QSDI to 12G-SDI/HDMI2.0-S

4×SDI to 12G-SDI/HDMI2.0 Up/Down Converter

- Quad-Link 2 Sample Interleave (2SI) Supported
- Square Division Quad Supported
- Quad-Link 3G-SDI Supported
- 60fps↔59.94fps Conversion
- Multi-Standard Support (12G / 6G / 3G / HD-SDI)
- Auto Source Format Detection





12G-SDI | Scaling | Proc Amplifier | Firmware Upgrade | Audio De-Embedder | 3G-SDI Level A/B | Interlacer & De -interlacer | Quad-Link 2SI | Quad-Link SD

12G-QSDI to HDMI2.0-S

1×12G / 2×6G / 4×SDI to HDMI2.0 Up / Down Converter

- Quad-Link 2 Sample Interleave (2SI) Supported
- Square Division Quad Supported
- Quad-Link/Dual-Link/Single Link Supported
- 60fps↔59.94fps Conversion
- Multi-Standard Support (12G / 6G / 3G / HD-SDI)
- Auto Source Format Detection





12G-SDI | 8K | 4K | Firmware Upgrade | Audio Re-Sampling | Audio Embedder | Audio Mixer

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HDMI2.0 to 12G-QSDI-S

HDMI2.0 to 1×12G / 2×6G / 4×SDI Up / Down Converter

- Quad-Link 2 Sample Interleave (2SI) Supported
- Square Division Quad Supported
- Quad-Link 3G-SDI Supported
- 60fps↔59.94fps Conversion
- Multi-Standard Support (12G / 6G / 3G / HD-SDI)
- Auto Source Format Detection





12G-SDI *8K* *4K* *Firmware Upgrade* *Audio Re-Sampling* *Audio Embedder* *Audio Mixer*

12G-QSDI to HDMI2.0

1×12G / 2×6G / 4×SDI to HDM2.0 | RGB / YUV Converter

- SDI Transfer Up to 100 Meter
- Quad-Link 2 Sample Interleave (2SI) Supported
- Quad-Link 12G-SDI Input Supported
- Multi-Standard Support (12G / 6G / 3G / HD-SDI)
- SDI to HDMI Conversion Require 422 10Bit Color Format





12G-SDI *4K* *Firmware Upgrade*

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4K Converter

HDMI2.0 to 12G-QSDI

HDM2.0 to 1×12G / 2×6G / 4×SDI | RGB / YUV Converter

- SDI Transfer Up to 100 Meter
- Quad-Link 2 Sample Interleave (2SI) Supported
- Quad-Link 12G-SDI output
- Multi-Standard Support (12G / 6G / 3G / HD / SD-SDI)



12G-SDI 4K ULTRAHD

12G-SDI *4K* *Firmware Upgrade*

12G-SDI to HDMI2.0

12G-SDI to HDMI2.0/12G-SDI | RGB / YUV Converter

- Multi-Standard Support (12G / 6G / 3G / HD / SD-SDI)
- Auto Source Format Detection
- Power Amplified SDI Loop Out



12G-SDI 4K ULTRAHD 3G-SDI LEVEL A/B

12G-SDI *4K* *Firmware Upgrade* *Audio De-Embedder* *3G-SDI Level A/B*

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HDMI2.0 to 12G-SDI

HDMI2.0 to 12G-SDI/HDMI | RGB / YUV Converter

- Multi-Standard Support (12G / 6G / 3G / HD-SDI)
- Auto Source Format Detection
- Power Amplified SDI Loop Out
- SDI to HDMI Conversion Require 422 10Bit Color Format





12G-SDI *4K* *Firmware Upgrade* *Audio Re-Sampling* *Audio Embedder* *Audio Mixer*

12G-SDI to QSDI

12G-SDI to 2×6G / 4×SDI Converter

- Quad-Link 2 Sample Interleave (2SI) Output Supported
- Quad-Link 3G-SDI Output Supported
- Dual-Link 6G-SDI Output Supported
- Multi-Standard Support (12G / 6G / 3G / HD / SD-SDI)
- 3G-SDI Level A/B-Dual Link/B-Dual Stream Support





12G-SDI *4K* *Firmware Upgrade* *3G-SDI Level A/B* *Quad-Link 2SI*

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4K Converter

QSDI to 12G-SDI

2×6G / 4×SDI to 12G-SDI Converter

- Quad-Link 2 Sample Interleave (2SI) Input Supported
- Quad-Link 3G-SDI Input Supported
- Dual-Link 6G-SDI Input Supported
- Multi-Standard Support (12G / 6G / 3G / HD / SD-SDI)
- 3G-SDI Level A/B-Dual Link / B-Dual Stream Support



12G-SDI 4K Firmware Upgrade 3G-SDI Level A/B Quad-Link 2SI

DVI-DL to HDMI2.0

DVI-DL to HDMI2.0 Converter

- DVI Dual Link (DVI-DL) Support
- Auto Source Format Detection
- Supported Audio Input Interface : 3.5mm Audio Jack
- Plug and Play
- Auto Source Format Detection



Firmware Upgrade

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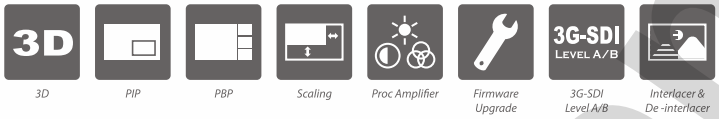
HD Converter

2×SDI/HDMI to SDI/HDMI

SDI/HDMI 3D Converter

- Side by Side, Top and Bottom, Line by Line, Simultaneous and Field Sequential 3D Mode Support
- Two 2D Video Convert to One 3D Video Support
- One 3D Video Convert to Two 2D Video Support
- HDMI Output Support RGB444, YUV444 and YUV422 Color Format
- 3G-SDI Output Support Level B
- 3D L/R Depth Adjustment and L/R Swap Support
- I↔P Conversion (Built-In Interlacer and DeInterlacer)
- 60fps↔59.94fps Conversion
- Frame Rate and Format Up/Down Conversion





3D PIP PBP Scaling Proc Amplifier Firmware Upgrade 3G-SDI Level A/B Interlacer & De -interlacer

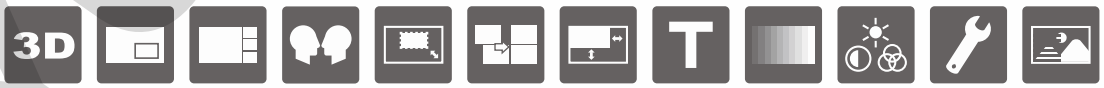
2×SDI to SDI/HDMI

3G-SDI to SDI/HDMI Up/Down Converter with 3D Support

- Side by Side, Top and Bottom 3D Mode Support
- PIP/PBP Feature for SDI/HDMI Outputs
- I↔P Conversion (Built-in Interlacer and Deinterlacer)
- 60fps↔59.94fps Conversion
- Frame Rate and Format Up/Down Conversion







3D PIP PBP Mirror ROI TV Wall Scaling Label Test Pattern Proc Amplifier Firmware Upgrade Interlacer & De -interlacer

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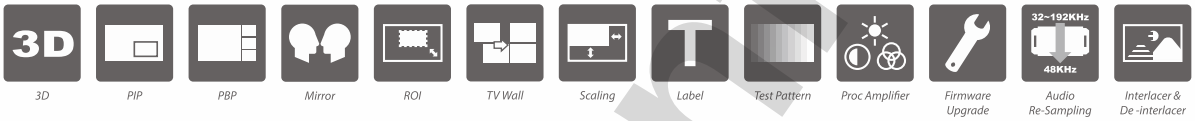
HD Converter

2×HDMI to SDI/HDMI

HDMI to 3G-SDI Up/Down Converter with 3D Support

- Side by Side, Top and Bottom 3D Mode Support
- PIP / PBP Feature for SDI/HDMI Outputs
- I↔P Conversion (Built-in Interlacer and Deinterlacer.)
- 60fps↔59.94fps Conversion
- Frame Rate and Format Up/Down Conversion





3D PIP PBP Mirror ROI TV Wall Scaling Label Test Pattern Proc Amplifier Firmware Upgrade Audio Re-Sampling Interlacer & De -interlacer

Multi Converter

SDI/HDMI/DVI/VGA/AVS to SDI/HDMI/DVI/VGA/AVS

- Flexible Input and Output Connections
- Universal Up/Down/Cross Converter
- Easy Configuration with Button and OSD Menu
- 4 : 3 /16 : 9 Aspect Ratio Conversion
- Region of Interest (ROI)
- Cross-Conversion with Simultaneous Output
- Dual Converted SDI Output





Mirror ROI Scaling Test Pattern Proc Amplifier Firmware Upgrade Audio Re-Sampling Audio Embedder Audio De-Embedder Interlacer & De -interlacer

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Multi to SDI/HDMI

DVI-I, CVBS, S-video, YPbPr to 3G-SDI and HDMI Up/Down/Cross Converter

- Flexible Input Connections
- Universal Up/Down/Cross Converter
- 4 : 3 / 16 : 9 Aspect Ratio Conversion
- Region of Interest (ROI)
- Converts Analog / DVI video to SDI/HDMI
- Converted SDI and HDMI Outputs
- Dual Converted SDI Output



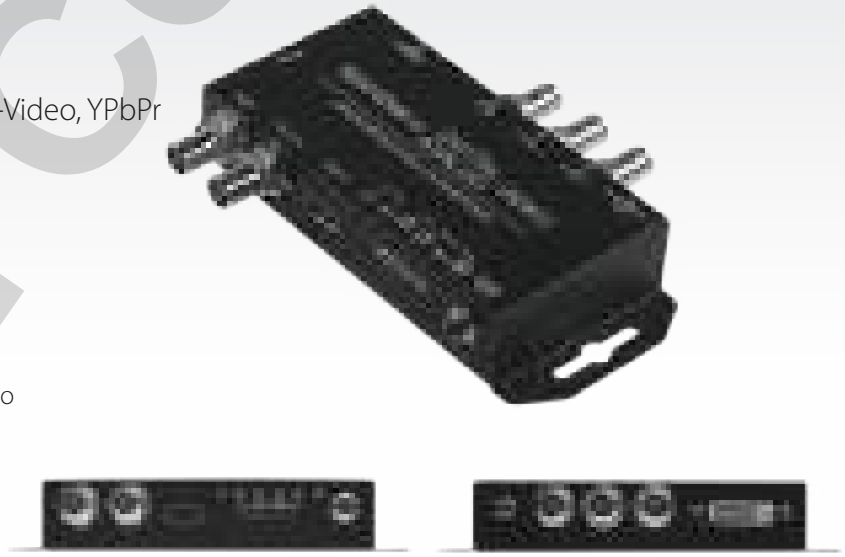


Mirror | ROI | TV Wall | Scaling | Label | Test Pattern | Proc Amplifier | Firmware Upgrade | Audio Re-Sampling | Audio Embedder | Interlacer & De -interlacer

SDI/HDMI to Multi

3G-SDI and HDMI to DVI-I, CVBS, S-Video, YPbPr Up/Down/Cross Converter

- Flexible Output Connections
- Universal Up/Down/Cross Converter
- 4 : 3 / 16 : 9 Aspect Ratio Conversion
- Region of Interest (ROI)
- Converts SDI/HDMI to Analog/DVI Video
- Power Amplified SDI Loop Out





Mirror | ROI | TV Wall | Scaling | Label | Test Pattern | Proc Amplifier | Firmware Upgrade | Audio De-Embedder | Interlacer & De -interlacer

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HD Converter

SDI to HDMI

3G-SDI to HDMI Converter

- Multi-Standard Support (3G / HD / SD-SDI)
- High Quality Digital Direct Conversion
- Auto Source Format Detection
- Dual Power Amplified SDI Loop Out





Firmware Upgrade

HDMI to SDI

HDMI to 3G-SDI Converter

- Multi-Standard Support (3G / HD / SD-SDI)
- High Quality Digital Direct Conversion
- Auto Source Format Detection
- Dual Converted SDI Output
- HDMI EDID Learning





Firmware Upgrade



Audio Re-Sampling

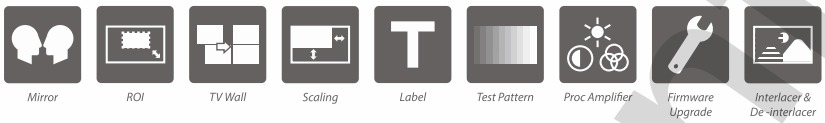
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SDI to HDMI-S

3G-SDI to HDMI Up/Down Converter

- I↔P Conversion (Built-in Interlacer and Deinterlacer)
- 60fps↔59.94fps Conversion
- Frame Rate and Format Up/Down Conversion
- Power Amplified SDI Loop Out
- Easy Configuration with Button and OSD



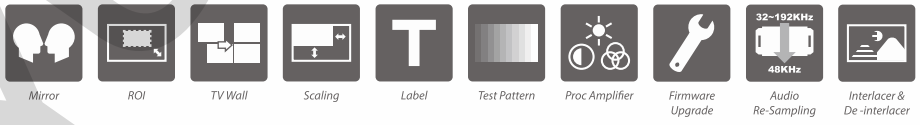


HDMI to SDI-S

HDMI to 3G-SDI Up/Down Converter

- I↔P Conversion (Built-in Interlacer and Deinterlacer)
- 60fps↔59.94fps Conversion
- Frame Rate and Format Up/Down Conversion
- Dual Converted SDI Output
- Easy Configuration with Button and OSD





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HD Converter

HDMI to HDMI-S

HDMI to HDMI Up/Down Converter

- I↔P Conversion (Built-in Interlacer and Deinterlacer)
- 60fps↔59.94fps Conversion
- Frame Rate and Format Up/Down Conversion
- Configurable VESA Format Output From 640×480 to 1920×1080
- Region of Interest (ROI)
- Suitable for Mirroring Selfie Video / Photos



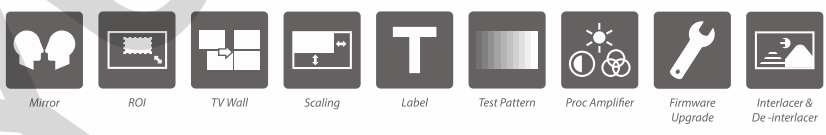


SDI to VGA-S

3G-SDI to VGA Up/Down Converter

- Multi-Standard Support (3G / HD/ SD-SDI)
- Configurable VESA Format Output From 640×480 to 1920×1080
- Independent Input & Output Video Format
- Easy Configuration with Button and OSD
- Dual Power Amplified SDI Loop Out





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SDI to SDI Genlock

3G-SDI to 3G-SDI Up/Down Converter with Frame Synchronizer

- I↔P conversion (Built-in Interlacer and Deinterlacer)
- 60fps↔59.94fps Conversion
- Frame Rate and Format Up/Down Conversion
- Reference Input (Black Burst and Tri-Level Sync.)
- Dual Converted SDI Output





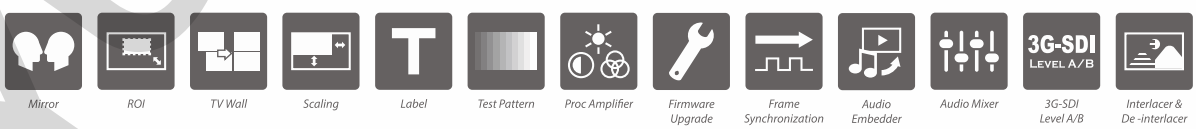
Mirror *ROI* *TV Wall* *Scaling* *Label* *Test Pattern* *Proc Amplifier* *Firmware Upgrade* *Frame Synchronization* *Interlacer & De -interlacer*

SDI to SDI/HDMI Genlock

SDI to SDI/HDMI with Frame Synchronizer

- 3G-SDI Level A/B Support
  Input : Level B Dual Link / Dual Stream
  Output : Level B Dual Link
- Reference Input (Black Burst and Tri-Level Sync)
- 2×RCA in Connector for Analog Stereo Audio Embedder Into SDI/HDMI Output
- Power amplified SDI loop out
- Converted SDI and HDMI outputs





Mirror *ROI* *TV Wall* *Scaling* *Label* *Test Pattern* *Proc Amplifier* *Firmware Upgrade* *Frame Synchronization* *Audio Embedder* *Audio Mixer* *3G-SDI Level A/B* *Interlacer & De -interlacer*

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HD Converter

HDMI to SDI Genlock

HDMI to 3G-SDI Up/Down Converter
with Frame Synchronizer

- I↔P Conversion (Built-in Interlacer and Deinterlacer)
- 60fps↔59.94fps Conversion
- Frame Rate and Format Up/Down Conversion
- Reference Input (Black Burst and Tri-Level Sync.)
- Dual Converted SDI Output





Mirror *ROI* *TV Wall* *Scaling* *Label* *Test Pattern* *Proc Amplifier* *Firmware Upgrade* *Audio Re-Sampling* *Frame Synchronization* *Interlacer & De -interlacer*

HDMI to SDI Audio Embedder

HDMI to 3G-SDI Converter with Audio Embedder

- Multi-Standard Support (3G / HD / SD-SDI)
- Supported Audio Input Interface : L/R Audio, AES-3, and S/PDIF
- High Quality Digital Direct Conversion
- Dual Converted SDI Output
- HDMI EDID Earning





Firmware Upgrade *Audio Re-Sampling* *Audio Embedder* *Audio Mixer*

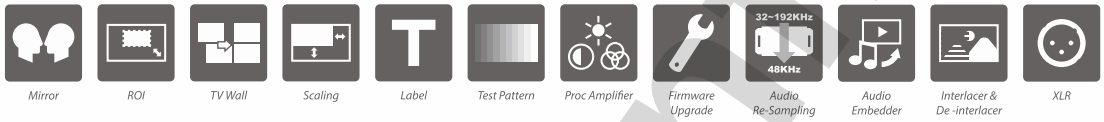
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HDMI to SDI-S Audio Embedder

HDMI to 3G-SDI Up/Down Converter with Balanced Audio in

- I↔P Conversion (Built-in Interlacer and Deinterlacer)
- 60fps↔59.94fps Conversion
- Frame Rate and Format Up/Down Conversion
- Support Audio Interface : XLR, L/R audio, AES-3 and S/PDIF
- Region of Interest (ROI)





Mirror *ROI* *TV Wall* *Scaling* *Label* *Test Pattern* *Proc Amplifier* *Firmware Upgrade* *Audio Re-Sampling* *Audio Embedder* *Interlacer & De -interlacer* *XLR*

SDI to HDMI Audio De-Embedder

3G-SDI to HDMI Converter with Audio De-embedder

- Multi-Standard Support (3G / HD / SD-SDI)
- Supported Audio Output Interface : L/R audio, AES-3, and S/PDIF
- High Quality Digital Direct Conversion
- Auto Source Format Detection
- Dual Power Amplified SDI Loop Out





Firmware Upgrade *Audio De-Embedder*

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HD Converter / Cross

SDI to HDMI Audio De-Embedder XLR

3G-SDI to HDMI Converter
with Balanced Audio De-embedder

- Multi-Standard Support (3G / HD / SD-SDI)
- Support Audio Interface : XLR
- High Quality Digital Direct Conversion
- Auto Source Format Detection
- Power Amplified SDI Loop Out





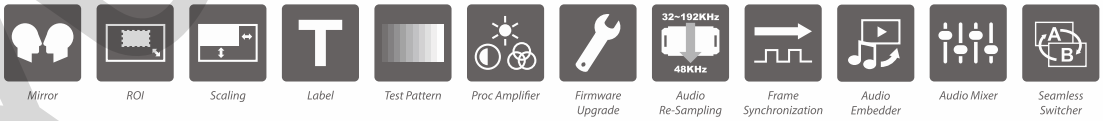
Firmware Upgrade *Audio De-Embedder* *XLR*

SDI ⇆ HDMI Cross

SDI or HDMI to HDMI and SDI Video Converter

- Multi-Standard Support (3G / HD / SD-SDI)
- High Quality Digital Direct Conversion
- Auto Source Format Detection
- Power Amplified SDI Loop Out
- 3G-SDI Level A/B Support
- Input : Level B Dual Link / Dual stream





Mirror *ROI* *Scaling* *Label* *Test Pattern* *Proc Amplifier* *Firmware Upgrade* *Audio Re-Sampling* *Frame Synchronization* *Audio Embedder* *Audio Mixer* *Seamless Switcher*

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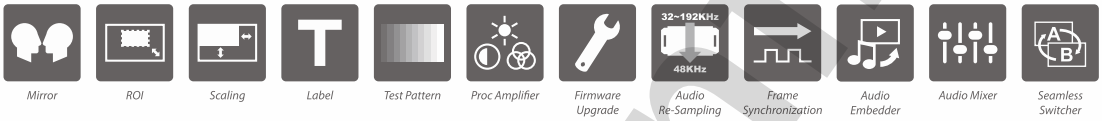
Cross / Matrix

SDI ⇆ HDMI Genlock Cross



3G-SDI, HDMI to 3G-SDI, HDMI Up/Down/Cross Converter

- Universal Up/Down/Cross Converter
- I↔P Conversion (Built-in Interlacer and Deinterlacer)
- 60fps↔59.94fps Conversion
- Reference Input (Black Burst and Tri-Level Sync.)



Mirror *ROI* *Scaling* *Label* *Test Pattern* *Proc Amplifier* *Firmware Upgrade* *Audio Re-Sampling* *Frame Synchronization* *Audio Embedder* *Audio Mixer* *Seamless Switcher*

HDMI2.0 4×4 Matrix



4×4 HDMI2.0 Matrix Switch

- 4K60P@YUV/RGB, 4:4:4 / 4:2:2 / 4:2:0, 12/10/8 Bit, Input / Output
- 4 HDMI Inputs to Any of 4 Outputs
- Audio Embedded and De-Embedded Supported
- Independent Input Video Format
- Flexible Control with USB / Button / RS232 / Ethernet



4K *Firmware Upgrade* *Audio Embedder* *Audio De-Embedder*

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Switch / Multiviewer

SDI 4×1 SWITCHER

4×1 3G-SDI to 3G-SDI Seamless Switcher with Frame Synchronizer

- Seamless Switching Between 4 SDI Inputs
- Multi-Standard support (3G / HD / SD-SDI)
- Independent Input & Output Video Format
- Audio Mute During Channel Switching
- Reference Input (Black Burst and Tri-Level Sync.)
- Flexible Control with DIP Switch / USB / Button / RS485



Mirror · ROI · TV Wall · Scaling · Label · Test Pattern · Proc Amplifier · Firmware Upgrade · Frame Synchronization · Interlacer & De -interlacer · Seamless Switcher

Multiviewer QUAD SDI

4×3G-SDI to HDMI 2.0 Multiviewer

- Real HDMI 2.0 Output with RGB444 / YUV444 / YUV422 / YUV420 Processing
- Built-in 4K Super Resolution Engine
- Flexible Video Modes : Quadview / Switching Mode
- Independent Input & Output Video Format
- Easy Control with Panel Buttons and OSD
- Input Support 3G / HD / SD-SDI Standard
- Quad-Link 2 Sample Interleave (2SI) Supported
- Square Division Quad Supported



4K · Scaling · Label · Proc Amplifier · Firmware Upgrade · Interlacer & De -interlacer · Quad-Link 2SI · Quad-Link SD

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Multiviewer / Splitter

Multiviewer QUAD HDMI

4× HDMI to HDMI 2.0 Multiviewer

- Real HDMI 2.0 Output with RGB444 / YUV444 / YUV422 / YUV420 Processing
- Built-in 4K Super Resolution Engine
- Flexible Video Modes : Quadview / Switching Mode
- Independent Input & Output Video Format
- Easy Control with Panel Buttons and OSD



4K | Scaling | Label | Proc Amplifier | Firmware Upgrade | Interlacer & De -interlacer

12G-SDI Splitter

1×4 12G-SDI to 12G-SDI Reclocking Distribution Amplifier

- Auto Source Format Detection
- High Quality and Precision Signal Restore
- Reclocked & Amplified SDI Output
- Compact Size
- Plug and Play
- 3G-SDI Level A/B-Dual Link / B-Dual Stream Support



12G-SDI | 4K | Firmware Upgrade | 3G-SDI Level A/B

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Splitter / Extender

HDMI2.0 Splitter

1×4 HDMI2.0 to HDMI2.0 Reclocking Distribution Amplifier

- Support CSC Color Space Conversion Matrix and 420 / 422 / 444 Conversion (1:1 / 1:2 / 2:1)
- Support 4:1 Down Scaling for 4K 2K Content to 1080P Display on Legacy Display
- Support HDMI2.0 and HDMI1.4 3D Format with Frame Packing / Top and Bottom / Side by Side Mode
- USB Control Application Available



12G-SDI 4K ULTRAHD

12G-SDI 4K Firmware Upgrade

SDI Splitter (1×4 3G)

1×4 3G-SDI to 3G-SDI
Reclocking Distribution Amplifier

- Auto source format detection
- High quality and precision signal restore
- Reclocked & Amplified SDI output
- Compact size
- Plug and play



3G-SDI LEVEL A/B

Firmware Upgrade 3G-SDI Level A/B

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Extender

HDMI2.0 to Copper

Transfer 4K Video Via Cat.6A Cable

- Compact Design
- LED Indicator Available
- Auto Source Format Detection
- POE Supported
- Low Latency



Firmware Upgrade

Copper to HDMI2.0

Transfer 4K Video Via Cat.6A Cable

- Compact Design
- LED Indicator Available
- Auto Source Format Detection
- POE Supported
- Low Latency



Firmware Upgrade

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Extender

12G-SDI Repeater

12G-SDI to 12G-SDI Reclocking Amplifier

- Auto source Format Detection
- High Quality and Precision Signal Restore
- Reclocked & Amplified SDI Output
- Compact Size
- Plug and Play
- 3G-SDI Level A/B-Dual Link / B-Dual Stream Support



12G-SDI 4K ULTRAHD Firmware Upgrade 3G-SDI LEVEL A/B

12G-SDI *4K* *Firmware Upgrade* *3G-SDI Level A/B*

SDI Repeater (1×1 3G)

3G-SDI to 3G-SDI Reclocking Amplifier

- Auto source Format Detection
- High Quality and Precision Signal Restore
- Reclocked & Amplified SDI Output
- Compact Size
- Plug and Play



3G-SDI LEVEL A/B

3G-SDI Level A/B

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SDI to Optical Fiber

3G-SDI to Optical Fiber Converter

- Multi-Standard Support (3G / HD / SD-SDI)
- Up to 10KM Transmission with Single Mode Optical Fiber
- Industrial Standard LC Type Connector
  (Output Wavelength : 1310 nm)
- SFP Port with MSA (Multi-Source Agreement) Compatible
- Highly Compatible with SDI-Fiber Equipments
- Interchangeable Modular Design for Longer Cable Reach
  or Different Connector Type





Firmware Upgrade *3G-SDI Level A/B*

Optical Fiber to SDI

Optical Fiber to 3G-SDI Converter

- Multi-Standard Support (3G / HD / SD-SDI)
- Up to 10KM Transmission with Single Mode Optical Fiber
- Industrial standard LC type connector
  (Input Wavelength : 1260 ~ 1620 nm)
- SFP Port with MSA (Multi-Source Agreement) Compatible
- Highly Compatible with SDI-Fiber Equipments
- Interchangeable Modular Design for Longer Cable Reach or
  Different Connector Type







Firmware Upgrade *3G-SDI Level A/B*

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Feature List

Feature \ Device	4K Converter									
	2×12G-SDI/ HDMI2.0 to 12G-SDI/HDMI2.0	Multi Converter 4K	HDMI to HDMI2.0 4K	12G-SDI/HDMI2.0 to QSDI-S	QSDI to 12G-SDI/ HDMI2.0-S	12G-QSDI to HDMI2.0-S	HDMI2.0 to 12G-QSDI-S	12G-QSDI to HDMI2.0	HDMI2.0 to 12G-QSDI	12G-SDI to HDMI2.0
12G-SDI	V			V	V	V	V	V	V	V
UHD 8K / 4K		V	V			V	V	V	V	V
3D	V									
PIP / PBP	V									
Mirror			V							
ROI			V							
TV Wall			V							
Scaling	V		V	V	V	V	V			
Label			V							
Test Pattern			V							
Proc Amp	V		V	V	V	V	V			
Firmware Upgrade	V	V	V	V	V	V	V	V	V	V
Audio Re-Sampling		V					V			
Frame Synchronization										
Audio Embedder							V			
Audio De-Embedder				V	V	V				V
Audio Mixer							V			
Level A/B				V	V	V				
Interlacer & De-Interlacer	V		V	V	V	V	V			V
Seamless Switcher										
Balanced Audio										
Quad-Link		V			V	V	V			

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HD Converter																
HDMI to SDI-S	SDI to HDMI-S	HDMI to SDI	SDI to HDMI	SDI/HDMI to Multi	Multi to SDI/HDMI	Multi Converter	2×HDMI to SDI/HDMI	2×SDI to SDI/HDMI	2×SDI/HDMI to SDI/HDMI	DVI-DL to HDMI2.0	QSDI to 12G-SDI	12G-SDI to QSDI	HDMI2.0 to 12G-SDI
											V	V	V
											V	V	V
							V	V	V				
							V	V	V				
V	V			V	V	V	V	V					
V	V			V	V	V	V	V					
V	V			V	V		V	V					
V	V			V	V	V	V	V	V				
V	V			V	V	V	V	V					
V	V			V	V	V	V	V					
V	V			V	V	V	V	V	V				
V	V	V	V	V	V	V	V	V	V	V	V	V	V
V		V			V	V	V						V
					V	V							V
						V							
													V
									V		V	V	
V				V	V	V	V	V	V				
											V	V	

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Feature List

Feature \ Device	HD Converter									Cros
	HDMI to HDMI-S	SDI to VGA-S	SDI to SDI Genlock	SDI to SDI/HDMI Genlock	HDMI to SDI Genlock	HDMI to SDI Audio Embedder	HDMI to SDI-S Audio Embedder	SDI to HDMI Audio De-Embedder	SDI to HDMI Audio De-Embedder XLR	SDI to HDMI Cross
12G-SDI										
UHD 8K / 4K										
3D										
PIP / PBP										
Mirror	V	V	V	V	V		V			V
ROI	V	V	V	V	V		V			V
TV Wall	V	V	V	V	V		V			
Scaling	V	V	V	V	V		V			V
Label	V	V	V	V	V		V			V
Test Pattern	V	V	V	V	V		V			V
Proc Amp	V	V	V	V	V		V			V
Firmware Upgrade	V	V	V	V	V	V	V	V	V	V
Audio Re-Sampling					V	V	V			V
Frame Synchronization			V	V	V					V
Audio Embedder				V		V	V			V
Audio De-Embedder								V	V	
Audio Mixer				V		V				V
Level A/B				V						
Interlacer & De-Interlacer	V	V	V	V	V		V			
Seamless Switcher										V
Balanced Audio							V		V	
Quad-Link										

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Extender						Splitter			Multiviewer		Switch	Matrix	ss
Optical Fiber to SDI	SDI to Optical Fiber	SDI Repeater	12G-SDI Repeater	Copper to HDMI2.0	HDMI2.0 to Copper	SDI Splitter	HDMI2.0 Splitter	12G-SDI Splitter	Multiviewer QUAD HDMI	Multiviewer QUAD SDI	SDI 4×1 Switch	HDMI2.0 4×4 Matrix	SDI to HDMI Cross Genlock
			V				V	V					
			V				V	V				V	
									V	V			
											V		V
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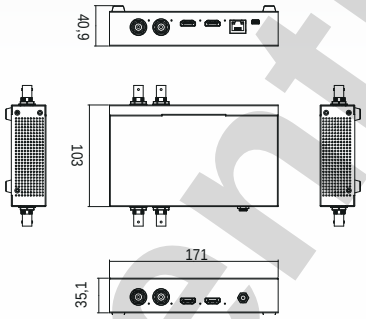
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Size & Connector

2×12G-SDI/HDMI2.0 to 12G-SDI/HDMI2.0

Rear
- 12G-SDI out 1
- 12G-SDI out 2
- HDMI2.0 out 1
- HDMI2.0 out 2
- PC-USB

Front
- Front
- 12G-SDI in 1
- 12G-SDI in 2
- HDMI2.0 in 1
- HDMI2.0 in 2
- DC jack

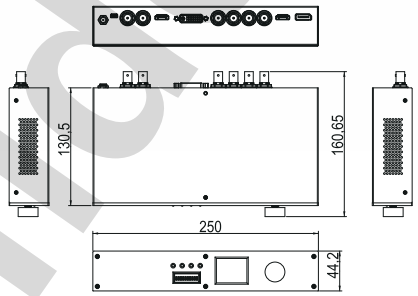


Multi Converter 4K

Rear
- DC jack
- Mini USB
- 12G-SDI out
- 12G-SDI out
- HDMI 2.0 out

- DVI-DL in
- 12G-SDI in
- 6G-SDI in
- 3G-SDI in
- 3G-SDI in
- HDMI 2.0 in
- DP-MST in

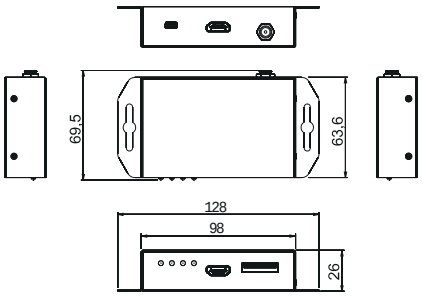
Front
- DP LED
- HDMI LED
- SDI LED
- DVI LED
- DIP-switch
- LCD Screen
- Control wheel



HDMI to HDMI 4K

Rear
- Mini USB Connector
- HDMI 2.0 out
- DC jack

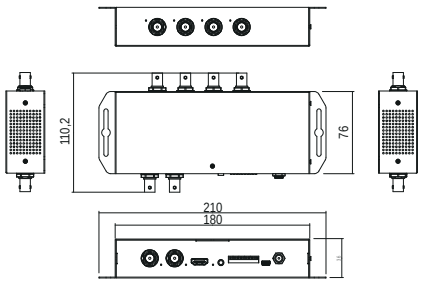
Front
- HDMI in
- DIP-switch



12G-SDI/HDMI2.0 to QSDI-S

Rear
- 3G SDI out 1
- 3G SDI out 2
- 3G SDI out 3
- 3G SDI out 4

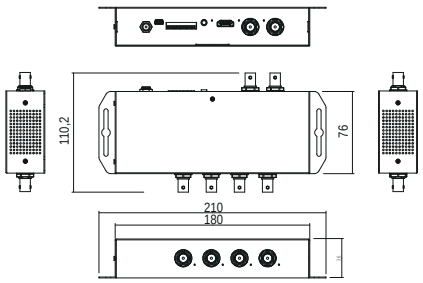
Front
- 12G-SDI in
- 12G-SDI loop
- HDMI2.0 in
- LINE in
- PC-USB
- DC jack



QSDI to 12G-SDI/HDMI2.0-S

Rear
- DC jack
- PC-USB
- LINE out
- HDMI2.0 out
- 12G-SDI out×2

Front
- Front
- 3G-SDI in 4
- 3G-SDI in 3
- 3G-SDI in 2
- 3G-SDI in 1



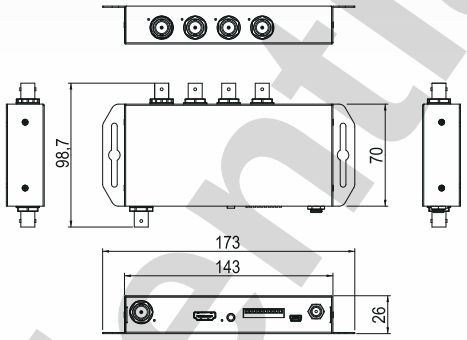
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unit: mm

12G-SDI/HDMI2.0 to QSDI-S

Rear
- 12G-SDI in
- 3G-SDI in
- 6G-SDI in
- 3G-SDI in
- REF in

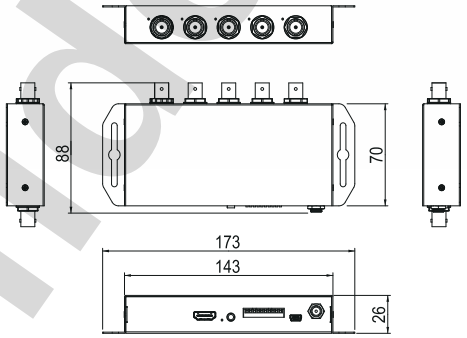
Front
- 12G-SDI out
- HDMI2.0 out
- 3.5mm audio out
- DIP-switch
- MinI USB connector
- DC jack



HDMI2.0 to 12G-QSDI-S

Rear
- 3G-SDI out
- 6G-SDI out
- 3G-SDI out
- 12G-SDI out
- 12G-SDI out

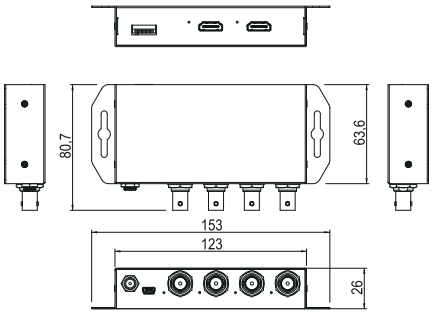
Front
- REF in
- HDMI2.0 in
- 3.5mm audio in
- DIP-switch
- MinI USB connector
- DC jack



12G-QSDI to HDMI2.0

Rear
- DIP-switch
- HDMI2.0 out
- HDMI2.0 out

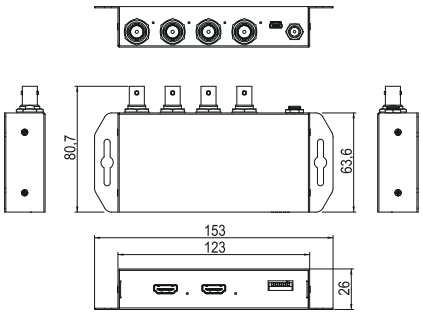
Front
- DC jack
- Mini USB connector
- 6G-SDI in
- 6G-SDI in
- 6G-SDI in
- 12G-SDI in



HDMI2.0 to 12G-QSDI

Rear
- 12G-SDI out
- 6G-SDI out
- 6G-SDI out
- 6G-SDI out
- Mini USB connector
- DC jack

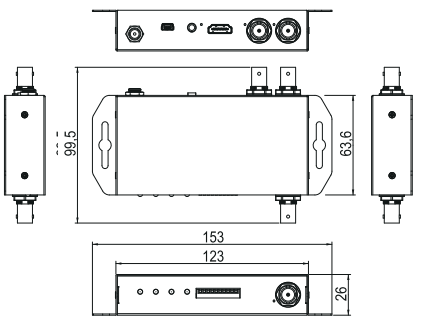
Front
- HDMI2.0 loop
- HDMI2.0 in
- DIP-switch



12G-SDI to HDMI2.0

Rear
- DC jack
- MinI USB connector
- 3.5mm audio out
- HDMI2.0 out
- 12G-SDI out
- 12G-SDI out

Front
- DIP-switch
- 12G-SDI in



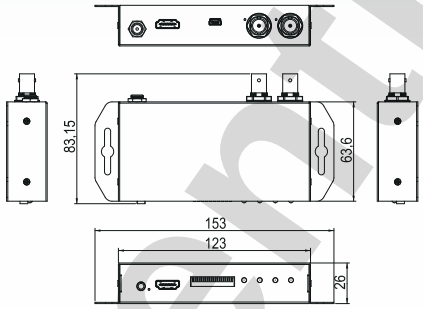
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Size & Connector

HDMI2.0 to 12G-SDI

Rear
- DC jack
- HDMI2.0 out
- MinI USB connector
- 12G-SDI out
- 12G-SDI out

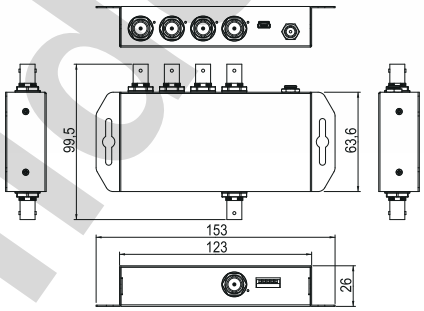
Front
- 3.5mm audio in
- HDMI2.0 in
- DIP-switch



12G-SDI to QSDI

Rear
- 3G-SDI in
- 6G-SDI in
- 3G-SDI in
- 12G-SDI in
- MinI USB connector
- DC jack

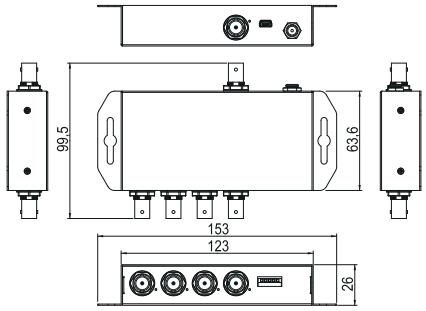
Front
- 12G-SDI out
- DIP-switch



QSDI to 12G-SDI

Rear
- 12G-SDI in
- MinI USB connector
- DC jack

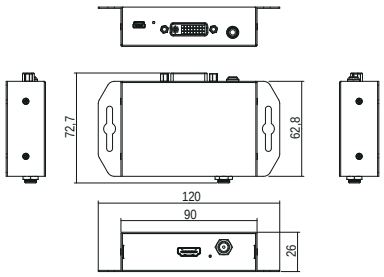
Front
- 3G-SDI out
- 6G-SDI out
- 3G-SDI out
- 12G-SDI out
- DIP-switch



DVI-DL to HDMI2.0

Rear
- DC jack
- HDMI2.0 out

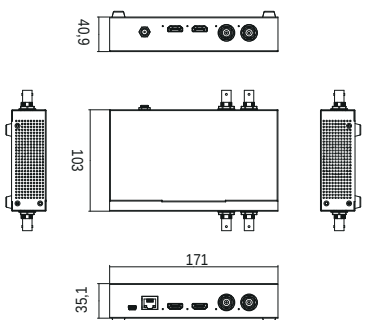
Front
- LINE in
- DVI-DL in



2×SDI/HDMI to SDI/HDMI

Rear
- SDI out 1
- SDI out 2
- HDMI out 1
- HDMI out 2
- ETHERNET
- PC-USB

Front
- SDI in 1
- SDI in 2
- HDMI in 1
- HDMI in 2
- DC jack



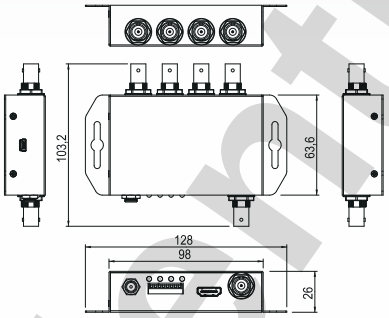
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unit: mm

2×SDI to SDI/HDMI

Rear
- SDI loop 2
- SDI in 2
- SDI loop 1
- SDI in 1

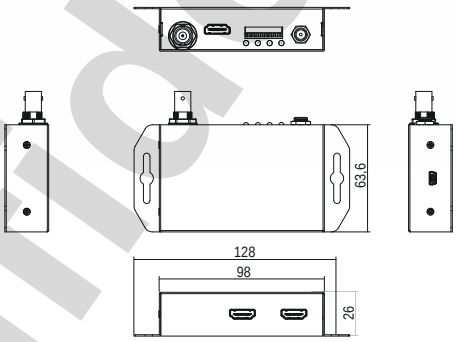
Front
- DC jack
- Top and bottom LED
- Side by side LED
- CH2 LED
- CH1 LED
- HDMI out
- SDI out



2×HDMI to SDI/HDMI

Rear
- HDMI in 2
- HDMI in 1

Front
- DC jack
- CH 1
- CH 2
- PIP
- PBP
- HDMI out
- SDI out

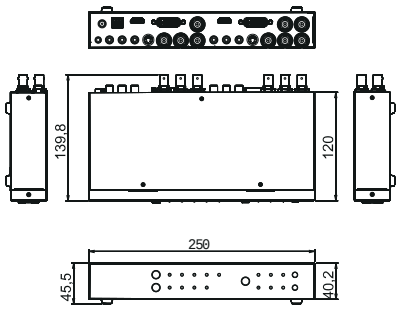


Multi Converter

Rear-Left
- 3.5MM audio in
- L/R audio RCA connector in
- COMPOSITE video in
- S-VIDEO in
- YPbPr VIDEO in
- L/R audio RCA connector out
- COMPOSITE video out
- S-VIDEO out
- YPbPr VIDEO out

Rear-Right
- DC jack
- USB TYPE-B connector
- HDMI in
- DVI in
- SDI in
- HDMI out
- DVI out
- SDI out 2
- SDI out 1

Front
- INPUT PORT button
- OUTPUT PORT button
- MENU/ENTER button
- FORMAT button
- AUDIO button

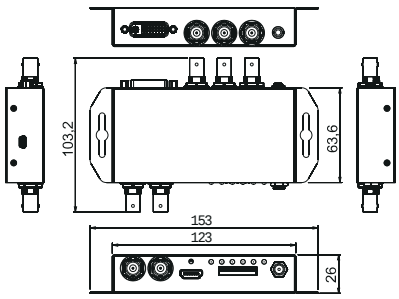


Multi to SDI/HDMI

Rear
- DVI/HDMI/VGA in
- PB/CVBS in
- Y/S VIDEO-Y in
- PR/S VIDEO-C in
- AUDIO EMBEDDED in

Left
- Mini USB connector

Front
- SDI out 1
- SDI out 2
- HDMI out
- DIP-switch
- DC jack

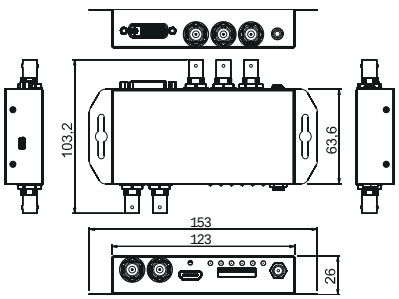


SDI/HDMI to Multi

Rear
- DVI/HDMI/VGA out
- PB/CVBS out
- Y/S VIDEO-Y out
- PR/S VIDEO-C out
- DE-EMBEDDED audio out

Left
- Mini USB connector

Front
- SDI in
- SDI loop
- HDMI in
- DIP-switch
- DC jack



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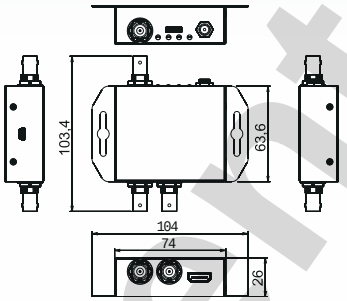
Size & Connector

SDI to HDMI

Rear
- SDI in
- DIP-switch
- DC jack

Left
- Mini USB connector

Front
- SDI loop 1
- SDI loop 2
- HDMI out

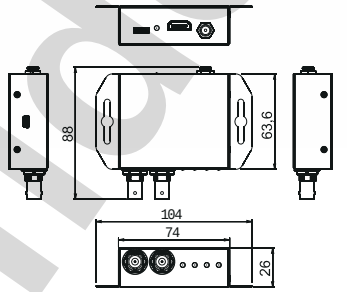


HDMI to SDI

Rear
- DIP-switch
- HDMI in
- DC jack

Left
- Mini USB connector

Front
- SDI out 1
- SDI out 2

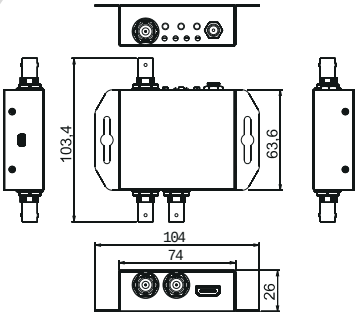


SDI to HDMI-S

Rear
- SDI in
- FRACTION button
- FRAME RATE button
- RESOLUTION button
- DC jack

Left
- Mini USB connector

Front
- SDI loop 1
- SDI loop 2
- HDMI out

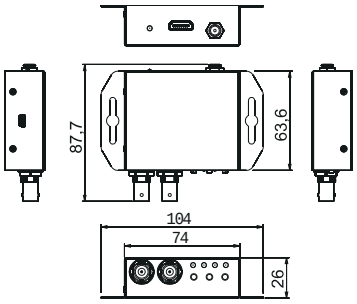


HDMI to SDI-S

Rear
- HDMI in
- DC jack

Left
- Mini USB connector

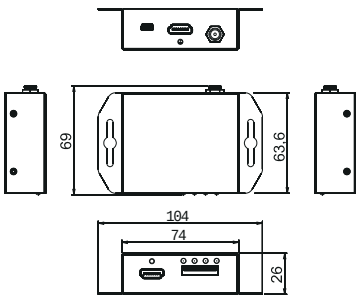
Front
- SDI out1
- SDI out2
- RESOLUTION button
- FRAME RATE button
- FRACTION button



HDMI to HDMI-S

Rear
- MinI USB connector
- HDMI in
- DC jack

Front
- HDMI out
- DIP-switch



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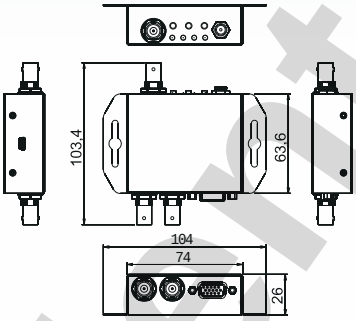
unit: mm

SDI to VGA-S

Rear
- SDI in
- ASPECT RATIO button
- OUTPUT FORMAT button X 2
- DC jack

Left
- Mini USB connector

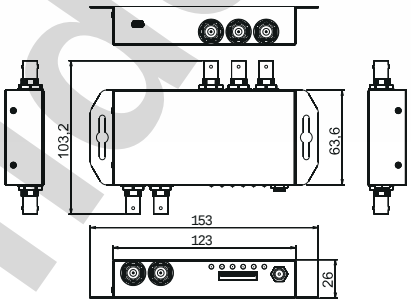
Front
- SDI loop 1
- SDI loop 2
- VGA out



SDI to SDI Genlock

Rear
- Mini USB connector
- REF in
- SDI loop
- SDI in

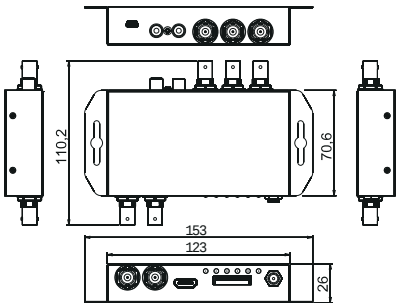
Front
- SDI out1
- SDI out2
- DIP-switch
- DC jack



SDI to SDI/HDMI Genlock

Rear
- MinI USB connector
- L/R audio RCA connector in
- REF in
- SDI loop
- SDI in

Front
- SDI out1
- SDI out2
- HDMI out
- DIP-switch
- DC jack

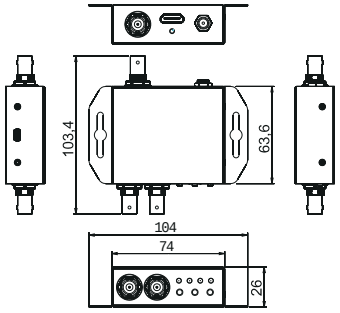


HDMI to SDI Genlock

Rear
- REF-in
- HDMI in
- DC jack

Left
- Mini USB connector

Front
- SDI out 1
- SDI out 2
- RESOLUTION button
- FRAME RATE button
- FRACTION button

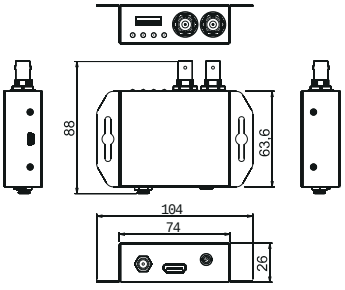


HDMI to SDI Audio Embedder

Rear
- DIP-switch
- SDI out 1
- SDI out 2

Left
- Mini USB connector

Front
- DC jack
- HDMI in
- AUDIO in



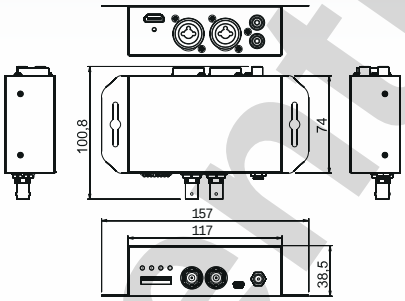
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Size & Connector

HDMI to SDI-S Audio Embedder

Rear
- HDMI in
- XLR-R in
- XLR-L in/AES
- L/R audio RCA connector in

Front
- DIP-switch
- SDI out 1
- SDI out 2
- Mini USB connector
- DC jack

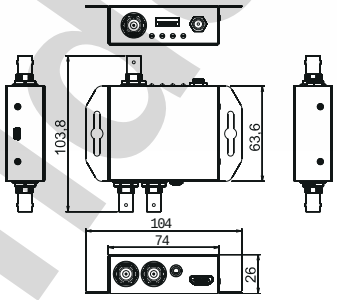


SDI to HDMI Audio De-Embedder

Rear
- SDI in
- DIP-switch
- DC jack

Left
- Mini USB connector

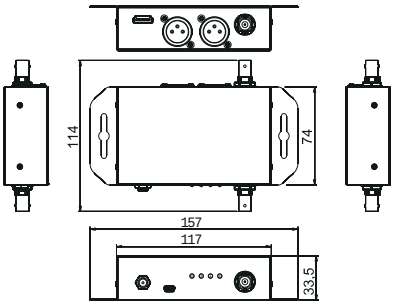
Front
- SDI loop 1
- SDI loop 2
- AUDIO out
- HDMI out



SDI to HDMI Audio De-Embedder XLR

Rear
- HDMI out
- XLR-R out
- XLR-L out
- SDI-loop

Front
- DC jack
- Mini USB connector
- SDI in

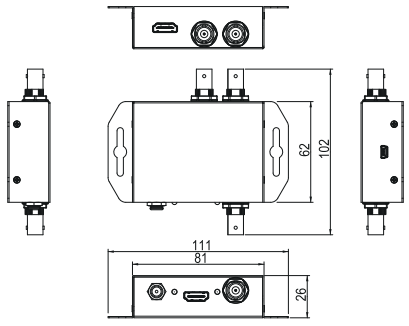


SDI ⇆ HDMI Cross

Rear
- HDMI out
- SDI out
- SDI out

Right
- Mini USB connector

Front
- DC jack
- HDMI LED
- HDMI in
- SDI LED
- SDI in

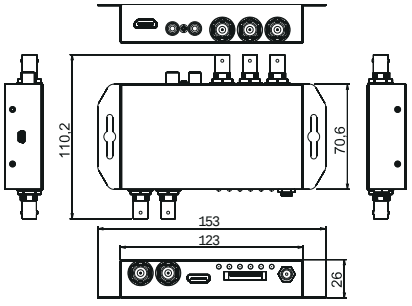


SDI ⇆ HDMI Genlock Cross

Rear
- HDMI in
- L/R audio RCA connector in
- REF in
- SDI loop
- SDI in

Left
- Mini USB connector

Front
- SDI out 1
- SDI out 2
- HDMI out
- DIP-switch
- DC jack



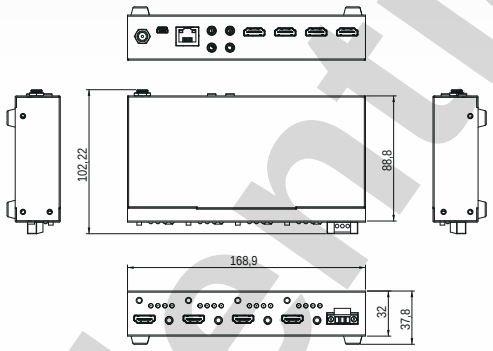
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unit: mm

HDMI2.0 4x4 Matrix

Rear
- DC jack
- Mini USB connector
- Ethernet
- Line in * 4
- HDMI2.0 in 4
- HDMI2.0 in 3
- HDMI2.0 in 2
- HDMI2.0 in 1

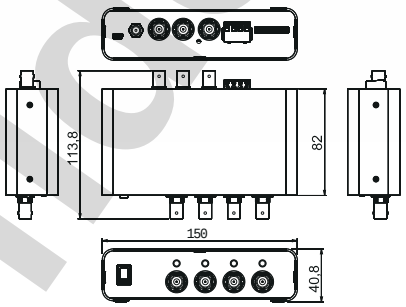
Front
- SELECT button 4
- HDMI2.0 out 4
- 3.5mm audio out 4
- SELECT button 3
- HDMI2.0 out 3
- 3.5mm audio out 3
- SELECT button 2
- HDMI2.0 out 2
- 3.5mm audio out 2
- SELECT button 1
- HDMI2.0 out 1
- 3.5mm audio out 1



SDI 4x1 Switch

Rear
- Mini USB connector
- DC jack
- SDI out 2
- SDI out 1
- REF-in
- RS485 connector
- DIP-switch

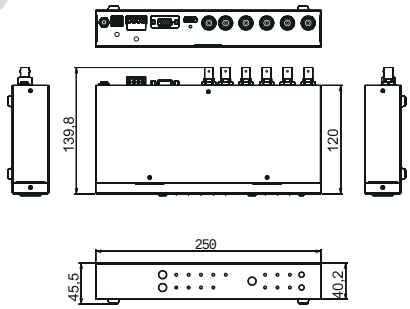
Front
- POWER switch
- SDI in 1
- SDI in 2
- SDI in 3
- SDI in 4
- SDI 1 select button
- SDI 2 select button
- SDI 3 select button
- SDI 4 select button



Multiviewer QUAD SDI

Rear
- DC jack
- USB TYPE B connector
- RS485 connector
- VGA out
- HDMI out
- SDI out 2
- SDI out 1
- SDI in 4
- SDI in 3
- SDI in 2
- SDI in 1

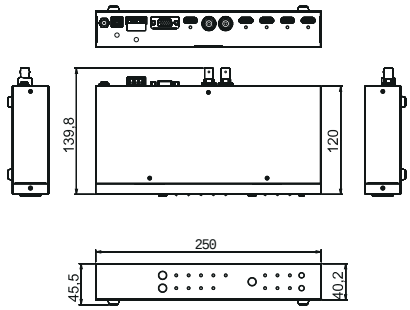
Front
- DISPLAY MODE button
- MAIN CHANNEL button
- MENU/ENTER button
- FORMAT button
- OUTPUT button



Multiviewer QUAD HDMI

Rear
- DC jack
- USB TYPE B connector
- RS485 connector
- VGA out
- HDMI out
- SDI out 2
- SDI out 1
- HDMI in 4
- HDMI in 3
- HDMI in 2
- HDMI in 1

Front
- DISPLAY MODE button
- MAIN CHANNEL button
- MENU/ENTER button
- FORMAT button
- OUTPUT button

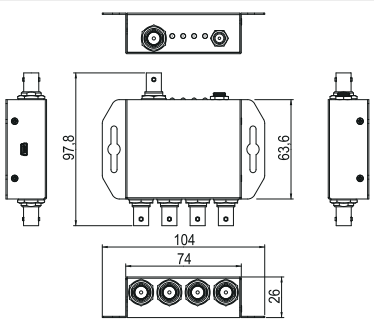


12G-SDI Splitter

Rear
- 12G-SDI in
- DC jack

Left
- MinI USB connector

Front
- 12G-SDI out
- 12G-SDI out
- 12G-SDI out
- 12G-SDI out



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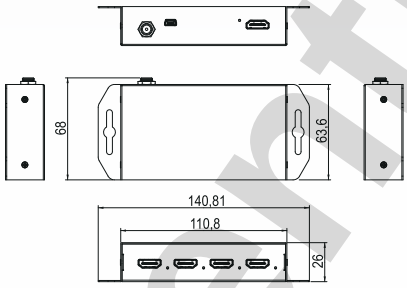
Size & Connector

HDMI2.0 Splitter

Rear
- SDI out 4
- SDI out 3
- SDI out 2
- SDI out 1

Right
- Mini USB connector

Front
- DC jack
- DIP-switch
- SDI in

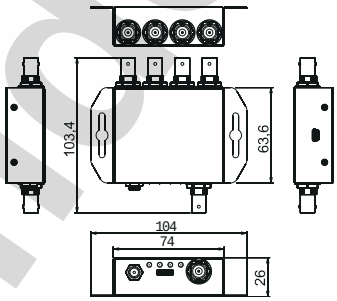


SDI Splitter

Rear
- SDI out 4
- SDI out 3
- SDI out 2
- SDI out 1

Right
- Mini USB connector

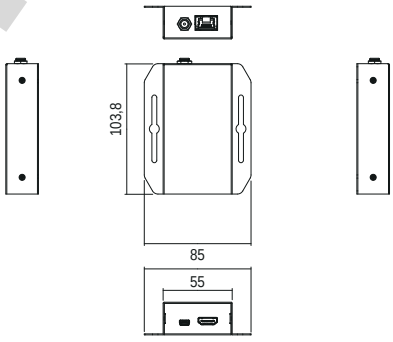
Front
- DC jack
- DIP-switch
- SDI in



HDMI2.0 to Copper

Rear
- DC jack
- 10Gb COPPER out

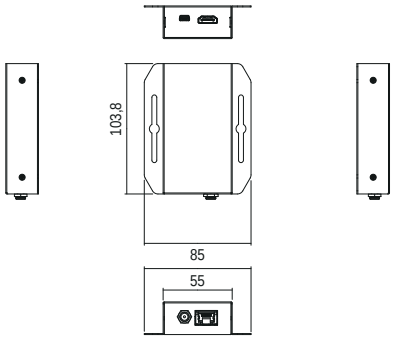
Front
- PC-USB
- 10Gb
- LOCK
- POWER
- HDMI2.0 in



Copper to HDMI2.0

Rear
- DC jack
- 10Gb COPPER in

Front
- PC-USB
- 10Gb
- LOCK
- POWER
- HDMI2.0 out

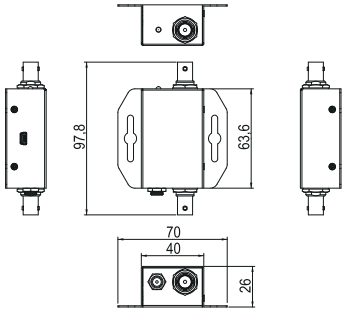


12G-SDI Repeater

Rear
- 12G-SDI in

Left
- Minl USB connector

Front
- DC jack
- 12G-SDI out



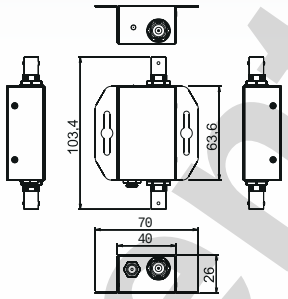
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unit: mm

SDI Repeater

Rear
- SDI out

Front
- DC jack
- SDI in

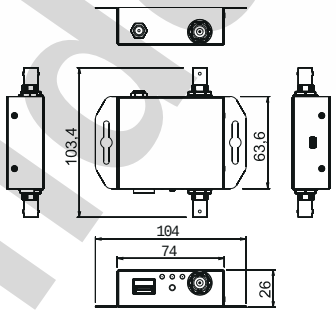


SDI to Optical Fiber

Rear
- DC jack
- SDI in

Right
- Mini USB connector

Front
- FC connector out
- RESERVE button
- SDI loop

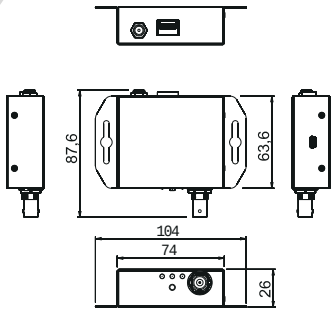


Optical Fiber to SDI

Rear
- DC jack
- FC connector in

Right
- Mini USB connector

Front
- RESERVE button
- SDI loop



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