

# MINI CONVERTERS in HD&SDI

## BAT-3SH

(HD/SD/3G-SDI to HDMI Video and Audio Converter)

### Features

- Auto Detection SDI Mode-3G/HD/SD
- Re-clocked Loop-through 3G/HD/SD-SDI Output [BNC 75 ohm]  
HDMI v1.3 Compliant
- Link Indicator LED(Green)
  - LED ON if SDI LOCK detected - SD(1 blink), HD(2 blink), 3G(3 blink)
  - LED BLINK per one second if SDI is locked and HDMI not connected
- Video Error Indicator LED (Red)
  - LED ON if data error or SDI cable not connected
- Supports 8 audio channels (4 stereo pairs)
  - 48kHz sample rate
- Additional Analog Stereo Audio Output (Left RCA :White, Right RCA :Red)
- Selectable Luminance Range(0~255/16~235) by DIP Switch
- Selectable HD/SD Color Space Conversion by DIP Switch
- Power Cable Supplied
- 3 years warranty



### Spec

- Supported Video Formats
  - 720(1440) x 480i @ 59.94/60, 720(1440) x 576i @ 50
  - 1280 x 720p @ 50, 1280 x 720p @ 59.94/60
  - 1920 x 1080i @ 50, 1920 x 1080i @ 59.94/60
  - 1920 x 1080p @ 23.94/24, 1920 x 1080p @ 25, 1920 x 1080p @ 29.97/30
  - 1920 x 1080p @ 50, 1920 x 1080p @ 59.94/60
- Video Input
  - 3G, HD, and SD-SDI(auto-selected), SMPTE-259/272/274/292/296/299/424/425
  - 1 x BNC input, 1x BNC Loop-through Output
- Video outPut
  - HDMI v1.3a, 24/30/36 bits per pixel, RGB, 2.25Gbs, SD, HD
  - HDMI Standard Type A connector
- Audio Outputs
  - HDMI embedded audio, 24 bit, 2 or 8 channels RCA-style analog outputs at -10dBV
- Input Power Range: +7V ~ +15V
- Power Consumption : 3Watt [Max]
- Power Adapter
  - Input : 100V ~ 240V, 50/60Hz,
  - Output : +12V DC, 2.0A

## BAT-3HS

(HD/SD/HDMI Video and Audio Converter)

### Features

- Auto Detection Video Mode : 3G/HD/SD
- Audio Sampling Rate Conversion
  - 32kHz/44.1 kHz / 48kHz / 88kHz / 96kHz / 176kHz / 192kHz < - 48kHz
- 3G/HD/SD-SDI Output x2 [BNC 75ohm]
- HDMI v1.3 Compliant
- HDMI Link Indicator LED (Green)
  - LED ON if HDMI Link detected : SD(1 blink), HD(2 blink)
- Not supported Video Mode Indicator LED (Red)
  - LED ON if the input video mode is not supported
- Selectable Analog Stereo Audio Input (Left RCA :White, Right RCA: Red) or HDMI by DIP Switch
- Selectable Luminance Range(0-255/16~235) by DIP Switch
- Input Power Range : +7V ~ +15V
- Power Consumption : 3Watt [Max]
- Power Adapter
  - Input : 100V - 240V, 50/60Hz /
  - Output: +12V DC, 2.0A
- Power Cable Supplied
- 3 years warranty



### Spec

- Supported Video Formats
  - 720(1440) x 480i @ 59.94/60, 720(1440) x 576i @ 50
  - 1280x720p@50, 1280x720p@59.94/60
  - 1920x1080p@23.94/24, 1920x1080p@25, 1920x1080p@29.97/30
  - 1920x1080p@50, 1920x1080p @ 59.94/60
- Input
  - HDMI with embedded audio & Auto mute when DVI input
- Outputs
  - SMPTE-259/272/274/292/296/299/424/425 3G/HD/SD-SDI, 2 x BNC
- Supports 8 audio channels (4 stereo pairs) :
  - when the input audio sample rate is 48kHz
- Supports Audio Sample Rate Converter Mode :
  - when the input audio sample rate is not 48kHz
  - Supports 2 audio channels (1 stereo pair)
  - Auto detection of the input audio sample rate
  - Auto switching audio sample rate converter mode
  - Supports arbitrary input audio sample rate (32kHz - 192kHz)
  - Output audio sample rate is 48kHz



## BAT-SA

(HD/SD-SDI to Analog Video and Audio Converter)

### Features

- Auto Detection SDI Mode : HD/SD
- Re-clocked Loop-through HD/SD-SDI Output [BNC 75 ohm]
- Component(YPbPr) or Composite(CVBS and S-Video) Output [RCA]
- Link Indicator LED (Green)
  - LED ON if SDI LOCK detected - SD(1 blink), HD(2 blink)
  - LED BLINK per one second if SDI is locked and Y/CVBS is not connected
- Video or Audio Error Indicator LED (Red)
  - LED ON if data error SDI cable not connected
- Supports 2 audio channels (1 stereo pairs)
  - 48kHz sample rate
  - Left RCA : White, Right RCA : Red
- Selectable Component(YPbPr) or Composite(CVBS and S-Video) by DIP Switch
- Power Cable Supplied
- 3 years warranty

### Spec

- Supported Video Formats
  - 720(1440) x 480i @ 59.94/60, 720(1440) x 576i @ 50
  - 1280x720p @ 50, 1280x720p @ 59.94/60
  - 1920 x 1080i @ 50, 1920 x 1080i @ 59.94/60
  - 1920x1080p @ 23.94/24, 1920x1080p @ 25, 1920 x 1080p @ 29.97/30
- Video Input
  - HD, and SD-SDI (auto-selected), SMPTE-259/272/274/292/296/299,
  - 1x BNC input, 1x BNC Loop-through output
- Video output
  - Selectable Component(YPbPr) or Composite(CVBS and S-Video) by DIP Switch
  - NTSC, PAL support
  - 3x BNC output
- Audio Outputs : 2 channels BNC - style analog outputs at -10dBV  
Input Power Range : +7V ~ +15V
- Power Consumption : 3Watt [Max]
- Power Adapter
  - Input : 100V ~ 240V, 50/60Hz
  - Output : +12V DC, 2.0A



## BAT-AS

(HD/SD Analog Composite or Component Video and 2 Ch Analog Audio to SD/HD-SDI w/Embedded Audio Converter)

### Features

- Auto Detection Video Mode - HD/SD
- Component(YPbPr) or Composite(CVBS) Input
- HD/SD-SDI Output x 2 [BNC 75 ohm]
- Video Input Indicator LED(Green)
  - LED ON if Component or Composite detected : SD(1 blink), HD(2 blink)
- Not supported Video Mode Indicator LED (Red)
  - LED ON if the input video mode is not supported
- Support Analog Stereo Audio Input (Left RCA :White, Right RCA: Red)
- Input Power Range : +7V ~ +15V • Power Consumption : 3Watt [Max]
- Power Adapter
  - Input : 100V - 240V, SD/60Hz / - Output : +12V DC, 2.0A
- Power Cable Supplied • 3 years warranty



### Spec

- Supported Video Formats
  - 720(1440) x 480i @ 59.94/60, 720(1440) x 576i @ 50
  - 1280 x 720p @ 50, 1280 x 720p @ 59.94/60
  - 1920 x 1080i @ 50, 1920 x 1080i @ 59.94/60
  - 1920 x 1080p @ 23.94/24, 1920 x 1080p @ 25, 1920 x 1080p @ 29.97/30
- Video Input : HD Component YPbPr or SD Component / Composite, 3xBNC
- Audio Input : 2 Channels Unbalanced, 2x BNC
- Outputs : SMPTE-259/272/274/292/296/299 HD/SD-SDI w/embedded Audio Outputs, 1 x BNC
- Video ADC : 12 bits
- Audio ADC : 24 Bits, 48kHz

Series Key Features



COMPATIBILITY



VERSATILE



Audio sampling rate conversions  
(1.6 ~ 192KHz to 48 KHz)

WIDE RANGE  
INPUT POWER



7V ~ 15V

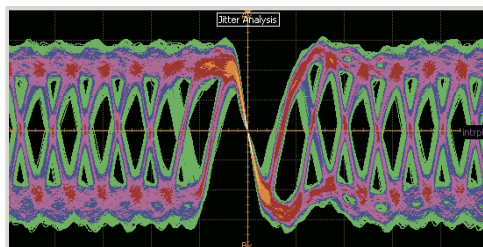
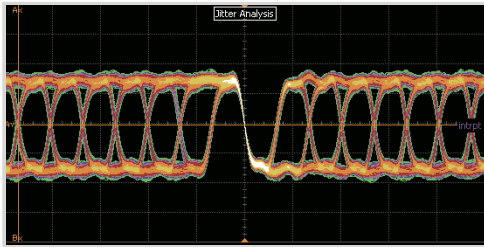
SIGNAL STRENGTH  
LONGEVITY



LOW POWER  
CONSUMPTION



Superior Signal Quality with Low-Jitter



LUMANTEK BAT Mini-Converters offers superior quality signal with lowest SDI jitter, so User can enjoy longest SDI Cable lengths with internal power supplies for extremely low noise broadcast analogue video and audio signal.

