

# ADVC G-Series

## Multi-Purpose Digital Video Converters

The G-Series of affordable, multi-purpose digital video converters are at the leading edge of technology, and the latest additions to the renowned ADVC® family. Housed in a practical and compact 1/3 RU form factor, these four converters tackle a variety of different A/V tasks and are particularly well suited to events and staging, corporate AV centers, and broadcast display applications.



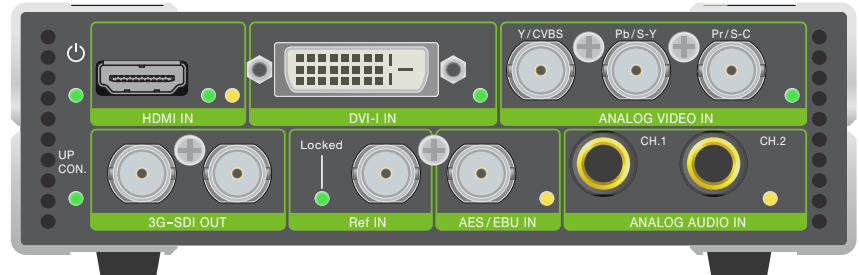
# ADVC G1

## Any In to SDI Multi-Functional Converter/ Upconverter with Frame Synchronizer



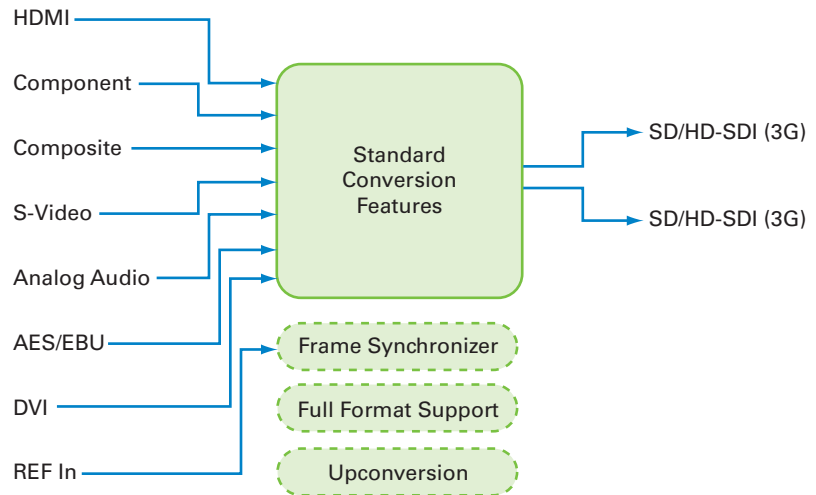
The ADVC G1 is a compact and competitively priced converter, designed to convert and/or upconvert any kind of professional/broadcast signals to HD/SD-SDI with the full support of the latest 3G technology.

The ADVC G1 will convert and/or upconvert, at the user's choice, sources from HDMI, DVI, component, composite, S-Video, AES/EBU, and analog audio to HD/SD-SDI (3G/1.5G support). With its audio inputs, the ADVC G1 can also be used as an audio embedder. It also features a reference in port which can serve as a frame synchronizer for the analog inputs, eliminating the need to purchase separate expensive equipment.



### KEY FEATURES

- Any in to (3G) SDI:
  - Converts any type of connection to SDI
  - Incorporates latest 3G technology
- Feature-rich at an affordable price:
  - Latest technology upconverter
  - Integrated frame synchronizer
- Multi-purpose converter:
  - DVI input with PC resolution support
  - Audio inputs for audio embedding



### APPLICATIONS

- Conversion from analog to SDI
- Conversion from DVI or HDMI to (3G) HD/SD-SDI
- High-quality upconversion from analog SD to HD or 3G
- Frame synchronization (house sync) of analog signals

### SPECIFICATIONS

#### Inputs:

HDMI, DVI, RGB, component, composite, S-Video, analog audio, AES/EBU, reference

#### Input Formats:

- 1080i60/59.94/50
- 1080p60/59.94/50/30/29.97/25/24/23.98
- 720p60/59.94/50/30/29.97/25/24/23.98
- 480i/p60/59.94
- 576i/p50
- PC resolutions(640x480, 800x600, 1024x768, 1366x768, 1280x1024, 1600x1200, 1920x1200)

#### Outputs:

(3G) HD/SD-SDI

#### Output Formats:

- 1080i60/59.94/50
- 1080p60/59.94/50/30/29.97/25/24/23.98
- 1080psf/24/23.98
- 720p60/59.94/50/30/29.97/25/24/23.98
- 480i59.94
- 576i50

#### Dimensions:

- Width: 142 mm
- Height: 43.1 mm
- Depth: 98.8 mm

# ADVC G2

## HDMI & SDI to Analog & SDI Multi-Functional Converter/Upconverter with Frame Synchronizer

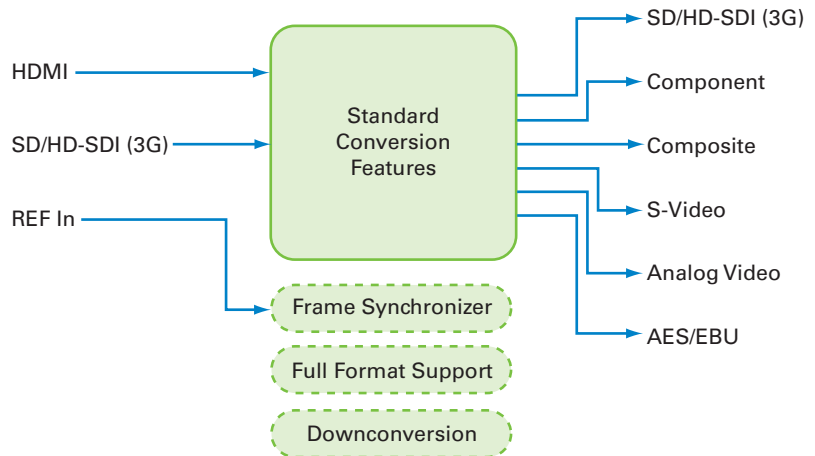
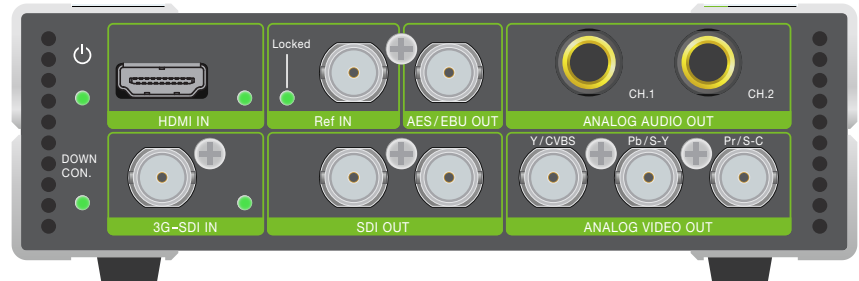


Like other members of the ADVC G-Series family, the ADVC G2 combines the latest conversion technologies in a compact 1/3 RU form factor.

Featuring HDMI and HD/SD-SDI (3G/1.5G support) for the inputs and HD/SD-SDI (3G/1.5G support), component, composite, S-Video, AES/EBU, and analog audio for the outputs, the new ADVC G2 plays the role of many converters for the price of one. The ADVC G2 also features 3G support, downconverting, and a frame synchronizer, which becomes very handy when, for example, connecting the SDI out to a switcher.

The ADVC G2 can be used as a monitoring device for HDMI and HD/SD-SDI sources, but it can also act as an HDMI to HD/SD-SDI (3G/1.5G support) converter.

The AES/EBU and analog audio outputs, used for audio de-embedding, are a welcome feature in most monitoring applications.



### KEY FEATURES

- Latest technologies all in one box:
  - Full 3G support (up to 60p)
  - Integrated HDMI input
- Feature-rich at an affordable price:
  - Downconverter with manual on/off
  - Integrated frame synchronizer
- Multi-purpose converter:
  - HDMI input for latest camcorder connections
  - Audio outputs for audio de-embedding

### APPLICATIONS

- Conversion from SDI to analog
- Conversion from HDMI to HD/SD-SDI or analog
- Downconversion from (3G) HD-SDI to SD-SDI or analog
- Downconversion from HDMI to analog or SD-SDI with audio
- Frame synchronization (house sync) for SDI signals

### SPECIFICATIONS

#### Inputs:

(3G) HD/SD-SDI, HDMI, reference

#### Input Formats:

- 1080i60/59.94/50
- 1080p60/59.94/50/30/29.97/25/24/23.98
- 1080psf/24/23.98
- 1035i60/59.94
- 720p60/59.94/50/30/29.97/25/24/23.98
- 480i/p 60/59.94
- 576i/p50

#### Outputs:

(3G) HD/SD-SDI, component, composite, S-Video, analog audio, AES/EBU

#### Output Formats:

- 1080i60/59.94/50
- 1080psf23.98/24
- 1080p60/59.94/50/30/29.97/25/24/23.98
- 1035i60/59.94
- 720p60/59.94/50/30/29.97/25/24/23.98
- 480i 59.94
- 576i50

#### Dimensions:

- Width: 142 mm
- Height: 43.1 mm
- Depth: 98.8 mm

# ADVC G3

## 2X SDI to HDMI 1.4 Converter/Multiplexer with 3D Support

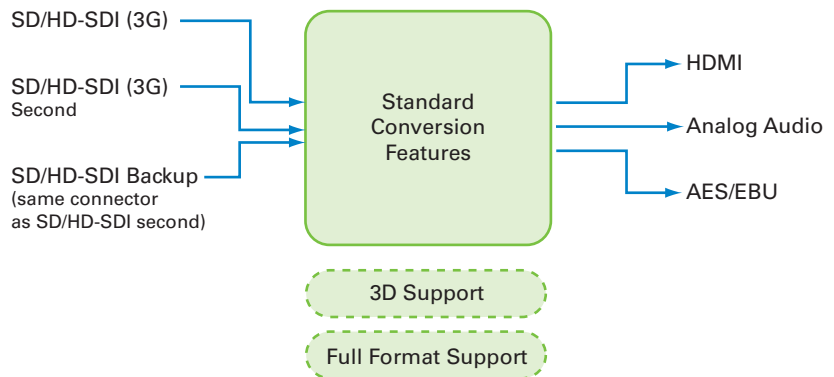
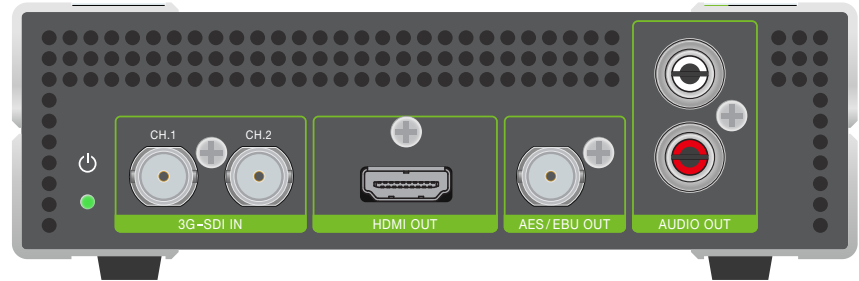


The ADVC G3 is a full-featured HD/SD-SDI to HDMI converter with 3G technology and the latest HDMI 1.4a connection support, designed to fulfill the demands of 3D monitoring and multiplexing.

The ADVC G3 can be used as a standard HD/SD-SDI to HDMI converter, but also features a second SDI input which can be used for left-eye/right-eye inputs. The ADVC G3 will, in real time, multiplex the two left-eye/right-eye signals for a 3D output through HDMI.

The analog audio and AES/EBU outputs, used for audio de-embedding, are a welcome feature in monitoring situations, for both 2D and 3D content.

The ADVC G3 features 3D multiplexing technology supported by HDMI 1.4a (Side-by-Side, Top-and-Bottom, and Frame Packing—sequential), which can be turned on and off manually.



### KEY FEATURES

- The best tool for 3D!
  - Selectable muxing patterns: top-and-bottom, side-by-side, and frame-packing
- Incorporates the latest technology:
  - Full 3G support (up to 60p)
  - HDMI 1.4a support
- Multi-purpose converter:
  - 3D multiplexer
  - (3G) SDI to HDMI converter

### APPLICATIONS

- Conversion from HD/SD-SDI (3G/1.5G support) to HDMI (with audio)
- Multiplexing right-eye/left-eye
- SDI signals to HDMI 3D
- De-embedding audio

### SPECIFICATIONS

#### Inputs:

(3G) HD/SD-SDI x 2

#### Input Formats:

- 1080i60/59.94/50
- 1080p60/59.94/50/30/29.97/25/24/23.98
- 1080psf/24/23.98
- 1035i60/59.94
- 720p60/59.94/50/30/29.97/25/24/23.98
- 480i59.94
- 576i50

#### Outputs:

HDMI 1.4a, AES/EBU, analog audio

#### Output Formats:

- 1080i60/59.94
- 1080p60/59.94/50/30/29.97/25/24/23.98
- 720p60/59.94/50/30/29.97/25/24/23.98
- 8480i/p 59.94
- 576i/p50

#### Dimensions:

- Width: 142 mm
- Height: 43.1 mm
- Depth: 98.8 mm

# ADVC G4

## Sync Generator with Reference In



The ADVC G4 is more than just a compact and robust sync generator.

While most competitive products have only six outputs and restrictions on SD and HD signals, the ADVC G4 has nine outputs that can be individually controlled in groups of three.

For example, three outputs can be SD, the other six can be HD, or vice versa.

The ADVC G4 also includes a 48 kHz wordclock as well as a reference input, which allows it to be used as an extender when more than nine outputs are needed, or when an extension from the main system is necessary.

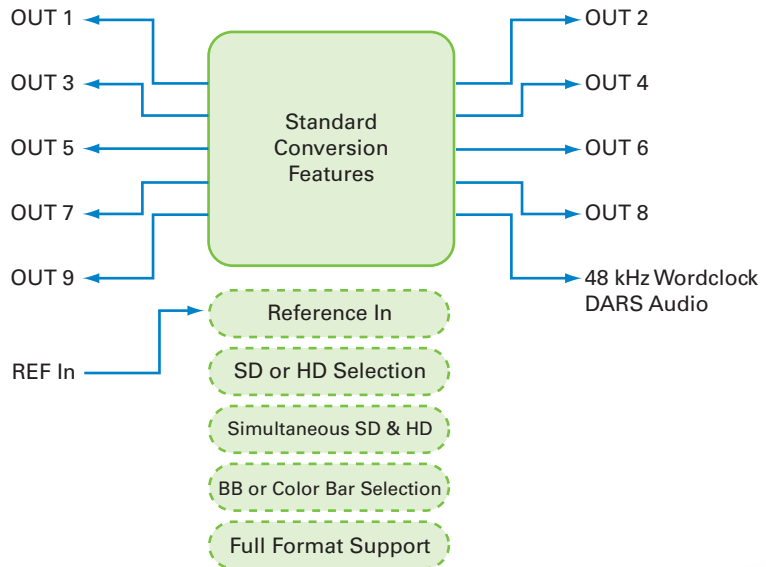
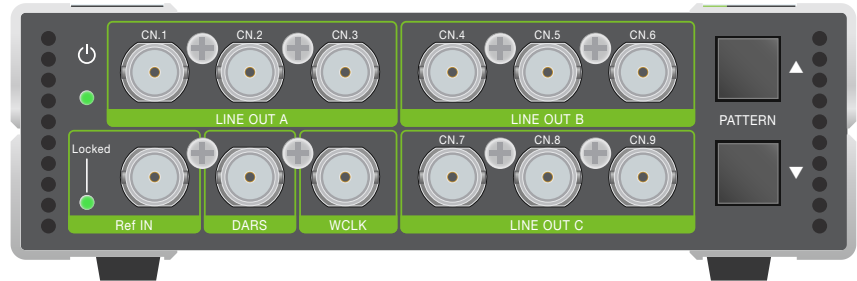
The ADVC G4 features the highest signal quality, best functionality, and the most comprehensive format support in the compact sync generator market.

### KEY FEATURES

- Best compact sync generator:
  - High-quality signals
  - Full format support
- Customizable output:
  - Select SD or HD in groups of 3
  - Simultaneous SD and HD outputs
- Feature-rich at an affordable price:
  - Reference in for extension
  - 48 kHz wordclock, DARS audio

### APPLICATIONS

- Provide reference signal for fly-cases or control rooms
- Add reference signal when the current reference distribution does not have enough outputs
- Synchronize a secondary local technical room to a primary room, with advanced timing
- Generating SD and HD reference with different timings to mix in a switcher
- Generating reference signals for ADVC G1 and G2 models when used in frame synchronizer mode



### SPECIFICATIONS

#### Inputs:

Reference

#### Outputs:

9X outs, 48 kHz word-clock, DARS audio

#### HD Sync:

Tri-level

#### SD Sync:

Blackburst (BB)

#### AES:

AES-11, 48 kHz, silent

#### Input/Output Formats:

- SMPTE 274M: 1080i60/59.94/50, 1080p/Psf30/29.97/25/24/23.98
- SMPTE 296M: 720p60/59.94/50/30/29.97/25/24/23.98
- NTSC: 480i/59.94
- PAL: 576i/50

#### Dimensions:

- Width: 142 mm
- Height: 43.1 mm
- Depth: 98.8 mm

# ADVC G-Series I/O and Format Comparison Guide

	Model	ADVC G1	ADVC G2	ADVC G3	ADVC G4
	Description	Any In, SDI Out	SDI & HDMI In to Analog & SDI	2 x SDI to HDMI 1.4 with 3D support	Sync Generator with Reference In
Input	HD-SDI / SD-SDI	No	Yes	Yes (2)	No
	HDMI	Yes	Yes	No	No
	DVI	Yes	No	No	No
	Analog RGB	Yes	No	No	No
	Component	Yes	No	No	No
	S-Video	Yes	No	No	No
	Composite	Yes	No	No	No
	Analog Audio	Yes	No	No	No
	AES/EBU	Yes	No	No	No
	Ref In (frame synchronizer)	Yes	Yes	No	Yes
Output	Upconversion	Yes	No	No	No
	Downconversion	No	Yes	No	No
	HD-SDI / SD-SDI	Yes (2)	Yes	No	No
	HDMI	No	No	Yes	No
	3D Muxing	No	No	Yes	No
	DVI	No	No	No	No
	Analog RGB	No	Yes	No	No
	Component	No	Yes	No	No
	S-Video	No	Yes	No	No
	Composite	No	Yes	No	No
	AES/EBU	No	Yes	Yes	No
	Analog Audio	No	Yes	Yes	No
	Ref Out	No	No	No	Yes (9)
Format Support	PAL / NTSC	Yes	Yes	Yes	Yes
	PC Resolution	Up to 1920 x 1200	No	No	No
	1080i50	Yes	Yes	Yes	Yes
	1080i59.94	Yes	Yes	Yes	Yes
	1080i60	Yes	Yes	Yes	Yes
	1080p23.98	Yes	Yes	Yes	Yes
	1080p24	Yes	Yes	Yes	Yes
	1080p25	Yes	Yes	Yes	Yes
	1080p29.97	Yes	Yes	Yes	Yes
	1080p30	Yes	Yes	Yes	Yes
	1080p50	Yes	Yes	Yes	No
	1080p59.94	Yes	Yes	Yes	No
	1080p60	Yes	Yes	Yes	No

# ADVC G-Series I/O and Format Comparison Guide

	Model	ADVC G1	ADVC G2	ADVC G3	ADVC G4
	Description	Any In, SDI Out	SDI & HDMI In to Analog & SDI	2 x SDI to HDMI 1.4 with 3D support	Sync Generator with Reference In
Format Support (cont.)	720p23.98	Yes	Yes	Yes	Yes
	720p24	Yes	Yes	Yes	Yes
	720p25	Yes	Yes	Yes	Yes
	720p29.97	Yes	Yes	Yes	Yes
	720p30	Yes	Yes	Yes	Yes
	720p50	Yes	Yes	Yes	Yes
	720p59.94	Yes	Yes	Yes	Yes
	720p60	Yes	Yes	Yes	Yes
	1080psf23.98	Yes	Yes	Yes	Yes
	1080psf24	Yes	Yes	Yes	Yes
	1080psf25	Yes	Yes	Yes	Yes
	1080psf29.97	Yes	Yes	Yes	Yes
	1080ps30	Yes	Yes	Yes	Yes
	1035i59.94	No	Yes	Yes	No
	1035i60	No	Yes	Yes	No
Input Signals	SMPTE 259M	No	Yes	Yes	No
	SMPTE 292M	No	Yes	Yes	No
	SMPTE-424	No	Yes	Yes	No
	YPbPr (SD)	Yes	No	No	No
	EBU-N10 (SD)	Yes	No	No	No
	Betacam (SD)	Yes	No	No	No
	YC (SD)	Yes	No	No	No
	YPbPr (HD)	Yes	No	No	No
	HDMI	Yes	Yes	No	No
Output Signals	SMPTE 259M	Yes	Yes	No	No
	SMPTE 292M	Yes	Yes	No	No
	SMPTE-424	Yes	Yes	No	No
	YPbPr (SD)	No	Yes	No	No
	EBU-N10 (SD)	No	Yes	No	No
	Betacam (SD)	No	Yes	No	No
	YC (SD)	No	Yes	No	No
	YPbPr (HD)	No	Yes	No	No
	HDMI	No	No	Yes	No



## DEALERS/RESELLERS

To find your local reseller or dealer for Grass Valley professional audio video products, please visit [professional.grassvalley.com/sales/](http://professional.grassvalley.com/sales/).

## SERVICE & SUPPORT

Twelve-month limited warranty with service provided through local resellers. Additional support available on a contractual basis.