

ADVC G1



ADVC G1



- 1. What happens if there is no reference input signal?**
When no reference signal is present, the ADVC G1 from Grass Valley, a Belden Brand, will generate its own internal reference signal.
- 2. What is the delay IN → OUT for ADVC-G1**

 - Interlace to interlace: 2.5 frames
 - Interlace to progressive: 2.0 frames
 - Progressive to interlace: 3.0 frames
 - Progressive to progressive: 2.0 frames
- 3. ADVC G1 has DVI-IN, what is the refresh rate for PC output?**
ADVC G1 supports 60 Hz for PC output.
- 4. What is the setup level for analog video input?**
The setup level is set to 7.5 IRE by default. This can be switched to 0 IRE via a dip switch on the rear panel.
- 5. Can the analog audio input level be adjusted?**
Precise levels cannot be adjusted. Reference level can be switched via a dip switch on the rear panel to 0 dBu or +4 dBu.
- 6. ADVC G1 has an upconvert function, but does it have a frame-rate conversion function?**
ADVC G1 does not have any frame-rate conversion capability.
The upconvert function is used to convert SD inputs like S-Video, component video and composite video to 720p, 1080i, 1080p (selectable in setup) over SDI.
- 7. Does ADVC G1 have a downconvert function?**
ADVC G1 does not support downconversion.
- 8. What happens when a 4:3 image is output as a 16:9 image?**
Display mode can be changed via a dip switch on the rear panel, for the following outputs:

 - Standard (letterboxed with black borders on right and left side of the screen)
 - Full Screen (image stretched across the complete screen to fill the screen)
 - Flex view (image stretched more across the sides of the screen (and less towards the center of the screen) to fill the screen)
- 9. When you outputting a 4:3 video to 16:9, is there no mode to cut the top and bottom of the screen?**
The ADVC-G1 does not support this mode.
- 10. Can you embed all eight channels of HDMI audio to an SDI output?**
Yes, it is possible. Can you then choose which audio you would like to embed into the SDI? Yes. However, when a DVI video signal has been chosen as the video input, you cannot choose HDMI audio.
- 11. What is the USB connector on the back of the unit for?**
This connector will be used in the future for firmware updates as well as external control, and status monitoring.
- 12. In the ADVC G1, is image enhancement applied in “through mode”?**
Yes, it is applied to “through mode” video, when image enhance mode has been turned on.

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 (x2)	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 (x2)	Yes (x2)	No	No
	HDMI	No	No	Yes	No
	3D Muxing	No	No	Yes	No
	DVI	No	No	No	No
	Analog RGB	No	No	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 (x9)
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
	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

I/O and Format Comparison Guide (cont.)

	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.)	1080psf24	Yes	Yes	Yes	Yes
	1080psf25	Yes	Yes	Yes	Yes
	1080psf29.97	Yes	Yes	Yes	Yes
	1080psf30	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
Output Signals	HDMI	Yes	Yes	No	No
	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	

