

FlexMedia™ VG-02

High Definition LVDS Video Pattern Generator

The Alfamation Flexmedia VG-02 features video pattern generation for 3D HD display panels test over a maximum of 4/8 LVDS channels at 48-bit or 30-bit color, through the PXI/PXIe industrial standard and FPGA-based NI FlexRIO™ technology.

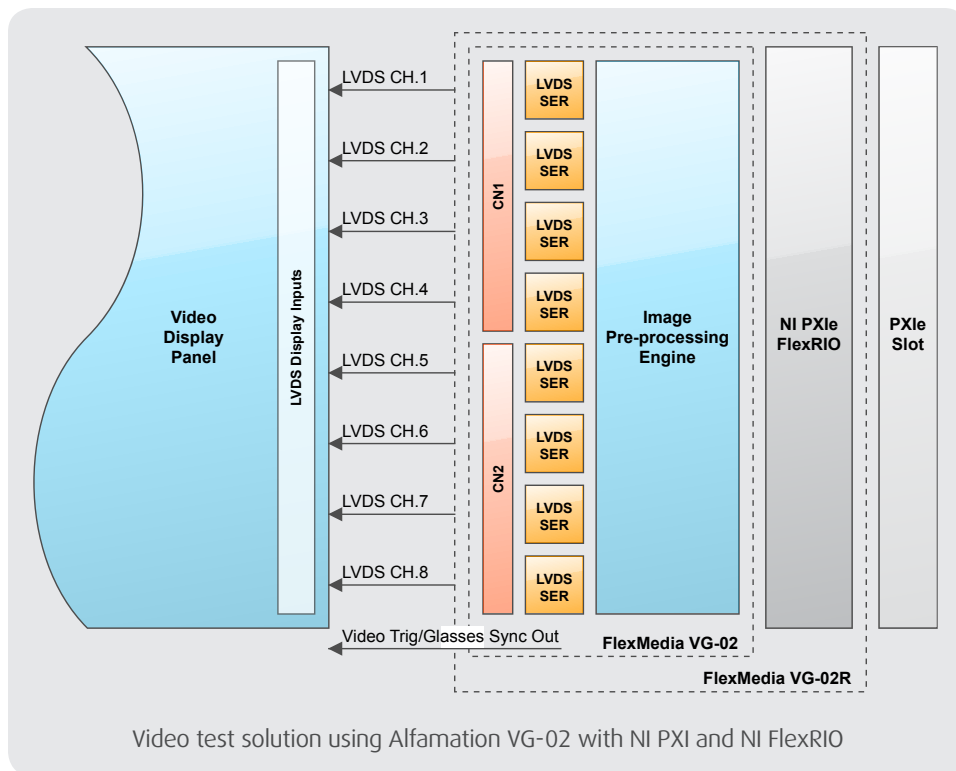
- Test HDTV, 3D, and monitor displays at 240 Hz
- Short movies playback allows 3DTV Test
- Shutter glasses synch
- 4k x 2k wide video support
- “Multistream parallel output”
- V-by-ONE® option

Features

- 4/8 LVDS channels at 48/30-bit color
- 1080p at 240Hz
- Programmable clock from 20 MHz to 150 MHz
- Up to 48-bit color depth
- JEIDA and VESA color mapping
- User definable video timing
- 3DTV frame and line interleave
- Programmable video trigger output
- Patterns synthesis from .png files
- NI LabVIEW™ VIs for flexible instrument control

Specifications

Number of Simultaneous LVDS Channels	4/8 LVDS channels at 48/30-bit color	
Clock Speed	Ranging from 20 to 150 MHz	
Parallel Pixel Selection	1, 2, 4, 8	
Color Depth	24-30-36-48 bit	
Frame Rate	Up to 240 Hz over 1080p	
Video Clip Mode	Max. 32 frames (1920 x 1080 30-bit color) in quad pixel mode or 64 frames (1920x1080 30-bit color) in octal pixel mode	
Supported 3D Modes	Line alternate or frame alternate	
Max. Bit Rate	Over 20 Gb/s aggregated rate (over 30 Gb/s in multistream mode)	
LVDS Pixel Information Mapping	Software-selectable VESA or JEIDA	
Functions Available Through LabVIEW VIs	Frame images download	Still picture play
	Video clip play	3D mode select
	Video trigger select	Shutter glasses synch



Custom cables and adapters are available upon request.