

CLS-221 Camera Link v2.1 Simulator

The CLS-221 Camera Link Simulator is a high-performance video test pattern generator supporting all Camera Link configurations (base, medium, full, 72-bit, 80-bit). The CLS-221 supports all Camera Link video formats including those introduced in the new Camera Link v2.1 specification. Fully programmable video timing enables the CLS-221 to mimic the characteristics of almost any camera.



New features include enhanced timing performance, bayer color support, and color bar & pseudo-random video patterns. The CLS-221 also supports the AIA validation test pattern.

The CLS-221 is controlled using a simple Command Line Interface (CLI). No special software is required. Commands are sent via an RS-232 port, USB (using optional adapter), or the frame grabber serial port. Configuration files are easily created with user parameters and downloaded to the CLS-221.

The CLS-221 Camera Link Simulator is extremely useful for the development, test, and integration of Camera Link components and systems. The CLS-221 is housed in a sturdy aluminum enclosure.

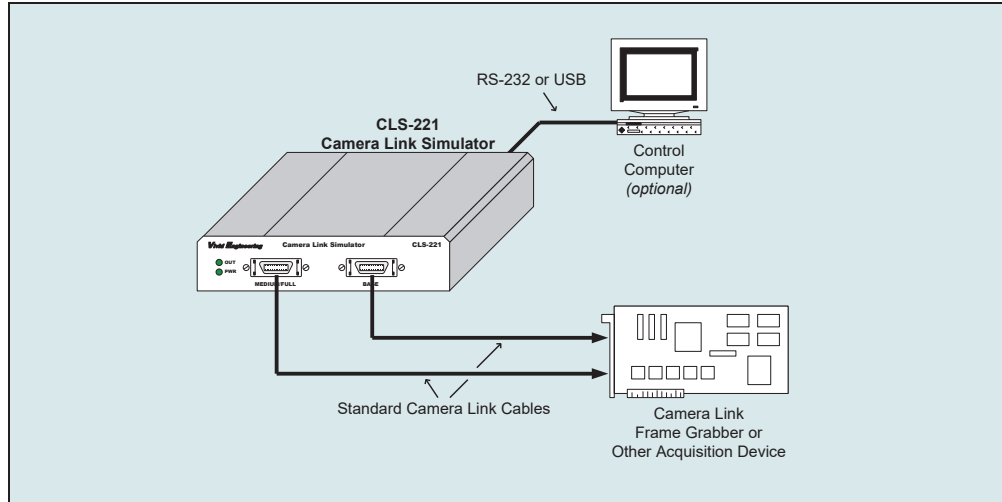
Features

- High-performance video test pattern generator
- Supports all Camera Link configurations (base/medium/full/72-bit/80-bit)
- Fully programmable video timing, mimics almost any camera
- Supports all video formats including new Camera Link v2.1
- Area and line scan formats, image sizes to 64Kx64K
- Video patterns include wedge, color-bars, and pseudo random
- Bayer color support
- “Roll” feature adds pattern motion
- Triggered (exsync) modes
- Supports AIA validation test pattern sequences
- Operates from 10 MHz to 95 MHz, above/below the normal Camera Link 20-85 MHz range for performance/margin testing
- Controlled via a simple Command Line Interface (CLI)
- Configured via PC RS-232 serial port, or USB (via optional adapter), or via frame grabber serial port
- Sturdy aluminum enclosure w/ mounting flange
- Multi-nation power supply and RS-232 cable included

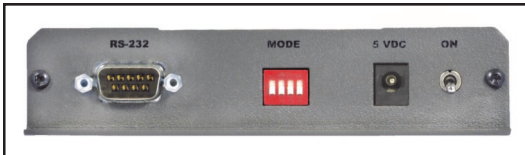


PRELIMINARY INFORMATION

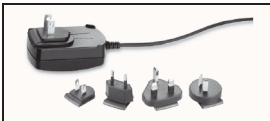
Typical Application



Rear Panel



Power Supply



Specifications

Feature	Specification
Video Interface	Camera Link base/medium/full/72-bit/80-bit
Video Connectors	26-pin MDR type
Frequency Range	10-95 MHz
Output Device	Texas Instruments DS90CR287
Serial Port Connector	RS-232 male 9-pin D-Sub (DB9)
Serial Port Cable	3 meter DB9 female - DB9 female null modem
USB Port	Via external USB to serial RS-232 adapter (optional)
Power Supply	Universal wall style w/ US & Europe outlet plugs
Power Jack	2.1 x 5.5 mm, center-positive
Power Requirements	5-7 VDC, 700 mA typical
Cabinet Dimensions	5.28" (L) x 1.18" (H) 7.12" (D)
Weight	16 oz
Operating Temp Range	0 to 50° C
Storage Temp Range	-25 to 75° C
Relative Humidity	0 to 90%, non-condensing



Ordering Information

Model	Description
CLS-221	Camera Link Simulator
CLS-221-N	Camera Link Simulator (without power supply)
USB-ADAPTER	USB to Serial RS-232 Adapter (optional)



415 Boston Turnpike #305 • Shrewsbury, MA 01545 • USA
 phone 508-842-0165 • fax 508-842-8930
 email info@vividengineering.com
 web www.vividengineering.com

rev 0.3, 4/6/18