



## HSLA

### *HOTLink II™ Serial Link Analyzer and Video Generator*

The HSLA is a data analyzer and diagnostic tool for 8B/10B encoded serial links, such as HOTLink II™. Great River's GRAVity Series hardware captures data at link speeds from 160 Mbps to 1.0625 Gbps. HL2View software makes data analysis quick and easy. The HSLA also includes a full-featured video generation tool to simulate sensors.



### *Key functions*

- Real-time data recorder with 18 to 125 seconds of capture
- Link analyzer
- Line spy
- Line splitter
- Line monitor
- Line repeater
- Sensor simulator
- Copper to optical converter

### *Example: HOTLink II IR sensor*

HOTLink II is an excellent data bus for infrared cameras and sensors because it is a two-wire low-overhead protocol solution with excellent noise immunity. HOTLink is often used in turret-mounted IR applications. It can also simulate sensors using video generation.

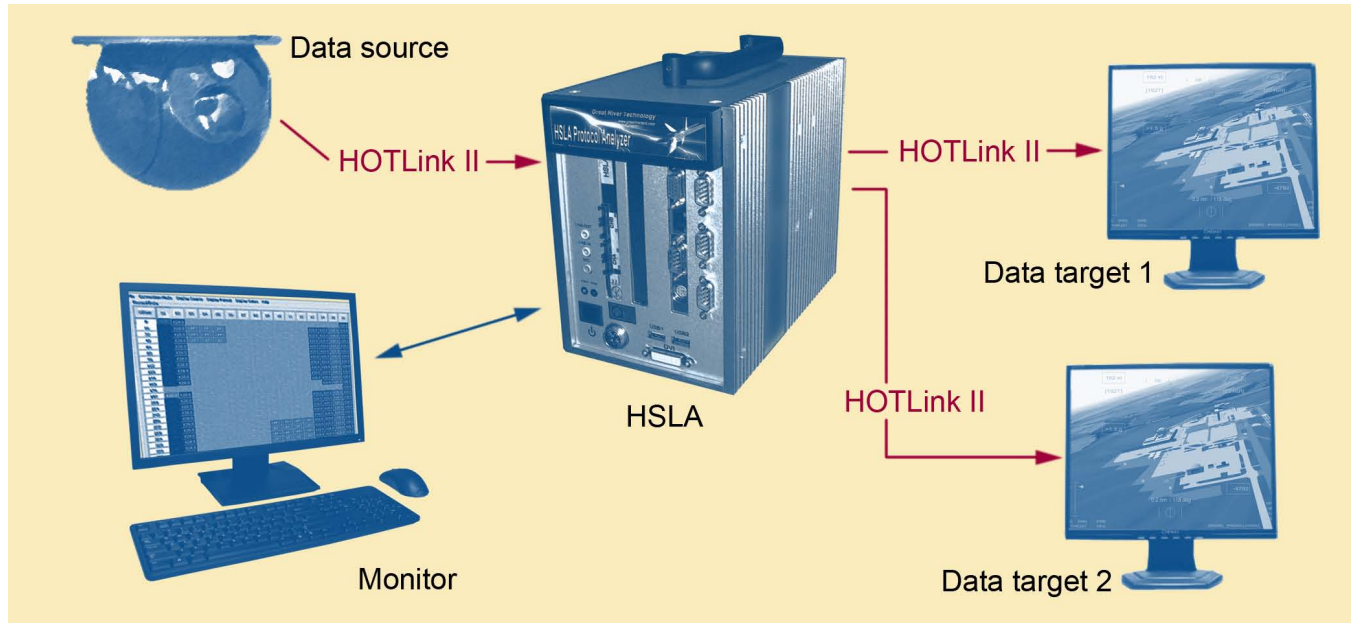
The HSLA will help engineers determine link integrity by monitoring 8B/10B encoding and video frame formatting, including:

- Frame rate
- Interline nulls
- SOM, EOL, and EOM characters
- Proper pixel encoding

### *Minimum specifications*

Memory	DDR2 667 MHz, 2GB SODIMM	Software OS	Win XP; 32-bit
IO interface	4 x RS232, 5 x USB, USB 2.0, 1 x PS/2, 25-pin D-sub for digital IO	Power requirement	100–250Vac @ 50–60Hz
Storage	Internal Solid State HDD SATA 2.5, 80GB	Mechanical	Aluminum housing 13.7 x 18.9 x 22.1 cm (5.4 x 7.5 x 8.7"), 4.2kg (9.3 lbs)
Expansion slot	2 PCI Slot, and 1 PCIe x 1 Slot	Operating temp.	0–55°C (32–122°F)

HOTLink II is a trademark of Cypress Semiconductor Corporation.



**Example: The HSLA in a line-spy and splitter configuration monitored through HL2View software.**

## Simple and quick analysis

HOTLink II interfaces come in a variety of formats. Each data source can have its own unique parameters. Engineers gain the ability to see data on the link. Debugging and troubleshooting are simplified and require less time.

Use the HSLA data generator to place a known data pattern on the link for throughput analysis and system diagnostics. The data generator operates at the hardware level and does not impact system bandwidth. Use it to configure a SOM, the number of bytes in a packet, an EOM, and number of idles between packets. Increment the data on each packet or each character. Modify and play back any recorded data trace.

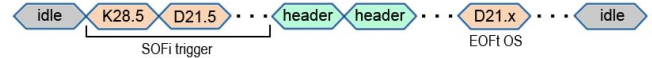
*Simple packet: no special characters*



*Simple packet: SOM and EOM characters*



*Fiber channel frame*



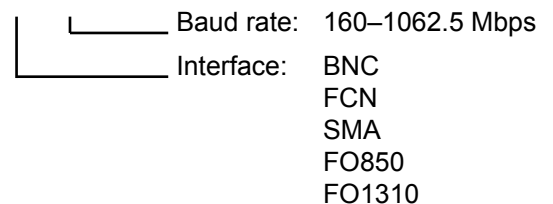
**Easily capture and analyze simple or complex protocols.**

Great River's HSLA is a state-of-the-art HOTLink II tool for data capture, analysis, and playback. Deploy it for a fraction of the cost of other protocol analyzers.

## How to buy

Create your part number by selecting an interface and any baud rate from 160 to 1062.5 Mbps:

HSLA\_XXX\_XXX

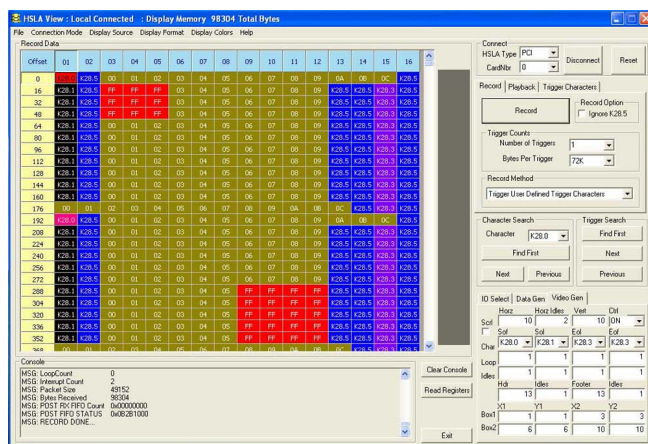


Example: HSLA\_FCN\_1062.5

To order, visit our [Distributors](#) page:

(<http://www.greatrivertech.com/resources.html>).

If no distributor is listed for your region or country, order directly from [Great River](#).



**Feature-rich HL2View software provides an intuitive GUI for setup and data capture. Color-coded data traces and flexible search features speed diagnostics and analysis.**