

# CLT-301R/L/M Camera Link Translators

The CLT-301R, CLT-301L, and CLT-301M Camera Link Translators enable the use of traditional RS-422 and LVDS digital cameras with Camera Link frame grabbers. The “R” and “L” versions support parallel RS-422 and LVDS digital camera data, respectively. The “M” version supports the mixed RS-422 / LVDS interface found in some cameras. The CLT-301’s incorporate the AIA standard 68-pin camera interface to maximize reuse of existing and standard camera cables. The CLT-301’s are extremely flexible and can translate a wide range of single-channel, dual-channel, and color cameras from parallel digital format to Camera Link using rear-panel mode switch settings. The CLT-301R/L/M Camera Link Translators are housed in a sturdy, compact aluminum enclosure and are well suited for industrial environments.

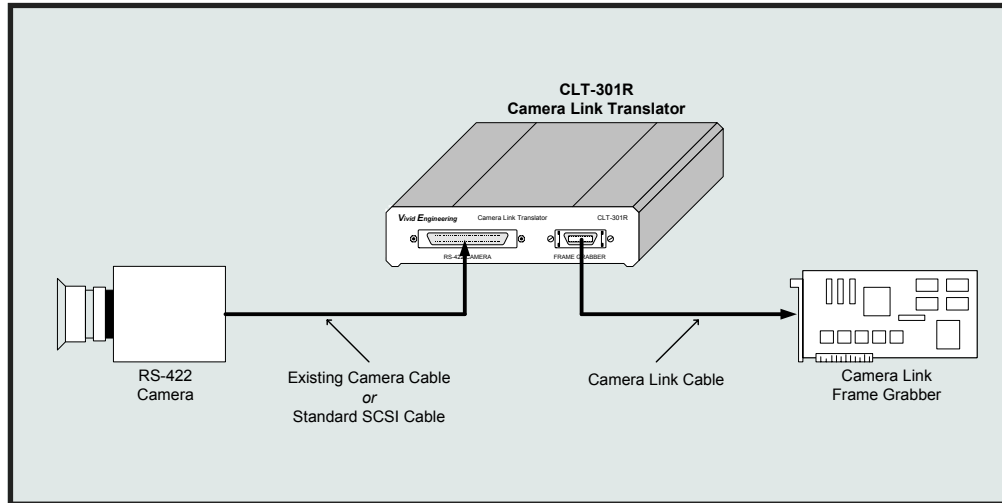


## Features

- Enable use of RS-422 and LVDS cameras with Camera Link frame grabbers
- Interfaces to a wide range of single-channel, dual-channel, and color cameras
- AIA standard 68-pin camera interface to maximize reuse of existing/standard cables
- “R” version supports RS-422 cameras
- “L” version supports LVDS cameras
- “M” version supports mixed RS-422 / LVDS cameras
- 66 MHz max pixel clock rate for “L” and “M” versions
- 32 MHz max pixel clock rate for “R” version
- Rear-panel dipswitch mode selection
- Supports cameras w/ pixel clock frequencies as low as 10 MHz (2.5 MHz version available)
- Selectable camera clock and timing signal polarities
- Sturdy, compact aluminum enclosure
- External power supply included
- FCC compliant
- 3-year warrantee



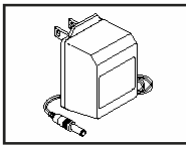
## Typical Application (RS-422)



## Rear Panel



## Power Supply



## Specifications

Feature	Specification
Camera Interface	AIA digital interface standard - "R" version = RS-422 - "L" version = LVDS (EIA-644) - "M" version = mixed LVDS/RS422
Camera Connector	68-pin HD type (SCSI-3 style)
Frame Grabber Interface	Camera Link Spec "base" configuration
Frame Grabber Conn.	26-pin MDR type
Frequency Range	- "L" and "M" versions: 10 - 66 MHz - "R" version: 10 - 32 MHz
Mode Selection	Rear-panel 8-position DIP switch
Chipset	National Semi. DS90CR285
Power Supply	External 6 VDC Wall Transformer
Power Jack	2.1 x 5.5 mm, center-positive
Power Requirements	- "R" version: 500 mA @ 6 VDC (typical) - "L & M" versions: 460 mA @ 6 VDC (typical)
Cabinet Dimensions	5.28" (L) x 1.12" (H) x 6.13" (D)
Weight	14 oz
Operating Temp Range	0 to 50° C
Storage Temp Range	-25 to 75° C
Relative Humidity	0 to 90%, non-condensing
Compliance	FCC Class A

## Ordering Information

Model	Description
CLT-301R	Camera Link Translator (RS-422 Cameras)
CLT-301L	Camera Link Translator (LVDS Cameras)
CLT-301M	Camera Link Translator (mixed LVDS/RS-422 Cameras)



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rev 1.0, 2/25/2005