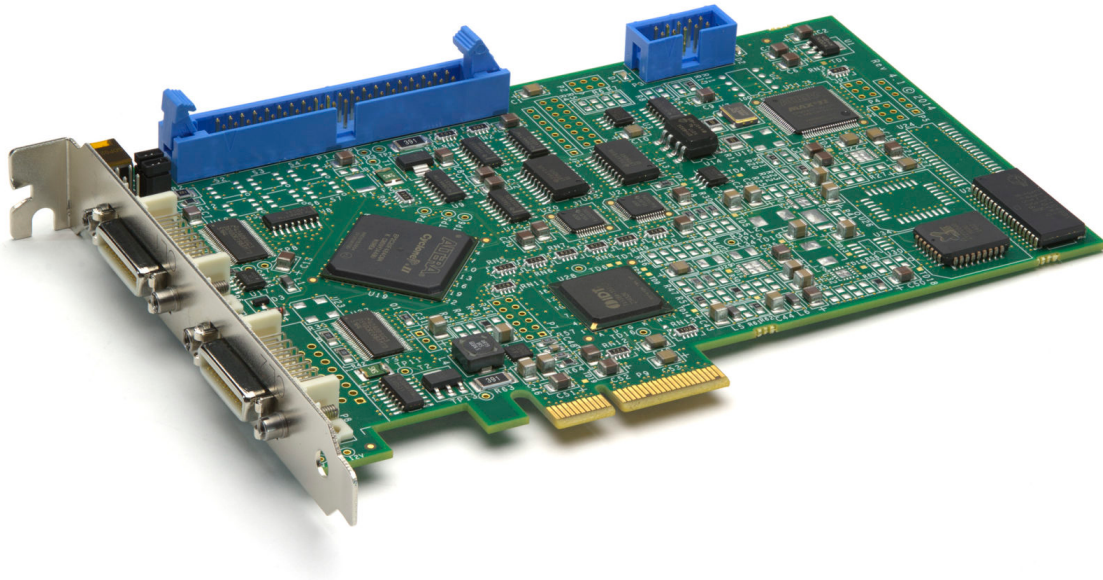


# ADVANTECH

# BitFlow

Frame grabbers for machine vision



**NEON CLD**

## The Neon-CLD

*Please note that this product is EOL and should not be used for new projects. For the replacement frame grabber, please use the [Axion 2xB](#)*

The Neon-CLD supports two cameras on the same low-cost x4 PCIe platform. Both cameras can be run completely independent (with different resolutions, frame rates, triggering modes, etc.) or perfectly synchronized. The Neon-CLD is incredibly flexible and powerful, yet it can substantially lower your system cost. Not only is the Neon-CLD very aggressively priced, but there are additional savings from connecting two cameras to one frame grabber.

Adding the Neon-CLD to your application is simple with our SDK, which supports both 32-bit and 64-bit operating systems. Develop your application using our sophisticated buffer management APIs, or download our free drivers, available for most 3rd party machine vision packages. The Neon-CLD is software compatible with the single camera Neon-CLB, thus making the number of cameras in a system a manufacturing time decision.

If you need the simplest, most reliable, and best performing dual Base Camera Link/PoCL frame grabber, call BitFlow today to get our Neon-CLD, BitFlow's 4th generation of robust, industrial CL imaging products.

## Specifications

- Supports two Base CL cameras
- Provides Power over Camera Link (PoCL) for both cameras

- Support both PoCL and non-PoCL cameras
- Provides Safe Power – full protection from all CL power line faults
- Both cameras can be independent or synchronized
- Separate I/O for each camera
- MDR Camera Link connectors
- The Neon-CLD appears to Windows as two separate frame grabbers
- Fully backwards compatible with non-PoCL cameras and cables
- Half-Size x4 PCI Express Board
- Acquire up to 24 bits at 85 MHz
- FlowThru technology means that no on-board memory is needed
- Sustained DMA rates up to 350 MB/S for each camera (700 MB/S total)
- Supports images up to 256K x 128K
- No frame rate limit
- Triggers and encoders for external control of acquisition
- Programmable signal generator for camera control (independent for each camera)
- Quadrature encoder support including sophisticated triggering schemes
- Encoder divider/multiplier
- Drivers, utilities and examples for Windows and Linux
- Supported on both 32-bit and 64-bit platforms
- Drivers for most 3rd party processing environments (e.g. HALCON, LabView, VisionPro, MATLAB, etc.)
- Acquire variable length frames with line scan cameras
- Acquire image sequences well beyond the 4GB barrier
- RoHS compliant