

Fiber Optic CameraLink™ video transmission

SECOND GENERATION

*COMPACT MODEL

*LOWER POWER

*LOWER COSTS



TYPICAL APPLICATIONS:

- ✓ Long haul Imaging Applications
- ✓ Harsh Environment Machine Vision
- ✓ Intelligent Traffic Control Systems
- ✓ Medical X-ray Imaging Equipment
- ✓ Aircraft/ UAV Vision Systems
- ✓ Naval/Submarine Vision Systems
- ✓ Military Test Site Applications
- ✓ Secure Video Links
- ✓ Deep Sea Investigation
- ✓ Remote Monitoring Space Observation

INTRODUCTION:

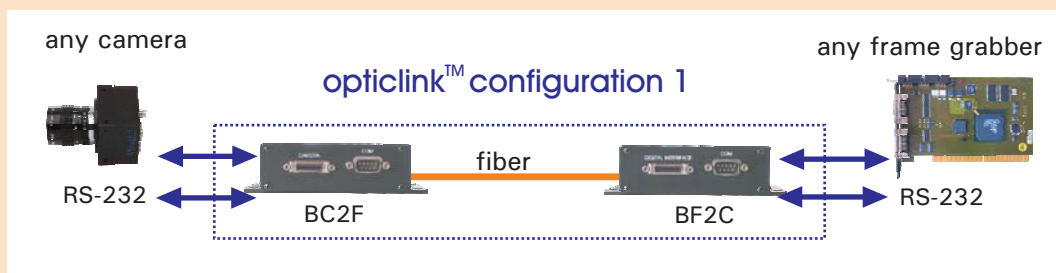
The opticlink™ CL-Base set is the solution for long haul and for secure CameraLink digital video transmission. The CL-Base model is part of the second generation of opticlink™, including a 10 years experience with first generation sets used in all kind of applications, all over the world. Please note that ARVOO Imaging Products is the inventor of opticlink™.

For CameraLink digital video transmission, a copper cable can be used upto a few meters distance between camera and frame grabber. This is too short for many real world applications. The opticlink™ set offers the solution by bridging a distance of upto tens of meters, hundreds of meters or even kilometers based on an optical fiber connection.

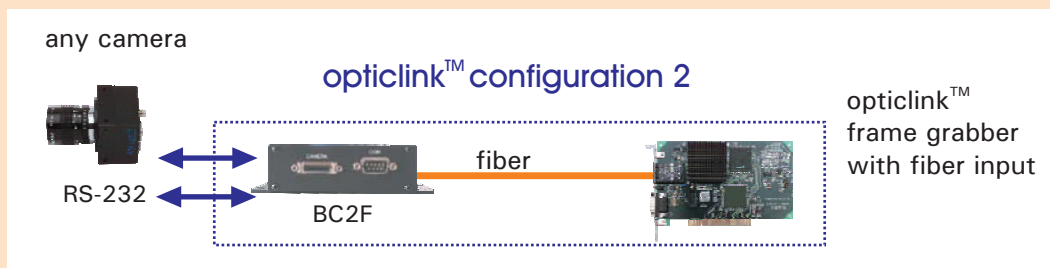
The opticlink™ CL-Base is the only solution for reliable video links for security systems and harsh environments, since fiber optic communication cannot be monitored or distorted by electromagnetic noise or radiation.

The opticlink™ CL-Base accepts CameraLink Base digital video and is fully transparent for the data transmission. The CL-Base is housed in a strong metal enclosure and can be used in industrial environments. For more rugged solutions, please contact ARVOO Imaging Products BV.

opticlink™ CL-Base configurations:



For opticlink™ configuration 1 there is a sender (BC2F) unit and a receiver (BF2C) unit between the camera and the frame grabber. Any camera and frame grabber that are CameraLink Base compatible can be used*.



For opticlink™ configuration 2 the receiver unit is replaced by an ARVOO frame grabber with direct fiber input. Any camera that is CameraLink Base compatible can be used*.

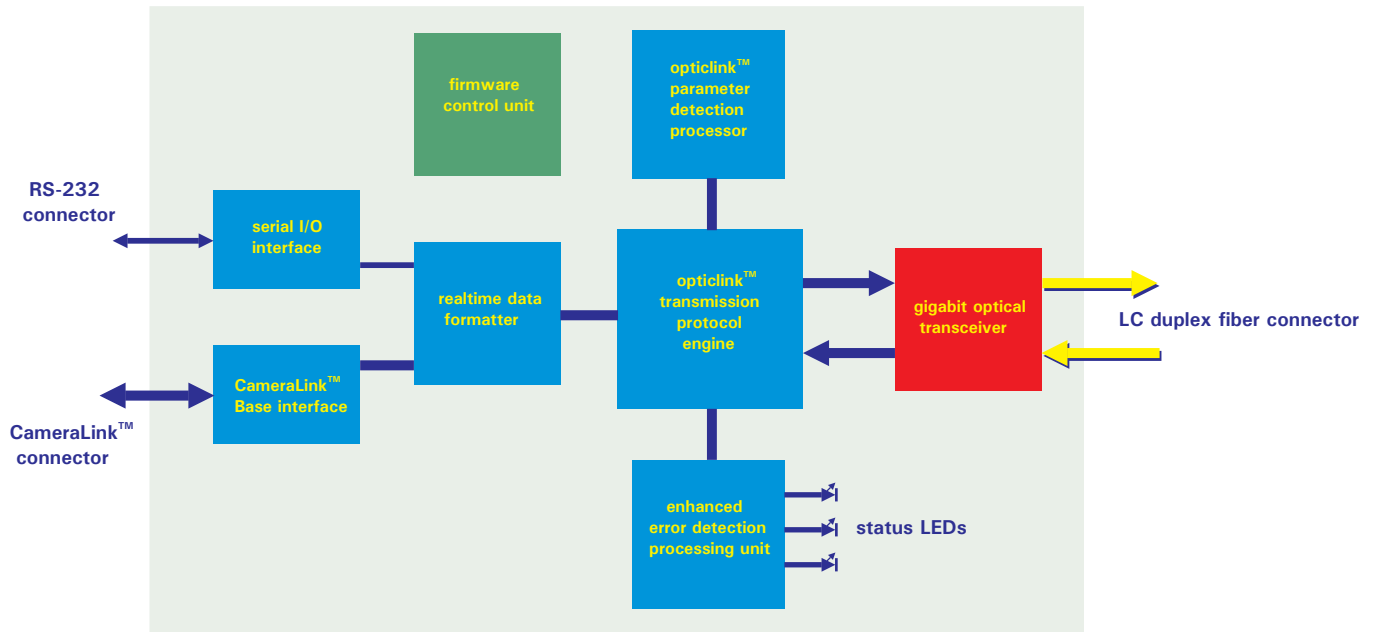
* pixelclock should be within the opticlink™ range as specified

- ✓ multiple opticlink™ sets can be used with one processing computer
- ✓ opticlink™ frame grabber boards from ARVOO Imaging Products BV are available for PCI-X, PCI-Express and Compact PCI, for technical details please refer to the opticlink™ frame grabber product flyer of ARVOO

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Features

SYSTEM OVERVIEW of the opticlink™ CL-Base Media Converter (BC2F unit)



CameraLink™
interface

BASE 24 bit
Tap A-B-C
standard MDR-26 connector
area/line scan supported

Pixel Clock
(STROBE)

20-77 MHz multimode fiber
(default temp. range)*

Video Timing
Signals

FVAL
LVAL
DVAL
STROBE

Camera Control
Signals

CC1-CC4

Serial Channel
in CameraLink

SerTFG/SerTC
115 kbps maximum

Serial Channel
via COM port

TX/RX
115 kbps maximum
external sub-D9 connector

Fiber Connector

One LC duplex fiber connector

Fiber Support
(order option)

Multimode, 850 nm
Single mode*, 1310 nm

Electrical

6-24 V DC
3 Watt (unit) typical

Temperature
(default)

0 to 70 °C operating temperature
-40 to 85 °C storage temperature

Industrial temp.
(optional)

-20 to 85 °C operating temperature
-55 to 105 °C storage temperature

Relative humidity
(non-condensing)

less than 90%

Mechanical

110*110*35 mm (unit) exclusive
connectors and screw mount

Certification

CE, RoHS

* for single mode support, ask support@arvo.com for actual availability information and current specifications

for more technical details, please refer to the User Manual

an ARVOO imaging product

Ordering Information:

product:

order code:

Multi mode fiber model:

SET:

CL-Base-mm

SINGLE UNITS:

BC2F-mm (camera side unit)
BF2C-mm (computer side unit)

Single mode fiber model:

SET:

CL-Base-sm

SINGLE UNITS:

BC2F-sm (camera side unit)
BF2C-sm (computer side unit)

Your local distributor:

The ARVOO logo features the word "ARVOO" in a bold, italicized, black serif font. To the left of the text are three vertical bars of varying heights in orange and blue. A large, stylized orange arrow points upwards and to the right, partially overlapping the text and the bars.

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