

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

**SUPPORTS CAMERALINK FULL-PLUS
10-TAPS = 80 DATA BIT @ 85 MHZ
OVER ONE DUPLEX OPTICAL FIBER**

INTRODUCTION:

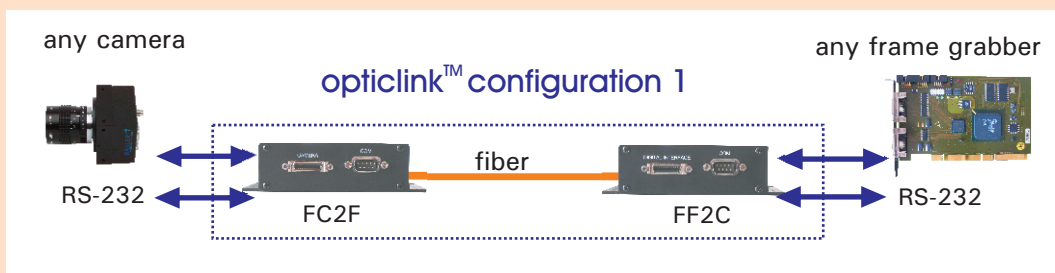
The opticlink™ CL-Full+ set is the solution for long haul and for secure CameraLink digital video transmission. The CL-Full+ model is part of the second generation of opticlink™, including a 10 years experience with first generation sets used in all kind of applications, all over the world. Please note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

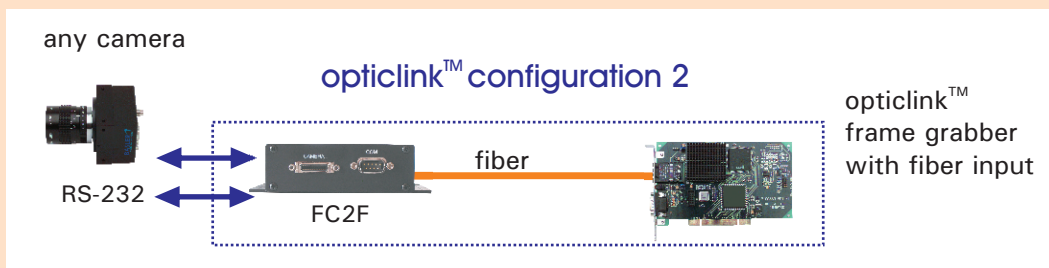
The opticlink™ CL-Full+ is the only solution for reliable video links for security systems and harsh environments, since fiber optic communication cannot be monitored or distorted by electromagnetic noise or radiation.

The opticlink™ CL-Full+ accepts CameraLink Base-Medium-Full-Full+ digital video and is fully transparent for the data transmission. The CL-Full+ 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-Full+ configuration ideas:



For opticalink™ configuration 1 there is a sender (FC2F) unit and a receiver (FF2C) unit between the camera and the frame grabber. Any camera and frame grabber that are CameraLink compatible can be used*.



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

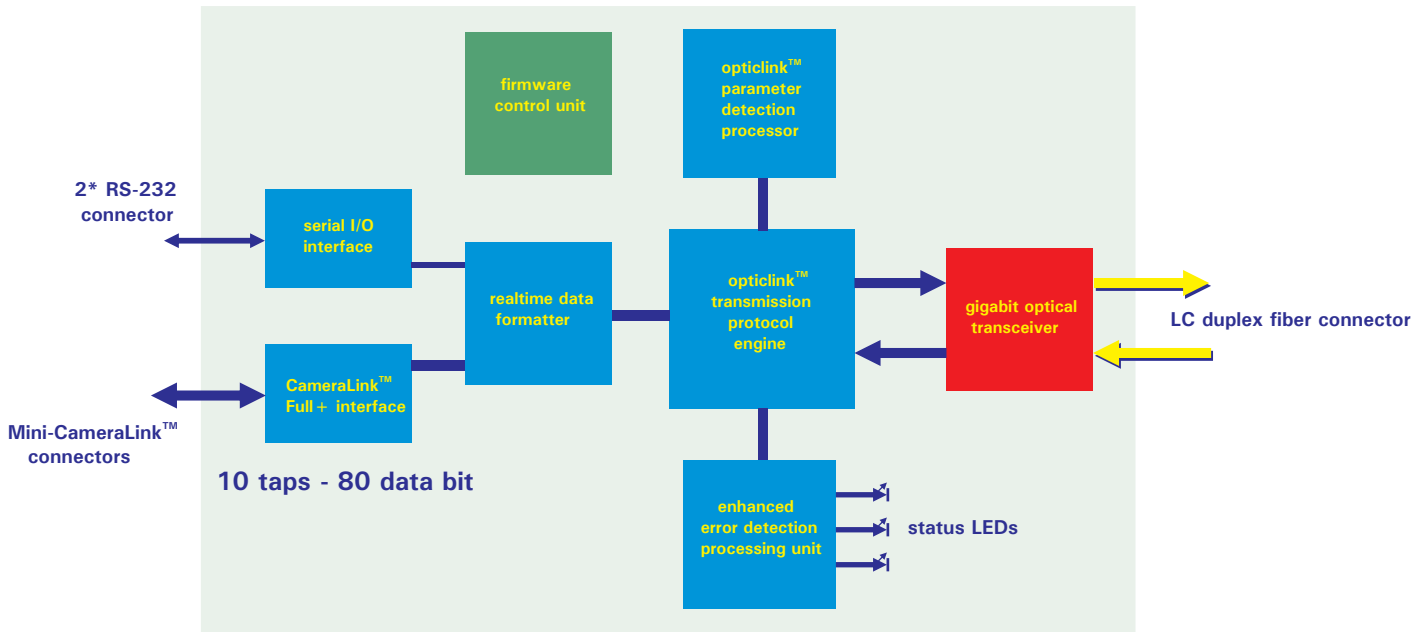
* CameraLink mode and pixelclock should match

- ✓ multiple opticalink™ sets can be used with one processing computer
- ✓ opticalink™ 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 opticalink™ frame grabber product flyer of ARVOO

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Features

SYSTEM OVERVIEW of the opticlink™ CL-Full+ Media Converter (FC2F unit)



CameraLink™
interface

Base-Medium-Full-Full +
Tap A-B-C D-E-F G-H-I-J
2* SDR-26pin mini connector
area/line scan supported

Pixel Clock
(STROBE)

20-85 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

2 ports TX/RX
115 kbps maximum
external sub-D9 connector

Fiber Connector
Fiber Support
(order option)

One LC duplex fiber connector
Multimode, 850 nm
OM3 fiber cable recommended
Single mode*, 1310 nm

Electrical

8-24 VDC, 12 VDC typical
6.5 Watt (mm unit) typical

Temperature
(default)

0 to 50 °C operating temperature
-40 to 85 °C storage temperature

Industrial temp.
(optional)

to be released, contact ARVOO
for latest availability information

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@arvoo.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-Full + -mm

SINGLE UNITS:

FC2F-mm (camera side unit)
FF2C-mm (computer side unit)

Single mode fiber model:

SET:

CL-Full + -sm

SINGLE UNITS:

FC2F-sm (camera side unit)
FF2C-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 is a stylized graphic consisting of three vertical bars of varying heights and colors: a tall orange bar on the left, a shorter orange bar in the middle, and a tall blue bar on the right. A large, light orange triangle is positioned behind the text, pointing downwards and to the right.

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