

# RCX C-Link Coax2

Remote camera extender for Camera Link to coax



## Description

The RCX C-Link Coax2 is a remote camera extender for Camera Link over new or existing runs of coaxial cable. The camera can be up to 180 meters from the host computer.

The RCX C-Link Coax2, similar in size to a Camera Link cable connector, attaches directly to the MDR26 connector on the back of the camera.

Two coaxial cables link the two SMA connectors to a second module, forming an extension cord which connects to an EDT or third-party Camera Link framegrabber. If the camera is free-running and you do not need to control it via serial or CC lines, only one coaxial cable is needed.

The RCX C-Link Coax2 supports a variety of base-mode cameras.

Line and frame triggering are supported over camera control lines.

## Features

- Module adapts Camera Link data to a coaxial interface
- Attaches to the camera's MDR26 connector, replacing Camera Link cables
- Combines with a second module to form a coaxial extension cord
- Allows remote operation - camera can be up to 180 meters from host
- Supports line and frame triggering over camera control lines
- Supports data rates up to 120 MB/s

## Applications

- Astronomy / biology / microscopy
- Aerial mapping / traffic systems
- Commercial film / multimedia
- Medical and nuclear imaging
- Remote scientific monitoring
- Manufacturing / inspection
- Machine vision / robotics
- Security / surveillance
- Scanning / archiving

## Specifications

Product Type	RCX C-Link Coax2 is a remote camera extender for Camera Link to coaxial cable.	
Memory	FIFOs for up to several lines of data; no frame memory	
Data Rates	Operates at 1.25 Gb/s, passing video data at up to 120 MB/s for base mode	
Data Format (I/O)	Camera Link	
Camera Link Compliance	Modes Data Serial CC1 - CC4 Connector	Base – common configurations 20 to 60 MHz, depending on configuration 9600 to 19,200 baud Discretely programmable for steady-state, trigger, and timed pulse One MDR26
EU Compliance	CE RoHS WEEE	EMC directive 2004/108/EC and low voltage directive 73/23/EEC Contact EDT WEEE directive 2002/96/EC
Noise	0 dB	
Coaxial	Impedance Connectors Tolerance Cabling	50 ohms Two SMA Up to 30 dB loss Purchased separately
Triggering / Serial	Via Camera Link, or externally via optional 7-pin Lemo power connector	
Power	Consumption (amps = watts / volts) Supply	Less than 3 W at 4.75 to 18 V DC 4.75 to 18 V DC
Connector	2-conductor Switchcraft 712RA (mate to Switchcraft 760K) or optional 7-pin Lemo ECG.0B.307.CLV (mate to FGG.0B.307.CLAD.56)	
Cabling	Cabling is purchased separately; consult EDT for options.	
Physical	Weight Dimensions	4 oz. typical 2.4 x 1.6 x 0.75 in.
Environmental	Temperature (operating / non-operating) Humidity (operating / non-operating)	10° to 40° C (extended -40° to 60° C) / -40° to 60° C 20% to 80% non-condensing at 40° C / 95% non-condensing at 40° C
System and Software	System requirements and software driver packages are discussed in the specifications for your framegrabber.	

## Ordering Options

- Coaxial – impedance: 50 ohms
- Power – supply: AC input = **110** / 220 V
- Cabling: Purchased separately

**Bold is default. Ask about custom options.**