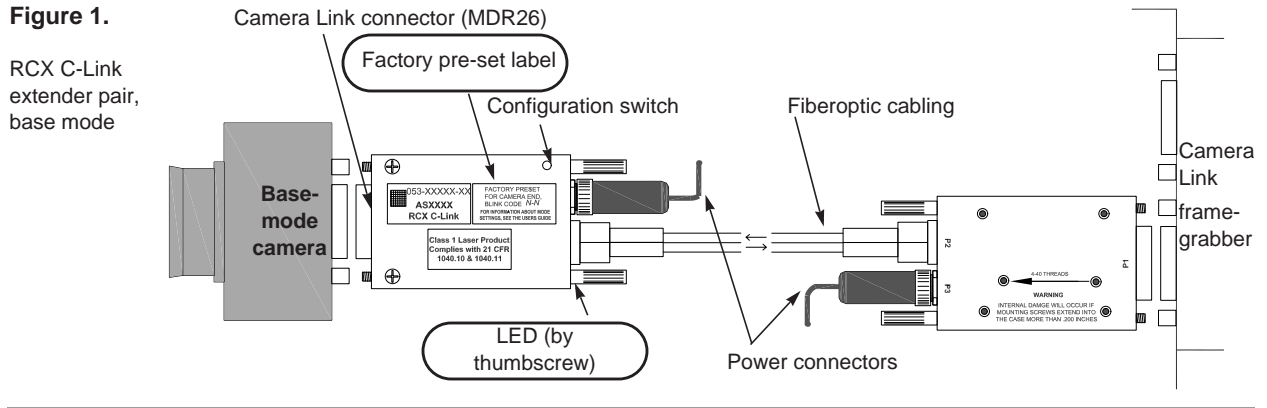


RCX C-Link Extender Pair: Base Mode Configuration

Each RCX C-Link unit comes with factory presets, as well as the ability to reset them. For a quick start, see [Figure 1](#) and follow the steps below. For complete documentation of EDT extenders and framegrabbers, see www.skyblue.de



Step 1 – Verify presets. On each unit’s factory preset label (circled in [Figure 1](#) above), find “Blink Code X-Y.”

“X” is the device to which the unit connects (1 for camera, 2 for framegrabber); Y is the link rate between units. The camera’s output pixel clock rate must fall within this range.

[Table 1](#) below shows the blink codes.

Unit connects to	Blink codes for RCX C-Link			
	Code (X-Y)	Pixel clock rate	Bits per clock	Link rate between units
camera	1-1	20–40 MHz	8–24	1.25 Gb/s
camera	1-2	20–60 MHz	8–16	1.25 Gb/s
camera	1-3	20–60 MHz	8–24	2.50 Gb/s
camera	1-4	60–80 MHz	8–24	2.50 Gb/s
framegrabber	2-1	40 MHz	8–24	1.25 Gb/s
framegrabber	2-2	60 MHz	8–16	1.25 Gb/s
framegrabber	2-3	60 MHz	8–24	2.50 Gb/s
framegrabber	2-4	80 MHz	8–24	2.50 Gb/s

Each extender unit must be used as its settings dictate. Data will not transfer if a unit is plugged into the wrong device (i.e., a camera-end unit into a framegrabber, or a framegrabber-end unit into a camera); if the camera’s pixel clock rate falls outside the preset range; or if the pixel clock rate and the link rate for the two VisionLink RCX units do not match. In such cases you must reset and relabel each unit.

Step 2 – With all power off, connect all devices. Connect the camera-end extender unit to the camera; the framegrabber-end unit to the framegrabber; the cabling between the two units; and lastly, the units to the power supply.

Step 3 – Power on all devices. In any order, power on all cameras, computers, and RCX units. Each unit’s LED (circled in [Figure 1](#)) should blink briefly, then stay steady green; if not, see the RCX C-Link user’s guide for troubleshooting.

NOTE – If you use an EDT FOX framegrabber, this guide applies to the camera end but not the framegrabber end (since the FOX has the extender built in). Also, medium- and full-mode cameras (indicated by two connectors on the back) require specially configured extender units; using four base-mode units will not work. Contact EDT for options.