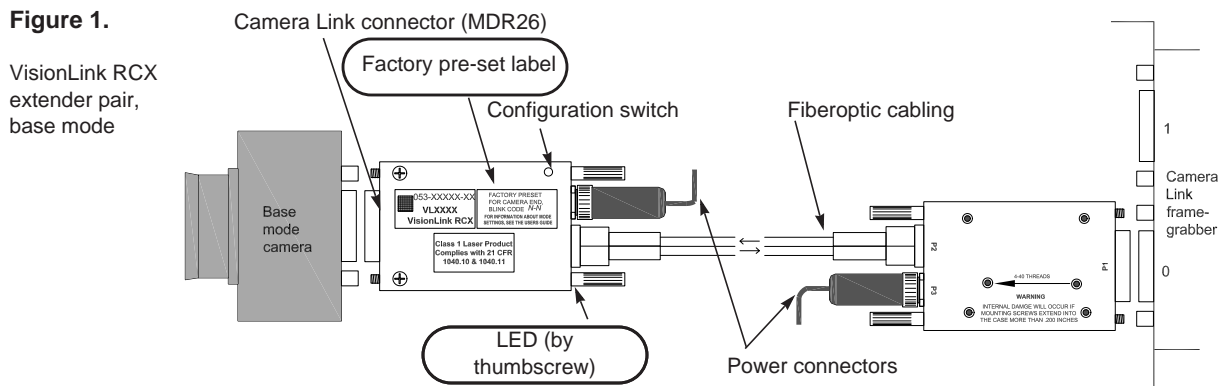


# VisionLink RCX Extender Pair: Base Mode Configuration

Each VisionLink RCX 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](http://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 blink codes for standard usage (left side of table) and RCX C-Link emulation (right side of table). If you are using a VisionLink RCX with an RCX C-Link, then blink codes X-1 and X-4 are compatible with existing RCX C-Links in matching blink codes.

Unit connects to	Blink codes for standard usage				Blink codes for RCX C-Link emulation			
	Code (X-Y)	Pixel clock rate	Bits per clock	Link rate between units	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	3-1-1	20–40 MHz	8–24	1.25 Gb/s
camera	1-2	20–80 MHz	8–24	2.50 Gb/s	3-1-2	20–60 MHz	8–16	1.25 Gb/s
camera	1-3	20–85 MHz	8–24	3.00 Gb/s	3-1-3	20–60 MHz	8–24	2.50 Gb/s
camera	1-4	20–80 MHz	8–24	2.50 Gb/s	3-1-4	60–80 MHz	8–24	2.50 Gb/s
framegrabber	2-1	40 MHz	8–24	1.25 Gb/s	3-2-1	40 MHz	8–24	1.25 Gb/s
framegrabber	2-2	80 MHz	8–24	2.50 Gb/s	3-2-2	60 MHz	8–16	1.25 Gb/s
framegrabber	2-3	85 MHz	8–24	3.00 Gb/s	3-2-3	60 MHz	8–24	2.50 Gb/s
framegrabber	2-4	80 MHz	8–24	2.50 Gb/s	3-2-4	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 VisionLink RCX user’s guide for troubleshooting.