



COMPATIBILITY TEST

LABORATORY SERIES

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Testing Documentation

- Subject: Machine Vision Cameras Compatibility versus Newnex Length Solutions
- Goal: To ensure compatibility between Newnex’s Connectivity Solutions and JAI USB 3.0 Camera
- Duration: over 24 hours
- Location: Newnex’s Technical Laboratory, 3041 Olcott st, Santa Clara, CA 95054, USA
- Camera teste: JAI USB 3.0: Model # GO-5000M-USB
- Newnex products tested:
 - US2-AMCBI1-3M: USB 3.0 A to Micro B with USB3 Vision Locking Cable, 3M
 - US226AMCBI1-5M: USB 3.0 A to Micro B with USB3 Vision Locking Cable, 5M
 - US226AMCBI1I5M: USB 3.0 A to Micro B Right Angle R-1 with USB3 Vision Locking cable, 5M
 - FireNEX-H3M-08: USB 3.0 High Flex Active Repeater Cable, 8M
 - FireNEX-uLINK 8M: USB 3.0 Active Repeater Cable, 8M
 - FireNEX-uLINK 12M: USB 3.0 Active Repeater Cable, 12M
 - FireNEX-uLINK-DS: USB 3.0 Active Repeater Dongle
 - FireNEX-UL 16M: USB 3.0 Active Repeater Cable, 16M
 - FireNEX-5000H: USB 3.0 Optical Repeater with Power Delivery Option, 300M

Detail Testing Parameters

Newnex’s Testing Parameters	
Host System	Windows 7 – 64bits, With Intel H77 Chipset, CPU: i7-3450
USB 3.0 Controller chipset	Intel, Fresco Logic, Renesas

Test Results

Desired Distance	Machine Vision Cameras	
	Types	JAI
	Model#	GO-5000M-USB
	Version (mono/color)	mono
3M	US2-AMCBI1-3M	COMPATIBLE
5M	US226AMCBI1-5M, US226AMCBI1I5M	COMPATIBLE
8M	FireNEX-uLINK 8M	COMPATIBLE
8M	FireNEX-H3M-08	COMPATIBLE
10M	FireNEX-uLINK-DS ⁽¹⁾	COMPATIBLE
10M	FireNEX-uHUB ⁽²⁾	COMPATIBLE
12M	FireNEX-uLINK 12M	COMPATIBLE
16M	FireNEX-uLINK 16M	COMPATIBLE
100-300M	FireNEX-5000H ⁽³⁾	COMPATIBLE
Testing Specification		
	Color Code During Test	12-bit monochrome
	Transfer Rate During Test (fps)	62
	Resolution During Test (pixels)	2560 (h) x 2048 (v)

(1): FireNEX-uLINK-DS was set up using two 5 meters USB 3.0 cables.

(2): FireNEX-uHUB was set up using two 5 meters USB 3.0 cables.

(3): FireNEX-5000H: Tested up to 300 meters without power delivery option and up to 100 meters with power delivery option.

Conclusion

With over 24 hours of comprehensive testing with USB 3.0 PCIe cards from Fresco Logic, Renesas and USB 3.0 host from Intel, Newnex US2-AMCBI1-3M, US226AMCBI1-5M, US226AMCBR1I5M, FireNEX-UL-8M, FireNEX-H3M-08, FireNEX-uLINK-DS, FireNEX-uHUB, FireNEX-UL-12M, FireNEX-UL-16M, and FireNEX-5000H demonstrated to be fully compatible with JAI USB 3.0 Cameras, Model # GO-5000M-USB