



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 Lumenera USB 3.0 Cameras
- Duration: over 24 hours
- Location: Newnex’s Technical Laboratory, 3041 Olcott st, Santa Clara, CA 95054
- Camera tested: Lumenera USB 3.0: Model # Lt225C
- Newnex products tested:
 - US2-AMCB11-3M: USB 3.0 A to Micro B with USB3 Vision Locking Cable, 3M
 - US226AMCB11-5M: USB 3.0 A to Micro B with USB3 Vision Locking Cable, 5M
 - US226AMCBR115M: 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-UL-8M: USB 3.0 Active Repeater Cable, 8M
 - FireNEX-uLINK-DS: USB 3.0 Active Repeater Dongle
 - FireNEX-uHUB: USB 3.0 Industrial Hub
 - FireNEX-UL 12M: USB 3.0 Active Repeater Cable, 12M
 - 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

Operating System	Windows 7 – 64bits with Intel H77 Chipset CPU: i7-3450		
PCle Card	Fresco Logic, Renesas	USB 3.0 Host	Intel

Test Results

Desired Distance	Machine Vision Cameras	
	Types	Lumenera Lt225 USB 3.0
	Model#	# Lt225C
	Version (mono/color)	color
3M	US2-AMCB11-3M	COMPATIBLE
5M	US226AMCB11-5M, US226AMCBR115M	COMPATIBLE
8M	FireNEX-UL-8M	COMPATIBLE
8M	FireNEX-H3M-08	COMPATIBLE
10M	FireNEX-uLINK-DS ⁽¹⁾	COMPATIBLE
10M	FireNEX-uHUB ⁽²⁾	COMPATIBLE
12M	FireNEX-UL-12M	COMPATIBLE
16M	FireNEX-UL-16M	COMPATIBLE
100-300M	FireNEX-5000H ⁽³⁾	COMPATIBLE
Testing Specification		
	MP	2.2 MP
	Color Code During Test	RBG 8 (color)
	Transfer Rate During Test (fps)	84-85
	Resolution During Test (pixels)	2048x1088

(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 Lumenera USB 3.0 cameras, Mode #Lt225C.