



COMPATIBILITY TEST

LABORATORY SERIES

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Testing Documentation

- Goal: To ensure compatibility between Newnex’s connectivity solutions and Hamamatsu USB3.0 cameras
- Duration: over 24 hours
- Location: Newnex’s Technical Laboratory, 3041 Olcott st, Santa Clara, CA 95054, USA
- Camera tested: Hamamatsu USB3.0 cameras, Model #C11440-50U
- Newnex products tested with the Hamamatsu USB3.0 cameras (see the table of test results below)

Detail Testing Parameters

Host Operating System and CPU	Windows 10 – 64bits Intel® Core™ i7-5820K		
Host USB 3.0 Port	Atech Flash (Asmedia Chipset)	Intel USB 3.0 Host	Fresco Logic, Renesas

Test Results

Distances Tested	Machine Vision Cameras		
		Type	Hamamatsu
		Model#	C11440-50U
	Product Part#	Product Descriptions	Result
3M	US26AMCB11-3MN	USB 3.0 A to Micro B with USB3 Vision Locking Cable, 3m	COMPATIBLE
5M	US26AMCB11-5MN	USB 3.0 A to Micro B with USB3 Vision Locking Cable, 5m	COMPATIBLE
8M	FireNEX-ULS-8	USB 3.0 A to Micro B Locking Active Repeater Cable Slim, 8m	COMPATIBLE
12M	FireNEX-ULS-12	USB 3.0 A to Micro B Locking Active Repeater Cable, 12m	COMPATIBLE
16M	FireNEX-ULS-16	USB 3.0 A to Micro B Locking Active Repeater Cable, 16m	COMPATIBLE
10M,24M	FireNEX-uHUB™ (1)	USB 3.0 Industrial Hub	COMPATIBLE
10M	FireNEX-uLINK-DS™ (2)	USB 3.0 Active Repeater Dongle	COMPATIBLE
100M–300M	FireNEX-5000H™ (3)	USB 3.0 Optical Repeater with Power Delivery Option	COMPATIBLE
Testing Specification			
Resolution During Test (pixels)			1920 x 1440
Color Mode			Color
Transfer Rate (fps)			45.4

Notes:

- (1) Tested in two cable set-ups: One setup is with two 5-meter USB 3.0 cables, and the other set-up is with two 12-meter USB 3.0 active repeater cables. For each set-up, the hub is in the middle of the PC and the camera.
- (2) Tested in two 5-meter USB 3.0 cables with the USB 3.0 Extension Dongle in the middle of the PC and the camera.
- (3) Tested up to 300-meter without power delivery option and up to 100-meter with power delivery option.

Conclusion

With over 24 hours of comprehensive testing with USB 3.0 PCIe cards from Fresco Logic, Atech Flash and USB 3.0 host from Intel, Newnex US26AMCB11-3MN, US26AMCB11-5MN, U4S1A01MB2-070, FireNEX-ULS-8, FireNEX-UL-12, FireNEX-UL-14, FireNEX-UL-16, FireNEX-uHUB™, FireNEX-uLINK-DS™ and FireNEX-5000H-H™ were demonstrated to be fully compatible with the Hamamatsu USB 3.0 camera, Model# C11440-50U