



# COMPATIBILITY TEST

LABORATORY SERIES

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## Testing Documentation

- Goal: To ensure compatibility between Newnex’s connectivity solutions and Ximea USB3.0 cameras
- Duration: over 24 hours
- Location: Newnex’s Technical Laboratory, 3041 Olcott st, Santa Clara, CA 95054, USA
- Camera tested: Ximea USB3.0 cameras, Model # MQ013MG-E2 & MQ013CG-E2
- Newnex products tested with the Ximea XiQ 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	Ximea XiQ
		Model#	MQ013MG-E2 MQ013CG-E2
	Product Part#	Product Descriptions	Result
3M	<a href="#">US26AMCBI1-3MN</a>	USB 3.0 A to Micro B with USB3 Vision Locking Cable, 3m	COMPATIBLE
5M	<a href="#">US26AMCBI1-5MN</a>	USB 3.0 A to Micro B with USB3 Vision Locking Cable, 5m	COMPATIBLE
8M	<a href="#">FireNEX-ULS-8</a>	USB 3.0 A to Micro B Locking Active Repeater Cable Slim, 8m	COMPATIBLE
12M	<a href="#">FireNEX-ULS-12</a>	USB 3.0 A to Micro B Locking Active Repeater Cable, 12m	COMPATIBLE
16M	<a href="#">FireNEX-ULS-16</a>	USB 3.0 A to Micro B Locking Active Repeater Cable, 16m	COMPATIBLE
18M	<a href="#">FireNEX-ULS-18</a>	USB 3.0 A to Micro B Locking Active Repeater Cable Slim, 18m	COMPATIBLE
10M,24M	<a href="#">FireNEX-uHUB™ (1)</a>	USB 3.0 Industrial Hub	COMPATIBLE
10M	<a href="#">FireNEX-uLINK-DS™ (2)</a>	USB 3.0 Active Repeater Dongle	COMPATIBLE
100M–300M	<a href="#">FireNEX-5000H™ (3)</a>	USB 3.0 Optical Repeater with Power Delivery Option	COMPATIBLE
Testing Specification			
Resolution During Test (pixels)			1280 x 1024
Color Mode			Mono 8
Frame Rate During Test (fps)			61.5

### 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 US26AMCBI1-3MN, US26AMCBI1-5MN, U4S1A01MB2-070, FireNEX-ULS-8, FireNEX-UL-12, FireNEX-UL-14, FireNEX-UL-16, FireNEX-ULS-18, FireNEX-uHUB™, FireNEX-uLINK-DS™ and FireNEX-5000H-H™ were demonstrated to be fully compatible with the Ximea XiQ USB 3.0 camera, Model# MQ013MG-E2 & MQ013CG-E2