



# COMPATIBILITY TEST

LABORATORY SERIES

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## Testing Documentation

- Goal: To ensure compatibility between Newnex’s connectivity solutions and Point Grey 3.0 cameras
- Duration: over 24 hours
- Location: Newnex’s Technical Laboratory, 3041 Olcott st, Santa Clara, CA 95054, USA
- Camera tested: Point Grey B3.0 cameras, Model # FL3-U3-32S2C-CS, FL3-U3-32S3M-CS, GS3-U3-28S4M-C, LDS-U3-51S5C-44R and LDS-U3-51S5C-44B.
- Newnex products tested with the Point Grey 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

## Test Results

Distances Tested	Machine Vision Cameras				
	Point Grey				
		Types	Flea3	Grasshopper3	Ladybug5
		Model#	FL3-U3-32S2C-CS FL3-U3-32S3M-CS	GS3-U3-28S4M-C	LDS-U3-51S5C-44R LDS-U3-51S5C-44B
	Product Part#	Product Descriptions	Result		
3M	<a href="#">US26AMCB11-3MN</a>	USB 3.0 A to Micro B with USB3 Vision Locking Cable, 3m	COMPATIBLE	COMPATIBLE	COMPATIBLE
5M	<a href="#">US26AMCB11-5MN</a>	USB 3.0 A to Micro B with USB3 Vision Locking Cable, 5m	COMPATIBLE	COMPATIBLE	COMPATIBLE
8M	<a href="#">FireNEX-ULS-8</a>	USB 3.0 A to Micro B Locking Active Repeater Cable Slim, 8m	COMPATIBLE	COMPATIBLE	COMPATIBLE
12M	<a href="#">FireNEX-ULS-12</a>	USB 3.0 A to Micro B Locking Active Repeater Cable, 12m	COMPATIBLE	COMPATIBLE	COMPATIBLE
16M	<a href="#">FireNEX-ULS-16</a>	USB 3.0 A to Micro B Locking Active Repeater Cable, 16m	COMPATIBLE	COMPATIBLE	COMPATIBLE
10M,24M	<a href="#">FireNEX-uHUB™ (1)</a>	USB 3.0 Industrial Hub	COMPATIBLE	COMPATIBLE	COMPATIBLE
10M	<a href="#">FireNEX-uLINK-DS™ (2)</a>	USB 3.0 Active Repeater Dongle	COMPATIBLE	COMPATIBLE	COMPATIBLE
100M–300M	<a href="#">FireNEX-5000H™ (3)</a>	USB 3.0 Optical Repeater with Power Delivery Option	COMPATIBLE	COMPATIBLE	COMPATIBLE
<b>Testing Specification</b>					
Color Mode During Test			Color	Mono	-
Frame Rate During Test (fps)			120	60	-

Resolution During Test (pixels)	640 x 480	1280 x 720	-
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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

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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 POINT GREY cameras, model #FL3-U3-32S2C-CS and #FL3-U3-32S3M-CS, Grasshopper3, model #GS3-U3-28S4M-C. In addition, the Ladybug5 was tested by Point Grey and is compatible with Newnex products listed above.