



# COMPATIBILITY TEST

LABORATORY SERIES

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## Testing Documentation

- Goal: To ensure compatibility between Newnex’s connectivity solutions and The Imaging Source 3.0 cameras
- Duration: over 24 hours
- Location: Newnex’s Technical Laboratory, 3041 Olcott st, Santa Clara, CA 95054, USA
- Camera tested: The Imaging Source B3.0 cameras, Model # DFK 23U618 & DMK 23UM021
- Newnex products tested with The Imaging Source 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			
		Type	The Imaging Source	
		Model#	DFK 23U618 DMK 23UM021	
	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	
5M	<a href="#">US26AMCB11-5MN</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	
10M,24M	<a href="#">FireNEX-uHUB™<sup>(1)</sup></a>	USB 3.0 Industrial Hub	COMPATIBLE	
10M	<a href="#">FireNEX-uLINK-DS™<sup>(2)</sup></a>	USB 3.0 Active Repeater Dongle	COMPATIBLE	
100M–300M	<a href="#">FireNEX-5000H™<sup>(3)</sup></a>	USB 3.0 Optical Repeater with Power Delivery Option	COMPATIBLE	
	Testing Specification		DFK23U618	DMK23UM02
	Resolution		640 x 480	1280 x 720
	Color Mode		Color	Color
	Frame Rate During Test (fps)		120	60

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-ULS-18, FireNEX-uHUB™, FireNEX-uLINK-DS™ and FireNEX-5000H-H™ were demonstrated to be fully compatible with The Imaging Source cameras, model# DFK 23U618 & DMK 23UM02.