



# COMPATIBILITY TEST

LABORATORY SERIES

3041 Olcott St. | Santa Clara, CA 95054, USA  
Fax: 408.986.8024 | Phone: 408.986.9988  
information@newnex.com | www.newnex.com

## Testing Documentation

- Goal: To ensure compatibility between Newnex’s connectivity solutions and Intel RealSense Depth Camera D400 series
- Duration: over 24 hours
- Location: Newnex’s Technical Laboratory, 3041 Olcott St, Santa Clara, CA 95054, USA
- Cameras tested: +Intel RealSense Depth Camera D415, Model # 961443  
+Intel RealSense Depth Camera D435, Model# 961448
- Newnex products tested with the Intel RealSense Depth Camera D400 series (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
			Intel RealSense D400
			Model#
	Product Part#	Product Descriptions	Result
1M	<a href="#">U3S1A01C12-010</a>	USB 3.1 A Male to C Male with Dual Screw Locking Cable, 1m	COMPATIBLE
2M	<a href="#">U3S1A01C12-020</a>	USB 3.1 A Male to C Male with Dual Screw Locking Cable, 2m	COMPATIBLE
3M	<a href="#">U3S1A01C12-030</a>	USB 3.1 A Male to C Male with Dual Screw Locking Cable, 3m	COMPATIBLE
5M	<a href="#">U3S1A01C12-050</a>	USB 3.1 A Male to C Male with Dual Screw Locking Cable, 5m	COMPATIBLE
1M	<a href="#">U3S3A01C12-010</a>	USB 3.1 A Male to C Male with Dual Screw Locking Ultrathin Cable, 1m	COMPATIBLE
2M	<a href="#">U3S3A01C12-020</a>	USB 3.1 A Male to C Male with Dual Screw Locking Ultrathin Cable, 2m	COMPATIBLE
8M	<a href="#">UL-A01C12-8M</a>	USB 3.1 A to C with Dual Screw Locking Active Repeater Cable, 8m	COMPATIBLE
12M	<a href="#">UL-A01C12-12M</a>	USB 3.1 A to C with Dual Screw Locking Active Repeater Cable, 12m	COMPATIBLE
16M	<a href="#">UL-A01C12-16M</a>	USB 3.1 A to C with Dual Screw 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-H™<sup>(3)</sup></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 U3S1A01C12-010, U3S1A01C12-020, U3S1A01C12-030, U3S1A01C12-050, U3S3A01C12-010, U3S3A01C12-020, UL-A01C12-8M, UL-A01C12-12M, UL-A01C12-16M, FireNEX-uHUB™, FireNEX-uLINK-DS™ and FireNEX-5000H-H™ were demonstrated to be fully compatible with the Intel RealSense Depth Camera D415 & D435, Model# 961443 & 961448