



# COMPATIBILITY TEST

LABORATORY SERIES

3041 Olcott St. | Santa Clara, CA 95054  
Fax: 408.986.802 | Phone: 408.986.9988  
information@newnex.com | www.newnex.com

## Testing Documentation

- Subject: Machine Vision Cameras Compatibility versus Newnex Length Solutions
- Goal: To ensure compatibility between Newnex’s Connectivity Solutions and IDS USB 3.0 Cameras
- Duration: over 24 hours
- Location: Newnex’s Technical Laboratory, 3041 Olcott st, Santa Clara, CA 95054
- Camera tested: IDS USB 3.0: Model # UI-3240CP-C-HQ and # UI-3240CP-M-GL
- Newnex products tested:
  - US2-AMCB11-3M: USB 3.0 A to Micro B with USB3 Vision Locking Cable, 3M
  - US226AMCB11-5M: USB 3.0 A to Micro B with USB3 Vision Locking Cable, 5M
  - US226AMCBR115M: USB 3.0 A to Micro B Right Angle R-1 with USB3 Vision Locking cable, 5M
  - FireNEX-H3M-08: USB 3.0 High Flex Active Repeater Cable, 8M
  - FireNEX-UL-8M: USB 3.0 Active Repeater Cable, 8M
  - FireNEX-uLINK-DS: USB 3.0 Active Repeater Dongle
  - FireNEX-uHUB: USB 3.0 Industrial Hub
  - FireNEX-UL 12M: USB 3.0 Active Repeater Cable, 12M
  - FireNEX-UL 16M: USB 3.0 Active Repeater Cable, 16M
  - FireNEX-5000H: USB 3.0 Optical Repeater with Power Delivery Option, 300M

## Detail Testing Parameters

Operating System	Windows 7 – 64bits with Intel H77 Chipset CPU: i7-3450		
PCle Card	Fresco Logic, Renesas	USB 3.0 Host	Intel

## Test Results

Desired Distance	Machine Vision Cameras	
	Types	IDS uEye CP USB 3.0
	Model#	# UI-3240CP-C-HQ # UI-3240CP-M-GL
	Version (mono/color)	both
3M	US2-AMCB11-3M	COMPATIBLE
5M	US226AMCB11-5M, US226AMCBR115M	COMPATIBLE
8M	FireNEX-UL-8M	COMPATIBLE
8M	FireNEX-H3M-08	COMPATIBLE
10M	FireNEX-uLINK-DS <sup>(1)</sup>	COMPATIBLE
10M	FireNEX-uHUB <sup>(2)</sup>	COMPATIBLE
12M	FireNEX-UL-12M	COMPATIBLE
16M	FireNEX-UL-16M	COMPATIBLE
100-300M	FireNEX-5000H <sup>(3)</sup>	COMPATIBLE
Testing Specification		
	MP	1.3 MP
	Color Code During Test	RBG 32, Mono 8
	Transfer Rate During Test (fps)	30
	Resolution During Test (pixels)	1280x1024

(1): FireNEX-uLINK-DS was set up using two 5 meters USB 3.0 cables.

(2): FireNEX-uHUB was set up using two 5 meters USB 3.0 cables

(3) FireNEX-5000H: Tested up to 300 meters without power delivery option and up to 100 meters 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, Renesas and USB 3.0 host from Intel, Newnex US2-AMCBI1-3M, US226AMCBI1-5M, US226AMCBR1I5M, FireNEX-UL-8M, FireNEX-H3M-08, FireNEX-uLINK-DS, FireNEX-uHUB, FireNEX-UL-12M, FireNEX-UL-16M, and FireNEX-5000H demonstrated to be fully compatible with IDS USB 3.0 cameras, Mode I#UI-3240CP-C-HQ and # UI-3240CP-M-GL.