



# COMPATIBILITY TEST

LABORATORY SERIES

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## Testing Documentation

- Goal: To ensure compatibility between Newnex’s connectivity solutions and Lumenera USB3.1 cameras
- Duration: over 24 hours
- Location: Newnex’s Technical Laboratory, 3041 Olcott st, Santa Clara, CA 95054, USA
- Camera tested: Lumenera USB3.0 cameras, Model #Lt345R
- Newnex products tested with the Lumenera USB3.1 cameras (see the table of test results below)

## Test Environment Parameters

Host Operating System and CPU	Windows 10 – 64bits Intel® Core™ i7		
Host USB 3.0 Port	Asmedia USB 3.1 Gen 2 Host	Intel USB 3.0 eXtensible Host	Renesas

## Test Results

Connection Distance	Machine Vision Cameras			
	Camera		Lumenera	
	Model#		Lt225C	Lt345R
	Image Resolution		2408 x 1088	2064 x 1544
	Color Mode		Color	Color
	Frame Rate (fps)		85	120
	Product Part#	Product Descriptions	Result	
3M <a href="#">US2-AMCB11-3M</a>	USB 3.0 A/M to Micro B/M Cable	COMPATIBLE	COMPATIBLE	
5M <a href="#">US226AMCB11-5M</a>	USB 3.0 A/M to Micro B/M Cable	COMPATIBLE	COMPATIBLE	
10M <a href="#">UL-EX-10M</a> <sup>(3)</sup>	USB 3.0 A/M to A/F Active Cable	COMPATIBLE	COMPATIBLE	
16M <a href="#">UL-EX-16M</a>	USB 3.0 A/M to A/F Active Cable	COMPATIBLE	COMPATIBLE	
300M <a href="#">FIRENEX-5000H</a>	USB 3.0 Optical Fiber Repeater	COMPATIBLE	COMPATIBLE	
500M <a href="#">FIRENEX-10G</a>	USB 3.1 Gen 2 Optical Fiber Repeater	COMPATIBLE	COMPATIBLE	
10M <a href="#">FIRENEX-UDS</a> <sup>(2)</sup>	USB 3.0 Dongle Repeater	COMPATIBLE	COMPATIBLE	
<a href="#">FIRENEX-UHUB</a> <sup>(1)</sup>	USB 3.0 4-Port Industrial Hub	COMPATIBLE	COMPATIBLE	

- Notes:
- (1) Tested in two cable set-ups: One setup is with two 5-meter USB 3.0 cables, the hub is placed 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 with the 3m USB 3.0 cable comes with the camera

## Conclusion

With over 24 hours of comprehensive testing with USB 3.0 Host Chipset from Intel, ASmedia, Renesas, Newnex US2-AMCB11-3M, US226AMCB11-5M, UL-EX-10M, UL-EX-16M, FireNEX-uHUB™, FireNEX-uLINK-DS™, FireNEX-5000H™, and FireNEX-10G were demonstrated to be fully compatible with the Lumenera USB 31 camera, Model# Lt225C and Model# Lt345R