



COMPATIBILITY TEST

LABORATORY SERIES

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Testing Documentation

- Subject: TrueVision 3D Surgical Camera Compatibility versus Newnex Length Solutions
- Goal: To ensure compatibility between Newnex’s Connectivity Solutions with TrueVision ICM5 3D Surgical Camera
- Location: Newnex’s Technical Laboratory, 3041 Olcott st, Santa Clara, CA 95054
- Camera tested: TrueVision 3D Surgical Camera (ICM5)
- Newnex products tested:
 - US226-2005: USB 3.0 A to B Passive Cable, 5M
 - FireNEX-ULK 8M: USB 3.0 Active Repeater Cable, 8M
 - FireNEX-ULK 12M: USB 3.0 Active Repeater Cable, 12M
 - FireNEX-uLINK-DS: USB 3.0 Active Repeater Dongle
 - FireNEX-5000H: USB 3.0 Optical Repeater with Power Delivery Option, 300M

Detail Testing Parameters

Operating System	TrueVision EPU Hardware Model: 001-927 Revision: 06
USB 3.0 Controller chipset	Intel

Test Results

Desired Distance	Machine Vision Cameras	
	Types	TrueVision
	Model#	ICM5
	Version (mono/color)	color
	MP	6.2 MP
5M	US226-2005	COMPATIBLE
8M	FireNEX-ULK 8M	COMPATIBLE
10M	FireNEX-uLINK-DS ⁽¹⁾	COMPATIBLE
12M	FireNEX-ULK 12M	COMPATIBLE
100M	FireNEX-5000H ⁽²⁾	COMPATIBLE
Testing Specification		
	Color Code During Test	RGB 32
	Transfer Rate During Test (fps)	58 FPS
	Resolution During Test (pixels)	3840 x 2160

(1): FireNEX-uLINK-DS was set up using two 5 meters USB 3.0 cables with the Dongle in the middle of the PC and the camera.

(2): FireNEX-5000H with TrueVision EPU test up to 100 meters.

Conclusion

With over 24 hours of comprehensive testing TrueVision EPU, Newnex USB 3.0 5m passive cable, FireNEX-ULK 8M, FireNEX-ULK-12M, FireNEX-uLINK-DS, and FireNEX-5000H demonstrated to be fully compatible with TrueVision ICM5 3D Surgical Camera.