



COMPATIBILITY TEST

LABORATORY SERIES

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Testing Documentation

- Subject: Machine Vision Cameras Compatibility versus Newnex Length Solutions
- Goal: To ensure compatibility between Newnex's Connectivity Solutions and Matrix Vision USB 3.0 Camera
- Duration: over 24 hours
- Location: Newnex's Technical Laboratory, 3041 Olcott st, Santa Clara, CA 95054, USA
- Camera teste: Matrix Vision USB 3.0: Model # mvBlueFOX3-1013C
- Newnex products tested:
 - US2-AMCBI1-3M: USB 3.0 A to Micro B with USB3 Vision Locking Cable, 3M
 - US226AMCBI1-5M: USB 3.0 A to Micro B with USB3 Vision Locking Cable, 5M
 - US226AMCBR1I5M: 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-uLINK 8M: USB 3.0 Active Repeater Cable, 8M
 - FireNEX-uLINK-DS: USB 3.0 Active Repeater Dongle
 - FireNEX-ULP 12M: USB 3.0 Active Repeater Cable with external power jack, 12M
 - FireNEX-ULP 14M: USB 3.0 Active Repeater Cable with external power jack, 14M
 - 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

| Newnex's Testing Parameters | | | |
|-----------------------------|--|--------------|-------|
| Operating System | Windows 7 – 64bits With Intel H77 Chipset CPU: i7-3450 | | |
| PCIe Card | Fresco Logic, Renesas | USB 3.0 Host | Intel |

Test Results

| Desired Distance | Machine Vision Cameras | |
|-----------------------|----------------------------------|------------------|
| | Types | Matrix Vision |
| | Model# | mvBlueFOX3-1013C |
| | Version (mono/color) | color |
| | MP | 1 MP |
| 3M | US2-AMCBI1-3M | COMPATIBLE |
| 5M | US226AMCBI1-5M, US226AMCBR1I5M | COMPATIBLE |
| 8M | FireNEX-uLINK 8M, FireNEX-H3M-08 | COMPATIBLE |
| 10M | FireNEX-uLINK-DS ⁽¹⁾ | COMPATIBLE |
| 10M | FireNEX-uHUB ⁽²⁾ | COMPATIBLE |
| 12M | FireNEX-ULP 12M | COMPATIBLE |
| 14M | FireNEX-ULP 14M | COMPATIBLE |
| 16M | FireNEX-UL 16M | COMPATIBLE |
| 100-300M | FireNEX-5000H ⁽³⁾ | COMPATIBLE |
| Testing Specification | | |
| | Color Code During Test | color |
| | Transfer Rate During Test (fps) | 20 |
| | Resolution During Test (pixels) | 1280 x 1024 |

(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

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-H3M-08, FireNEX-uLINK 8M, FireNEX-uLINK-DS, FireNEX-uHUB, FireNEX-ULP 12M, FireNEX-ULP 14M, FireNEX-UL 16M, and FireNEX-5000H demonstrate to be fully compatible with Matrix Vision USB 3.0 camera, Model# mvBlueFOX3-1013C.