

INTEROPERABILITY TEST

with Orbbec Femto Bolt Camera

Objective

To ensure interoperability between Orbbec's Femto Bolt camera and Newnex's USB connectivity solutions

Product Tested

	Product Name	USB Interface
	Femto Bolt	Connector: USB-C with Screw Lock Data Rate: USB 3.2 Gen 1 (USB 3.0) 5Gbps Power: 5V/1.5A (12V self-power optional)

Parameters

Host PC

CPU	Intel Core i5-12600K
Motherboard Chipset	Z790
Memory	16GB DDR5
Operating System	Windows 10 Pro, Ubuntu 22.04 LTS

USB Host

USB Controller Chipset

Intel USB Port on Motherboard	Intel USB 3.2 Gen 2x2 xHCI
StarTech PEXUSB3S44V	Renesas uDP720201
Advantech PCE-USB4-00A1E	Renesas uDP720201
IOI U3X4-PCIE4XE111	Fresco FL1100
HighPoint RU1344A	ASMedia 3142

Femto Bolt

RGB Sensor	4K @ 30fps
Depth Sensor	1024 x 1024 @ 15fps
IMU	On
Testing Software	OrbbecViewer v2.4.11
Passing Condition	1 hour of continuous streaming with 0 errors or connection drops

Testing Results

Newnex PN

Product Description

Femto Bolt Compatibility

Passive USB Cables

U3S7AS1C12-010	Ultra-thin USB 3.2 A to C Dual Locking Cable, 1m	✓
U3S7AS1C12-020	Ultra-thin USB 3.2 A to C Dual Locking Cable, 2m	✓
U3S1A01C12-010	USB 3.2 A to C Dual Locking Cable, 1m	✓
U3S1A01C12-020	USB 3.2 A to C Dual Locking Cable, 2m	✓
U3S1A01C12-030	USB 3.2 A to C Dual Locking Cable, 3m	✓
U3S1A01C12-050	USB 3.2 A to C Dual Locking Cable, 5m	✓
U4SRC01C02-030	USB 3.2 C to C Dual Locking Cable, 3m	✓
U4SLC01C02-050	USB 3.2 C to C Dual Locking Cable, 5m	✓

Active USB Cables

FIRENEX-ULCX25	USB 3.2 Gen 1, 5Gbps, A/M to C/M, 25m	✓
FIRENEX-ULCX30	USB 3.2 Gen 1, 5Gbps, A/M to C/M, 30m	✓
ULHLU11AC12-5M	High Flex Active USB 3.2 A to C Dual Locking Cable, 5m	✓
ULHLU11AC12-8M	High Flex Active USB 3.2 A to C Dual Locking Cable, 8m	✓
ULU11MAC12-10	Active USB 3.2 A to C Dual Locking Cable, 10m	✓
ULU11MAC12-18	Active USB 3.2 A to C Dual Locking Cable, 18m	✓

USB Repeaters

FIRENEX-UDC	Active USB-C Female to USB-C Female Adapter	✓
FIRENEX-5000H+	2-Port 5Gbps USB Repeater over Multi-mode Fiber	✓
FIRENEX-5000C	4-Port 5Gbps USB Repeater over Single-mode Fiber	✓
FIRENEX-80G	8-Port 10Gbps USB Repeater over Single Mode Fiber	✓
FIRENEX-CAT6	5Gbps USB-C Repeater over CAT6a/7 Ethernet Cable	✓

USB Hubs

FIRENEX-uHUB	4-Port Industrial USB 5Gbps Hub	✓
FIRENEX-uHUB-2P	2-Port Industrial USB 5Gbps Hub	✓
FIRENEX-uHUB-10G	7-Port Industrial USB-C 10Gbps Hub	✓

To check the compatibility between Orbbec's Femto Bolt camera and other Newnex products, please [contact us](#).