



# INTEROPERABILITY TEST

Newnex USB Cables & Repeaters | IDS USB3 Vision Cameras

## Objective

To ensure interoperability between Newnex USB connectivity solutions and IDS Imaging cameras

## Product(s) Tested

	Product Name	USB Interface
	U3-3890CP-C-HQ	<b>Connector:</b> Micro B with Screw Locking <b>Data Rate:</b> USB 3.2 Gen 1 (USB 3.0) 5Gbps <b>Power:</b> 5V/0.9A
	U3-3680XLE-C-HQ	<b>Connector:</b> USB-C <b>Data Rate:</b> USB 3.2 Gen 1 (USB 3.0) 5Gbps <b>Power:</b> 5V/0.9A

## 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

### IDS U3-3890CP-C-HQ

### IDS U3-3680XLE-C-HQ

Testing Software	IDS peak Cockpit 1.9.0.1	
Resolution	4000 x 3000	2592 x 1944
Frame Rate	30fps	30fps
Passing Condition	1 hour of continuous stream with 0 frame drops or errors	

## Testing Results

Newnex PN

Product Description

IDS U3-3890CP-C-HQ

IDS U3-3680XLE-C-HQ

### Passive USB Cables

U3S7AS1C12-020	Ultra-thin USB 3.2 A to C Dual Locking, 2m	-	✓
U3S7AS1C12-030	USB 3.2 A to C Dual Locking, 3m	-	✓
U3S7AS1C12-050	USB 3.2 A to C Dual Locking, 5m	-	✓
U3HLA01C12-030	High Flex USB 3.2 A to C Dual Locking, 3m	-	✓
U3HLA01C12-050	High Flex USB 3.2 A to C Dual Locking, 5m	-	✓
U4SLC01C01E030	USB 3.2 C to C, 3m	-	✓
U4SLC01C01-050	USB 3.2 C to C, 5m	-	✓
U3S7AS1MCI-020	Ultra-thin USB 3.2 A to Micro B Locking, 2m	✓	-
US2-AMCBI1-3M	USB3 A to Micro B Locking, 3m	✓	-
US226AMCBI1-5M	USB3 A to Micro B Locking, 5m	✓	-
U3HLA01MCI-030	High Flex USB3 A to Micro B Locking, 3m	✓	-
U3HLA01MCI-050	High Flex USB3 A to Micro B Locking, 5m	✓	-

### Active USB Cables

ULHLU11AC12-5M	High Flex Active USB 3.2 A to C, 5m	-	✓
ULHLU11AC12-8M	High Flex Active USB 3.2 A to C, 8m	-	✓
FIRENEX-ULC-8	Active USB 3.2 A to C, 8m	-	✓
FIRENEX-ULC-12	Active USB 3.2 A to C, 12m	-	✓
FIRENEX-ULC-16	Active USB 3.2 A to C, 16m	-	✓
ULU11MAC12-18	Active USB 3.2 A to C, 18m	-	✓
UL-EX-10M	Active USB3 A to A Female, 10m	✓	✓
UL-EX-16M	Active USB3 A to A Female, 16m	✓	✓
FIRENEX-ULS-8	Active USB3 A to Micro B Locking, 8m	✓	-
FIRENEX-ULS-12	Active USB3 A to Micro B Locking, 12m	✓	-
FIRENEX-ULS-16	Active USB3 A to Micro B Locking, 16m	✓	-

### USB Repeaters

FIRENEX-5000H+ (with 300m Fiber Cable)	2-Port 5Gbps USB Repeater over Multi-mode Fiber	✓	✓
FIRENEX-5000C (with 200m Fiber Cable)	4-Port 5Gbps USB Repeater over Single-mode Fiber	✓	✓
FIRENEX-80G (with 700m Fiber Cable)	8-Port 10Gbps USB Repeater over Single-mode Fiber	✓	✓

FIRENEX-CAT6 (with 70m CAT6A Cable)	5Gbps USB-C Repeater over CAT6a/7 Ethernet Cable	✓	✓
FIRENEX-UDS (with 2x 5m passive USB 3.0 Cable)	Active USB-B Female to USB-A Female Dongle Repeater	✓	✓
FIRENEX-UDC-10G (with 2x 5m passive USB-C Cable)	Active USB-C Female to USB-C Female Dongle Repeater	✓	✓

### USB Hubs

FIRENEX-UHUB	4-Port Industrial USB 5Gbps Hub	✓	✓
FIRENEXUHUB10G	7-Port Industrial USB-C 10Gbps Hub	✓	✓