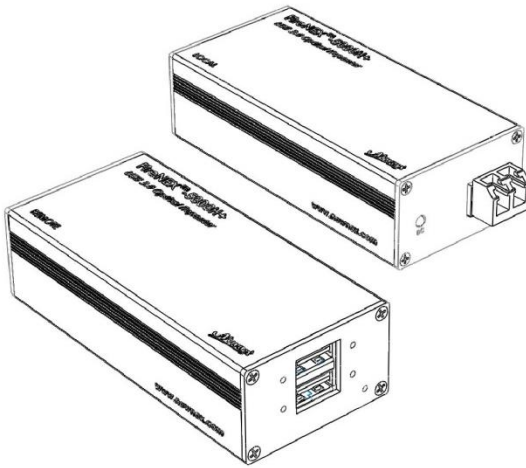


FireNEX-5000H+™

USB 3.0 Optical Repeater User's Manual



Newnex
Connecting with Confidence™

Table of content:

1. Introduction.....	3
2. Included in the Box.....	3
3. Requirements.....	3
4. Specifications.....	5
5. Features.....	5
6. Compatibility.....	6
7. Getting Started.....	6
8. Installation.....	7
9. Frequently Asked Questions.....	9
10. Technical Support.....	10
11. Return Policy.....	11
12. Warranty Information.....	11
13. Accessories.....	11

1. Introduction

Thank you for purchasing the FireNEX™-5000H+ USB 3.0 Optical Repeater - the latest innovation in the optical and USB technology. This user's manual contains information regarding specifications, installation guide, technical support, return policy and warranty of the FireNEX™-5000H+ USB 3.0 Optical Repeater. Please read this product manual thoroughly before using it. We highly recommend you to keep this manual handy.

2. Included in the Box

The FireNEX™-5000H+ package come with:

- One FireNEX™-5000H+ Local unit.
- One FireNEX™-5000H+ Remote unit.
- One 12V/2.5A DC Power Adapter.
- One USB 3.0 A to B Host Cable
- One User's manual.

3. Requirements

In order to use the FireNEX™-5000H+, the following requirement must be satisfied:

- Computer with USB 3.0 host ports
- USB 3.0 SuperSpeed driver installed
- Compliant OM3/OM4 Multi-mode Fiber Cable, Duplex LC Connector*

*FireNEX™-5000H+ only support Multi-mode fiber by default, to use with single-mode or other type of fiber cable, please contact Newnex for further support.

*Additional USB and fiber cables, DC power adapters can be ordered separately at Newnex. Visit newnex.com for more information.

4. Specifications

Dimensions	106 x 45.4 x 27 mm (Each Unit)
Weight	274 g
Signal Distance	Up to 300 meters
Operating Temperature	-10 to 85 °C
Power Input	12 - 24V DC
Power Adapter	12V/2.5A 5.5 mm (OD) / 2.1 mm (ID) Center Positive
Port	Local unit: 1 x USB 3.0 B Port. Remote unit: 2 x USB A Port. All USB 3.0 connectors are featured with USB3 Vision compliant locking screws.
Data Transfer Rate	Up to 5 Gbps
Storage	Room temperature, dry surface
Compliance	RoHS; AIA USB3 Vision Compliant

5. Features

The FireNEX-5000H™, the newest release from Newnex's recent innovative USB and FireWire repeaters product line, comes with the following features:

- 100% Plug and Play
- Support 5Gbps SuperSpeed USB 3.1 Gen 1
- USB 2.0/1.1 Backward Compatible with Windows OS
- Extension Distance up to 300 meters
- Compact Size and Light Weight
- Durable Metal Enclosure
- USB3 Vision Compliant Locking Ports
- RoHS Compliant

6. Compatibility

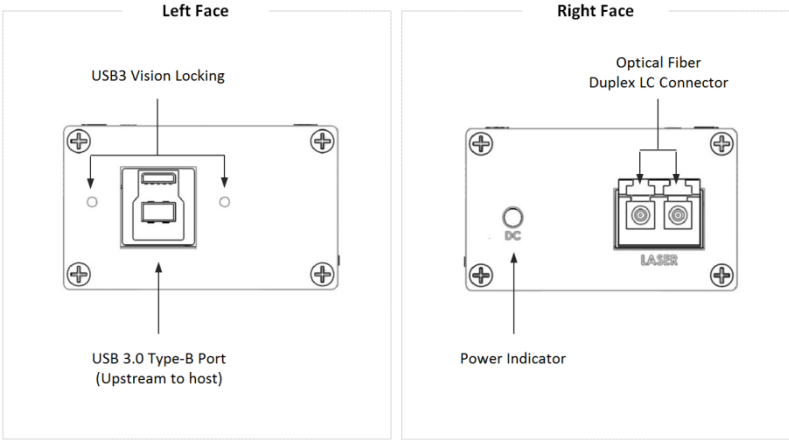
Our engineers do compatibility testing for various types of USB applications such as Video Conferencing, Machine Vision, and 3D Imaging.

Please visit our website at: newnex.com for a complete list of tested devices that are compatible with the FireNEX™-5000H+.

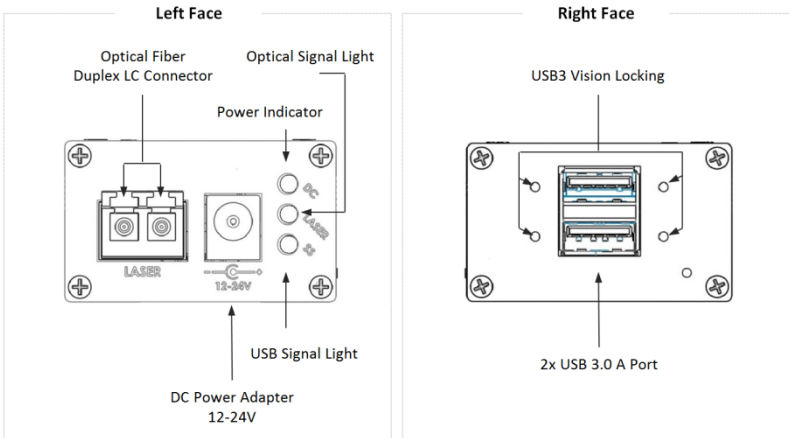
7. Getting Started

(“Left” – To Host Side, “Right” – To Device Side)

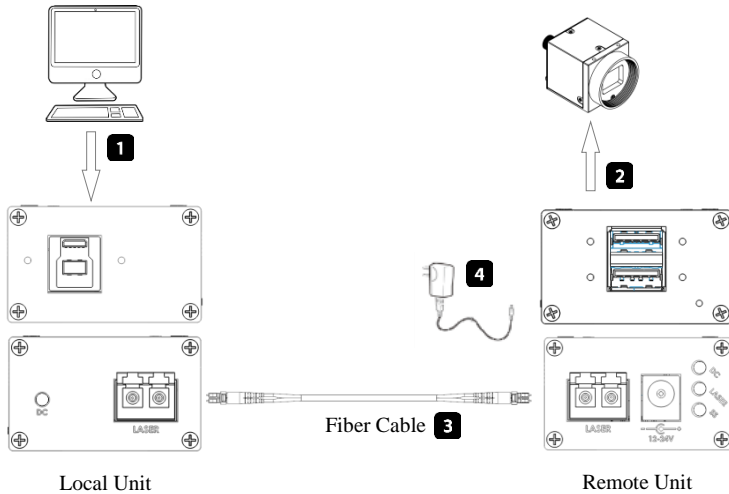
FireNEX™-5000H+ Local unit



FireNEX-5000H™ Remote unit



8. Installation



1 Connect the host station to the USB B Port on the Local unit through a USB 3.0 A to B cable.

2 Connect user's device(s) to the USB A ports on the Remote unit.

3 Use duplex LC Optical fiber connect the Local unit and the Remote

4 Connect a 12V-24V DC power adapter to the "12-24V DC" port on **Remote Unit**.

5 In Windows Control Panel->Power Option->Advanced Setup, USB Ports should be configured to NOT go into "Suspend Mode"

6 In Windows Device Manager, all USB HUB should be configured to NOT allow the computer to turn off the device

Make sure that all three LEDs on each repeater are light up in solid green.

LED Status Indicators

DC LED	Illuminates when the repeater is powered.
LASER LED	Illuminates after Local unit and the Remote unit are powered and connected through a fiber optic cable, which indicates that the fiber ports are connected.
SS LED	Illuminates when the USB signal is active.

You have now completed the installation of the FireNEX™-5000H+ and your USB device should work as they are directly connected to the host system.

9. Frequently Asked Questions

1. What is the maximum length that the FireNEX™-5000H+ can support?

The current model of the FireNEXTM-5000H+ can support a length of up to 300 meters with an OM3 or OM4 fiber cable.

2. Can FireNEX™-5000H+ use other SFP+ transceivers

Yes, Any SFA compliant SFP+ transceivers should work including multi-mode, single-mode, or other type.

3. Is FireNEX™-5000H+ backward compatible with USB 2.0/1.1 devices such as keyboard and mouse?

Yes, FireNEX™-5000H+ is backward compatible with USB 2.0/1.1 peripherals on Windows OS.

4. Can FireNEX™-5000H+ work on Linux and Mac OS?

Yes, FireNEX™-5000H+ support USB 3.0 data transfer only on Linux and Mac OS. If you need USB 2.0/1.1 support please choose the FireNEX™-5000Plus from Newnex.

5. Can I use FireNEX™-5000H+ with single-mode fiber?

By default, FireNEX™-5000H+ need to use with multi-mode fiber. If to use with single-mode fiber, customer need to contact Newnex for special order.

6. Is there any driver required for FireNEX™-5000H+ to work?

The driver of FireNEX™-5000H+ should be natively support by most operating system. If the device is not recognized, please make sure to connect your host computer to Internet and wait for a while, so the driver will be automatically connected.

7. Where can I find the RoHS Certificates for FireNEX™-5000H+?

Visit <https://www.newnex.com/compliance.php> for the RoHS information of Newnex products.

10. Technical Support

If you do not see the power LED light after the unit is powered, or the signal LED lights do not illuminate when units were connected using a fiber optic cable, it might indicate that the repeaters are not connected properly. Try reconnecting the repeaters following the steps described in the installation section. If you experience similar problem, please visit www.newnex.com/technology-support.php for technical support.

11. Return Policy

All return must have a return merchandise authorization (RMA) number within 30 days from the date of the invoice. For returns without defect, a 15% restocking fee will be charged. Visit <https://www.newnex.com/return-policy.php> for detailed information.

12. Warranty Information

Each FireNEX™-5000H+ is carefully tested by our engineers to make sure it works properly before leaving our warehouse. In addition, the FireNEX™-5000H+ is covered by a one year limited warranty against any defects in materials or workmanship. Any products found to be defective in materials or workmanship will be repaired or replaced with the same or similar device.

13. Accessories

Newnex does customized designs and manufactures for different types of USB Type-C, 3.0, 2.0 cables in a variety of lengths and features. Welcome to visit www.newnex.com for a complete list of products and accessories.



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