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Neva OTG
Professional
24 bit 192 kHz
Dual USB C
Audio
Interface

ESI Neva OTG Professional 24 bit 192 kHz Dual USB C Audio Interface User Guide

Contents

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Product Information

- **Product Name:** Neva OTG
- **Connectivity:** USB-C, TRS, XLR
- **Power Requirement:** USB powered
- **Phantom Power:** 48V (for condenser microphones)
- **Input Types:** Dynamic microphone, Condenser microphone, Guitar/Bass, Line input
- **Monitoring:** Direct monitoring function

Product Usage Instructions

- **Getting Started**

  To start using Neva OTG, connect it to your computer using the included USB cable from the main USB-C port. Connect headphones to the headphone connector on the front or use the TRS outputs on the back to connect to active studio monitors.

- **Mobile Phone OTG Connection**

  To connect a mobile phone or tablet, use the subsidiary OTG USB-C port. Use a compatible cable based on your device's connector type.

- **Microphone Connection**

  Identify if your microphone is dynamic or condenser. Enable 48V phantom power if using a condenser microphone. Connect microphones using XLR cables and set the input selection switch to 'Line'.

- **Guitar Connection**

  Connect an electric guitar or bass using a TS guitar cable. Set the corresponding input selection switch to 'Hi-Z'.

- **Line Input**

  For stereo line input, set both input switches to 'Line'. Ensure gain knobs are set equally and turn off the 48V switch.

- **Input Monitoring**

  Enable the direct monitoring function with the 'Direct' monitoring switch to listen to incoming audio signals simultaneously with playback.

- **Recording and Playback**

  Test Neva OTG by playing music while adjusting headphones or the master volume knob gradually. Be mindful of playback signal volume to protect your ears.

Frequently Asked Questions (FAQ)

- **Q: Can I connect two phones simultaneously to Neva OTG?**

  A: Yes, you can connect one phone via the TRRS port and another via the subsidiary OTG USB-C port.

  However, for best results and audio quality, it is recommended to use only the OTG USB-C port.

- **Q: How do I know if my microphone requires phantom power?**

  A: Check your microphone's manual. Condenser microphones typically require 48V phantom power.

Introduction

Congratulations on your purchase of Neva OTG, a professional Dual USB-C audio interface for Mac and PC to connect microphones, synthesizers or guitars and to monitor signals with headphones or studio monitors in high-level 24-bit / 192 kHz audio quality – while simultaneously being able to stream and record via many portable devices such as iPad or iPhone (via optional adapters) using the secondary USB-C sub-OTG port. This truly makes Neva OTG a special device perfect for live streaming and podcasting.

Getting Started

To start using Neva OTG, connect it to your computer using the included USB cable from the main USB-C port. It is a good time then to either connect headphones to the headphone connector on the front or to use the TRS outputs on the back to connect the interface to active studio monitors. You will not be able to listen to any audio signals otherwise.

On the Mac, Neva OTG does not require any drivers to be used (plug-and-play), however, you can download a control panel application on our website. For Windows users, we provide a driver optimized for professional audio applications (incl. ASIO support) that is available for download – **http://en.esi.ms/124**. This driver also provides DirectWIRE, virtual audio channels, and loopback functionality. This makes it possible to mix and record internal audio signals from various audio applications. More details about DirectWIRE and loopback can be found on our website in the extensive Knowledge Base under kb.esi-audio.com.

Connections

- **Mobile Phone OTG Connection**
  - To connect a mobile phone (or tablet), Neva OTG provides a subsidiary OTG USB-C port. If your mobile device has a USB-C connector, in many cases you can connect it to this using a simple USB-C to USB-C cable (for instance later iPhone models). With some mobile phones (typically Android-based models), a so-called OTG adapter cable is required and for devices with Lightning connector (older iPhone and some iPad models), a so-called camera connection adapter is required.
  - Alternatively, you can also use the 1/8″ TRRS port of Neva OTG to connect it to the headphone/microphone connector of a mobile phone using the included TRRS to TRRS cable. This is a lower audio quality and the signal will be mono only compared to OTG USB-C, but it works with basically any mobile phone.
  - Neva OTG works like a standard audio interface if the OTG sub USB-C port is not used, however, when you connect a phone like this, you can send your PC / Mac audio signals to the phone and use it for live streaming or recording. This is great for mixing and processing audio on your powerful computer while the phone is connected online.
  - You can connect two phones simultaneously, one via the TRRS port and another one via the subsidiary OTG USB-C port. However, for best results and best audio quality, it is best to use only the OTG USB-C port.
- **Microphone Connection**

To connect a microphone to Neva OTG, you need to know if it is a dynamic or a condenser microphone. Only in the latter case, 48V phantom power is required and the corresponding switch on the hardware needs to be enabled. If you are unsure what type of microphone you have, check its manual. You can connect two microphones simultaneously using XLR cables and the corresponding input selection switch must be set to 'Line'.

- **Guitar Connection**

  To use Neva OTG with an electric guitar or bass, you need to connect it with a TS guitar cable. For the corresponding input, the selection switch must be set to 'Hi-Z'.

- **Line Input**

  When both input switches are set to 'Line', Neva OTG accepts a stereo line input, for instance from a CD- or DVD-Player or from a synthesizer. Make sure that both gain knobs are set to the same level and the 48V switch is turned off then.

- **Input Monitoring**

  If you want to listen to the incoming audio signals, you can enable the so-called direct monitoring function with the 'Direct' monitoring switch on Neva OTG. When enabled, you listen to incoming signals and playback simultaneously.

Recording and Playback

- To check if Neva OTG is working with your computer, it is best to play music as a test signal while you slowly turn up the headphone level volume knob (when using headphones) or the master volume knob when using speakers. Make sure you are not making the playback signal too loud for your ears.
- You can record audio in your favorite audio application (i.e. a DAW like Bitwig Studio 8-Track or an audio recorder like WaveLab LE) after selecting Neva OTG as the recording and playback device in its settings dialog (refer to the manual of your software for details, also you can find more info in our Knowledge Base under kb.esi-audio.com).
- Once you start the recording process using either input 1 or 2, slowly turn up the corresponding gain knob clockwise until the input level meters in the software show a proper signal level. Additionally, the LED right next to the XLR input also indicates the signal level. When the light is off, the volume is likely too low or there is no signal. When it turns green, the signal level is usable. Orange usually indicates an optimal level and red means that the level is too high (i.e. the signal clips) and the gain has to be reduced.

Connectors and Functions

1. XLR / TRS Combo Input 1 to connect a microphone via XLR cable, a line signal via 1/4″ TRS connector, or an electric guitar with 1/4″ TS connector.
2. XLR / TRS Combo Input 2 to connect a microphone via XLR cable, a line signal via 1/4″ TRS connector, or an electric guitar with 1/4″ TS connector.
3. Gain Knob 1 to change the input gain/input level for input 1. The LED below and next to the XLR connector indicates the signal level (green: low/ok, orange: optimal, red: too loud).
4. Gain Knob 2 to change the input gain/input level for input 2. The LED below and next to the XLR connector indicates the signal level (green: low/ok, orange: optimal, red: too loud).
5. Line Hi-Z Switch 1 for input 1 to switch between Line / Microphone signals and Hi-Z guitar signals.
6. Line Hi-Z Switch 2 for input 2 to switch between Line / Microphone signals and Hi-Z guitar signals.

7. Direct Monitoring Switch to enable or disable direct input monitoring to listen to the input signals.

8. +48V Phantom Power Switch to provide power for condenser microphones.

9. Master Volume Knob to control the master output volume of the main line output signal.

10. Headphones Volume Knob to change the output volume for connected headphones.

11. Headphones Output to connect headphones.

12. Security Lock to use for theft protection.

13. Line Output 1 / 2 to connect the stereo master line level output signal via 1/4″ TRS cables for left and right channels.

14. Phone TRRS allows you to connect to the headset connector of a mobile phone or tablet via a special 1/8″ TRRS cable (included).

15. Subsidiary y OTG USB-C connector to connect directly to a mobile phone or tablet either via USB-C to USB-C cable, via a special USB OTG adapter cable, or a camera adapter for Lightning ports.

16. Main USB-C Connector to connect the audio interface to a PC or Mac.

Front Panel

Back Panel
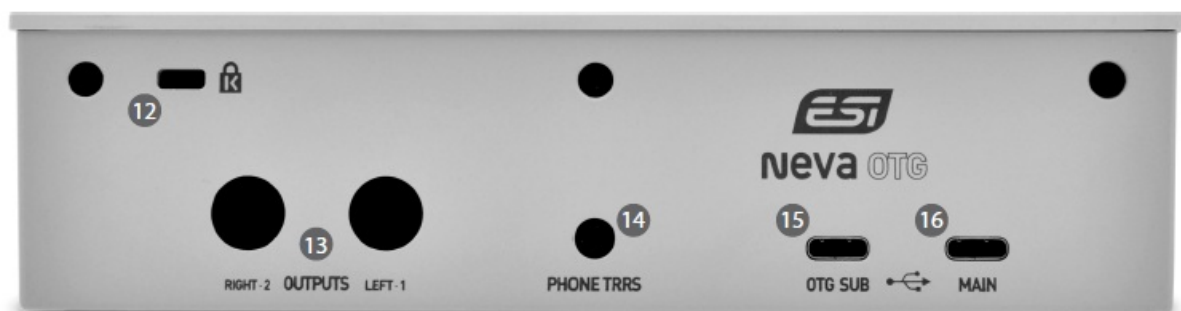
Software Control Panel

- **A.** Input to control the input volume. The change in level is shown in dB values, left and right channels can be controlled simultaneously (stereo) or separately (mono) based on the mouse pointer position.

- **B.** Output to control the playback volume of output channels 1/2. The change in level is shown in dB values, left and right channels can be controlled simultaneously (stereo) or separately (mono) based on the mouse pointer position.

- **C.** Input Mute to mute the input signal.

- **D.** Output Mute to mute the playback signal for channel 1/2.

- **E.** Enable OTG Recording to allow the recording of the return signal from the mobile phone connected to the

OTG subsidiary port via input channels 3/4. If disabled, the signal cannot be recorded in your audio applications.

- **F.** OTG Signal Volume to control the volume of the return signal from the mobile phone connected to the OTG subsidiary port.
- **G.** OTG To Output to switch whether the return signal from the mobile phone connected to the OTG subsidiary port will be audible via the outputs of Neva OTG.

Control Panel
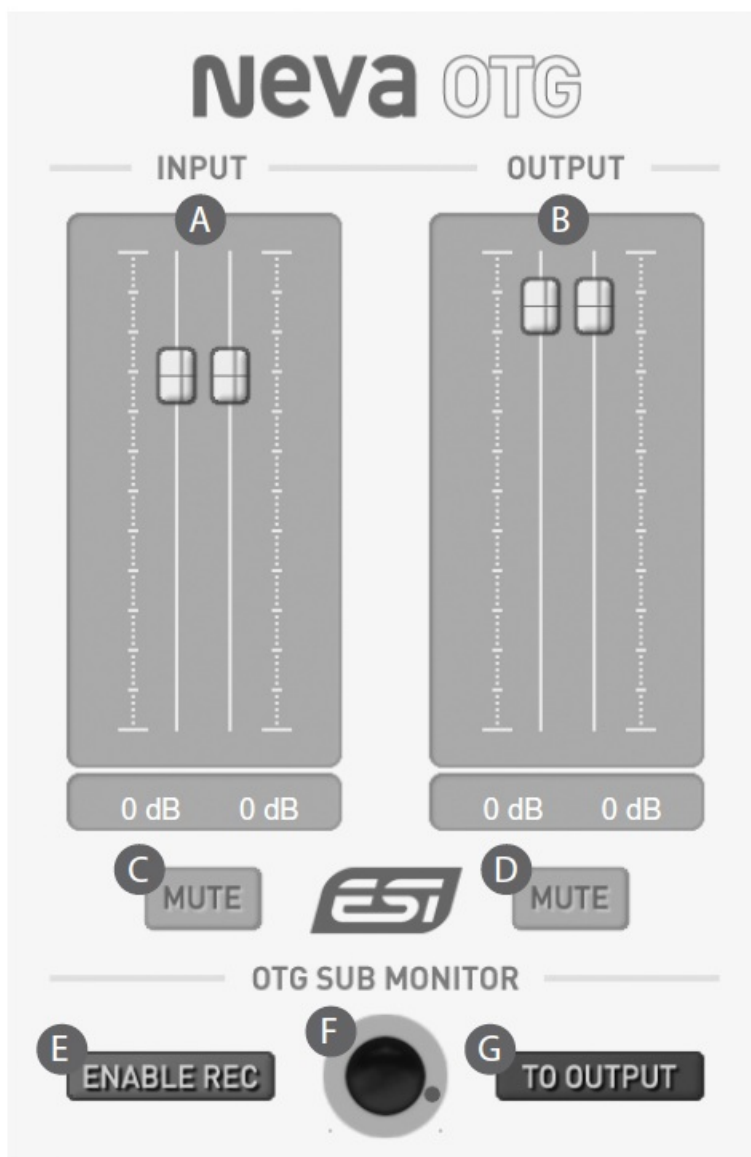
Transfer Audio Signals from/to Mobile Phone

- Neva OTG presents itself as a 4-channel audio interface inside all your audio applications on PC or Mac:
- Output channel 1/2 is the direct audio signal sent through the headphone output or the main line output of the audio interface. Output channel 3/4 however, is used to transfer audio signals to the connected mobile phone. This means that any signal being played via channel 3/4 from any audio software on your PC/Mac can be recorded by your phone (for instance for a live stream).
- Any audio signal the phone plays is being sent to input channel 3/4, so you can record the phone signal in your audio software if needed (if the 'Enable Rec' button is activated), also (if the 'To Output' button is on), you can

listen to the signal via the outputs of Neva OTG.

- Input channel 1/2 provides the physical hardware inputs (microphone, Hi-Z guitar, line) for recording inside your audio software.

General Information
If something is not working as expected, please don't return the product and use our technical support options via www.esi-audio.com or contact your local distributor.

Legal Information

- **Trademarks:**

  ESI, Neva, and Neva OTG are trademarks of ESI Audiotechnik GmbH. Windows is a trademark of Microsoft Corporation. iPhone and iPad are trademarks of Apple Inc.. Android is a trademark of Google LLC. Other used product and brand names are trademarks or registered trademarks of their respective companies.
- **Disclaimer:**

  All features and specifications are subject to change without notice. Parts of this document are continually being updated. Please check our website **www.esi-audio.com** occasionally for the most recent updated information.
- **Manufacturer Info:**

  ESI Audiotechnik GmbH, Mollenbachstr. 14, D-71229 Leonberg, Germany.

Documents / Resources

Professional 24-bit / 192 kHz Dual USB-C Audio Interface **neva** OTG Quick Start Guide ESI	**ESI Neva OTG Professional 24 bit 192 kHz Dual USB C Audio Interface** [pdf] User Guide Neva OTG Professional 24 bit 192 kHz Dual USB C Audio Interface, Neva OTG, Professional 24 bit 192 kHz Dual USB C Audio, 24 bit 192 kHz Dual USB C Audio InterfaceInterface, USB C Audio Interface, Audio Interface, Interface

References

- ESI **ESI Audiotechnik GmbH**
- **User Manual**