PHONIC

FIREFLY 202 USB
AUDIO INTERFACE

English / Español / 简体中文

PHONIC

FIREFLY 202 USB

User's Manual
Manual del Usuario
使用手册

IMPORTANT SAFETY INSTRUCTIONS

The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus. The MAINS plug is used as the disconnect device, the disconnect device shall remain readily operable.

Warning: the user shall not place this apparatus in the confined area during the operation so that the mains switch can be easily accessible.

1. Read these instructions before operating this apparatus.

2. Keep these instructions for future reference.

3. Heed all warnings to ensure safe operation.

4. Follow all instructions provided in this document.

5. Do not use this apparatus near water or in locations where condensation may occur.

6. Clean only with dry cloth. Do not use aerosol or liquid cleaners. Unplug this apparatus before cleaning.

7. Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.

8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being walked on or pinched particularly at plug, convenience receptacles, and the point where they exit from the apparatus.

11. Only use attachments/accessories specified by the manufacturer.

12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lighting storms or when unused for long periods of time.

14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK)
NO USER SERVICEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED PERSONNEL

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

CAUTION: Use of controls or adjustments or performance of procedures other than those specified may result in hazardous radiation exposure.

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AUDIO INTERFACE

USER'S MANUAL

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INTRODUCTION

Congratulations on your purchase of the Phonic 'Firefly 202 USB' portable audio interface with a USB 2.0 connection. Offering two balanced 1/4" phone jack inputs and two balanced 1/4" phone jack outputs, as well as a stereo headphones output with volume control, the Firefly 202 USB offers users the ability to record either two mono channels or a single stereo channel to their computer anywhere they go. This user's manual was created with the express purpose of creating an easy reference guide for operating the Firefly 202 USB. It is recommended that you read the manual before operating the unit then store the manual for future reference.

FEATURES

- 2 x 2 24-bit/96kHz USB stream I/O
- Headphone output with dedicated level control
- Two 1/4" TRS inputs and two 1/4" TRS outputs
- USB connector
- Low-latency ASIO software direct monitoring
- USB LED indicator
- Powered via included DC power supply
- Mac and Windows compatible

INCLUDED ITEMS

- Firefly 202 USB Unit
- USB Cable
- User's Manual
- 12V DC Power Adapter
- Driver Installation CD

SYSTEM REQUIREMENTS

The following are the minimum required specifications for use with the Firefly 202 USB. If your computer does not meet these requirements, you will experience lagging of audio and possible freezing of your computer when attempting to operate the unit.

Windows
- Microsoft Windows XP SP2 or Windows Vista
- Available USB port
- Intel Pentium 4 processor or equivalent AMD Athlon processor
- Motherboard with Intel or VIA chipset
- 5400 RPM or faster hard disk drive (7200 RPM or faster with 8 MB cache recom¬mended)
- 256 MB or more of RAM (512 MB recommended)

Macintosh
- OS X 10.3.5 or later with USB support
- G4 or newer processor
- 256 MB or more of RAM

QUICK INSTALLATION (WINDOWS)

The Firefly 202 USB requires the installation of a driver to function correctly. Please do not connect the Firefly 202 USB to the computer until you have read the following installation instructions.

1. Insert the installation CD that accompanied your Firefly 202 USB.
2. If the installation program does not run immediate, please find the 'setup.exe' file in the appropriate driver subdirectory.
3. Follow the onscreen instructions to install the Firefly 202 USB driver.
4. When you get to the 'Please plug your USB audio device…' message, connect the unit to the computer and ensure the power is on.
5. When instructed, disconnect the Firefly 202 USB and then reconnect it to the computer.
6. Finalize the installation process.

QUICK INSTALLATION (MAC)

The Firefly 202 USB installation for the Mac is quite similar to that on PC. Run the appropriate installer file and follow the on screen instructions. You will need to restart your computer after the installation is complete.device. After installing the driver software, the Firefly 202 USB will be recognized by the Mac software and can be selected as the default input and output device in the Audio MIDI Setup. Users can also find the Phonic Firefly 202 USB Control program within the Applications menu.

PRODUCT OVERVIEW
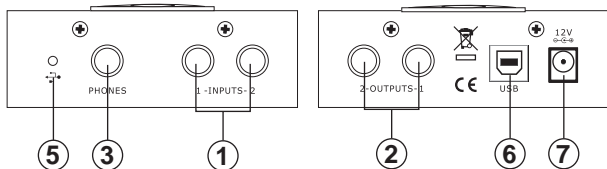
1. 1/4" TRS Inputs

Connect your balanced line-level input signals here using 1/4" TRS phone jack plugs. The signals from these connections are sent through the USB interface to the computer for recording.

2. 1/4" TRS Outputs

These jacks accept 1/4" TRS phone jack connectors and are for the output of balanced line-level signals. The signal sent through these outputs is taken from the USB interface. Typically this signal is defined by the user in their digital audio workstation (DAW) software.

3. Headphones Output

Plug standard stereo headphones or in-ear monitors into this 1/4" TRS phone jack connection. The headphones output is taken from the USB interface and is identical to that sent through the 1/4" TRS Outputs.

4. Level Control

This large jog wheel control allows users to adjust the output level of the signal that is sent to the headphones output.

5. USB Indicator

This small LED indicator will light up when a USB connection is established.
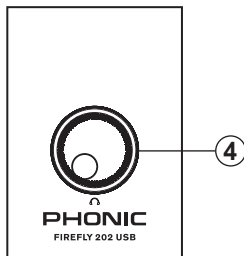
6. USB port

Connect the Firefly 202 USB to your computer through this 6-pin USB connection. As the Firefly 202 USB does not support powering through the USB interface, a 6-pin to 4-pin adapter can be used.

7. DC Power Input

Connect the Firefly 202 USB's DC power supply here.

FIREFLY 202 USB CONTROL PANEL

Using the Firefly 202 USB control panel, users can adjust various properties of their USB audio signals. The full control panel is currently only available on PC computers, while Mac users do have a minimal control panel for their Firefly 202 USB.
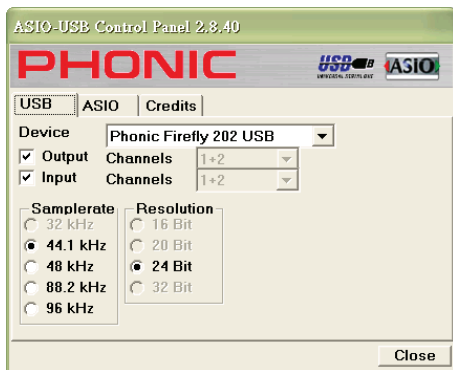
USB Tab: In the USB menu, users can select the device they wish to change the properties of, activate and deactivate the inputs or outputs, adjust the sampling rate or view the USB Resolution (this is permanently set to 24-bit). The sampling rate can be selected between 44.1, 48, 88.2 and 96 kHz.
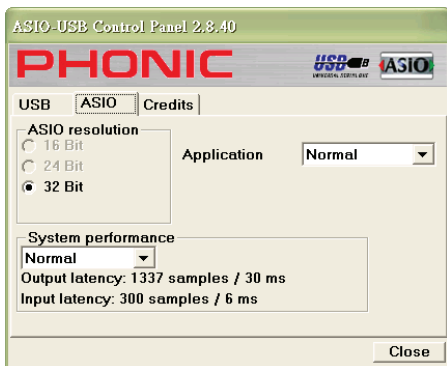
ASIO Tab: Within the ASIO tab, users can see the internal Resolution (once again, this is not selected by the user), adjust the USB driver priority within the operating system (Low, Below Normal, Normal, Above Normal or High) and adjust the buffer settings of the unit. There are 6 buffer settings total, as shown on the below graph.

Title	Output Latency	Input Latency
Fast	815 samples / 18 ms	172 samples / 3 ms
Highspeed	280 samples / 6 ms	93 samples / 2 ms
Normal	1337 samples / 30 ms	300 samples / 6 ms
Rapid	365 samples / 8 ms	172 samples / 3 ms
Relaxed Normal	2181 samples / 49 ms	556 samples / 12 ms
Relaxed	3069 samples / 69 ms	1068 samples / 24 ms

DIGITAL AUDIO WORKSTATION

The Firefly 202 USB's ASIO driver is compatible with the most popular DAW software, including (but definitely not limited to) Steinberg Cubase, Steinberg Nuendo, Cakewalk Sonar, Sony Sound Forge and Apple's Logic Pro.

TROUBLESHOOTING

Driver won't install

- Be sure not to connect the Firefly 202 USB until the installation instructs you 'disconnect and reconnect' the unit.
- Uninstall any previously installed driver. Even an unsuccessful installation attempt may have installed the control panel, so check the "Install/Uninstall Programs" menu in the Control Panel.
- Try disabling/closing any virus protection programs or firewalls you may have installed.

No audio is being recorded

- Make sure you have a signal connected to the Firefly 202 USB's inputs.
- Is the AC-DC power adapter connected and the unit is powered?
- Check the Firefly 202 USB control panel. If a connection has been established between the computer and the unit, then the cause is more likely software-based.
- Route all your input signals in your DAW software correctly. Be sure to select the ASIO driver as your default driver in that program, and assign your input channels to your project's tracks or buses (whichever may be the case for your software). Check your DAW software's operation manual for detailed instructions.

Distorted Sound or unexplained drop-outs

- Try increasing the buffer values in the Firefly 202 USB control panel.
- Close all unnecessary background programs or processes. Many programs may run in the background with no indication. It's important to either disable these or completely remove them.
- Reduce the amount of graphics acceleration your computer uses. This is typically done in the Control Panel's "Appearance" menu.

SPECIFICATIONS

Inputs (1 & 2)	2 x 1/4" TRS, Bal.
Outputs (1 & 2)	2 x 1/4" TRS, Bal.
Phones Output	1 x 1/4" TRS, Bal.
USB Interface	2 in & 2 out, 24-bit / 96 kHz
Control	1
Volume Controls	Rotary
Phones Level Control	Yes
Frequency Response (Input to output)	
20Hz ~ 20KHz	+0/-1 dB
S/N ratio	<-88 dBu
THD+N (Any output, 1KHz @ 0dBu, 20Hz to 20KHz, channel inputs)	<0.05%
Maximum Level	
Input	0 dBu
Output	+6 dBu
Phone Output	+2 dBu/100 ohm (1/100W)
Impedance	
Input	10 K ohms
Output	100 ohms
Phones	50 ohms
Power Requirement (external power supply, depends on region)	AC-DC adaptor, output 12V 750mA (6 Watt)

BLOCK DIAGRAM
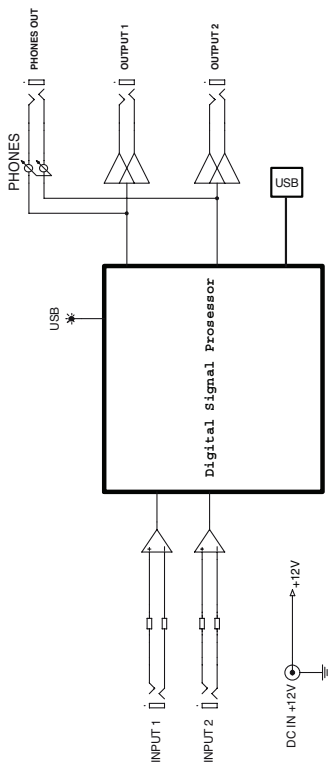
TO PURCHASE ADDITIONAL PHONIC GEAR AND ACCESSORIES

To purchase Phonic gear and optional accessories, contact any authorized Phonic distributor. For a list of Phonic distributors please visit our website at www.phonic.com and click on Get Gear. You may also contact Phonic directly and we will assist you in locating a distributor near you.

SERVICE AND REPAIR

For replacement parts, service and repairs please contact the Phonic distributor in your country. Phonic does not release service manuals to consumers, and advice users to not attempt any self repairs, as doing so voids all warranties. You can locate a dealer near you at http://www.phonic.com/where/.

WARRANTY INFORMATION

Phonic stands behind every product we make with a no-hassles warranty. Warranty coverage may be extended, depending on your region. Phonic Corporation warrants this product for a minimum of one year from the original date of purchase against defects in material and workmanship under use as instructed by the user's manual. Phonic, at its option, shall repair or replace the defective unit covered by this warranty. Please retain the dated sales receipt as evidence of the date of purchase. You will need it for any warranty service. No returns or repairs will be accepted without a proper RMA number (return merchandise authorization). In order to keep this warranty in effect, the product must have been handled and used as prescribed in the instructions accompanying this warranty. Any tempering of the product or attempts of self repair voids all warranty. This warranty does not cover any damage due to accident, misuse, abuse, or negligence. This warranty is valid only if the product was purchased new from an authorized Phonic dealer/distributor. For complete warranty policy information, please visit http://www.phonic.com/warranty/.

CUSTOMER SERVICE AND TECHNICAL SUPPORT

We encourage you to visit our online help at http://www.phonic.com/support/. There you can find answers to frequently asked questions, tech tips, driver downloads, returns instruction and other helpful information. We make every effort to answer your questions within one business day.

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