

iCON

MOBILE·U

4-In / 4-Out with +48V Phantom Power Recording USB Interface







User manual



CE FC



EN1630

<div style="text-align: center;">  <div style="background-color: black; color: white; padding: 2px 10px; font-weight: bold; margin: 5px 0;">CAUTION</div>  </div> <p style="text-align: center; font-size: small;"> RISK OF ELECTRIC SHOCK DO NOT OPEN RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIIR </p> <p style="text-align: center; font-size: x-small;"> CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK) NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED PERSONNEL </p> <p style="text-align: center; font-size: x-small;"> ATTENTION: POUR EVITER LES RISQUES DE CHOC ELECTRIQUE: NE PAS ENLEVER LE COUVERCLE. AUCUN ENTRETIEN DE PIECES INTERIEURES PAR L'USAGER. CONFIER L'ENTRETIEN AU PERSONNEL QUALIFIE. AVIS: POUR EVITER LES RISQUES D'INCENDIE OU D'ELECTROCUTION, N'EXPOSEZ PAS CET ARTICLE A LA PLUIE OU A L'HUMIDITE </p>	<div style="display: flex; flex-direction: column; align-items: center;">   </div> <p style="font-size: x-small;"> 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 electric shock to persons. Le symbol clair avec point de flèche à l'intérieur d'un triangle équilatéral est utilisé pour avertir l'utilisateur de la présence à l'intérieur du coffret de voltage dangereux non isolé d'ampleur suffisante. </p> <p style="font-size: x-small;"> exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance. Le point d'exclamation à l'intérieur d'un triangle équilatéral est employé pour avertir les utilisateurs de la présence d'instructions importantes pour le fonctionnement et l'entretien (service) dans le livret d'instruction accompagnant l'appareil. </p>
---	--

Important Safety Instructions

1. Read this manual thoroughly before using this unit.
2. Keep this manual for future reference.
3. Take notice of and comply with all warnings included in the user's manual or indicated on the appliance.
4. Follow all instructions included in this manual.
5. Do not expose this unit to rain or moisture. Avoid having water or other liquids spilled on this unit.
6. When cleaning the cabinet or other parts of this appliance, use only a dry or slightly damp soft cloth.
7. Do not block any ventilation openings or interfere with the proper ventilation of this unit. Install in accordance with the manufacturer's instructions.
8. Do not use or store near any heat sources such as radiators, heat registers, stoves, or other heat-producing appliances.
9. Do not interfere with 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. These are designated for your safety. If the provided plug does not fit into your outlet, consult an electrician.
10. Protect the power cord from being walked on or otherwise damaged by items placed on or against them. Particular attention should be given to the plugs, receptacles, and the point where the cord exits the appliance.
11. To avoid the risk of electrical shock, do not touch any exposed wiring while the unit is in operation.
12. Only use attachments/accessories specified by the manufacturer.
13. Unplug this unit and all connected electrical equipment during lightning storms or when left unused a long period of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the appliance has been damaged in any way or fails to operate normally.

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

Contents

- Introductions4
- What's in the package?4
- Features5
- Front Panel6
- Rear Panel.....7
- Mac driver installation8
- Software control panel.....10
- Windows driver installation11
- Software control panel.....14
- Software control panel (continued).....15
- Hardware Connections18
- Minimum System Requirements.....19
- Specifications20
- Service.....21

Introductions

Thank you for purchasing the ICON MobileU digital audio Interface. We sincerely trust this product will provide years of satisfactory service, but if anything is not to your complete satisfaction, we will endeavor to make things right.

In these pages, you'll find a detailed description of the features of the MobileU digital audio interfaces, as well as a guided tour through their front and rear panels, step-by-step instructions for their setup and use, and full specifications.

You'll also find a warranty card enclosed---please don't forget to fill it out and mail it so that you can receive online technical support at: www.icon-global.com. And so we can send you updated information about these and other ICON products in the future. As with most electronic devices, we strongly recommend you retain the original packaging. In the unlikely event the product must be returned for servicing, the original packaging (or reasonable equivalent) is required.

With proper care and adequate air circulation, your MobileU digital audio interface will operate without any trouble for many years. We recommend that you record your serial number in the space provided below for future reference.

Please write your serial number here for future reference:

Purchased at:

Date of purchase:

What's in the package?

- MobileU USB Recording Interface
- Driver Software CD
 - User manual & QSG
 - DAW software – Samplitude 11 silver ICON edition
- Quick Start Guide x 1
- USB 2.0 cable x 1

Features



The iCON MobileU USB recording interface provides an audio input and output module with USB connectivity. Main features include:

- 24-Bit 96/192KHz 4-In/4-Out USB Recording Interface
- 2x2 analog I/O full duplex recording and playback
- Dual MIC/Instrument preamps with individual gain control and phantom power switch
- 2 analog outputs on 1/4" TRS jacks
- S/PDIF I/O on RCA coaxial connectors
- 1 x 1 – 16 channel MIDI I/O
- PC – Direct monitoring adjustment knob.
- 1 headphone output with assignable source and individual volume control
- Flexible channel routing via the software control panel
- USB2.0 High Speed equipped and USB bus-powered
- Supports DirectSound, WDM and ASIO2.0
- Compatible with Mac OS (Intel-Mac) and Windows XP, Vista (32-bit/64-bit) & Windows 7 (32-bit/64-bit)
- Full duplex, simultaneous record/playback
- Rugged aluminum construction

Front Panel



1. “Mic/Inst” inputs 1/2

Unbalanced instrument and mic level inputs. These hybrid connectors will accept a standard 3-pin XLR plug or a 1/4” TS connector.

2. 48V phantom power switch

Press to supply +48V phantom power to the associated XLR input. This phantom power circuit is suitable for most condenser microphones.

3. Input gain level controls 1/2

These potentiometers control the input level of their associated analog Mic/Inst/Line input.

4. PC-Direct monitoring adjustment control

This potentiometer controls the amount of output signal level to the PC or direct output (i.e. bypassing the PC).

5. Headphone level control

This potentiometer controls the output level of the headphone output.

6. Headphone output

This output jack accepts a standard 1/4” stereo TRS headphone connector.

Rear Panel



1. USB 2.0 Connector

Connect it with the provided USB cable to your Mac/PC's USB connector. Your Mac/PC must have a USB2.0 connector in order to run the full speed of MobileU.

2. Line outputs 1/2

These are unbalanced analog outputs on standard 1/4" TS connectors at +6dBu line level.

3. S/PDIF coaxial I/O connectors

S/PDIF digital input and output on coaxial RCA connectors. The digital input is selected via the MobileU's software control panel, while the digital output will be sent to the coaxial.

4. MIDI I/O connectors

MIDI input and output on standard 5-pin DIN connectors

5. 12V/1A power adaptor

Connect the provided power adaptor here.

Note: MobileU is not able to work without the provided power adaptor connected. The USB bus power is not able to provide sufficient power supply for MobileU.

Mac driver installation

Please follow the step-by-step procedures below to install your MobileU USB recording interface and its driver.

1. Turn on your Mac

Note: Do not connect the MobileU digital audio interface to your Mac yet

2. Insert the Driver CD into your CD-Rom.

After you have inserted the provided Driver CD into your CD-Rom, a pop-up window should appear as shown in Diagram 1, then click on the "Mac" folder to open the installation files list. Click "ICON_MobileU.mpkg"

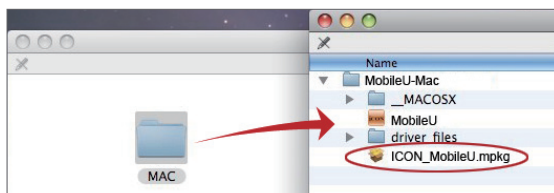


Diagram 1

3. Welcome Screen appears

Choose "Continue" when you see the Welcome Screen shown in Diagram 2

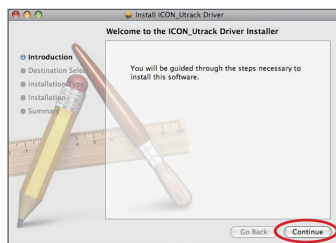


Diagram 2

4. Set install location

Click the "Change install location" button if you would like to set your preferred install location, otherwise click the "Install" button.

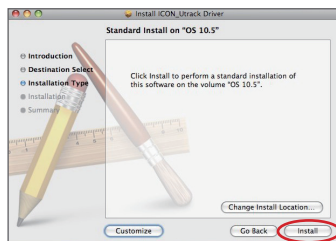


Diagram 3

5. Installation start

The driver installation has started, please wait until the process has completed.

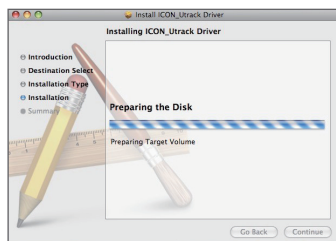


Diagram 4

6. Installation completed

The driver installation has completed successfully. Click the “Close” button.

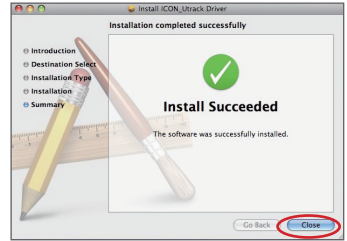


Diagram 5

7. Copy the software control panel shortcut logo to your desktop

Open the previous “Mac” folder. Copy the ‘MobileU’ software panel shortcut logo and paste it to your desktop.

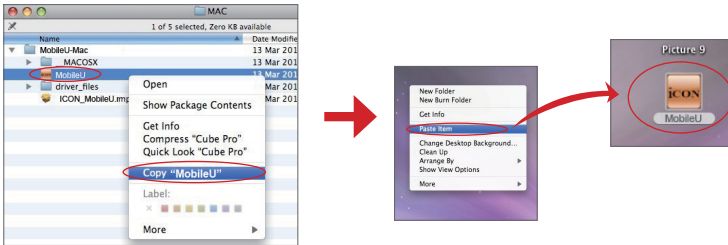


Diagram 6

8. Launch the software control panel

Click the MobileU’s software control panel shortcut logo you have just copied to your desktop to launch the software control panel.

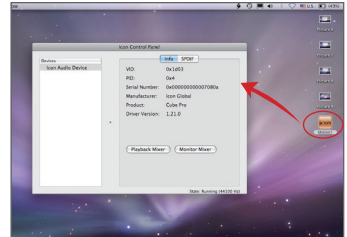


Diagram 7

9. Audio MIDI setup

Open the “Audio MIDI setup” window and check if the MobileU device has setup properly as shown below in diagram 8. If your MobileU device does not appear on the system settings, it means the driver did not install properly, go through the “Driver Installation” procedure again.

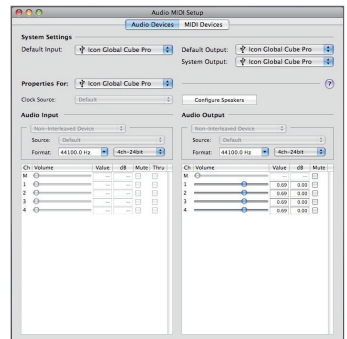


Diagram 8

Software control panel

The “Playback” and “Monitor” mixers work like a matrix mixer. Activate and adjust the correspondence input or output channel level. They are very useful and make your inputs and outputs very flexible. You may route any of your input(s) to any output(s).

Playback Mixer

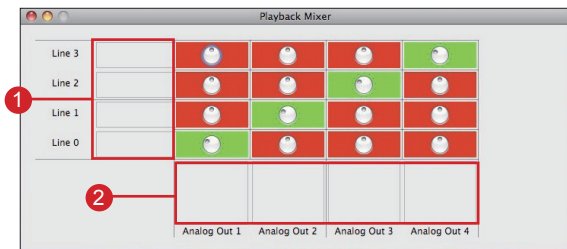


Diagram 9

1. Software outputs level metering

Ch 1,2 & S/PDIF output level metering

Showing the input level for the software input channel.

2. Hardware outputs level metering

Ch 1,2 & S/PDIF output level metering

Showing the output level for the hardware output channel.

Monitor Mixer

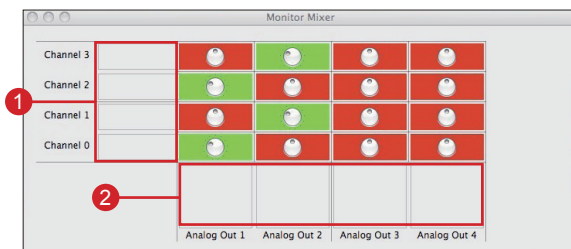


Diagram 10

1. Hardware inputs level metering

Ch 1,2 & S/PDIF input level metering

Showing the input level for the hardware input channel.

2. Hardware outputs level metering

Ch 1,2 & S/PDIF output level metering

Showing the output level for the hardware output channel.

Windows driver installation

Please follow the step-by-step procedures below to install your MobileU USB recording interface and its driver.

1. Turn on your computer

Note: Do not connect the MobileU digital audio interface to your computer yet

2. Insert the Driver CD into your CD-Rom.

After you have inserted the provided Driver CD into your CD-Rom, an Installation screen should appear as shown in Diagram 11, then click "Windows Driver" for the driver installation"

Note: If the Installation screen does not appear automatically. Go to the CD folder and double click "Setup"



Diagram 11

3. Installation Wizard appears

Choose "Next" when you see the Welcome Screen shown in Diagram 12



Diagram 12

4. License Agreement

Check mark the "I accept the terms in the License Agreement" and click "Next".

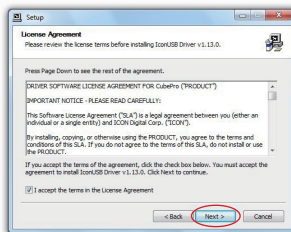


Diagram 13

5. Confirm driver installation

A confirmation on the driver installation screen will appear, click "Next".

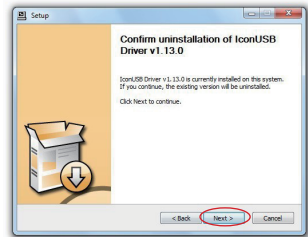


Diagram 14

6. Driver setup

Choose the location of the driver and click "Next" as shown in Diagram 15

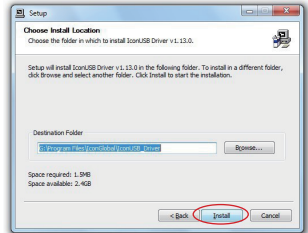


Diagram 15

7. Installation start

The installation process has started, the process may take some time depending on your computer performance, please be patient and wait for the process to finish.

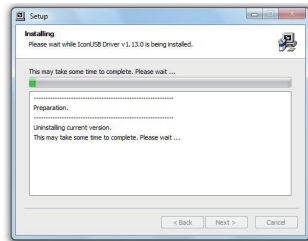


Diagram 16

8. Software installation window

A window as shown in Diagram 17 should appear. Choose "Install this driver software anyway"

Note: Although this message appears, the MobileU driver is fully tested and supports Windows XP, Vista & Windows 7

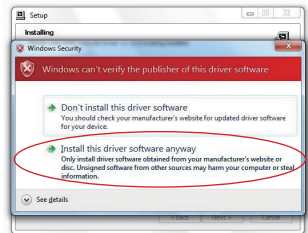


Diagram 17

9. Setup completed

A window as shown in Diagram 18 should appear. Choose "Next".

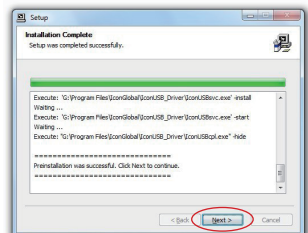


Diagram 18

10. Connect your MobileU digital audio interface

Now connect the MobileU digital audio interface to your computer's USB port and click "Finish".

Note: MobileU audio interfaces only support USB 2.0. Your computer must have an USB2.0 port.



Diagram 19

11. Installing device driver software

The MobileU driver is installing

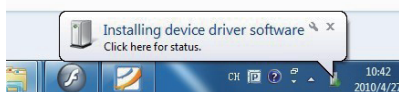


Diagram 20

12. Driver installation completed

MobileU driver installation has completed and is ready to use.

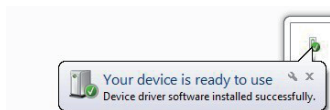


Diagram 21

13. Launch the software control panel

You may click the MobileU logo on the system tray to launch the software control panel (Page 14).

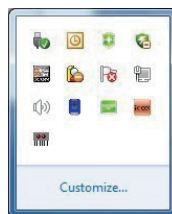


Diagram 22

Software control panel

1. Sample rate settings

Select your desired sampling rate from 44.1KHz to 192KHz on the pull down window shown on Diagram 23. Click "Apply" after the selection has been made to set the value.

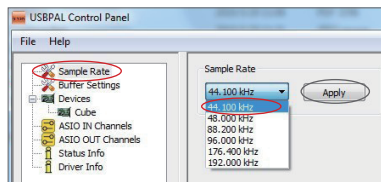


Diagram 23

2. Buffer Size settings

You may select the buffer size for "Streaming" and "ASIO". Click "Apply" after you have made the selections.

Note: If a clicking sound occurs, you should change to a larger buffer size for the settings. If the largest buffer size has been selected and there is still a clicking sound. It means your computer performance is not able to handle the task. (It is not caused by the MobileU digital audio interface)

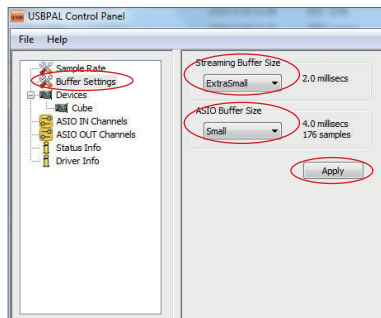


Diagram 24

3. Device settings

Shows the serial number & product ID of your MobileU device. If it doesn't show, it means your device is not properly installed. Please go through the "Driver Installation" process again (Page 11).

4. Monitor Mixer

Click this button to launch the "Monitor Mixer" (Page 15)

5. Playback Mixer

Click this button to launch the "Playback Mixer" (Page 16)

6. S/PDIF Status and Pass Through

Showing the S/PDIF device signal status.

7. S/PDIF Pass Through

"Tick" the box if you want S/PDIF signal pass through

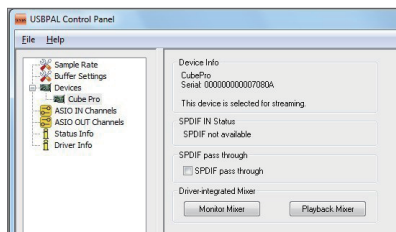
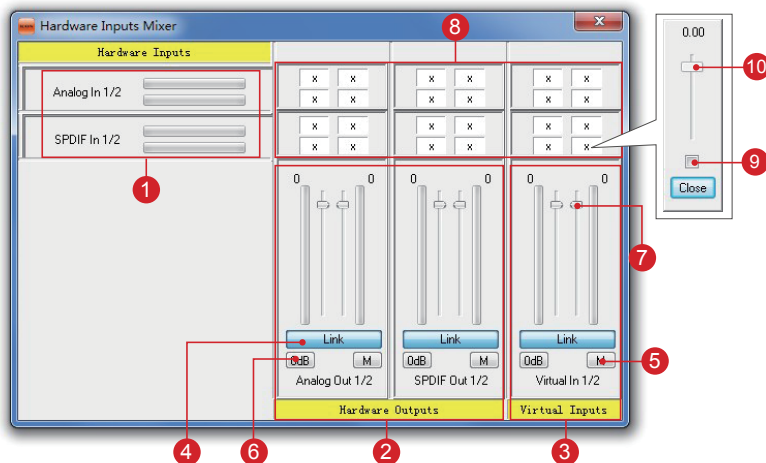


Diagram 25

Software control panel (continued)

Monitor Mixer



1. Hardware inputs level metering

Showing the input level for the hardware input channel.

2. Hardware outputs level metering

Ch 1,2 & S/PDIF output level metering

Showing the output level for the hardware output channel.

3. Virtual inputs level metering

Virtual1,2 input level metering

Showing the input level for the virtual input channel.

4. Link switch

Switch to adjust both channels level simultaneously.

5. Mute switch

Switch to mute the corresponding channel.

6. "0dB" switch

Switch to instantly adjust the corresponding channel to "0dB" level.

7. Gain control fader

Slide to adjust the gain level for the corresponding channel.

8. Inputs & Outputs Matrix switches

Switch to turn On/Off the corresponding hardware input channel route to the corresponding hardware output channel. The matrix is very useful and makes your inputs and outputs very flexible. You may route any of your input(s) to any output(s).

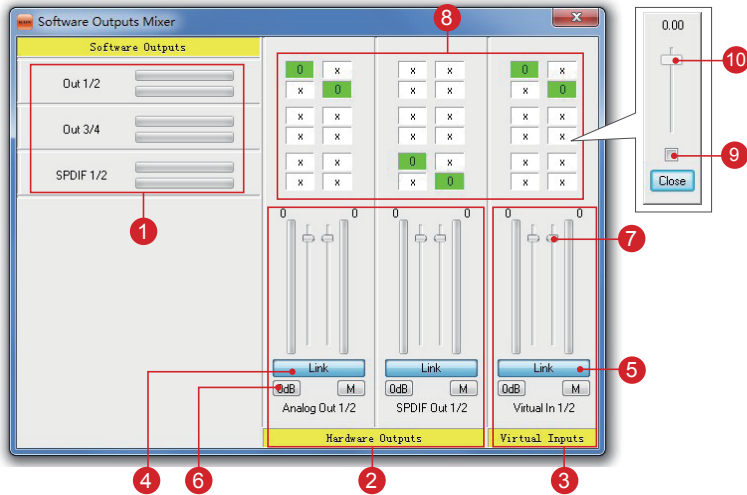
9. Inputs & Outputs Matrix Mixer

"Tick" the box to activate the mixer.

10. Inputs & Outputs Matrix Mixer Gain Control

Adjust the gain for the corresponding hardware channel. After finishing the adjustment, click "Close" to close the window.

Playback Mixer



1. Software outputs level metering

Ch 1,2 & S/PDIF output level metering
Showing the input level for the software input channel.

2. Hardware outputs level metering

Ch 1,2 & S/PDIF output level metering
Showing the output level for the hardware output channel.

3. Virtual inputs level metering

Virtual1,2 input level metering
Showing the input level for the virtual input channel.

4. Link switch

Switch to adjust both channels level simultaneously.

5. Mute switch

Switch to mute the corresponding channel.

6. “0dB” switch

Switch to instantly adjust the corresponding channel to “0dB” level.

7. Gain control fader

Slide to adjust the gain level for the corresponding channel.

8. Inputs & Outputs Matrix switches

Switch to turn On/Off the corresponding hardware input channel route to the corresponding hardware output channel. The matrix is very useful and makes your inputs and outputs very flexible. You may route any of your input(s) to any output(s).

9. Inputs & Outputs Matrix Mixer

"Tick" the box to activate the mixer.

10. Inputs & Outputs Matrix Mixer Gain Control

Adjust the gain for the corresponding hardware channel. After finishing the adjustment, click "Close" to close the window.

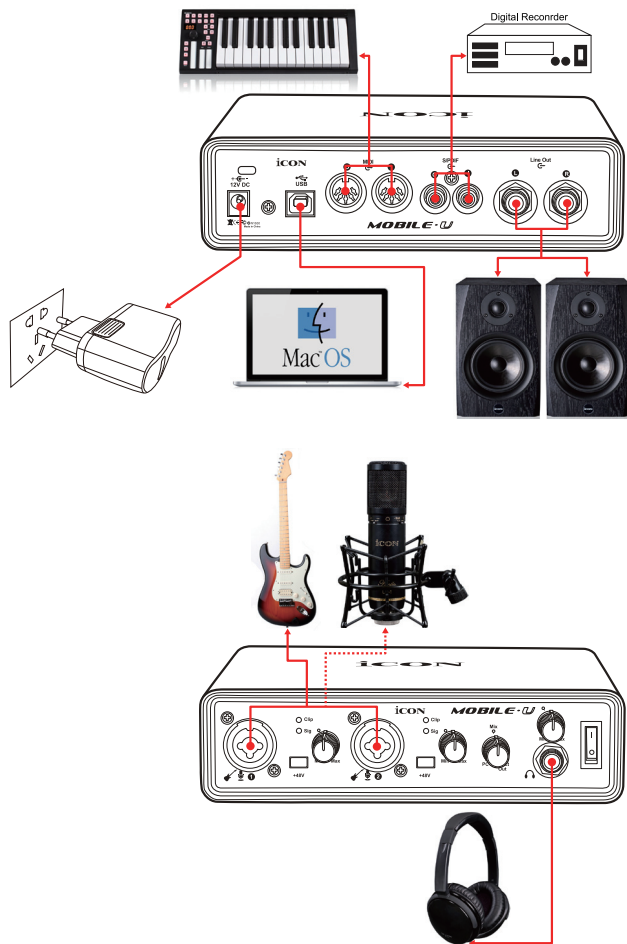
Hardware Connections

Connect the MobileU digital audio interface outputs to your amplifier, powered monitors or surround system. Two-channel stereo operation, the default outputs are channels 1 and 2.

If you are monitoring through headphones, connect your headphones to the device's headphone output.

Connect your microphones, instruments or other line level analog sources to the device's analog inputs.

Connect your S/PDIF digital devices to the coaxial digital I/O and MIDI device to the MIDI I/O.



Minimum System Requirements

Important: The MobileU digital audio interface is supported by Mac OS (Intel-Mac), Windows XP, Windows Vista and Windows 7 (32-bit/64-bit). The MobileU digital audio interface is not supported by Windows 98 or Windows Me. For Windows XP, you must be running SP1 or later. Visit the Windows update web pages to make sure you have the most current updates and fixes supplied by Microsoft. On the Mac, the MobileU digital audio interface is supported by Mac OSX version 10.5.5 or later (must be Intel-Mac). Earlier versions of Mac operating systems are not supported.

Windows OP:

Pentium 4 -1.0GHz or higher

1.0Ghz RAM

DirectX 8.1 or higher

Windows XP (SP1), Windows 2000 (SP3), Windows Vista or Windows 7

Mac OP:

Intel-Mac 1.0GHz or higher

1.0GHz RAM

OS 10.5.5 or later

Specifications

Mic/Inst Inputs 1/2 (Balanced; at Minimum Gain):

Frequency Response:	22Hz to 22kHz (+/-0.1dB)
Dynamic Range:	100dB, A-weighted
Signal-to-Noise Ratio:	-100dB, A-weighted
THD+N:	<0.0061% (-90dB)
Crosstalk:	-100dB @ 1kHz
Maximum Input level:	-3.8dBu, typical
Input Impedance:	Inst in: 500K Ohms, typical; Mic in: 1.8K Ohms, typical
Adjustable Gain:	> 50dB
Total Gain Range:	+54dB

Line Outputs 1-2 (TRS):

Frequency Response:	22Hz 22kHz (+/-0.1dB)
Dynamic Range:	102dB, A-weighted
Signal-to-Noise Ratio:	-102dB, A-weighted
THD+N:	<0.003% (-90 dB)
Nominal Output Level:	Balanced: +4dBu Unbalanced: -10dBV
Maximum Output Level:	Balanced: +10.2dBu, typical; Unbalanced: +2.0dBV, typical
Output Impedance:	150 Ohm
Load Impedance:	600 Ohm minimum

Headphone Output 1 (at Maximum Volume; Into 100 Ohm load):

Frequency Response:	22Hz to 22kHz (+/-1dB)
Power into Ohms:	90 mW into 100 Ohms
THD+N:	<0.06% (-66dB)
Signal-to-Noise Ratio:	-90dB, A-weighted
Max Output Level into 100 Ohms:	+2.0dBV, typical
Output Impedance:	75 Ohm
Load Impedance:	32 to 600 Ohms

Service

If your MobileU audio interface needs servicing, follow these instructions.

1. Ensure the problem is not related to operation error or external system devices.
2. Keep this owner's manual. We don't need it to repair the unit.
3. Pack the unit in its original packaging including end card and box. This is very important. If you have lost the packaging, please make sure you have packed the unit properly. ICON is not responsible for any damage that occurs due to non-factory packing.
4. Ship to the ICON tech support center or the local return authorization.

U.S. OFFICE:

ICON Digital Corp.
2222 Pleasant View Road Suite #1
Middleton, WI 53562 USA

ASIA OFFICE:

ICON (Asia) Corp.
Unit 807-810, 8/F., Sunley Centre,
No. 9 Wing Yin Street, Kwai Chung, NT.,
Hong Kong.

5. For additional update information please visit our website at:
www.icon-global.com



iCON®
www.icon-global.com
info@icon-global.com

