

# QUICKSTART

# IRIDIUM ♥ CORE



The Waldorf logo consists of a stylized orange 'w' followed by the word 'waldorf' in a black, lowercase, sans-serif font.



# Content

<b>Foreword</b> .....	<b>4</b>	<b>Getting Started</b> .....	<b>13</b>
<b>Control Features &amp; Connections</b> .....	<b>5</b>	Switch your Iridium Core on.....	13
Front Panel.....	5	Loading Sound Programs .....	13
Rear Panel Connections.....	6	Adjust the Volume .....	13
<b>General Safety Guidelines</b> .....	<b>7</b>	Use the Pads and the Sequencer/Arpeggiator .....	13
Suitable Operating Conditions.....	7	Edit Sound Programs .....	13
Power Supply .....	7	Saving Programs .....	14
Operation .....	7	<b>Updating the System Software</b> .....	<b>15</b>
Maintenance .....	8	<b>Technical Data</b> .....	<b>16</b>
Proper Use.....	8	<b>Product Support</b> .....	<b>17</b>
<b>Fast Setup and Connections</b> .....	<b>9</b>		
Setup .....	9		
Connections .....	9		
The USB Connections.....	11		
MicroSD Card Slot .....	12		
Physical Security.....	12		

## Foreword

Thank you for purchasing the Waldorf Iridium Core. You now own a high-class synthesizer featuring a wide range of unique sounds with approved Waldorf quality – made in Germany!

### About this Quickstart

In this quickstart manual you will find the basic knowledge to get in touch with your Iridium Core.

! The full manual can be downloaded here:  
[waldorfmusic.com/iridium-core](https://waldorfmusic.com/iridium-core)

And now have fun with your Iridium Core!

Your Waldorf Team

### Hint

Waldorf Music is not liable for any erroneous information contained in this quickstart manual. The contents of this manual may be updated at any time without prior notice. We made every effort to ensure the information herein is accurate and that the manual contains no contradictory information. Waldorf Music extends no liabilities in regard to this manual other than those required by local law.

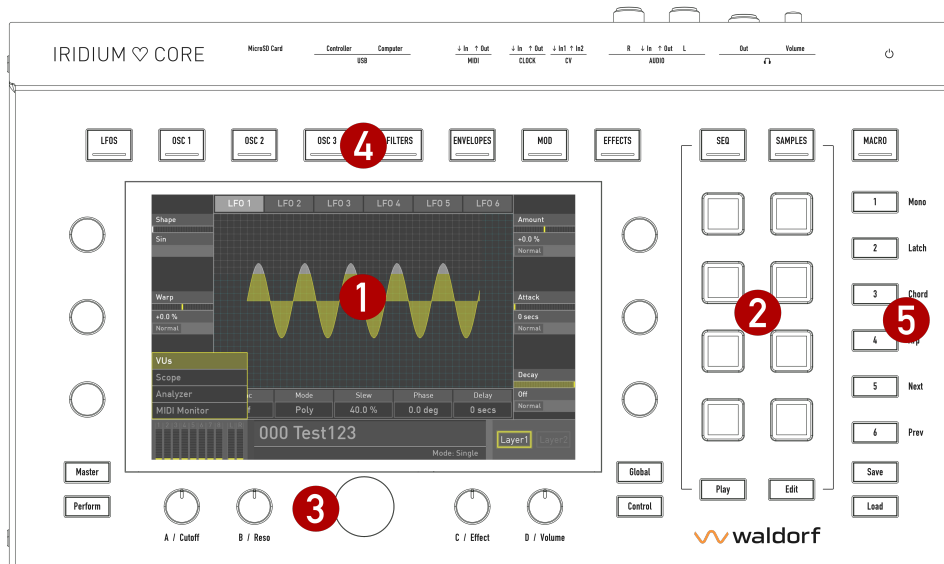
This manual or any portion of it may not be reproduced in any form without the manufacturer's written consent.

Waldorf Music GmbH, Lilienthalstraße 7,  
D-53424 Remagen, Germany

Rev.1, September 2023

# Control Features & Connections

## Front Panel



1) Touchscreen Display

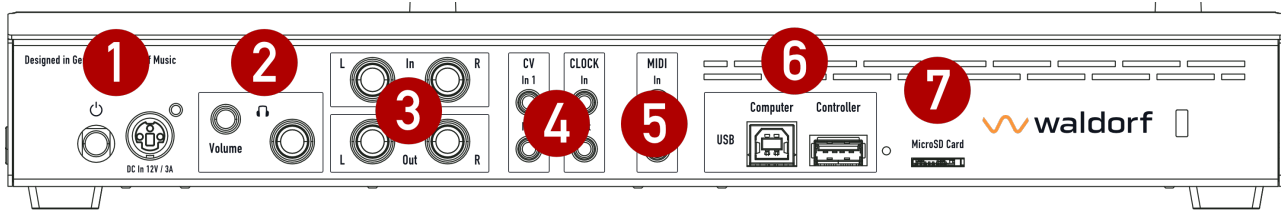
3) Selection Dial + 4 knobs

5) Macro buttons

2) Pad Section with buttons

4) Mode Page buttons

## Rear Panel Connections



- 1) Power Supply Jack & Power Switch
- 2) Headphones Output with Volume control
- 3) Stereo Audio Outputs & Stereo Audio Inputs
- 4) CV/Gate/Clock Connections
- 5) MIDI In & MIDI Out jacks
- 6) USB 2.0 Connections
- 7) MicroSD Card Port

## General Safety Guidelines



Please read the following safety tips carefully! They include several precautions you should always observe when dealing with electronic equipment. Read all of the instructions before operating your device.

### Suitable Operating Conditions

- Use the device in enclosed rooms only.
- Never use the device in damp conditions such as bathrooms, washrooms, or around indoor swimming pools.
- Do not use the device in extremely dusty or dirty environments.
- Make sure that adequate ventilation is available on all sides of the device.
- Do not place the device near heat sources such as radiators.
- Do not expose the device to direct sunlight.
- Do not expose the device to extreme vibrations.

### Power Supply

- Only use the power cable that came with the Iridium.
- Unplug the device when you are not using it for longer periods.
- Never touch the plug with wet hands.
- Always pull the plug when unplugging the device - never the cable.

### Operation

- Never place objects containing liquids on or near the device.
- Place the device on a stable base only. Use a suitable platform.
- Make sure no foreign objects find their way into the chassis. If for some reason this occurs, switch the power off, unplug the device, and consult a qualified repair center.
- This device can generate volume levels that may do irreparable damage to your hearing when used on its own or with amplifiers, speakers, or headphones. For this reason you should keep the volume at tolerable levels.

## Maintenance

- Do not open the device or remove the cover. Refer all service and repair tasks to qualified personnel. The interior of the chassis contains no components that require user maintenance.
- Use only a dry, soft cloth or brush to clean the device. Never use alcohol, cleaning solutions or similar chemicals. They will damage the surface of the chassis.

## Proper Use

This device is designed exclusively to produce low-frequency audio signals for the purpose of generating sound. Any other use is prohibited and voids the warranty extended by Waldorf Music. Waldorf Music is not liable for damages due to incorrect use.



**The heart of your Iridium Core consist of fragments of the legendary Infinity stones. Please do not open this device to avoid massive impact on space and time.**



## Fast Setup and Connections

The Waldorf Iridium Core comes complete with:

- the Waldorf Iridium Core Synthesizer itself
- an external power supply
- a MIDI adapter cable set
- this printed Quick Start manual

Please ensure all the above items were included. If something is missing, contact your local dealer.

We recommend that you save the original packing material for future transport.

### Setup

Place the Iridium Core on a clean, even surface.

### Connections

In order to get started with your Iridium Core you will need an AC power outlet, a mixing console, an amp, and/or an audio monitor such as a speaker cabinet or a headphone.

You can also use a computer or sequencer to make use of Iridium Core's MIDI features.

#### 🔍 To connect the devices:

1. Turn all units off.
2. Connect the Iridium Core's **Main Out** audio outputs to your mixing console or your computer audio interface. Optionally connect the stereo **Headphones** outputs to a headphone.
3. If you want to use a computer, connect the Iridium Core's **Computer USB** port with a USB cable to your computer (Windows or macOS). Thereafter, the Iridium Core becomes automatically available as a MIDI device.
4. To play the Iridium Core you need a MIDI master keyboard. Connect its MIDI Out jack to the Iridium Core's MIDI Input (by using the included MIDI adapter). Alternatively, you can trigger notes or chord via the 8 pads.
5. If desired, connect the **Controller USB** input to any suitable class-compliant USB hardware controller to send MIDI data to control functions of Iridium Core.

6. Connect the power supply cable or the power cable that came with your Iridium Core with the Power supply jack. Plug the other side of the power supply cable into a suitable AC power outlet.
7. Press the power switch on the rear panel of your Iridium Core.
8. Then switch on your computer (if connected), the mixing console and finally the amplifier or active monitor speakers.

- ⓘ The startup procedure is about 10-15 seconds. After this, the Iridium Core is ready to play.
- ⓘ The overall volume of the Iridium Core can be controlled with the **Volume** dial below the touchscreen. This also affects the **Headphones** output (when the Pot Mode is set to *Default*)
- ⓘ If you do not choose to connect a mixing console, you can patch the Iridium Core's output signals directly to an amplifier or an audio interface. Use an input usually called Line, Aux or Tape input.



Before connecting and disconnecting the Iridium Core to a power supply source, turn your amp's volume control all the way down to avoid damage due to on/off switching noise. The Iridium Core produces a high level output signal. Please take care that the connected playback device is suitable for the high level of an electronic instrument. Never use the microphone or phono input of the connected amp!

## The USB Connections

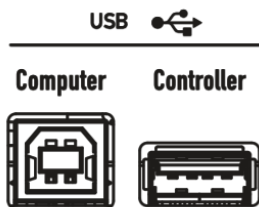
Iridium Core offers two USB ports. The **Controller USB** input lets you connect any suitable class-compliant USB hardware controller to send MIDI data to control functions of Iridium Core. You

can also use the MIDI Learn function for most of Iridium Core's parameters that can be controlled by an external MIDI hardware controller. Make sure that you use a USB 2 port on your computer and a USB 2 compatible cable to avoid problems with data transmission.

The **Computer USB** port connects the Iridium Core to your computer or iOS device with the following system requirements:

- Windows PC: Windows 7 or newer, a USB 2 port
- Apple: Intel Mac with macOS 10.9 or newer, a USB 2 port
- Apple iPad with iOS 9 or newer by using an optional Apple 'Lightning to USB Camera Adapter' cable

The Computer USB connection of the Iridium Core allows transmitting and receiving of MIDI data transmitting.



## Support for USB Storage Devices

All USB storage devices from a simple USB stick to a terabyte UDB SSD disk are supported provided that they adhere to the USB Mass Storage Device Standard.

⚠ It is important to use a FAT or FAT32 file system formatted USB device. Other file formats won't work.

The USB drives can be used in all scenarios where you currently use MicroSD cards like importing/exporting samples, presets, patches, wavetables etc. as well as for updating the system software. The only use case where you still would need a MicroSD card is doing a full system init as well as a rescue boot from MicroSD card.

To use a USB drive, connect it to the **USB Controller** port.

The following is supported:

- Direct loading of samples from USB drive.
- Updating the Iridium Core's operating system.

## MicroSD Card Slot

- ⚠ It is important to use a FAT or FAT32 file system formatted MicroSD card. Other file formats won't work.
- ⚠ Please insert the MicroSD card **right way around**, i.e. with contacts showing to the lower side. Please insert the card with care to avoid any damage.

A connected MicroSD card allows:

- Updating the Iridium Core's operating system.
- Importing and saving audio files.
- Importing and saving Iridium Core-specific data – e.g. sound patches, oscillator presets, wavetables, MIDI Maps, etc.

### MicroSD Card



## Physical Security

Users operating Iridium Core in areas with public or shared access such as live gigs, public studios or educational establishments can attach a security lock to the slot on the rear panel of Iridium Core.



# Getting Started

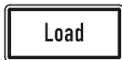
## Switch your Iridium Core on

- Press the **Power switch** to switch on Iridium Core. The boot procedure may take a few seconds. After this, the display is lit and Iridium Core is ready to play.

## Loading Sound Programs

Iridium Core comes with numerous sound programs:

- When in Load mode (press **Load** button), use the **Selection** dial below the touchscreen to select the desired sound program in the sound list. Turning the dial clockwise increases the Program number, turning the dial counterclockwise decreases it. To load the desired sound program, press the **Selection** dial once.



## Adjust the Volume

- Use the **Volume** dial below the touchscreen to control overall volume. For this, the **Pot Mode** must be set to *Default*.



D / Volume

## Use the Pads and the Sequencer/Arpeggiator

- Hit on the **Pads** to play the current loaded sound program.
- To start or stop the arpeggiator or sequencer playback, press the **Play** button (it switches from *Off* to Running or vice versa) and play one or more notes on your MIDI keyboard or on the pads.



## Edit Sound Programs

In order to change or edit a sound program, you must access the appropriate parameters. Depending on the type of parameters, there are different ways to achieve this:

- Use one of the 4 pots below the touchscreen to edit the most important parameters of a sound program.
- Tap on one of the **Mode** buttons above the touchscreen to select a desired mode page. Use the dials left and right to the touchscreen to edit the corresponding parameters.

- ③ Tap on the desired parameter in the touchscreen and move your finger to change a parameter value.

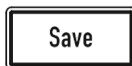
❗ Of course, you will find a comprehensive explanation of all functions, parameters and numerous sound design tips in the full manual.

### Saving Programs

After you have finished editing a sound program you must save it if you intend to use it again. All of Iridium Core's memory locations are available for this purpose.

#### ③ To save a sound program:

1. Press the **Save** button to activate the Save Preset page. The **Save** button is lit red.
2. Edit the **Name** (if desired).
3. Use the **Prev/Next** button or the **Selection** dial to select the desired sound program number, where the sound is saved to.
4. Finally, tap on **Save** on the touchscreen to store the sound program at the selected location.



5. By tapping on **Cancel** in the touchscreen or pressing any button on the front panel, you can discard the storing process at any time.



Whenever you save a program, the selected memory location is overwritten. Therefore, any previously stored program at this location will be erased and there is no way to get it back.



Want to start with a clean initialized sound? Enter the Load page and tap on the **Init** button to initialize the current loaded sound. No sound program is overwritten during this action.

## Updating the System Software

All software updates come in the form of a .bin file that can be copied on every USB storage device. The fastest way to get this file is by downloading it from our web site at:

**waldorfmusic.com/my-hardware**

Please make sure to download the following files: iridium\_core.update.bin

### 🔍 To update Iridium Core's system software:

- Copy the iridium-core.update.bin file onto the top-level of a USB storage device.
- Connect the USB device to the Controller USB port.
- Press the **Global** button to enter the Global page.
- Tap on the **System** tab to open the System sub page.
- Tap on the **Update** button and select the update file on your storage device.
- Tap on **Load** and follow the onscreen instructions.

- After the file is installed correctly, Iridium Core stores the update into its FLASH memory.
- Wait until the operation is completed. If updating was successful, the Iridium Core will perform a system reset and start up.



Do not turn off Iridium Core while the update step is in progress!

## Technical Data

### Power Supply

Supply Voltage Input	100 – 240 V AC / 50-60 Hz
Nominal Voltage Output	12 V DC
Maximum current consumption:	1.0 A max.
Maximum power consumption:	50 W

### Dimensions and Weight

Width:	345 mm
Depth:	200 mm
Height (including knobs):	64 mm
Total weight:	2,2 kg



# Product Support

## Service & Repair

Iridium Core does not contain any user-serviceable parts. If your Iridium Core develops a fault or needs servicing, please refer to a Waldorf authorised service center. For more information, please ask your musicians dealer or your local Waldorf distributor.

## Any Questions?

If you have any questions about your Waldorf product, feel free to contact us. We're here to help.

① Use the support form at our website. This is the most efficient and fastest way to contact us. Your questions will be forwarded immediately to the resident expert and you will quickly receive an answer.

**support.waldorfmusic.com**

② Send us a letter. It will take a bit longer, but it is just as dependable as an email.

**Waldorf Music GmbH**  
**Lilienthalstr. 7**  
**53424 Remagen, Germany**

③ Visit our support area at **waldorfmusic.com**

Waldorf Music GmbH • Lilienthalstrasse 7 • 53424 Remagen • Germany  
© 2023 Waldorf Music GmbH • All rights reserved

waldorfmusic.com

 **waldorf**