Waves Axis One

Computer for Waves Applications

Getting Started Guide



Axis One

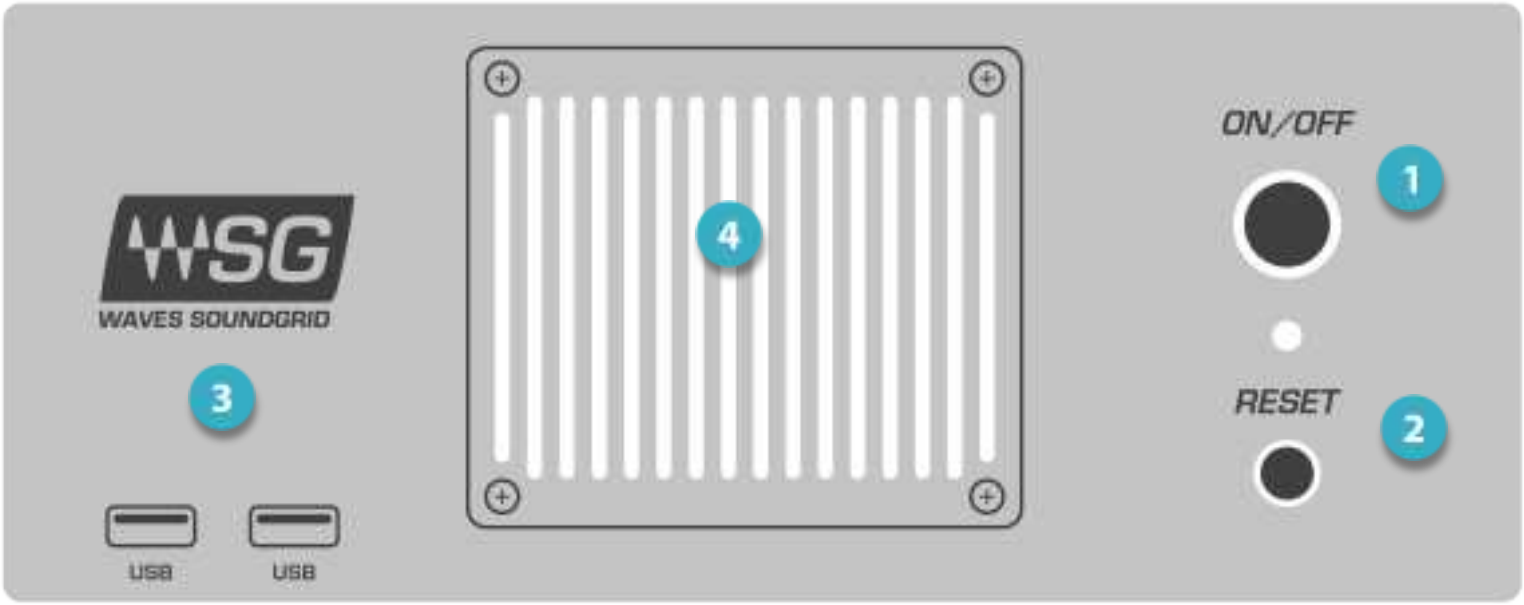
Axis One is a Windows-based computer designed to meet the specific needs of Waves applications. It's physically rugged and operationally robust, and it perfectly conforms to the processing profile of Waves applications. Its small footprint lets you place it anywhere on your desk or next to a half-rack server on a rack shelf. It has ample USB and HDMI connectors, as well as two Ethernet ports, so you can connect all the devices you need to run a large show.

Axis One operates on Windows 10 and is optimized to run Waves V10 software. It features:

- Intel® i5 8500 Processor
- 16 GB DDR4 RAM
- 256 GB SSD internal storage
- 2 HDMI ports, 1 DisplayPort
- 1 SoundGrid port (EtherCON connector)
- 1 Ethernet port for non-SoundGrid LAN connections
- 8 USB-2/USB-3 ports, 1 USB-C port
- Rack-mountable case, 2U half-rack

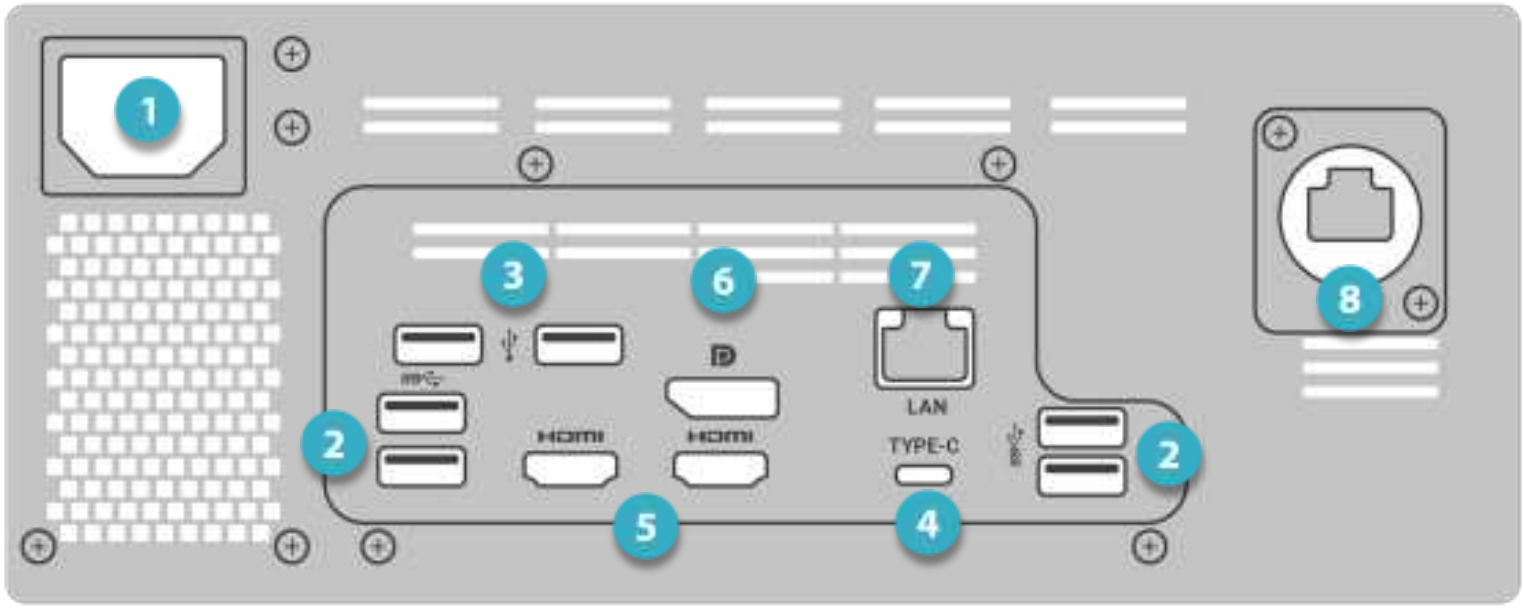
Connections and Controls

Front Panel



1	Power switch and light	Hold for five seconds to shut down.
2	Computer reset switch	Hard reset: restarts the computer.
3	Two USB-3 ports	These ports support any USB-3 compatible external drive. Removable flash drives are limited to 32 GB in these ports.
4	Fan grill	Do not block fan grills on front or back panels.

Real Panel



1	Power connector (C13)	110–220 volt auto-switching
2	Four USB-3 ports	
3	Two USB-2 ports	
4	One USB-C port	
5	Two HDMI ports	The HDMI ports and the DisplayPort can be used interchangeably, depending on display connections

6	One DisplayPort	and adaptors. The ports support resolutions from 1280x768 to 1920x1080.
7	LAN port	RJ-45 Gb Ethernet connector. Use this 1 Gb port for all non-SoundGrid networks, including internet.
8	SoundGrid network port	EtherCON connector. This 1 Gb port connects to the SoundGrid network switch. Do not use for other purposes.

Setup Guide

Follow these steps to prepare your Axis One computer for operation with Waves applications.

Hardware Connections

1. Connect the power cable to mains for the computer and all devices.
2. Connect the keyboard and mouse.
3. Use the LAN Ethernet port to connect to your LAN.
4. Connect the EtherCON port to the SoundGrid network 1Gb switch. Reserve this port for SoundGrid only.
5. Connect up to three displays to the video ports. There are two HDMI ports and one DisplayPort.
6. If you're using touch screen displays to control the application, connect USB cables between the computer and each display. Install the relevant display drivers.

Display Setup

In this example, we will configure an Axis One computer with an eMotion LV1 mixer.

1. Set monitors to the recommended resolution for multi-touch: 1280x768.
2. When multiple displays are set to this resolution, an unexpected aspect ratio may appear in some displays. In these situations, set the resolution to 1360x768.
3. Calibrate the screen for touch input with the Tablet PC Settings in the Windows Control Panel.
4. When using more than one display, you will likely want to see a different application window on each display. To "tear off" a window in eMotion LV1, grab a window tab at the top of the page and drag it down. The detached window is now a freestanding panel that you can move to any display.

WAVES SOFTWARE

Axis One comes with Waves v10 software preinstalled. If your Waves licenses are stored on a disk on key, simply inset it and open LV1 or other Waves applications. That ought to get you up and running. We suggest that you check to see if the installed software is up to date.

To *manage your license*, *install new software*, update your existing software, or try a demo, use the Waves Central application.

1. Waves Central is an application used to download and install all Waves software products, as well as to manage licenses. It's preinstalled on Axis One. If ever you need to reinstall Waves Central, you can find it here: www.waves.com/downloads.
2. Open Waves Central using your Waves account credentials. The application may update when launched. This is normal. If you see a notice at the top of the screen, "Updates Available," you can update all of your products now or you can wait for a more convenient time.
3. At the top of the window, you can choose to manage licenses or install software products. Licenses and products are installed in a very similar manner. Please refer to the Waves Central user guide: https://www.waves.com/1lib/pdf/central/waves-central.pdf

Your Waves license can be sent directly to the host computer or to a removable flash drive ("disk on key"). Using a portable flash drive makes it much easier to move from one computer to another. If the plugins and presets that you'll be using for the show are already installed on your host computer, just plug in the flash drive and you're set.

The two front-panel USB-3 ports can accept removable flash drives no larger than 32 GB. Other types of drives can be used with these ports without restriction. The rear-panel ports can accept flash drives of any size.

Waves Central is also used to move licenses *between* host computers. You can install software and licenses directly to any internet connected computer. If your production computer is not connected to the internet, prepare an offline installer on a computer that's connected to the internet, and then install from that file. Refer to the Waves Central user guide for details.

Setting up eMotion LV1

All devices should be properly connected and powered on. Software, plugins, and licensees should be installed. Launch LV1 and open the Setup window. Go to the System Inventory page.

Start Auto-Configure. This function locates the Axis One Ethernet port that's connected to the SoundGrid network, discovers and assigns devices, and patches audio. If Auto-Configure cannot locate the correct port, use the Port drop-down menu to assign it manually. Then re-run Auto-Configure.

When Auto-Configure is complete, there's a good chance that one or more of the I/O devices or servers will need a firmware update. This is indicated by a blue FW button on the device icon. Click the button to start. Follow the prompt and restart the I/O device when the update is finished.[1]

The I/O devices and server(s) should now be up and running in the Device Racks. You're now ready to patch audio and start mixing.

Please refer to the eMotion LV1 user guide for comprehensive instructions about setting up and using the mixer.

Specifications

Electrical
110/220v, 60 Hz or 50 Hz, auto-switching
Typical power consumption:
@120 VAC: 37 watts (+/-20 watts), 0.37 A
@220 VAC: 35 watts (+/-20 watts), 0.27 A

Dimensions
Width: 22 cm/ 8.66 in
Length (front to back): 25.2 cm / 9.9 in
with rear connector: 25.6 cm / 10.7 in
Height: 8.6 cm / 3.39 in

Software Enclosed
Windows 10
Waves V10 software
Waves Central application

[1] For the SoundGrid network to operate properly, device firmware must be up to date with the eMotion LV1 application software that's currently running. If these are not in sync, you will be prompted to update the firmware.