**Axis Scope and Axis Proton**

Axis Scope and Axis Proton are Windows-based computers designed specifically for Waves audio applications. They are physically rugged and operationally robust, and they conform perfectly to the processing profile of Waves host applications, such as eMotion LV1 live mixer and SuperRack live plugin rack.

Axis Scope and Axis Proton each have a small half-rack footprint, so they can sit on a desktop or share a rack shelf with a half-rack SoundGrid server or another device. Axis Scope is 2U tall, Axis Proton is 1U. They have ample USB and HDMI connectors, as well as two Ethernet ports, so you can connect all the devices you need to run a show.

**Connections and Controls**

*Axis Scope: Front Panel*

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2x USB 2 ports</td>
</tr>
<tr>
<td>2</td>
<td>Power switch and light</td>
</tr>
</tbody>
</table>
Axis Scope: Rear Panel

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>IEC power connector</td>
</tr>
<tr>
<td>2</td>
<td>4x USB 3 ports</td>
</tr>
<tr>
<td>3</td>
<td>1 HDMI port</td>
</tr>
<tr>
<td>4</td>
<td>1 DisplayPort</td>
</tr>
<tr>
<td>5</td>
<td>Network port</td>
</tr>
<tr>
<td>6</td>
<td>Waves SoundGrid network port</td>
</tr>
</tbody>
</table>
Axis Proton: Front Panel

1. 2x USB 2 ports
2. Power switch and light
   Hold for five seconds to shut down.

Axis Proton: Rear Panel

1. IEC power connector
   100~240 VAC 50/60 Hz, 15 W; auto switching
2. 2x USB 3 ports
3. 2x HDMI ports
4. Network port
   RJ-45 Gb Ethernet connector. Use this 1 Gb port for all non-SoundGrid networks, including internet.
5. Waves SoundGrid network port
   This 1 Gb port connects to the SoundGrid network switch. Do not use this port for other purposes.
Setup Guide

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

**HARDWARE CONNECTIONS**

1. Connect the power cable to mains for the computer and all devices. All SoundGrid hardware devices must be grounded (earthed) according to local regulations.
2. Connect the keyboard and mouse.
3. Use the LAN Ethernet port to connect to your LAN. *Do not use this port for the SoundGrid network.*
4. Connect the WSG port to the SoundGrid network 1Gb switch. Reserve this port for SoundGrid only.
5. Connect up to two displays to the video ports. There are one HDMI port 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, and refer to display’s user guide for details.

**DISPLAY SETUP**

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

1. Calibrate the screen for touch input with the Tablet PC Settings in the Windows Control Panel.
2. 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.

Refer to the eMotion LV1 user guide to learn more about floating windows.
**Waves Software**

Axis Scope and Axis Proton come with Waves v13 software preinstalled. If your Waves licenses are stored on a USB flash drive ("disk on key"), simply insert the drive into an Axis USB port and then open LV1 or another Waves application. The host will locate the licenses.

**WAVES CENTRAL**

To manage your licenses, install new software, update your existing software, or try a demo, use the Waves Central application. Waves Central is preinstalled on your Axis computer. We suggest that you regularly visit Waves Central to check that the installed software is up to date. To activate or move licenses, follow these steps:

1. Open the Waves Central app and enter your Waves account credentials. Waves Central may update when launched. This is normal. If you see a notice at the top of the screen, “Updates Available,” you can update all your products now or wait for a more convenient time.

2. **On the left sidebar, 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 for instructions.**

3. Activate your Waves licenses on your Axis host computer or a removable flash drive. Using a portable flash drive makes it easier to move from one computer to another, or from one venue to another. Say, for example, that you built a session on your studio computer and now you want to use the session in a concert setting. Install the necessary plugins and presets in the computer at the new venue (this can be done without your license). Plug in your USB flash drive, and you're ready to go.

4. You can also use Waves Central to move licenses between host computers (without using a flash drive) using the Waves Central License Cloud.

If ever you need to reinstall the Waves Central app, you can find it here: [www.waves.com/downloads](http://www.waves.com/downloads).

If your production computer is not connected to the internet, prepare an offline installer on an internet-connected computer, 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 computer’s Ethernet port that’s connected to the SoundGrid network, discovers and assigns devices, and then 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.

---

**Battery Disposal Information**

![CAUTION](image)

Risk of explosion if the battery is replaced with an incorrect type. Batteries should be recycled where possible. Disposal of used batteries must be in accordance with local environmental regulations.

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.
Specifications

**Axis Scope**

**Electrical**
100~240 VAC 50/60 Hz, 65 W auto switching

**Computer**
CPU: i5-10600
8 GB RAM
256 GB SSD internal storage
Max environmental temp: 40°C / 104°F

**Connectivity**
4x USB 3.0, 2x USB 2.0, 1x HDMI, 1x DisplayPort
2x RJ45

**Physical**
- **Case**:
  - Width: 22 cm / 8.7 in
  - Depth: 28.4 cm / 11.2 in
  - Height: 8.6 cm / 3.4 in
- **Rubber Feet**:
  - Height: 4 mm / 0.15 in

**Sampling Rates**
44.1, 48, 88.2, 96 kHz

**Software Enclosed**
- Windows 10
- Waves V13 software
- Waves Central application

**Axis Proton**

**Electrical**
100~240 VAC 50/60 Hz, 15 W auto switching

**Computer**
CPU: Celeron J4125
8 GB RAM
256 GB SSD internal storage
Max environmental temp: 40°C / 104°F

**Connectivity**
2x USB 3.0, 2x USB 2.0, 1x HDMI
2x RJ45

**Physical**
- **Case**:
  - Width: 22 cm / 8.7 in
  - Depth: 27.7 cm / 10.9 in
  - Height: 4.2 cm / 1.7 in
- **Rubber Feet**:
  - Height: 4 mm / 0.15 in

**Sampling Rates**
44.1, 48 kHz

**Software Enclosed**
- Windows 10
- Waves V13 software
- Waves Central application

**Compliance**
UL, CE, FCC, CB