

Axis Scope X15 Quick Start Guide

OVERVIEW

Axis Scope X15

Axis Scope X15 is a Windows-based computer designed specifically for Waves audio applications. It is physically rugged and operationally robust, and it conforms perfectly to the processing profile of Waves host applications, such as the **eMotion LV1** live mixer and **SuperRack** live plugin rack.

Axis Scope X15 has a small half-rack footprint, so it can sit on a desktop or share a rack shelf with a half-rack SoundGrid server or another device. It is 2U tall. 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 show.

This guide covers hardware connections, first-time setup, Waves software and licensing, and specifications. For full instructions on the mixer itself, see the **eMotion LV1 user guide**.

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Connections and controls

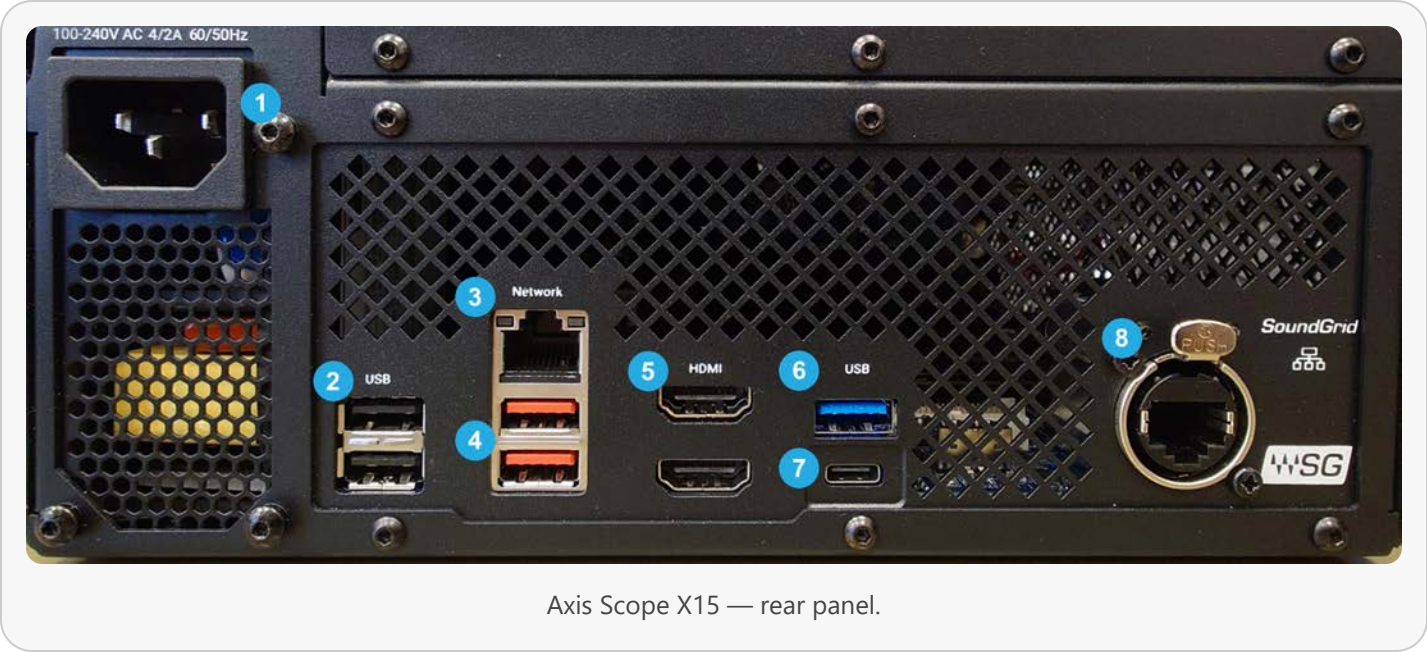
Front panel



Axis Scope X15 — front panel.

#	Control	Description
1	2x USB 2.0 ports	0.5 A.
2	Power switch and light	Hold for five seconds to shut down.

Rear panel



Axis Scope X15 — rear panel.

#	Connector	Description
1	IEC power connector	110/220 V, 90 W; auto switching.
2	2x USB 2.0 ports	0.5 A.
3	Network port	RJ-45 Gb Ethernet connector (Intel® I219V). Use this 1 Gb port for all non-SoundGrid networks, including internet.
4	2x USB 3.0 ports	0.5 A.
5	2x HDMI 2.1 ports	Support resolutions up to 4K at 120 Hz and 8K at 60 Hz.
6	1x USB 3.2 port	0.5 A.
7	1x USB-C 3.2 port	1.0 A. Also carries DisplayPort video, so it can drive a third display.
8	Waves SoundGrid network port	This 1 Gb etherCON port (Intel® I226V) connects to the SoundGrid network switch. Do not use this port for other purposes.

Setup guide

Follow these steps to prepare your Axis Scope X15 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 1 Gb switch. Reserve this port for SoundGrid only.
5. Connect up to **three displays**: the two **HDMI 2.1** ports and the **USB-C** port, which carries DisplayPort video.
6. If you are 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 the display's user guide for details.

Display setup

In this example, we will configure an Axis Scope X15 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 X15 comes with Waves V16 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 Scope X15. 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 an **"Updates Available"** notice at the top of the screen, 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 Scope X15 or on 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 are 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 at www.waves.com/downloads.

No internet at the venue? 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, and software, plugins and licenses should be installed. Launch LV1, open the **Setup** window and go to the **System Inventory** page.

1. Start **Auto-Configure**. This function locates the computer's Ethernet port that is 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.
2. When Auto-Configure is complete, there is 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.

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

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

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

Specifications

Category	Specification
Electrical	110/220 V, 90 W; auto switching
Computer	CPU: Intel® Core™ Ultra 5 235 16 GB RAM 512 GB SSD internal storage
Connectivity	USB — 2x USB 2.0 front panel (0.5 A) 2x USB 2.0 rear panel (0.5 A) · 2x USB 3.0 rear panel (0.5 A) 1x USB 3.2 rear panel (0.5 A) · 1x USB-C 3.2 rear panel (1.0 A, with DisplayPort) Video — 2x HDMI 2.1, supporting resolutions up to 4K at 120 Hz and 8K at 60 Hz DisplayPort on the rear USB-C port Network — 2x RJ45: Intel® I219V (network) and Intel® I226V (etherCON port)
Physical	Width: 22 cm / 8.7 in · Height: 8.6 cm / 3.4 in · Depth: 28.6 cm / 11.3 in Device weight: 3.8 kg / 8.4 lb Package weight: 5.4 kg / 11.9 lb
Environment	Operating temperature range: 10° to 35°C / 50° to 95°F Max environmental temperature: 40°C / 104°F
Sampling rates	44.1, 48, 88.2, 96 kHz
Software enclosed	Windows 11 Waves V16 software Waves Central application
Compliance	UL, CE, FCC, CB

Battery disposal information

CAUTION — 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.