MULTI-INPUT ADAPTER

XIM MATRIX

User Manual

Xbox Series X|S · PlayStation 5 · Xbox One · PlayStation 4 · PC

READ THIS FIRST

A Windows PC or Mac is required.
Firmware is updated over USB from a PC running Windows or a Mac. This cannot be done from a phone or from your console. Even a brand-new XIM MATRIX may have firmware that is out of date.

This is an input adapter.
It lets you use a mouse and keyboard, joystick, gyro controller or cross-console controller on your console. It does not add aim assist, and it cannot import or run third-party script files.

A flashing light is a message, not a failure.
If your XIM MATRIX is blinking red, purple or yellow, it is reporting a specific condition — most of which you can resolve yourself. See Section 9.

XIM is free to use.
There are no subscriptions and no in-app purchases. Never pay anyone for a Config — see Section 11.

All information in this manual is taken from the official XIM user guide at guide.xim.tech and from written confirmation provided by XIM Technologies.

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1. What XIM MATRIX Is

XIM MATRIX is a multi-input adapter. It supports mice, controllers (including gyro and cross console), keyboards, joysticks, and any combination of these, on Xbox Series X|S, PlayStation 5, Xbox One, PlayStation 4 and PC.

It features XIM's Smart Translator precision aim system, which converts your input into precise controller output, and Smart Actions, a built-in macro engine. XIM also provides input assistance and adaptability for gamers with disabilities.

> **What XIM MATRIX does not do.**
> It does not provide aim assist or auto-aim, and it cannot import or run Cronus Zen, ReWASD, or any other third-party script file. Smart Actions macros are composed entirely inside the XIM Manager app.

Smart Actions scenarios

Smart Actions combines sequences of actions to achieve input automation. Supported scenarios include:

- Auto Fire and Recoil Control
- Vehicles and Parachutes
- Radial Menus and Weapon Loadouts
- Looting and Custom WASD
- Sub-Configs

2. Ports and What Goes Where

Port 1 & Port 2 (left and right sides)	Your input devices — mice, keyboards, and controllers.
Port 3 (back)	Authentication port. Used for Xbox and PlayStation 4 console authentication only.
Port C (back)	Connects XIM MATRIX to your console or PC. A USB A-to-C cable is included for this purpose.
Ethernet port (back)	Used for PlayStation 5 only.
Pairing button	Used to pair wireless devices and to enter firmware update mode.

> **Cables you must supply yourself.**
> The USB cable for your Xbox or PlayStation 4 authentication controller is not included, and neither is an Ethernet cable for PlayStation 5.

3. Supported Devices

3.1 Wired — Ports 1 and 2

- Mice and keyboards
- Xbox Elite, Series and One controllers, including officially licensed third-party wired controllers
- PlayStation DualSense, DualShock 4 and 3, and Move Navigation controllers
- Switch Pro controllers
- XInput-compatible controllers
- DirectInput-compatible controllers
- XIM NEXUS controllers

Gyro aim over wired connection: PlayStation DualSense, DualShock 4, Switch Pro, JoyCon.

3.2 Wireless — Bluetooth

- Xbox controllers with Bluetooth
- PlayStation DualSense, DualShock 4 and 3
- Switch Pro controllers
- Switch JoyCons
- XIM NEXUS

Gyro aim over wireless connection: PlayStation DualSense, DualShock 4, Switch Pro, JoyCon.

3.3 Controller Rules

Xbox	Officially licensed third-party **wired** Xbox controllers are supported and can be used for authentication. Only **one** wired Xbox controller may be connected at a time — XIM MATRIX does not support multiple wired Xbox controllers.
PlayStation & Nintendo	Genuine first-party controllers are required. Third-party PlayStation and Nintendo controllers are not supported.
Multiple gamepads	Gamepads vary in capability, so only one connected gamepad is active at a time — whichever one you are currently using. Mice and keyboards are not affected by this.

4. Output Modes

When you create a Config in XIM Manager you choose what XIM MATRIX presents itself as to your console or PC. Each output mode has different requirements.

Output	Platform / Connection	What else you need
Xbox Controller	Xbox, PC — USB	An Xbox controller for authentication
DualSense Controller	PlayStation 5 — LAN	Remote Play over your local network
DualSense Controller	PlayStation 5 — USB	A P5General (third-party, sold separately)
DualSense Controller	PC — USB	A DualSense for authentication
DualShock 4	PlayStation 4, PC — USB	A DualShock 4 v2 for authentication
XInput Controller	PC — USB	No additional devices required
Mouse and Keyboard	PC, Xbox, PS5 — USB	No additional devices required
Mouse + Keyboard + Controller	PC only — USB	No additional devices required

Worth noting.
If you use Mouse and Keyboard output, you do not need an authentication controller at all — on PC, Xbox or PlayStation 5.

5. Before First Use — Firmware Update

Even a new XIM MATRIX may have firmware that is out of date. You will be required at times to upgrade your XIM MATRIX in order to ensure its uninterrupted use.

What you need

A computer	A PC running Windows, or a Mac. This step cannot be done from a phone or console.
Operating system	Windows 10/11 x64, or macOS 13 or higher
Connection	USB

Steps

1. Go to **xim.tech/downloads** and select XIM MATRIX. You will be directed to the community forum where all firmware releases are stored.
2. Open the firmware release post. It contains the download links and the release notes.
3. Connect XIM MATRIX to your PC or Mac over USB and run the firmware tool.

Firmware and XIM Manager each have a minimum version they support, and normally the version numbers match. Most firmware releases are fixes that work with the public Manager release. If a firmware update requires an updated Manager, you are informed of this before you upgrade, and the two are always released together.

6. XIM Manager App

XIM Manager is the app used to fully set up and configure your XIM MATRIX. All Configs are managed through it. The app is free.

Android	Android 9 or higher
iOS	iOS 17 or higher
Windows	Windows 10/11 x64
Connection	Bluetooth LE is required
Where to download	Google Play, the Apple App Store, or xim.tech/downloads

> **Do not pair using your device's Bluetooth settings.**
> All pairing is done inside XIM Manager. Press the button on XIM MATRIX to begin pairing — it will flash cyan when it is ready.

6.1 Beta Builds — Optional

XIM sometimes runs a beta programme for XIM Manager. Beta participation is entirely optional, and the public firmware and Manager releases are always available.

On iOS, beta places are limited by Apple's TestFlight system, which caps the number of testers. Once that cap is reached no further testers can join, and XIM has no way to remove existing testers to free up space. Android and PC do not have this limitation.

> **If you cannot join an iOS beta, you have three options:** use the public release, sideload the build, or run XIM Manager on an Android device or a PC instead.

7. Setting Up on Your Console

7.1 Xbox

An authentication controller is required to run XIM MATRIX on Xbox. Use a genuine Xbox Series, One or Elite controller, or an officially licensed third-party wired Xbox controller.

1. Connect your authentication controller to **Port 3**. You must supply the USB cable that matches your controller — it is not included.

2. Connect your input devices — mouse, keyboard or controller — to **Ports 1 and 2**.
3. Make sure your Xbox is powered on.
4. Connect XIM MATRIX to your Xbox using the included USB A-to-C cable.
5. In XIM Manager, create a Config for your game. The output must be set to **Controller**. Creating a Config can take up to 30 seconds.

While connecting, XIM MATRIX blinks white twice. When it has connected successfully it flashes green.

7.2 PlayStation 5 — Network Method

PlayStation 5 connects over your local network using a wired Ethernet connection via the Remote Play system. The network connection carries your input only — video still goes to your TV or monitor as normal.

> An Ethernet cable is not included. For best results your PlayStation 5 should also be connected to your network by cable rather than Wi-Fi. XIM MATRIX and your PS5 do not have to be connected to the same router or switch, but if possible it is recommended.

Registration — do this once

Registration is performed using a DualSense controller connected directly to your PlayStation 5.

1. Sign in to your PlayStation 5 with the same account you are registering.
2. If your account has a PIN set up, disable it.
3. Go to **Settings / Network** and confirm the connection status shows **Wired**.
4. Go to **Settings / System / Remote Play** and turn **Enable Remote Play** on.
5. Select **Pair Device**. An 8-digit number is displayed.
6. Enter that 8-digit number into XIM Manager.

You can register up to 3 PSN accounts and switch between them. Your Sony account information is not read or stored by XIM MATRIX.

PlayStation 5 — USB alternative

It is possible to connect to PlayStation 5 over USB without using your local network or Remote Play, but this requires a third-party device called a **P5General**, sold separately. Plug the P5General into Port 3 and select the Controller (Xbox, PS, PC) output type when creating your Config. The registration steps above are then not needed.

7.3 PlayStation 4

1. On your PS4, go to **Settings / Devices / Controllers / Communication Method** and select **Use USB Cable**.
2. Connect a genuine DualShock 4 (v2) to **Port 3** as your authentication controller. You must supply the USB cable — it is not included.
3. Connect your input devices to **Ports 1 and 2**.
4. Connect XIM MATRIX to your PS4 using the included USB A-to-C cable.

5. In XIM Manager, create a Config with DualShock 4 output.

7.4 PC

Connect XIM MATRIX to your PC using the included USB A-to-C cable, then create a Config with the output type you want — see Section 4. XInput and Mouse and Keyboard output require no additional devices.

8. Required In-Game Settings

> Every game has its own required settings. XIM Manager prompts you with these when you create a Config, and you can review them at any time using the gear icon in Manager. Getting them wrong will result in poor aiming performance and will stop you using Configs shared by other players.

If you aim with a mouse	Set your game's in-game sensitivity to **maximum**. Aim sensitivity is then customized inside your Config.
If you aim with a controller, and your game supports it	Customize aim inside the game as normal. Those settings are then copied into your Config.
All other settings	Leave at their default values.

Game-specific requirements are published at xim.tech/settings.

9. Light Guide

9.1 Normal Lights

Cyan flashing	Ready to pair with XIM Manager
Cyan-green flashing	Connected to XIM Manager
Yellow	Saving your configuration
White pulsing	Communicating with XIM Manager
White double-blink	Connecting to your console
Green flash	Successfully connected to your console

9.2 Warning Lights

> These lights mean XIM MATRIX has detected a specific condition. In most cases the unit is not broken and you can resolve it yourself.

Red and yellow blinking Power fault	A connected USB device drew too much power, so XIM MATRIX shut its ports down to protect itself. Make sure any rechargeable device you connect is already fully charged. Peripherals with a lot of LEDs, such as keyboards, can also cause this.
Rapid purple blinking Timing errors	Check for loose USB connections, faulty cables, or USB hubs in your setup.
Repeated yellow blinking Authentication controller lost	XIM MATRIX has lost communication with the authentication controller in Port 3. Check that USB connection, then restart the device.
Red, green and blue at startup Config corruption	Your Configs have become corrupted. Perform a factory reset — see Section 10 — then recreate your Configs.
Solid white light Software failure	A software failure has occurred. This is rare. Restart the device; if it repeats, contact support.
Yellow, cyan and purple at startup Hardware fault	A hardware fault has been detected. This is very rare. Contact support.

10. Factory Reset and Firmware Rollback

Factory reset

1. Download the firmware tool from **xim.tech/downloads**.
2. Run the tool.
3. Press **Factory Reset**.

A factory reset is the fix for the corrupted Config condition described in Section 9.2. You will need to recreate your Configs afterwards.

Rolling back firmware

Older firmware versions remain available in the download section and can be reinstalled at any time if you need to return to a previous version.

11. Cost, Configs and Config Sellers

> **XIM MATRIX is free to use.**
> This includes all firmware updates, all XIM Manager updates, fixes, feature improvements, support for new games, Config Cloud, and technical support. There are no subscriptions and no in-app purchases.

Config Cloud

Config Cloud lets you discover Configs published by other XIM users and publish your own. There are hundreds of Configs available and all of them are free. Access requires a free account on the XIM Community Forum. All submissions are reviewed by the XIM team before they are made public.

Config Cloud is at configs.xim.tech.

A warning about Config sellers

> **Never pay anyone for a Config.**
> Some third parties sell Configs and subscriptions to XIM users. They are not affiliated with XIM, and some of them use the XIM name to appear official. XIM advises customers never to buy from these sellers.

12. Troubleshooting

12.1 XIM MATRIX will not connect to your Xbox

1. Connect your Xbox controller, **powered off**, into Port 3 **before** connecting XIM MATRIX to your Xbox.
2. Remove any wireless pairings your Xbox controller has: hold the controller's pairing button until it rumbles twice.
3. If you are using a licensed third-party Xbox controller, make sure it is the only wired Xbox controller connected and that it is in Port 3.
4. Check that the USB cable for your controller is a data cable, not power-only.

12.2 PlayStation 5 problems

Registration fails	Reboot both your router and your PlayStation 5, then try again. XIM Manager also offers a manual registration option.
Registered but will not connect the first time	Confirm your account has no PIN set, confirm auto-login is disabled, then fully power down and restart your PlayStation 5.
Worked before, will not connect now	Your PS5's IP address may have changed after a full power-down, or after switching between wired and Wi-Fi. Register again.
Poor performance	Your PlayStation 5 must not be connected by Wi-Fi. Use a wired connection.
Checking the network	The Ethernet port on the back has status lights. Green should be on, and yellow should be on and blinking.

12.3 Mouse disconnecting, stuttering or lagging

A wireless mouse receiver plugged into Port 1 sits physically close to XIM MATRIX's Bluetooth antenna, and the two can interfere with each other.

- Use a USB extension cable to move the receiver away from XIM MATRIX.
- If that is not possible, plug the receiver into **Port 2** instead.
- Razer wireless receivers in particular are known to cause significant interference.
- Manufacturers generally recommend keeping your mouse within 20 to 30 centimetres of its receiver.

12.4 XIM Manager will not connect over Bluetooth

- Bluetooth LE is required — standard Bluetooth is not sufficient.
- Pair inside XIM Manager only, not through your device's Bluetooth settings.
- Press the button on XIM MATRIX to begin pairing. It flashes cyan when ready.
- On a desktop PC using the motherboard's built-in Bluetooth, the PC's external antenna must be connected. If your motherboard needs an external antenna and it is not fitted, XIM Manager will always have connection problems.

12.5 Firmware will not update on your PC

1. Reboot your PC and try again.
2. Try a different USB port.
3. Try a different USB cable, and make sure it is not a power-only cable.
4. Temporarily disable any additional antivirus software — it can interfere with the update.
5. Try running the update in Windows safe mode.
6. Try a different PC.

12.6 Controller output not working on PC

If XIM MATRIX is outputting as a controller, make sure you do not have virtual controller emulation tools installed, such as Steam Input or DS4Windows. These conflict with XIM MATRIX's controller output.

13. Support and Resources

Full user guide	guide.xim.tech — setup, troubleshooting, and the complete light guide
Firmware and XIM Manager	xim.tech/downloads
Required game settings	xim.tech/settings
Config Cloud	configs.xim.tech — hundreds of free Configs
Technical support	community.xim.tech — all XIM technical support is handled through the official forum, staffed by experts, free to use

> If you do not have access to a PC or Mac, or you are not comfortable following technical documentation, XIM MATRIX may not be the right product for you.

14. Important Notices

- A Windows PC or Mac is required for the firmware update. This cannot be done from a phone or console.
- All configuration is done in the XIM Manager app. XIM MATRIX is not a plug-and-play device.
- The Ethernet cable for PlayStation 5, and the USB cable for your Xbox or PlayStation 4 authentication controller, are not included.
- XIM MATRIX does not provide aim assist, and does not run third-party script files.
- Some games detect input adapters. Use of an input adapter may violate the Terms of Service of some game publishers and could result in account restrictions. Please check your game's Terms of Service before use.
- Never pay a third party for a Config. XIM and all its services are free.