



madVR Envy

# Guide de démarrage rapide

Revision 1.0

# Guide de démarrage rapide Envy

## 1. Introduction

Félicitations pour l'achat de votre madVR Envy! L'Envy est le résultat de plus de onze années de R&D intensives. C'est le premier et le seul processeur vidéo à fournir une IA (Intelligence Artificielle) en attente de brevet ainsi que d'autres algorithmes avancés pour le traitement de la vidéo en temps réel, offrant une qualité d'image incomparable. Nous espérons que regarder des films avec votre processeur soit aussi incroyablement addictif que nous et que beaucoup d'autres utilisateurs.

Bien que l'Envy soit fonctionnel dès son déballage, ce guide vous aidera à en tirer le meilleur parti. Pour une expérience complète, veuillez le lire dans son intégralité avant de commencer.

## 2. Réglages initiaux

Ce qui suit est un aperçu des réglages qui vous permettront d'être opérationnel rapidement.

- 2.1. **Déballer et connecter l'Envy** : Votre envoi contient l'Envy, une télécommande avec piles, une antenne RF USB et un cordon d'alimentation. Nous vous conseillons de conserver le carton d'origine et les matériaux d'emballage au cas où votre Envy aurait besoin d'une maintenance ou de mises à niveau futures. Examinez le panneau arrière comme indiqué dans l'annexe A. Connectez votre entrée et votre sortie HDMI ainsi que le cordon d'alimentation. Allumez l'Envy en appuyant sur le bouton sur le panneau avant et profitez-en dès son déballage !
- 2.2. **Ventilation adéquate: Attention**: Lors traitements intensifs comme la mise à l'échelle de 1080p60 à 4K60, ou avec d'autres algorithmes avancés qui pourraient être ajoutés à l'avenir, l'Envy (en particulier la version Extreme) peut devenir «chaud au toucher» au milieu du couvercle et expulse l'air chaud par les événements situés à l'arrière et au dessus. **Il faut par conséquent s'assurer d'une ventilation adéquate avant utilisation. Pour des informations importantes sur la ventilation, reportez-vous à l'annexe C.**
- 2.3. **Télécommande**: Consultez l'annexe B pour un aperçu des fonctions de la télécommande. La télécommande prend en charge à la fois RF radiofréquence (par

défaut) et IR infra-rouge. Les adaptateurs USB RF et IR sont préinstallés, comme indiqué dans l'annexe A.

**Pour mettre la télécommande en mode RF (par défaut):** Maintenez appuyé le bouton OK, et tout en le maintenant, appuyez sur le bouton supérieur gauche (Alimentation) et maintenez-le enfoncé pendant 3 secondes, jusqu'à ce que le voyant LED de la télécommande clignote 3 fois. Votre télécommande est déjà réglée sur le mode RF par défaut. Pour un fonctionnement correct, maintenez le dongle RF à 180 degrés (veuillez ne pas le mettre en position 45 ou 90 degrés).

**To put the remote into IR mode:** Press and hold the OK button, and while still holding it, press and hold the top right button (Menu button) for 3 seconds, until the LED light on the remote blinks 3 times. Note: After changing batteries it will be necessary to set the remote back into IR mode.

**Pour mettre la télécommande en mode IR:** Appuyez sur le bouton OK et maintenez-le enfoncé, et tout en le maintenant, appuyez sur le bouton supérieur droit (bouton Menu) et maintenez-le enfoncé pendant 3 secondes, jusqu'à ce que le voyant LED de la télécommande clignote 3 fois. Remarque: après avoir changé les piles, il sera nécessaire de remettre la télécommande en mode IR.

Vous ne pouvez pas utiliser les commandes RF et IR en même temps. Par exemple, si vous souhaitez faire un apprentissage des commandes Envy IR dans une télécommande universelle, tout en gardant la télécommande Envy à portée de main pour une plus grande commodité et une plus grande portée en utilisant la RF. Si vous apprenez les codes IR, mettez d'abord la télécommande en mode IR et apprenez les codes sur votre autre télécommande. Ensuite, en option, vous pouvez basculer à nouveau sur le mode RF, par ce biais votre télécommande universelle et la télécommande Envy continueront de fonctionner.

Nous recommandons d'utiliser la télécommande de l'Envy en mode RF, car elle ne nécessite pas de visibilité directe du capteur infrarouge. Si vous utilisez le mode IR et avez besoin d'une meilleure portée, vous pouvez relocaliser le dongle IR à l'aide d'un câble d'extension USB, vous pouvez le placer sous l'appareil, à l'avant, où il peut être facilement caché. Vous pouvez personnaliser les fonctions des boutons de la télécommande, pour ceci cliquez sur le bouton en haut à droite de la télécommande et appuyez sur la flèche droite jusqu'à ce que vous atteigniez le menu de configuration de la télécommande (Remote Control).

Si vous ne prévoyez pas d'utiliser l'IR avec votre Envy, nous vous recommandons vivement de laisser le dongle USB IR branché sur l'Envy afin qu'il ne se perde pas si nécessaire à l'avenir. De plus, nous prévoyons d'utiliser ce dongle IR à d'autres fins à l'avenir.

## 3. Fonctionnement général

Cette section couvre la configuration générale et le fonctionnement de l'Envy.

3.1. **Menus:** Les menus de l'Envy se composent de plusieurs pages de menu regroupées par fonction. Les pages de menu sont organisées en menus «Configuration», «Paramètres» et «Information». Les menus de configuration vous permettent de configurer les options que vous n'aurez généralement pas besoin d'ajuster régulièrement. Par exemple, votre résolution de sortie préférée, votre luminance de crête et votre espace colorimétrique préféré ne sont pas des réglages que vous changerez régulièrement.

Les menus Paramètres (Settings), en revanche, sont généralement ceux où vous trouverez des options que vous souhaitez peut-être modifier occasionnellement, en fonction de votre humeur, des conditions de visionnage ou des goûts sur un film en particulier. Les exemples incluent vos préférences pour le traitement HDR, la mise à l'échelle, la réduction des artefacts, la netteté et plus encore.

Le menu Information affiche des informations sur votre signal entrant et sortant, le périphérique d'affichage et des informations système telles que le modèle et votre numéro de série. Pour des raisons de sécurité, ne communiquez jamais votre numéro de série, sauf à votre revendeur ou madVR Labs. Il existe également un menu Test Patterns et un menu Profile.

**Conseil:** Les menus de l'Envy utilise un système de Profils très flexible et intuitif qui facilite l'enregistrement et l'application de différents paramètres à des fins différentes (Gestion des Paramètres). Les explications détaillées sur le système de profils dépasse le cadre de ce guide.

Il est particulièrement important de comprendre le fonctionnement des Profils avant d'utiliser votre Envy. **Par conséquent, nous vous recommandons vivement de lire le document Introduction aux profils disponible sur [www.madvrenvy.com](http://www.madvrenvy.com).**

3.2. **Front-panel:** The front panel is as intuitive as the Envy itself. The LED lights blue when the unit is on, lights red to indicate disk activity, slowly pulsates between blue and off when in standby, and is off when the Envy is powered off. You can control the brightness of the LED

(or turn it off) using the wheel at the bottom edge of the front panel. To find the wheel, place your finger on the LED and move it down to the bottom edge of the case. To turn the unit on and off, press the power button (or use the remote). Should you ever wish to unplug the Envy, first press the power button, and wait a few seconds until the LED turns off. Never turn off your Envy by pulling the power plug while it is still on or by turning off the power supply switch on the rear of the unit.

- 3.3. **Check output resolution:** Some projectors and displays do not report their native resolution properly. For instance, JVC e-shift 4K projectors report a native resolution of 1080p instead of 3840x2160. And some native 4096x2160 projectors may report 3840x2160. To override this if necessary, press the top right button on the remote to quickly access the Display Configuration menu, and change to the desired resolution.
- 3.4. **Set your peak luminance:** For optimal results, the Envy needs to know your peak luminance. This is set in the Display Configuration menu. If using a scoped screen with the lens zoom method (no A-lens) set the “Peak luminance (scoped)” value to the peak nits when zoomed out for scoped movies. If you use lens zoom to change between 16:9 and scoped zoom, please use profiles (see Section 3.1) to set the different peak brightness for each setup. To get your peak luminance, use a calibration software product to read your cd/m<sup>2</sup> value off the screen when displaying a full field 100% white pattern. Or measure your lux with a light meter and convert to cd/m<sup>2</sup>. If unsure, please contact your dealer for assistance.
- 3.5. **Anamorphic lens setup:** If using an A-lens, press the top right button on the remote and press the right arrow to reach the Screen Configuration Menu. Enter your anamorphic stretch factor (e.g., 1.25x for a Panamorph DCR lens) if using an A-lens and be sure to turn off anamorphic stretch if already enabled in your projector. If not using an A-lens you can safely ignore this section.
- 3.6. **Scope screen setup:** Scoped screens are screens that have an aspect ratio wider than 16:9. For instance 2.0:1 or 2.35:1. If you have a scoped screen and are not using an anamorphic, you need to “teach” Envy about your screen so that it can manage all black bars and place subtitles for you where you can see them (otherwise they will be off the screen).

To enable black bar detection and management, set the Envy Screen Boundaries menu item to Custom, display 2.40 content and adjust your projector lens so that the image fits your screen perfectly side to side. Then display 16:9 content and adjust the Top and Bottom values under Screen Boundaries so that the image fits within the height of your screen – this will enable the Envy’s automatic black bar

detection. For users with scoped screens and no A-lens, this feature is very convenient, as it will automatically fit 16:9 content to your screen without cropping, while showing scoped content at full screen (especially great when switching back and forth from movies and a 16:9 movie selection / poster wall screen). It will also do some pretty amazing things for managing your subtitles (see the Black Bar Configuration menu on your Envy for more).

- 3.7. **Audio delay adjustment (if necessary):** If your AVR/AVP is set up for auto lip sync adjustment, Envy will automatically adjust the audio delay as needed. If you should find that you still need small adjustment despite using auto lip sync, you can do so in the Envy HDMI Configuration menu (Menu button, then right-arrow until you see this menu). If you are not using auto-lip sync, you will need to adjust your AVR/AVP accordingly. In which case note that the video processing in Envy adds roughly 175ms delay to the audio. Therefore, please adjust the audio delay in your audio processor accordingly (only if not using auto lip sync). If you have an AVP that adds its own processing delay, such as a Trinnov or Storm Audio, subtract its audio delay from the 175ms (for instance if your AVP has an audio delay of 50ms, set you're the audio delay to  $175 - 50 = 125$ ms). If you have the movie Ready Player One, a great clip to adjust audio delay is the car race scene around the 10-minute mark of the movie. A flare that is launched in an arch-like fashion, with a whistling sound as it nears the ground, and then explodes like a firework. Likewise, many test discs have lip sync patterns. You likely will have to adjust the source for each of your audio processors HDMI inputs if not using auto lip-sync.
- 3.8. **Pass-thru port:** Envy features a near-zero latency pass-thru port perfect for gaming. You can run an HDMI cable from this port directly to another input on your display. Or alternatively if you wish to have just one cable run to your display - you can use a device like the HD Fury Maestro and run a short cable from each Envy HDMI output (regular and pass-thru) to the Maestro, and then run the single main HDMI cable from your display to the Maestro. See Appendix A for the location of the pass-thru port.
- 3.9. **Popular Envy Tweaks:** The default settings in the Envy deliver an outstanding image. However, you may wish to change the settings to taste and to enable certain features, like how you want subtitles handled. Please play around in Settings to see what you like best. Note that the settings will be temporary until you save them to your Base Settings or to a profile – for more information see the note about profiles in Section 3.1. Popular tweaks include:

**HDR Settings** (first page in the Permanent and Temporary Settings menu): Highlight Recovery (try at “Insane”), Contrast Recovery (try at High), Shadow Detail Recovery (try various settings), Brightness Preference tweaks (raising this means you want the overall picture to be brighter but leaves less room for HDR highlights and lowering this means you want the overall picture to be darker but leaves more room for HDR highlights).

**Upscaling and Sharpening** (also in the Permanent and Temporary Settings menu): Did you know that the Envy can add very tasteful, artifact-free and ringing-free sharpening, even to 4K sources? Try adding some Crisp Edges, Edge Enhancement and Detail Enhancement and see what you think!

**Subtitle and OSD handling:** Subtitles and On-Screen Display (OSD) elements from your source devices are problematic for users with scoped screens. Especially since the black bar areas where subtitles and OSD elements are often displayed is normally zoomed off the screen by your lens setting! Envy will bring your black bars back, temporarily as needed, for you to see the subtitles and OSD. There are lots of options such as how long you want the black bar area to stick around after subtitles disappear, and more. See the Black Bar Configuration menu in your Envy for more information.

- 3.10. **Show off your Envy!** What fun would the Envy be without the ability to show yourself and others just why you bought the world’s most advance video processor in the first place? We are so proud of the power of the Envy and the huge benefit it provides that we added features exactly for this purpose. Here’s how to use a few of them:

**Dynamic Tone Mapping (green button):** With HDR content, click the green button on your remote to toggle the Envy’s DTM on and off. When toggled off, the Envy will turn off its DTM and output the content as HDR to your display, which will then turn on its own HDR tone mapping, so you can easily compare the difference. Be prepared for what you are about to see – behold the magic power of the Envy.

**Highlight Recovery (blue button):** With HDR content, click the blue button to toggle Highlight Recovery on and off. This comparison is best done with content paused on your screen. The differences will not be visible in all scenes and with all content, so you may have to play around to find the right scene to do the comparison with. Look for content that has bright highlights with texture detail

and view that with this feature on and off. One example of a great scene to compare this is the bright yellow flower on the Spears and Munsil HDR Benchmark 4K Blu-ray demo disc. Also try this after choosing a higher strength Highlight Recovery setting in the Permanent and Temporary settings (have we mentioned there is an “insane” mode?).

**Contrast Recovery (yellow button):** With HDR content, click the yellow button to toggle Contrast Recovery on and off. You will find that with this feature on, the content has a considerable amount of added depth and perceived contrast. And with this feature off the image looks a bit murky, with a thin milky-like layer. Try this with Contrast Recovery set to High as well.

3.11. **Auto-updates:** Your Envy makes it very easy to install new versions of the Envy firmware with a simple click of your remote using the Firmware Configuration menu. To access the auto-update options, click the top-right button on your remote and press the left-arrow. The following describes the menu items in detail:

**Current Firmware Version:** This displays the firmware version currently in use. This information can also be found on the System Information menu.

**Built Type:** This option sets the minimum type of firmware you wish to be notified about. Options are: Stable Builds only, Release Candidates, Beta Builds, and Test Builds. For instance, if you select Beta Builds you will be notified about all firmware except Test Builds. With all the ongoing development we recommend Beta Builds for most users. Test Builds should be considered highly experimental. When deemed by madVR Labs to be more stable, they are promoted to Beta Builds, and so forth up to Stable Builds.

**Notification Type:** When an update is available, a popup notification will be displayed according to your preferences. Options are Always, If Menu Is Open, and Never.

**Install Firmware:** To install a firmware version, move to the “Install Firmware” line and use the left/right arrows to select any version, then select OK, and Install. You can select any version, including past versions. This makes it easy to experiment with Test Builds or Beta Builds, for example, since you can always rollback the update just as easily. All updates are self-contained, so for instance if you are on 1.1.0.4 you can install 1.1.0.9 directly, without installing versions in between. Some updates may require that your Envy be powered off and then back on – if so, you will be prompted to do so.



**Changelog:** The changelog provides details about what new features, fixes and enhancements are included in the update selected in the Install Firmware line. You can browse through each versions changelog simply by highlight it in the Install Firmware selection.

- 3.12. **3D LUT Calibration:** The madVR Envy supports 3D LUT calibration with many popular calibration software packages, including ColourSpace, Calman, and DisplayCal. Calibration guides are available for download from [www.madvrenvy.com](http://www.madvrenvy.com).

## 4. Troubleshooting

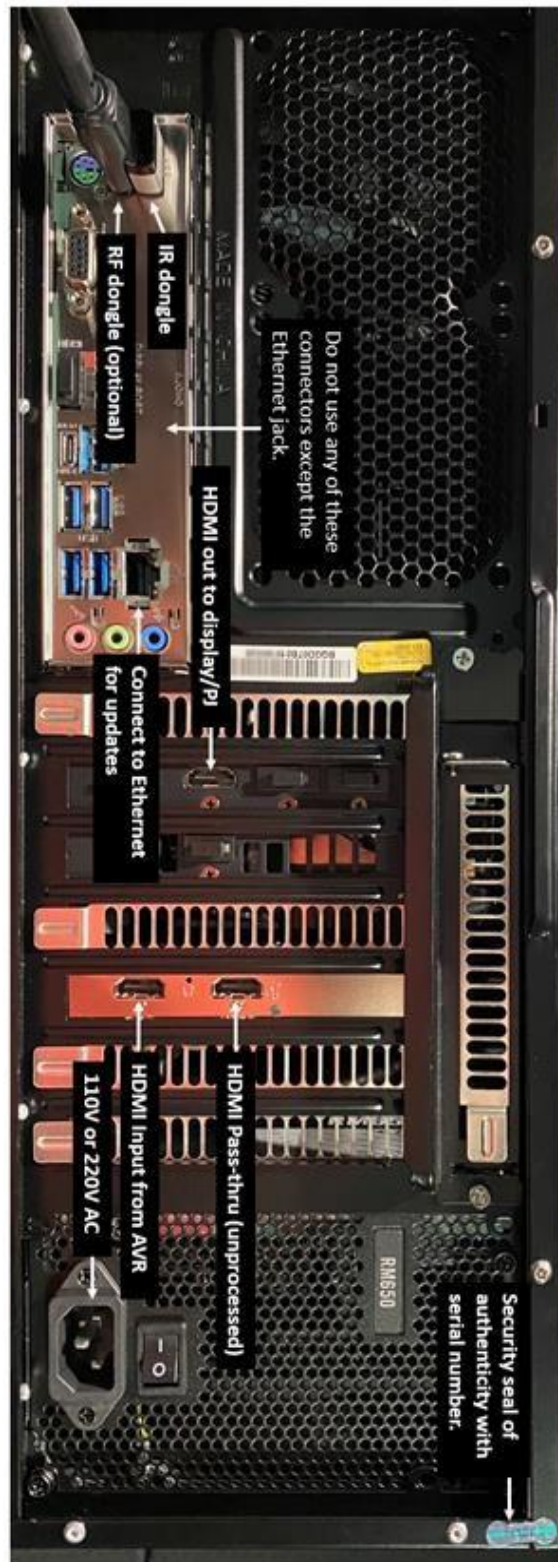
- 4.1. **Remote does not work:** Did you insert batteries? If wanting to use RF, make sure the black RF antenna dongle is installed in the USB port as shown in Appendix A. If RF is still not working, see Section 2.3 to ensure it is in RF mode. If so, try removing the antenna for 2 seconds and plug it right back into the same spot. If using IR, make sure the remote is in IR mode, and that the IR dongle in the *rear* of the unit has line of sight to your remote, or use an extension cable as described in Section 2.3. If neither of these helps, see item 4.2 below.
- 4.2. **Envy appears to be doing nothing:** Make sure you inserted the HDMI input into the bottom port as shown in Appendix A. If you installed it into the top port, that is the pass-thru port, and Envy will not apply any processing and the remote will appear not to work.
- 4.3. **Envy is outputting 1080p instead of 4K:** Make sure you are not inadvertently pressing and holding the red button on the remote – doing so forces the Envy to output 1080p, which is useful in the event you ask it to output a resolution which your display does not support.
- 4.4. **Envy does not power on:** Check the power supply switch and make sure the “circle” side of the switch is up in the air (“line” is pressed down), as pictured in Appendix A.
- 4.5. **Green flashes:** You may notice a full screen green flash or two during HDMI signal changes / handshaking in some situations. In the Display Output mode use RGB if using YUV. Or if using YUV, choose Slow and Clean Handshakes in the Envy HDMI Configuration menu.

4.6. **Audio delay:** Envy adds audio delay as part of its processing. Please see Section 3.7 for information about setting the audio delay.

4.7. **Something else?** Please contact your authorized Envy dealer for assistance.

**We hope you enjoy your Envy as much as we enjoyed making it for you! Thank you.**

## Appendix A – Envy Rear Panel Connections



## Appendix B – Remote Control Guide

Remote Button	Quick press	Press & hold
Power (button 1)	Standby (F1)	Restart (SHIFT-F1)
Menu (button 2)	Configuration Menu (F2)	Test Patterns (SHIFT-F2)
Virtual Inputs (button 3)	16:9 AR (F8)	Scoped AR (SHIFT-F8)
Settings (button 4)	Temporary Settings (F9)	Default Settings (SHIFT-F9)
"OK" (with no menus on screen)	Signal Information (F5)	Close Current Menu (ESC)
Red	Hotplug HDMI Input (F10)	Force 1080p60 Out (SHIFT-F10)
Green	Envy Tone Mapping On/Off (F11)	HDR Histogram On/Off (SHIFT-F11)
Blue	Highlight Recovery On/Off (F12)	Reset Debug Counters (SHIFT-F12)
Yellow	Contrast Recovery On/Off (W)	Show/Hide Debug Info (SHIFT-W)



## Appendix C – Ventilation

To help ensure the safe operation of the Envy and its longevity, it is important that you provide adequate ventilation in the area where it is used. The Envy draws cool air in from the right-side fans, and to a lesser extent, from the bottom of the unit. **It is essential therefore that you leave the Envy plenty of room for ventilation on *all* sides.** Otherwise, the unit may experience frequent, unexpected shutdowns and or system error messages. Please follow these guidelines:

- Please use the Envy only in a well-ventilated area. Avoid using it in a small, enclosed space, in a cubby or other such three-sided enclosure, unless there is plenty of room for outside ventilation.
- Allow for at least 12” inches of clearance behind the unit, at least 1” above the unit (the more the better, especially if the sides are not “open”) and 1RU of clearance in a rack, and at least 6” on the sides, unless contained in a cooled space or rack.
- Allow for at least one inch below the unit, and preferably, do not place the Envy on top of any equipment that expels hot air out its top.
- Never not place any objects or materials on top of the unit and ensure all vents are unobstructed.
- Envy should be used in its horizontal position, as laying it on its side could obstruct airflow from the side fans.

When less than idea ventilation is possible, adding external cooling fans to help move hot air away and or draw in cooler air, or a cooling product like the AC Infinity AIRCOM T10, can go a long way in helping your Envy stay cool and last a long time.