



madVR Envy

XGIMI TITAN Noir – Envy Setup Guide

www.madvyenvy.com

Rev 1.00

Introduction

Welcome to the madVR Envy Setup Guide for XGIMI TITAN Noir projectors. Although setting up the Envy itself is straight forward, it is important that your XGIMI TITAN Noir be set optimally for use in conjunction with the Envy. This guide covers the recommended set up for XGIMI TITAN Noir projectors when used with Envy.

Please make all the menu changes with “Base Settings” selected in the Profile Bar (the bottom selection in each Envy menu) so the changes will be permanent. Otherwise, if you make changes when “Active Settings” is selected in the Profile Bar, the changes will only be temporary and later lost, unless you use the “Save to Base” option. For a better understanding of how settings in the Envy work, please see Introduction to Profiles guide at <https://madvrenvy.com/#resources>.

XGIMI Configuration

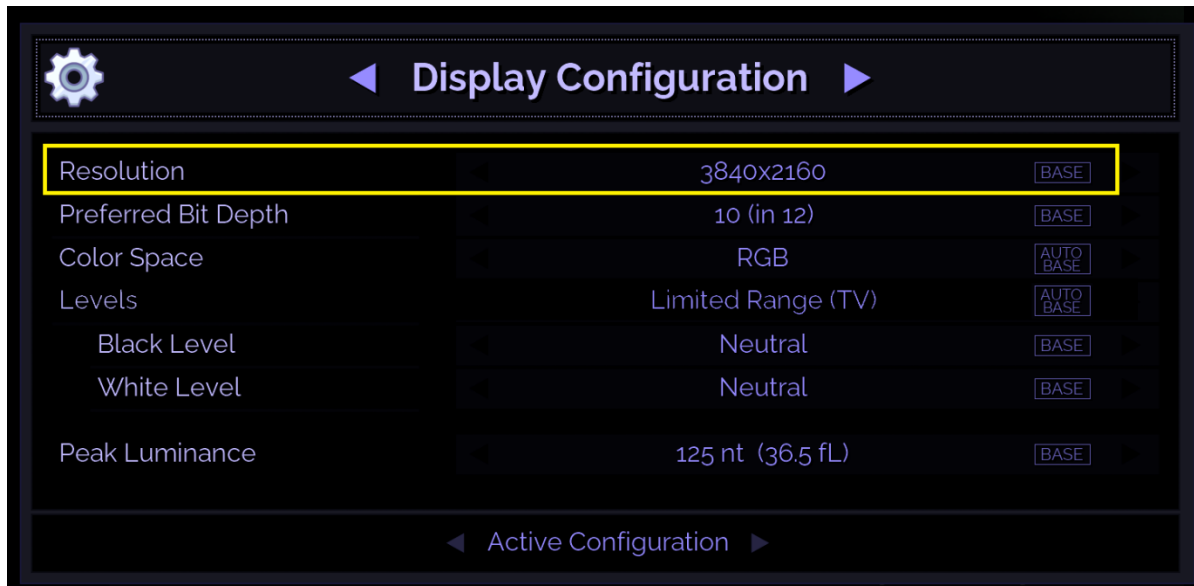
The following steps are recommended to best configure the XGIMI display for use with the Envy.

1. First, let's configure important settings in the Envy's Display Configuration menu. Press the button on the Envy remote with the three horizontal lines or gear icon depending on remote to access the Configuration menu. Then follow the steps below. An example of the completed settings is shown in the image on the next page.
 - A. **Resolution setting:** Set the “Resolution” to **3840 x 2160**, which will likely be selected by default.
 - B. **Peak Luminance:** Peak Luminance is a measure of the brightest image your display achieves for a specific system configuration. This will vary per model, throw distance, and screen gain.

The best way to determine your peak luminance is to display a 100% white pattern and measure it using third party calibration software or a handheld lux meter. If measuring with calibration software, enter the “cd/m2” measurement as your nits value. If using a lux meter, multiply the lux reading by the screen gain and divide by 3.14 to get this value. If using a full screen white pattern, as opposed to a 10% or 20% pattern, add a 10% to the value. A full screen white pattern is available within the Envy's Test Pattern Menu which can be accessed by holding the Green flex key button.

Additionally, the desired SDR luminance value can be used to target a specific luminance level for SDR content, **but only if you find SDR to be overly bright** Note that rather than using this

setting to adjust the SDR luminance, it is best to use a lower laser percentage output for SDR, while keeping Desired SDR Luminance set to Auto. This will maximize your contrast, but at the expense of having to change the projector settings (laser percentage) based on SDR vs HDR. If that is inconvenient, the **Desired SDR Luminance** can be used as a substitute.



- Next, go to the Envy **Display Calibration** menu (shown below). To access this menu, press the Configuration Menu button, then press the right arrow button once. Here we will focus on the **Transfer Function** and **Gamut** settings.

It is important that the Envy Transfer Function value reflects the gamma correction being used in the XGIMI. Therefore, we recommend setting the Gamma to Manual and the Gamma Index setting to 2.4 in the XGIMI, followed by setting the Envy Transfer function to **2.4**. You can access the Gamma setting in the XGIMI by going to **Brightness & Display > Professional Settings > Gamma > Gamma Index**.

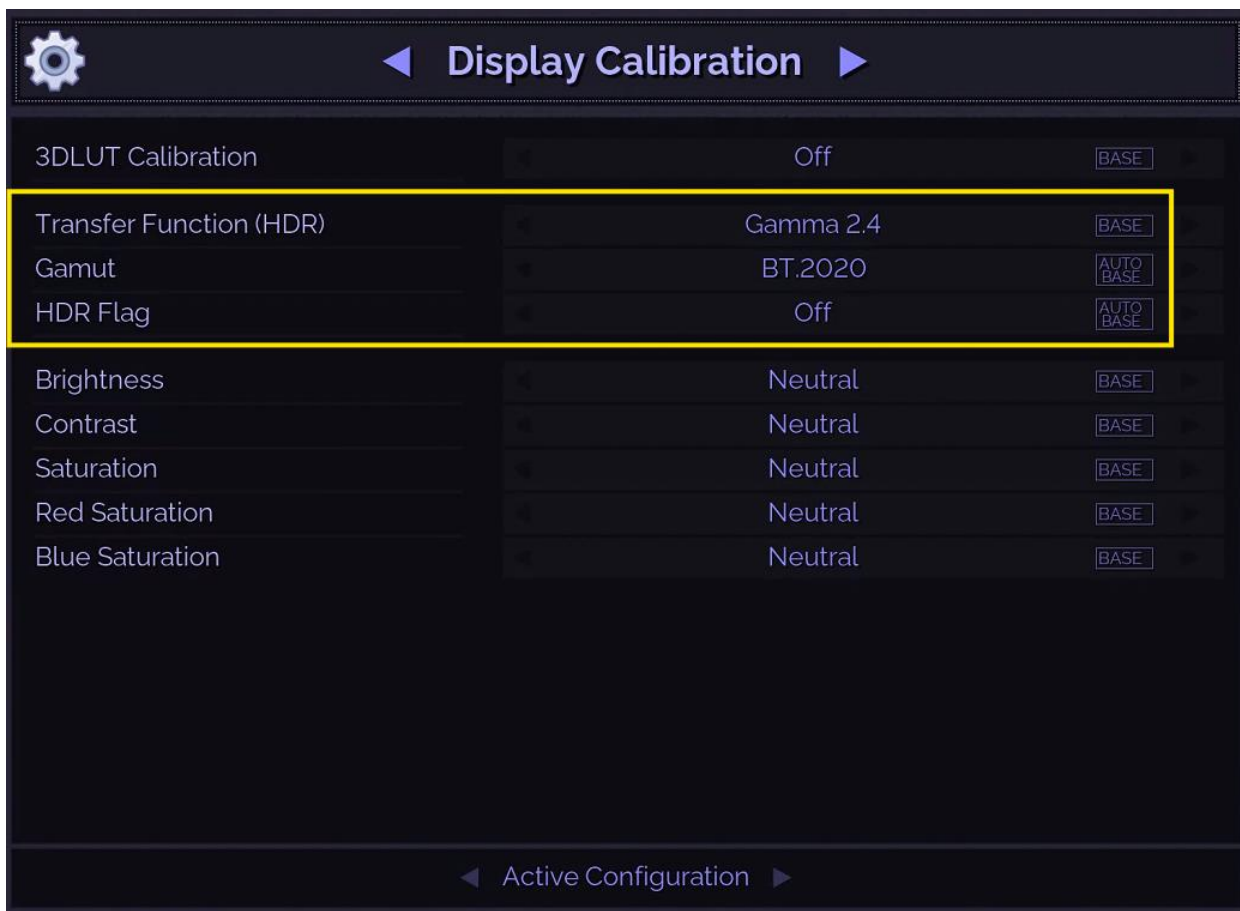
- Next, change the Gamut in the Display Configuration Envy menu to **BT.2020**.

Note that when using a 3D LUT, the Transfer Function and Gamut options are not available in the menu, because in that case, the LUT fully manages the Transfer Function and Gamut.

- Note: Please leave the **HDR Flag** set to **Off**.

Before continuing, make certain that you save these changes to the Base

Configuration. Otherwise, the changes you make here will revert on the next signal change. To save these changes to the **Base Configuration**, highlight either of the values that shows an orange TEMP tag and press the Green button on the Envy remote. If you have made the changes with Base Configuration already selected at the bottom of the menu, then this step is not necessary.



- If using a scope screen (a screen that has an aspect ratio of 1.85 or greater, such as 2.35 or 2.40 aspect ratio), please go to the Envy **Screen Configuration** menu, and under **Screen Boundaries**, click **Run Assistant**. Then follow the on-screen instructions. This is a critical step to ensure the Envy menus are properly positioned and that content is displayed properly.

ALL other settings in the various Envy Configuration Menus should be left on AUTO, unless you have a particularly good and specific reason to change it. Often people change these settings without understanding the full impact. Note that changing the “Configuration” items should not be confused with the changing the Envy Settings Menu

(the Envy remote control button with the 3 sliders on it) – those are there for you to change the image to suit your tastes.

6. **Brightness & Display** settings should use the following values for a good starting baseline to an accurate picture.

Picture Mode: Filmmaker Mode, Movie, ISF Day, or ISF Night

7. **Laser Luminance Menu**

- a. **Ambient-Adaptive Light Output:** Off
- b. **Brightness:** 10 or set to taste for comfortable viewing

8. **Professional Settings**

- a. **MEMC:** Off
- b. **Color Temperature:** D65 or Movie
- c. **Color Space:** Original or BT.2020
- d. **Gamma:** Manual
- e. **Gamma Index:** 2.4

9. **XGIMI HDMI Settings:**

- A. Located in the **Signal Source > HDMI Settings > Others**. Select the following options.
 - a. **HDMI Aspect Ratio:** 16:9 (this will prevent issues with aspect ratio not properly changing within the Envy).
 - b. **Color Range:** Auto or Limit
 - c. **HDMI Mode:** Enhanced Mode

Quick Sanity Check

After completing the setup of the Envy with your Epson projector, we recommend reviewing the following checklist as a final “sanity check” to help ensure everything is set up optimally:

- A. Play any 4K HDR movie (except Gemini Man or Billy Lynn). Check the Envy Incoming Signal Menu (press OK on the Envy remote when no Envy menu is active) and make sure that the “Framerate” shows 23.976. If instead it shows 59.94, and you are using an Apple TV or Kaleidescape, then your source device(s) are not set up for proper playback – check our setup Apple TV and Kaleidescape guides on our website for more information. Or if you are using a different source device, check its settings and make sure it outputs in a “native” or “direct” mode.

- B. While playing the 4K HDR movie, check the Envy Incoming Signal Information to make sure the “Transfer Function” shows “HDR”. If not, Envy is not receiving HDR from the source player. This could be caused by a “rogue” device in the HDMI chain, or if using an AVR like the Denon/Marantz, make sure it is set to use “Enhanced” HDMI, so that it outputs the full 18 Gbps bandwidth and is not restricted to 9 Gbps.
- C. If the colors look undersaturated or oversaturated, please check the XGIMI menu to confirm the projector is using the correct, corresponding color space (revisit steps 3 & 9).

Additional Resources

We highly recommend reviewing the [Envy Academy Online video course](#) or reviewing the Envy Introduction to Profiles guide, MotionAI guide, and the setups guides for source devices such as Kaleidescape and Apple TV. This and other such resources are available at www.madvrenvy.com/#resources. You may also wish to seek out calibration services from third parties or from the madVR Labs Professional Services Group. Email psg@madvr.com for more information.

Thank you and enjoy your Envy!