Leeming LUT PRO

Camera Setup Guide:	DJI Mavic 2 Pro
Based On:	DJI Mavic 2 Pro
Colour Space:	Rec709 gamma 2.4
Target Exposure:	ETTR
LUT Version:	Athena III & Pro III
LUT Release Date:	2021.02.05
Guide Version:	2021.02.05

INTRODUCTION

Thank you for purchasing Leeming LUT Pro™, the most accurate and professional Look Up Tables (LUTs) for your camera.

The LUTs have been carefully developed to get the maximum dynamic range and colour accuracy out of the supported profiles, giving you unparalleled Rec709 precision as well as perfect camera matching with other supported cameras in the Leeming LUT Pro™ range. Use them in conjunction with ETTR shooting principles and you will get the highest possible quality images out of the camera every time.

I am confident you will find these the most accurate LUTs for your camera. Anything less and I wouldn't have put my name on them!

Enjoy :)

Paul Leeming
Director / Writer / Cinematographer / Actor
Visceral Psyche Films
www.visceralpsyche.com

LICENCE

You are granted a personal licence to use Leeming LUT Pro™ on two computers. For use with more computers, please contact Visceral Psyche Films for bulk discount pricing. You may not upload the LUTs anywhere, share them with other people or incorporate them into other LUTs for derivative use (i.e. making creative LUTs using Leeming LUT Pro™ as the underlying base), whether they be for sale or not. Please respect the work that has gone into the LUTs and support those supporting you.

COMPATIBILITY

Leeming LUT Pro™ is compatible with any software or hardware device that supports a 33x33x33 cube LUT. For a full list, please see the website.

REQUIREMENTS

1.   DJI Mavic 2 Pro.
2.   Spectrally neutral white or grey card, for white balancing the camera (eg. the white balance side of an X-Rite Colorchecker Passport is designed for this).
3.   Leeming LUT Pro™ for DJI Mavic 2 Pro.

NOTE: Items highlighted in yellow have an adverse effect on LUT accuracy if changed away from the recommended values in this guide.

QUICK REFERENCE OF IMPORTANT CAMERA SETTINGS

The settings below are recommended for the LUTs to work properly, in conjunction with an accurate white balance and using the ETTR zebras to show where the highlights of an image are clipping.

If you deviate from these settings, your colorimetry and luma curves won't match precisely to Rec709 and you may get other errors in your footage. You can find the details of how to set these in the next section.

	DLog-M
Zebras (ETTR)	Overexposed ON
Video Format	MP4
Camera Video Coding	H.265
Color	DLog-M
Style	Custom
Sharpness (triangle)	+2
Contrast (circle)	0
Saturation (square)	0
Overexposed	ON

FULL CAMERA SETUP GUIDE

Based on the camera listed on the title page of this guide. Your camera may not have all the same features so adjust as necessary.

1. Connect to your drone and start the DJI companion app.
2. Press the Settings icon and go to the Camera tab (the middle icon).
3. Set Video Size to your preferred resolution. Recommended resolution is 4K HQ (a crop of the sensor) or 4K Full FOV (downscale of the full sensor). Pick your preferred framerate.
4. Video Format should be set to MP4. Set the Camera Video Coding to H.265 to enable 10bit recording.
5. Set Color to DLog-M and set Style to Custom with the following parameters: Sharpness (triangle) +2, Contrast (circle) 0, Saturation (square) 0. Due to the way that the Mavic 2 Pro handles noise reduction, you need to set Sharpness +2 to effectively turn it off. This will give you a natural grain pattern with good detail, ready to de-noise in post if needed.
6. For White Balance you can set a Custom balance or use Auto. If your drone is pointed at a grey or white balance chart when you select the Custom function, it will auto-start at the balance it thinks is most neutral, so that's a handy way to use a neutral chart with the drone.
7. Now go to the Gear tab at the top of the Settings.
8. Set Histogram OFF and Overexposed ON. This will help you to see which parts of the image are blown out by showing zebras on the overexposed areas. Set Storage Location to SD Card, not Internal Storage, unless you forgot your SD card!
9. Go to the Iris tab at the top of the Settings.

10.   You can select M for Manual Exposure, to gain access to the various controls. Set your ISO, Aperture and Shutter as needed to correctly expose your image using the zebras to find the ETTR clipping point before reducing exposure slightly until the zebras disappear. Best Aperture is around f4.0 for maximum sharpness.

You are now ready to use Leeming LUT Pro™ with the maximum picture quality available. <mark>Be sure to visit the website to read up on how to use ETTR (Expose To The Right) principles</mark> to get the most dynamic range out of your sensor, as well as the associated Leeming LUT Pro™ LUT Installation Manual on how to apply the LUTs to your footage in post-production:
<div align="center">www.LeemingLUTPro.com</div>

HARDWARE / SOFTWARE QUIRKS AND BUGS

1.   <mark>To record in 10bit and take advantage of Dlog-M you NEED to set H.265 as your Video Coding.</mark>

GUIDE CHANGELOG

2021.02.05   Initial release.