L e e m i n g   L U T   PRO

Camera Setup Guide:	DJI Mini 4 Pro
Colour Space:	Rec709 gamma 2.4
Target Exposure:	ETTR
LUT Version:	Pro 4
Guide Version:	2025.01.01

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 :)

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LICENCE

You are granted a personal licence to use Leeming LUT Pro™ on three devices. For use with more devices, 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.

REQUIREMENTS

1.   DJI Mini 4 Pro.
2.   Spectrally neutral white or grey card, for white balancing the camera.
3.   Leeming LUT Pro 4 – DJI Mini 4 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 (10bit)	Normal	HLG
Overexposure Alert (ETTR Zebras)	ON	ON	ON
Color	DLog-M	Normal	HLG
Color Display Assist	OFF	N/A	OFF
Sharpness	-2	-2	-2
Noise Reduction	-2	-2	-2
Coding Format	H.265	H.265	H.265

FULL CAMERA SETUP GUIDE

Based on the Mini 4 Pro, using the DJI Fly phone app interface.

1. Connect to your Mini 4 Pro using the DJI Fly app, then press the Go Fly button next to your Mini 4 Pro listing to see your camera view.
2. Tap the double square icon above the record button icon and select Video mode.
3. Now tap on the three dots bottom left of screen to enter the Settings Menu.
4. Safety – set your max altitude and distance as well the Auto RTH (Return to Home) Altitude. You can also calibrate your gimbal and compass here, as well as unlocking Geo Zones etc. I recommend setting Advanced RTH to Optimal (make sure your RTH Altitude considers local heights of objects to avoid the drone crashing into them when on autopilot!).
5. Control – Choose your flight mode etc and Units as desired.
6. Camera – Set Format to MP4, Color to Dlog-M, Color Display Assist OFF, Coding Format to H.265. Set Video Subtitles (provides a data stream of camera and drone position etc for post in a separate SRT file next to the movie file) as desired.
7. Turn Overexposure Warning ON. If using Manual Focus, set your Peaking Level as desired. Set your Frame Guide aspect ratio as desired (eg 2.39:1)
8. Set White Balance to Manual and adjust to the correct Kelvin value. If you hold a white balance card in front of the drone when switching from Auto to Manual, the first custom value will be very close to neutral, so this is my recommended method for consistency and avoiding any colour shift during flight. You will need to tweak the white balance in post BEFORE applying the LUT, so I recommend shooting a few seconds of your white balance card before takeoff in the light you expect when flying, for best accuracy in post.
9. Set Style – Sharpness and Noise Reduction both to -2.
10. Set Storage to SD Card and Format it here if needed.
11. You can use Cache When Recording with your selected size, to record a low quality backup to your controller, phone or tablet if desired.

12.   Transmission – Set as needed for your region to avoid interference.
13.   About – Set your drone's name if needed. You can also check for firmware updates in this screen, to ensure you have the latest versions.
14.   Exit the Menus by tapping outside the settings box.
15.   Tap on the Auto icon bottom right of the main screen to switch to Pro mode and bring up the Camera functions.
16.   Tap on the Settings icon, then choose your desired resolution and framerate. I recommend 4K at 24fps for cinema work, but you can choose for higher framerates and combinations if desired. You can also set your Color Mode and WB here.
17.   Tap on the Iris icon. Here you can set your ISO, shutter speed and EV compensation manually for greater control over your exposure.
18.   Exit out of the video settings by tapping outside of the settings box.

You are now ready to use Leeming LUT Pro™ with the maximum picture quality available. ==Be sure to visit the website to read up on how to use ETTR (Expose To The Right) principles== 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:

www.LeemingLUTPro.com

GUIDE CHANGELOG

2025.01.01   Initial release.