

L e e m i n g L U T



Camera Setup Guide: DJI Mavic Air

Manual Version: 20190719

INTRODUCTION

Thank you for purchasing Leeming LUT Pro™, the most accurate and professional Look Up Table (LUT) for the DJI Mavic Air drone.

The LUT has been carefully developed to get the maximum dynamic range and colour accuracy out of the D-Cinelike profile, giving you unparalleled Rec709 precision as well as perfect camera matching with other supported cameras in the Leeming LUT Pro™ range.

Use it 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 this the best corrective LUT for the camera. Anything less and I wouldn't have put my name on them!

Enjoy :)

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REQUIREMENTS

1. DJI Mavic Air drone and associated DJI Go 4 app for iOS or Android.
2. Spectrally neutral white or grey card, for white balancing the camera (eg. the white balance side of the X-Rite Colorchecker Passport Photo is designed for this).
3. Leeming LUT Pro™ for the DJI Mavic Air.

CAMERA SETUP

(Using the Mavic Air with the DJI Go 4 app version 4.3.20 as representative of the menu structure)

1. Connect your Mavic Air controller to your iOS or Android device and turn on both the Mavic Air drone and the controller, then start the DJI Go 4 app.
2. Insert a MicroSD card into the rear slot of the drone.
3. Go through all the relevant updates etc (first time users) until the app says "Ready To Go (Vision)" and you can see the camera feed and main screen info.
4. Tap on the Settings icon underneath the Record button on the app (it looks like three lines with circles intersecting them).
5. In the Settings, first tap on the Gear icon and set Histogram ON, Overexposed ON, Smart Arm LEDs as desired, Storage Location – SD Card, then Format SD Card and Internal Storage.
6. Tap on the Camera icon in Settings and select your desired Video Size (I recommend 4K 3840x2160 at 24fps for cinema work but you can change this as you wish).
7. Set Video Format to MP4 or MOV as desired for your operating system.

8. Set White Balance to Custom or one of the preset types. Be careful using AWB as it will shift the white balance during the shot if your image changes significantly. Ideally, shoot a white balance card at the beginning of your shot before takeoff so that you can adjust white balance more accurately in post.
9. Set the Color to D-Cinelike, then set Style to Custom with the following settings:

Sharpness -1, Contrast 0, Saturation -3

NOTE: Sharpness 0 gives a much grainier image so I have chosen -1 as the best sharpness. You can adjust this as desired as it won't affect the LUT colorimetry. Do keep the Contrast and Saturation settings as recommended though as these will affect the LUT if set differently.

10. Tap on the Iris icon and choose the M (manual) option for exposure controls (you can use Auto but this may introduce more noise when it auto-selects a higher ISO). Set your ISO as low as possible while watching for the overexposure zebras on screen. If there are still zebras showing at ISO 100 (likely outside in the sun) then adjust your shutter until the zebras and/or histogram no longer show overexposure. You can also use ND filters attached to the lens as another way of reducing exposure instead of, or combined with, the shutter.
11. There are lots more drone and gimbal specific settings that are outside of the scope of this setup guide, so please be sure to check those as well. The main purpose of this guide is to get your colour profile and important settings correct so that the LUT works as intended. The LUT will cause the image to get a bit darker in the mids – this is fixing the default curve of D-Cinelike to be more accurate for Rec709 luma. If you feel that the image is too dark, you can follow the LUT with one of my Apollo Pro Quickies to brighten the image again without clipping any highlights. See your purchase email for the link and further instructions.

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 LUT to your footage in post-production:

www.LeemingLUTPro.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. All updates to the product are free of charge. You may not upload the LUT anywhere, share it with other people or incorporate it into other LUTs, whether they be for sale or not. Please respect the work that has gone into the LUTs and support those supporting you. Thank you!

COMPATIBILITY

Leeming LUT Pro™ is compatible with any NLE that uses a 33x33x33 .cube LUT format. It has been successfully tested with Adobe Premiere CC 2018, Davinci Resolve 15, Final Cut X and Magix Vegas 13, among others.