

L e e m i n g L U T P R O

Camera Setup Guide:	GoPro 4/5/Session
Based On:	GoPro 5 Black (firmware 02.70)
Colour Space:	Rec709 gamma 2.4
Target Exposure:	ETTR
LUT Version:	Athena III & Pro III
LUT Release Date:	2021.05.21
Guide Version:	2021.05.21

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. GoPro 4 or 5 Black series action camera or GoPro Session.
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 the GoPro 4/5/Session.

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 prior to applying the LUT in post.

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.

	ProTune Flat	ProTune Flat Native
Color	Flat	Flat
White Balance	AWB or Preset Temp	Native

FULL CAMERA SETUP GUIDE

Based on the GoPro 5 Black. Your camera may not have all the same features so adjust as necessary.

1. Tap on the RES button and set your resolution as desired. Choose your FPS (frames per second – framerate) and FOV (field of view) as desired.
2. Swipe in from the right hand side of the screen (by the PT icon) to enter ProTune settings.
3. Set **Color FLAT**, **WB to either Native, or Auto/Preset Temp**, ISO and Shutter as needed, EV Comp to 0 (you can set this lower if your footage is often clipping the whites), Sharpness and Audio as desired.
4. Swipe from the right to set video stabilization and auto low light as needed, then swipe down to exit video settings.
5. In Preferences I recommend setting Video Format to your local frequency (to help mitigate flicker). You can also send the current date and time to the camera from this screen via Set Date and Time. Once finished, tap the back arrow to exit.

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 in post-production:

www.LeemingLUTPro.com

HARDWARE / SOFTWARE QUIRKS AND BUGS

1. The camera has a wireless connection which, if left ON, can sometimes cause the camera to turn on automatically at random times. I recommend setting the wireless connection OFF unless actually using the function.
2. **Due to the nature of the ProTune Flat NATIVE white balance preset, you MUST apply a white balance change in post-production before applying the LUT for this profile.** I recommend shooting a white balance target in the first second or so of your clip so that you can use the WB picker function of your editing software to quickly and accurately set this in post. **The regular AWB or preset temps don't**

require it but I still recommend tweaking white balance in post and shooting a white balance card in the initial seconds of your clip for later use in post.

3. Note that AWB can shift during the shot, so if your lighting conditions are changing significantly, you may wish to set one of the preset temperatures to avoid this.

DAVINCI RESOLVE CLIP ATTRIBUTES

When importing clips into Davinci Resolve you **MUST** set the Clip Attributes of GoPro footage to **FULL**, otherwise the highlights and shadows will be clipped from your recorded footage.

GUIDE CHANGELOG

2021.05.21 Initial release.