L e e m i n g   L U T   PRO

Camera Setup Guide:	RunCam 5 Orange
Based On:	RunCam 5 Orange (firmware 1.1.6)
Colour Space:	Rec709 gamma 2.4
Target Exposure:	ETTR
LUT Version:	Athena III & Pro III
LUT Release Date:	2021.05.31
Guide Version:	2021.05.31

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 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.   RunCam 5 Orange camera.
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 RunCam 5 Orange.

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.

	Normal	Flat
Color style	Normal	Flat colour
Saturation	Medium	Medium
Contrast	Medium	Medium
Low Light Image Enhancement	OFF	OFF

FULL CAMERA SETUP GUIDE

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

1.   Using the RunCam app, choose the RunCam 5 Orange then choose QR Code Configuration. There are two pages to adjust: Video and General.
2.   Video – Set Video Quality HIGH, Resolution, Volume, Shutter and Sensitivity as desired (I recommend ISO 100 for daylight video), Color style NORMAL or FLAT COLOUR (I recommend NORMAL as there is no dynamic range benefit to Flat Colour, it just compresses the tonal range in a negative way). Distortion Correction and Electronic Image Stabilization can be set as desired.
3.   General Settings – Set Saturation MEDIUM, Exposure Compensation as needed (I recommend 0 as default), Contrast MEDIUM, Sharpness and Metering Mode as desired, and White Balance as one of the presets (eg Sunny) to avoid it shifting during the shot. Set Low Light Image Enhancement OFF and choose your Power Supply Frequency for the country you are in to avoid lights flickering.
4.   Once you are finished, hit Apply and the app generates a QR code along with instructions on how to read the QR code with the camera.
5.   The camera will beep twice once it confirms the settings have been applied. You are now ready to shoot. I recommend recording a few seconds of a white balance card at the beginning of your shot so that you have a reference for post-production to adjust your white balance to be perfect before applying the LUT.

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:

<div align="center">www.LeemingLUTPro.com</div>

HARDWARE / SOFTWARE QUIRKS AND BUGS

1. <mark>Due to the nature of the white balance presets, I strongly recommend applying a white balance adjustment in post-production before applying the LUT</mark>. 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.
2. Note that Auto white balance can shift during the shot, so if your lighting conditions are changing significantly, you should set one of the preset temperatures to avoid this.
3. I strongly recommend using the NORMAL colour style over the FLAT one as there is no dynamic range benefit measured from the Flat style, while it has compressed tonal range and lowered base saturation, which for these 8bit cameras actually causes a worse looking image than the NORMAL style. There are LUTs available for both however as you may already have shot using the Flat style. Be sure to follow the Saturation and Contrast values as per this guide for the LUTs to work properly.

GUIDE CHANGELOG

2021.05.31   Initial release.