

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

Camera Setup Guide:	Insta360 Luna Ultra
Colour Space:	Rec709 gamma 2.4
Target Exposure:	ETTR
LUT Version:	Pro 4
Guide Version:	2026.07.12

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 / Colorist
Visceral Psyche Films
www.visceralpsyche.com

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. Insta360 Luna Ultra camera.
2. Spectrally neutral white or grey card, for white balancing the camera.
3. Leeming LUT Pro 4 – Insta360 Luna Ultra.

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. Not all profiles are available on all cameras.

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.

	I-Log
Saturation	N/A
Sharpness ¹	N/A
Contrast	N/A
Metering Mode ¹	Matrix
Video Bitrate ¹	High

¹ These settings won't affect your colorimetry or luma curves but they will affect overall picture quality if altered.

FULL CAMERA SETUP GUIDE

Menu setup based on the Insta360 Luna Ultra. Your camera may not have all the same features so adjust as necessary.

1. Turn camera on by rotating the screen to the horizontal, then tap the bottom left button with the camera icon to set Movie mode.
2. Tap the Resolution & Framerate area and choose your preferred settings (I recommend 8K for maximum resolution whenever possible). Note that 24p is exactly 24.00p (cinema standard). You can also choose your preferred aspect ratio and portrait/landscape options here.
3. Choose your lens and magnification by tapping the 1x area on screen and cycling through the options. 3X and above uses the telephoto lens while 1x and 2x use the wide lens.
4. Swipe in from the right side of screen to change from the Basic profile to Pro, which unlocks all the professional settings. Tap on Standard and choose I-Log (my recommended profile for best colorimetry).
5. For exposure I normally recommend Auto Exposure for this type of camera, but you can tap and go into the sub-menu to set which ones are Auto and which are manual (for Shutter Speed, ISO and EV Exposure Compensation). EV at 0 works well when combined with Matrix Metering Mode. Test your scene if possible and if it's underexposing, adjust EV slightly to compensate.
6. Set your White Balance as desired (Auto seems to be pretty accurate with this camera but be aware it will change during the shot, so I recommend setting a fixed WB to help in post production).
7. Set Metering Mode to Matrix instead of Face Priority to ensure proper ETTR of the whole scene. If you use Face Priority, be aware it may overexpose the background.
8. Set your Autofocus as desired. When in the main screen, you can tap the left center button to engage and start Auto Tracking to follow your face or that of your subject.
9. Swipe down from the top of the screen to enter the Settings menu, then tap on the Gear Icon.
10. Tap on General, then set Screen Auto Sleep and Auto Power Off to NEVER.
11. Scroll down and set Video Bitrate to HIGH and Anti-Flicker as needed.

12. From the main Settings menu you can scroll left to manage your Storage.

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. All profiles other than I-Log appear to auto-adjust themselves for exposure in a non-linear way on the fly, so it's impossible to build LUT profiles for them, as there's no fixed curve to work with. They also seem to add some form of sharpening even if Sharpness is set to the minimum. For now, if you don't want to use I-Log for some reason, know that Standard and PureVideo out of camera are reasonably accurate for most colours, but for critical work I strongly recommend shooting I-Log for all your footage, as it gives a true log starting point and removes all artificial sharpening etc from the image, giving a pleasing starting point for colour correction and further grading.

GUIDE CHANGELOG

2026.07.12 Initial release.