

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

Camera Setup Guide:	Insta360 Ace Pro 2
Colour Space:	Rec709 gamma 2.4
Target Exposure:	ETTR
LUT Version:	Pro 4
Guide Version:	2025.05.29

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. For a full list, please see the website.

REQUIREMENTS

1. Insta360 Ace Pro 2 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 – Insta 360 Ace Pro 2.

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.

	I-Log	Flat	Standard
I-Log Mode	ON	OFF	OFF
Filter	N/A	Flat	Standard
Active HDR	OFF	OFF	OFF
Sharpness	Low	Low	Low

FULL CAMERA SETUP GUIDE

Based on the Insta360 Ace Pro 2. Your camera may not have all the same features so adjust as necessary.

1. Swipe down from the top of the screen to show the Main Menu. Swipe to the right settings page and tap on the hexagonal nut icon to enter the Settings.
2. In the General tab, I recommend adjusting Screen Auto Sleep to Never and Auto Power Off to 15min, or to your preferred values. Clarity Zoom can also be set ON to allow for digital zoom functionality when in some modes.
3. In Image Settings, set your Anti-Flicker to your local value, Video Encoding to H.265 and **Bitrate HIGH**.
4. You can format your SD card in the SD Card menu, then set your Date and Time.
5. Exit the Settings menu.
6. On the main screen, tap on the bottom right icon showing the shooting mode and resolution/framerate to set your options. The shooting mode icon when tapped lets you switch between stills, video etc. Set it to Video, then tap the resolution/framerate and set as desired. I recommend 4K for most work as 8K comes with several restrictions. You can also set your Stabilization here and aspect ratio. **Make sure Active HDR is OFF**. Exit the sub-menu.
7. From the main screen, swipe in from the right to set your shooting parameters. At the top switch the metering mode from Auto to Manual first, then choose whether you want ISO, shutter speed and White Balance to be manual or Auto. **I recommend using manual White Balance to maintain consistency in the shot**. Scroll down and set Sharpness to **LOW** to avoid oversharpended footage. You can also set I-Log on here, though for this camera I recommend the Flat profile from the regular profile options as it only shoots 8bit 4:2:0 footage and the log profile is not ideal in this situation. I recommend not using Color Preview in the I-Log settings as it can give a false sense of exposure.
8. Exit the image settings menu.

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

GUIDE CHANGELOG

2025.05.29 Initial release.