

L e e m i n g L U T

PRO

Blackmagic Design Camera Setup

LUT Version: Pro V4 Film

INTRODUCTION

Thank you for purchasing Leeming LUT Pro™, the best Look Up Table (LUT) for Blackmagic Design cameras.

The LUT has been carefully developed to get the maximum dynamic range out of the camera, while retaining pleasing cinematic skin tones and accurate Rec709 colorimetry.

Use it in conjunction with this setup guide and ETTR shooting principles to get the highest quality images possible out of the camera.

I am confident you will find this the best LUT for Blackmagic Design cameras. Anything less and I wouldn't have put my name on it!

Enjoy :)

A white, handwritten signature on a dark background. The signature is stylized and appears to be 'PL' with a long horizontal stroke extending to the right.

Paul Leeming
Director / Writer / Cinematographer / Actor
Visceral Psyche Films
www.visceralpsyche.com

REQUIREMENTS

1. Blackmagic Design camera with Colour Science V4.0 and Film profile.
2. 18% grey card or spectrally neutral white card for white balancing the camera.
3. Leeming LUT Pro™ for Blackmagic Design cameras.
4. Davinici Resolve to work with CinemaDNG files in Film mode (the LUT works fine with ProRes flavours in all NLEs).

CAMERA SETUP (based on the Blackmagic Design Pocket Cinema Camera 4K firmware v5.2 - other cameras may have slightly different options)

1. Press the Menu button.
2. Record tab page 1 – Select your preferred codec, compression and resolution depending on your attached media capabilities and project requirements.
3. Record tab page 2 – Set Dynamic Range to Film for the LUT to work properly, then choose your project frame rate and other settings as desired.
4. Record tab page 3 – Set Detail Sharpening OFF (greyed out when recording RAW) and Record LUT to Clip OFF (if you set this to ON you will bake the LUT into the recording).
5. Monitor tab page 1 – Select LCD, then set Zebra ON, and the other settings as desired. Select HDMI, then set the other settings as desired. Select BOTH and set Zebra Levels to 95%, then set Focus Assist to Colored Lines, Level HIGH, Focus Color GREEN. You can set your Frame Guides as required for your project.
6. Monitor tab page 2 – Select LCD, then set Status Text to ON and Display as desired (I normally set Codec and Resolution). Select HDMI and set Clean Feed. Select BOTH, then set your Grids and Safe Area Guides as desired.
7. Audio tab page 1 and 2 – set your inputs and levels as required on both pages.
8. Setup tab page 1 – Set your date and time, then set Shutter Measurement to Shutter Angle and Flicker Free Shutter to your local power frequency standard.
9. Setup tab page 2 – You can choose your own functions but I set Function F1 to Display LUT, F2 to Focus Assist, and F3 to Frame Guides. Choose where each displays.
10. Setup tab page 3 and 4 – Set Tally Light LED to OFF, LED Brightness to Low, and Playback to All Clips. Set Bluetooth as desired.
11. Presets tab page 1 – You can save your camera presets here using the + button and save them to your media for easy copying to another camera.
12. LUTs tab page 1 and 2 – First copy the “Leeming LUT Pro - Blackmagic Design V4 Film Monitor.cube” to your media card in the root directory of the card, then insert it into the camera. Press the two arrows button, Import LUT, then press Import. Choose the card your LUT is on, then select it from the list so it is highlighted in blue, then Import. Once the import is finished you will see it appear in the list. Select it, then press the tick button at the bottom of the screen to set it active. The active LUT has a blue line underneath.
13. Press the menu button to exit the menus.
14. With the main screen active, tap on the timecode to toggle between Record timecode and time of day. Tap on the Battery icon to switch between Voltage (recommended) or percentage/bars.
15. To white balance your shot, place your grey or white balance card in front of the camera, focus on it and ETTR until just below the zebras, then press the WB button on the grip area, or tap on the WB area on screen, and select AWB. Ensure that the target square is completely within the grey or white card, then press Update WB. Your camera will now be neutrally balanced.
16. Use Function 1 to toggle the LUT on or off, Function 2 to toggle Focus Assist on or off, and Function 3 to toggle your frame guides on or off. The HFR button can be used to quickly toggle between normal project framerate and your chosen high speed framerate and resolution. Use the Magnify button to zoom in 1:1 for focus checking.
17. Version 5.2 of the BMPCC4K firmware has a bug whereby the zebras in ProRes do not accurately show the highlight clipping at non-base ISOs, so for now, if shooting ProRes, I recommend shooting at the base ISOs of 400 or 3200 only to ensure accurate zebras. CinemaDNG RAW shooting will correctly show clipping so all ISOs are usable in that mode.

You are now ready to use Leeming LUT Pro™ with the maximum picture quality available in camera. Be sure to read up on how to use ETTR (Expose To The Right) principles via the website to get the most dynamic range out of your sensor, as well as the associated Leeming LUT Pro™ Installation Manual on how to apply the LUT to your footage in post-production:

LICENCE

You are granted a personal licence to use Leeming LUT Pro™ on a single desktop plus a single laptop (or any combination of 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 or share it with other people. You may not build derivative LUTs based on these LUTs and/or make them publicly available, for free or for purchase. Please respect the work that has gone into these LUTs and support those supporting you. Thank you!

COMPATIBILITY

Leeming LUT Pro™ is compatible with any NLE that uses the 64x64x64 .cube LUT format. It has been successfully tested with Adobe Creative Cloud, Davinci Resolve, Final Cut X, Edius and Magix Vegas. If you need a 32x32x32 .cube LUT for compatibility with older software or hardware please contact me.

© 2018 Visceral Psyche Films
www.visceralpsyche.com