

L e e m i n g L U T



Panasonic GH4 & G7 Cine-D Camera Setup

Manual Version: v3.02

INTRODUCTION

Thank you for purchasing Leeming LUT One™, the best Look Up Table (LUT) for the Panasonic GH4 & G7 cameras, log or linear!

The LUT came about after Panasonic's V-Log L release was shown to be less than stellar for internal, 8 bit 4:2:0 recording to the SD card, with visual errors like YUV chroma smearing on many flat surfaces, baseline colour shifts and reduced tonal range compared to the linear profiles.

The fix, after a lot of testing and tweaking, is Leeming LUT One™ – a superior colour and tone accurate LUT designed to apply over the best tested dynamic range profile for the GH4 & G7, Cinelike D (yes, really!), giving accurate Rec709 colour results in any compatible editing suite, ready for grading.

Colour noise is also minimised by careful reduction of those colour values which are more easily apparent to the human eye, resulting in a pleasing and filmic image at all ISOs without excessive colour noise. This results in more usable dynamic range than even the V-Log L profile, because the minimised noise leads to more useful low end detail retention as well as tonality.

Advantages of the LUT with Cinelike D over V-Log L and its associated LUT are cleaner black levels, equal sensor dynamic range, more usable actual dynamic range, higher bit depth of colour and tonal information, more accurate colour output (V-Log L tends to push towards green instead of remaining colour neutral) and the ability to use it on all GH4s and G7s, regardless of V-Log L (saving you at a minimum \$99 or more).

I am confident you will find this the best LUT for the GH4 & G7 across any profile. Anything less and I wouldn't have put my name on it!

Enjoy :)

A handwritten signature in white ink, appearing to be 'PL' or similar initials, written in a cursive style.

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

REQUIREMENTS

1. Panasonic DMC-GH4/GH4R/G7/G70 digital camera (V-Log L not required).
2. Spectrally neutral white card for white balancing the camera.
3. Leeming LUT One™ for the Panasonic GH4/G7 (Cine-D).

CAMERA SETUP FOR GH4/G7 (Cine-D)

1. Switch the top dial to Movie mode.
2. Press the Menu button and go to Motion Picture – Photo Style – Cinelike D.
3. With Cinelike D selected, adjust Contrast to 0, Sharpness to -3, Noise Reduction to -5, Saturation to 0, Hue to 0 (GH4 only), then press Set.
4. Go to Rec Format and select MP4 (LPCM) or MOV, depending on your edit software (Davinci Resolve needs plain MP4 or MOV formats).
5. Go to Rec Quality and select 4K 100M 24P (or C4K 100M 24p if in Cinema mode on the GH4).
6. Set Exposure Mode to M (manual).
7. Go to Highlight/Shadow and make sure they are both set to 0.
8. Make sure iDynamic and iResolution are set to OFF.
9. Check that Master Pedestal is set to 0 (GH4 only) and that Luminance Level is set to 0-255.
10. Go to the Custom menu (second tab) and select Peaking On, then Set – High – Colour (green is my recommendation but whatever suits you best is fine).
11. Make sure Histogram and Highlight are ON.
12. Go to Zebra Pattern – Zebra 1, then go back into the Zebra Pattern menu and Set – Zebra 1 – 105%.

You are now ready to use Leeming LUT One™ (Cine-D Edition) with the maximum picture quality available in the GH4 and G7. Be sure 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 One™ Installation Manual on how to apply the LUT to your footage in post-production:

www.LeemingLUTOne.com

LICENCE

You are granted a personal licence to use Leeming LUT One™ 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. Please respect the work that has gone into the LUT and support those supporting you. Thank you!

COMPATIBILITY

Leeming LUT One™ is compatible with any NLE that uses the .cube LUT format. It has been successfully tested with Adobe Premiere CC 2015, Davinci Resolve 12, Final Cut X (with a LUT plug-in) and Sony Vegas 13 (with a LUT plug-in).