



Production Technology Support









CAMERA PRODUCTION GUIDE | Panasonic BS1H

Settings and best-practices for capture with the BS1H on Netflix 4k Originals.

If you have any questions or comments please contact: prodtech.support@netflix.com

Current Panasonic BS1H Ops Manual: [HERE](#)

CAPTURE SETTINGS | MOV 4:2:2/10-Bit/ALL-I

SETTING	MENU	SELECTION
SYSTEM MODE	 Video Tab →  Rec File Format →	.MOV 4096 x 2160 or 3840x2160
LOG ENCODING/ COLOR SPACE	 Video Tab →  Photo Style →	V-LOG
CODEC	 Video Tab →  Rec File Format →	422/10bit/ALL-I 400 Mbps
Crop Options	 Video Tab →  Image Area of Video →	Full, S35mm, Pixel/Pixel

NOTE: BS1H “Rec Mode” needs to be in “Creative Video Mode”

NOTE: To access All-I CODECs, use REC. File Format MOV. Access via the Movie Camera Tab, Rec. File Format Menu


Recommended Exposure Values for V-LOG

Input Reflection	0% Black	18% Grey	90% White
V-LOG	7.3 IRE	42 IRE	61 IRE



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STABILIZATION SETTINGS | Video Tab / Others (Video) Menu







SETTING	SETTING MEANING	Options
Operation Mode	Turning In-Lens Stabilization on or off (select lenses)	 (on) or Off
E-Stabilization (Video)	Crops the image slightly and uses the available sensor area for further electronic stabilization.	ON or OFF
Not available when the following functions are in use: <ul style="list-style-type: none">- 6K/5.9K/5.4K video- Variable Frame Rate (VFR) mode- HDMI RAW Output- Live Cropping		
Boost I.S. (Video)	For added stabilization power with hand-held shots to simulate a tripod look. Not for Panning.	ON or OFF



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Anamorphic Production









SETTING	Menu	Selection
Large Format 3:2 Capture	 Video Tab →	Large Format 3:2 → 6K/24p/420/10-L
Academy 4:3 Capture	 Rec File Format →	Academy 4:3 → 4K-A/48p/420/10-L 4K-A/30p/422/10-I 4K-A/24p/422/10-I
Anamorphic Desqueeze Monitoring	 Custom Tab →	2.0x 1.8x 1.5x 1.33x 1.30x OFF
* This is for onboard preview only Will not output over HDMI Will not desqueeze the final file	 Anamorphic DeSqueeze →	
Video Frame marker	 Custom Tab →  Video Frame marker →	2.39:1 2.35:1 2.00:1 1.85:1 16:9



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Image Filtration and Compensation

SETTING	Menu	Selection
<p>Diffraction Compensation</p> <p>* Only Available with Native L mount active lenses. * Netflix advises this should be turned off.</p>	<p> Video Tab →</p> <p> Diffraction Compensation →</p>	ON or OFF
<p>Noise Reduction</p> <p>* Adjusted from within the V-LOG Photo Style Menu .</p>	<p> Video Tab →</p> <p> Photo Style →</p>	From the V-LOG option , press the down arrow on the D-Pad to access NR. Set to 0
<p>Sharpening</p> <p>* Adjusted from within the V-LOG Photo Style Menu .</p>	<p> Video Tab →</p> <p> Photo Style →</p>	From the V-LOG option , press the down arrow on the D-Pad to access S. Set to 0.
<p>Vignetting Compensation</p> <p>* Only Available with Native L mount active lenses. * Netflix advises this should be turned off.</p>	<p> Video Tab →</p> <p> Vignetting Comp →</p>	ON or OFF



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HIGH SPEED | **4:2:2/10-Bit UNCOMPRESSED HDMI OUTPUT**

CODEC	MAX FPS	MAX RESOLUTION
With an external recorder	60fps	4096 x 2160 or 3840x2160 422/ 10BIT

NOTE: Only available in Super 35mm





NOTE: in the Movie camera Tab, Image Format menu. Select 4K or C4K 59.94p 420/10bit/long GOP

NOTE: HDMI Rec Output settings can be accessed from the Gear (Cog) Tab, In/Out menu.

NOTE: Press Fn1 to turn Info Display off.

Once these have been changed, you will have 4:2:2 10 bit output over HDMI

OPTIMIZING PERFORMANCE | **MAINTENANCE PROCEDURES**





SETTING	MENU	STANDARD OPERATING PROCEDURE
Pixel Refresh	 Setup Tab →  Others →	Panasonic recommends yearly Pixel Refresh of the BS1H. Can be done sooner if needed.
Firmware Version	 Setup Tab →  Others →	Compare FW version to latest version. Can be updated from this menu. https://av.jpn.support.panasonic.com/support/global/cs/dsc/download/index4.html



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Time Code/Genlock

SETTING	MENU	STANDARD OPERATING PROCEDURE
Step 3: Set TC options in Menu	 Video Tab →  Time Code →	External TC Settings TC Synchronization: TC IN or TC OUT
Step 3: Set Genlock options in Menu	 Video Tab →  Genlock →	External Genlock Settings Genlock Input: On or Off Horizontal Phase Adjustment: -206 to +49
NOTE: A “GL” will be displayed on the left side of the monitor when a Genlock device is properly synced.		