

Dear Customer

◆ About the Upgrade of the AG-GH4 Firmware

The following functions were added or changed from Ver. 2.1 of the firmware.
Please read this in conjunction with the operating instructions for the camera.

- The firmware version can be checked from the [Version Disp.] of the [Setup] menu.

[HDMI Time Code Output] has been added to [Time Code] in the [Motion Picture] menu.

[HDMI Time Code Output] can now be selected from [Time Code] in the [Motion Picture] menu. This enables a time code to be output to video from the HDMI output.

MENU →  [Motion Picture] → [Time Code]

[HDMI Time Code Output]	<p>Set whether or not to output a time code to video from the HDMI output. [ON]/[OFF]</p> <ul style="list-style-type: none"> • [HDMI Time Code Output] can only be set in Creative Video Mode. • When using the HDMI output and outputting videos that do not include time codes (e.g., when [Rec Format] is set to [MP4]), a time code will not be output. • When set to [ON], the device screen may go dark depending on the connected device. If this happens, set to [OFF].
--------------------------------	---

■ Conditions for outputting a time code to HDMI output

A time code is output to video from the HDMI output only when all the following conditions are satisfied.

<p>In recording</p> <ul style="list-style-type: none"> • When [HDMI Time Code Output] is set to [ON]. • In Creative Video Mode. • When [Rec Format] is set to [AVCHD], [MP4 (LPCM)] or [MOV]. 	<p>In playback</p> <ul style="list-style-type: none"> • When [HDMI Time Code Output] is set to [ON]. • When playing back a motion picture recorded with Creative Video Mode. • When [HDMI Mode (Play)] in [TV Connection] is set to [AUTO].
---	---

[HDMI Recording Control] has been added to [HDMI Rec Output] in the [Motion Picture] menu.

[HDMI Recording Control] can now be selected from [HDMI Rec Output] in the [Motion Picture] menu.

MENU →  **[Motion Picture]** → **[HDMI Rec Output]**

[HDMI Recording Control]	Set whether or not to output control informations for recording start/stop to external devices connected to the HDMI socket. [ON]/[OFF]
---------------------------------	---

- [HDMI Recording Control] can only be set when [HDMI Time Code Output] is set to [ON] in Creative Video Mode.
- Control informations are output when starting/stopping recording motion pictures. Control information is output when pressing the motion picture button or shutter button, even if the motion picture cannot be recorded (such as when there is no card inserted into this unit).
- Control information can be output only when outputting a time code to video from the HDMI output during recording.
- Only compatible external devices can be controlled.

[1080/30p Set.] ([1080/25p Set.]) has been added to [HDMI Rec Output] in the [Motion Picture] menu.

[1080/30p Set.] ([1080/25p Set.]) can now be selected from [HDMI Rec Output] in the [Motion Picture] menu.

MENU →  **[Motion Picture]** → **[HDMI Rec Output]**

[1080/30p Set.] [1080/25p Set.]	Set the HDMI output format for motion pictures with a size/recording frame rate of FHD/30p (FHD/25p). [60p]([50p]): HDMI output at FHD/60p (FHD/50p). [30p]([25p]): HDMI output at FHD/30p (FHD/25p).
--	---

- Menu items and the output frame rate change to suit [System Frequency] settings.
- When [System Frequency] is set to [24.00 Hz (CINEMA)], this function is not available.

[For owners of the interface unit (AG-YAGH)]
Information on updating the firmware of your interface unit.

Use the interface unit (AG-YAGH) that is compatible with this unit after updating the firmware.

- When using the interface unit without updating, some functions may not operate normally.

Compatible firmware versions

Digital camera	Interface unit
2.1 or higher	1.1 or higher

- To check the firmware version of the interface unit, attach it to the camera body and select [Version Disp.] in the [Setup] menu.

For information on the update procedure of the interface unit, refer to the support site below:

<http://pro-av.panasonic.net>

Notice


Firmware Updates

The following functions have been added in firmware version 1.1.
Refer to the operating instructions for the unit and the digital camera together with this document.

- The firmware version can be verified in [Version Disp.] of the digital camera's Setup menu.

Time code output from the HDMI terminal


When [HDMI Time Code Output] is set to [ON] on the digital camera, a time code will also be output from the unit's HDMI terminal.

MENU →  [Motion Picture] → [Time Code] → [HDMI Time Code Output]

Recording control for external devices

When [HDMI Recording Control] is set to [ON] on the digital camera, recording start/stop commands will be output to the external device connected to the unit's HDMI terminal.

Only devices compatible with the unit can be controlled.

MENU →  [Motion Picture] → [HDMI Rec Output] → [HDMI Recording Control]

1080/30PsF (1080/25PsF) SDI signal output

When [1080/30p(25p) Set.] is set to [30p(25p)] on the digital camera, 1080/30PsF (1080/25PsF) SDI signals will be output from the unit's SDI OUT terminal. In addition, 1080/30p (1080/25p) signals will be output from the HDMI terminal.

- When [60p(50p)] is selected, 1080/60p (1080/50p) signals will be output from both the SDI OUT terminal and the HDMI terminal.

MENU →  [Motion Picture] → [HDMI Rec Output] → [1080/30p(25p) Set.]

Firmware updates for digital cameras

Update the firmware of supported digital cameras (AG-GH4/DMC-GH4) before using them with the unit.

- If the firmware is not updated, some functions may not operate properly.

Supported firmware versions	Digital camera	Unit
	2.1 or later	1.1 or later

For detail on the update procedure for digital cameras, visit the following websites.
<http://pro-av.panasonic.net>