



# GY-HM200/GY-HM170 INSTRUCTIONS

## Notification of Changes

This is a notification on the changes or additions to the features and changes in the onscreen display. Please read this together with the "INSTRUCTIONS".

**200**, **170**: Feature available on the model or series name only.

### Bit Rate added to System "4K"

"70M" is added to [System]→[Record Set]→[Record Format]→[Bit Rate].

System	Format	Resolution	Frame Rate	Bit Rate (new values are in bold)
4K	Quick Time	3840x2160	30p 25p 24p	150 M <b>70 M</b>

### Memo:

- When 4K is set, the network function cannot be used.

### Usable Cards

Format Setting and Usable SD Card Combinations

System	Format	Bit Rate	Usable SD Card
4K	Quick Time	150 M	UHS-I U3 or higher
		70 M	Class 10 or higher
HD	AVCHD	50 M (YUV422), 50 M (XHQ)	Class 6 or higher
		35 M (UHQ)	
SD	-	-	Class 4 or higher
Web	-	-	-

Estimated Recordable Time of SD Cards

- When [System]→[Record Set]→[Record Format]→[Format] is set to "QuickTime".

System	4K		HD		SD	Web	
Resolution	2160p		1080i/1080p		480i/ 576i	540p	270p
Bit Rate	150 M	70 M	XHQ	UHQ	-	HQ	LP
4GB	3	6	9	12	47	130	285
8GB	6	13	18	25	95	270	580
16GB	12	26	36	50	190	540	1160
32GB	25	52	72	100	380	1080	2320
64GB (SDXC)	50	105	145	200	760	2160	4720
128GB (SDXC)	100	210	290	400	1520	4320	9440

(Unit: minute)

### Histogram feature added

The histogram shows the brightness distribution, and is employed mainly for checking the exposure of the image.

- Set the histogram feature to ON.
  - Set [Main Menu]→[LCD / VF]→[Display Settings]→[Histogram] to ON.
  - You can also press the user button that is assigned with "Histogram".
- Set the upper and lower limits of the histogram display. After setting, the brightness level is displayed in red color.

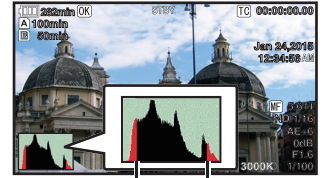
Item	Settings	Options
Top	Sets the maximum brightness limit for changing the histogram display color	5% to 110% (in 5 % increments) Default value: 80%
Bottom	Sets the minimum brightness limit for changing the histogram display color	0 % to 105 % (in 5 % increments) Default value: 20%

Example 1) Top 110 %, Bottom 0 %

Example 2) Top 90 %, Bottom 10 %



\* The area in red is not displayed.




Bottom Top

How to read the histogram

- The vertical axis denotes the number of pixels.
- The horizontal axis denotes the pixel brightness.

### Icon display added when zebra function is "On"

During zebra pattern display,  (zebra icon) is displayed on the display screen in Camera mode.

### Setting items changed or added to menu item [Rec Trigger]

Setting items in [A/V Set]→[Video Set]→[HDMI/SDI Out]→[Rec Trigger] are changed. **(200)**

Setting items are added to [A/V Set]→[Video Set]→[HDMI Out]→ [Rec Trigger]. **(170)**

- HDMI (200)**: Superimposes the trigger signals in tandem with the [HDMI] terminal as well as the [REC] button on the camera body and outputs the recording/stop control signals to the compatible device.
- On (170)**: Superimposes the trigger signals in tandem with the [HDMI] terminal as well as the [REC] button on the camera body and outputs the recording/stop control signals to the compatible device.
- SDI (200)**: Superimposes the trigger signals in tandem with the [SDI OUT] terminal as well as the [REC] button on the camera body and outputs the recording/stop control signals to the compatible device.
- HDMI+SDI (200)**: Superimposes the trigger signals in tandem with the [HDMI/SDI Out] terminal as well as the [REC] button on the camera body and outputs the recording/stop control signals to the compatible device.

[Setting Values: ●Off, HDMI, SDI, HDMI+SDI] **(200)**

[Setting Values: ●Off, On] **(170)**

### Memo:

- When [A/V Set]→[Video Set]→[HDMI/SDI Out] **(200)** or [HDMI Out] **(170)** is set to "Off", [Rec Trigger] is fixed at "Off" and selection is disabled.
- When [System]→[Record Set]→[Rec Mode] is set to "Interval Rec" or "Frame Rec", [Rec Trigger] is fixed at "Off" and selection is disabled.
- Set to "Off" when connecting to a device that does not support record trigger.

### Bit Rate added to live streaming **(200)**

Setting values are added to [System]→[Network] / [Settings]→[Live Streaming Set]→[Frame & Bit Rate]

No. of Frames for Frame & Bit Rate	Resolution	New values are in bold
60i, 60p, 30p	1920x1080	60i (12 Mbps), ● 60i (8 Mbps), 60i (5 Mbps), 60i (3 Mbps)
	1280x720	30p (8 Mbps), ● 30p (5 Mbps), 30p (3 Mbps), 30p (1.5 Mbps)
	720x480	60i (8 Mbps), 60i (5 Mbps), ● 60i (3 Mbps), 60i (1.5 Mbps), 60i (0.8 Mbps), 60i (0.3 Mbps)
50i, 50p, 25p	<b>640x360</b>	<b>30p (3 Mbps), ● 30p (1.5 Mbps), 30p (0.8 Mbps), 30p (0.3 Mbps)</b>
	1920x1080	50i (12 Mbps), ● 50i (8 Mbps), 50i (5 Mbps), 50i (3 Mbps)
	1280x720	25p (8 Mbps), ● 25p (5 Mbps), 25p (3 Mbps), 25p (1.5 Mbps)
	720x576	50i (8 Mbps), 50i (5 Mbps), ● 50i (3 Mbps), 50i (1.5 Mbps), 50i (0.8 Mbps), 50i (0.3 Mbps)
	<b>640x360</b>	<b>25p (3 Mbps), ● 25p (1.5 Mbps), 25p (0.8 Mbps), 25p (0.3 Mbps)</b>

