GY-HC550/500 Firmware V0200 Updated Features and Instructions

8th Oct 2020

1. Added Facebook Live simple connection feature.

Supported Facebook live streaming delivery.
Preset log-in to Facebook account, and this feature makes possible Streaming delivery from Facebook live with simple procedure.   (Same as GY-HM250)

2. Added YouTube Live simple connection feature.

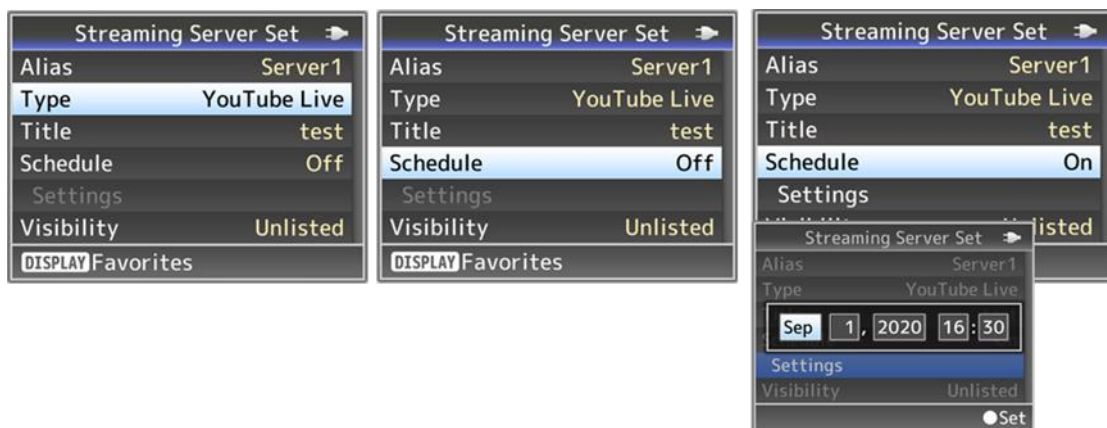Supported YouTube live streaming delivery.
Preset log-in to YouTube account, and this feature makes possible Streaming delivery from YouTube live with simple procedure.

< Memo >
When the title contains any unsupported characters by YouTube Live, the character may be replaced by another one automatically.

YouTube Live feature of the camera uses YouTube API Services.
By using this feature, users are agreeing to be bound by
the YouTube Terms of Service (https://www.youtube.com/t/terms)
and Google Privacy Policy (http://www.google.com/policies/privacy).

3. Added new resolution for SNS

Added 9:16 and 1:1 streaming resolution suitable for SNS including Facebook and TouTube. Refer to chart below.

Streaming format			Recording format		
Protocol	Resolution	Frame rate	Resolution	Frame rate	Video format
RTMP RTMPS YouTube Live Facebook Live	606x1080 1080x1080	60p/50p/ 30p/25p	1920x1080	60p/50p/60i/50i /30p/25p	H.264 QuickTime
	404x720 720x720	60p/50p	1280x720	60p/50p	
	606x1080 1080x1080	60p/50p/ 30p/25p	1920x1080	60p/50p	H.264 MP4/Exchange
	404x720 720x720	60p/50p	1280x720	60p/50p	

4. Added higher resolution (720p) Web recording format of HD+Web

At HD+Web mode

In case   HD: 1920×1080   60p/50p/60i/
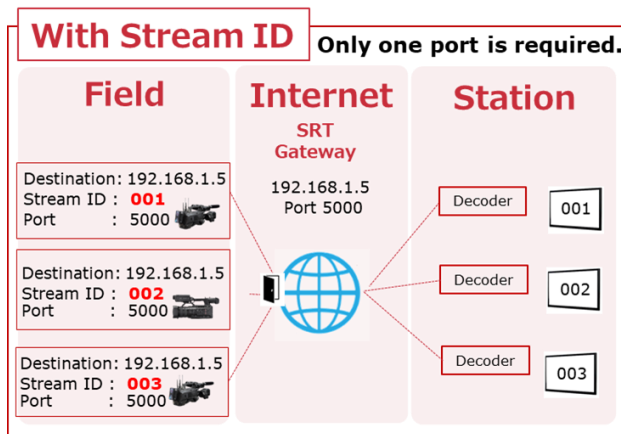   Web: added 1280×720   60p/50p   Bit rete: 6Mbps (LP)

GY-HC500 series

System	Video Format	Resolution	Frame rate	Sampling	Bit Rate(Max)	Audio	Rec Time min	Media
WEB (Proxy)	QuickTime (MPEG-4.AVC/H.264)	1280 x 720	60p/50p	4:2:0 8-bit	6 Mbps (LP)	µ-law 2ch 16kHz	1040	64GB SD card
		720x480	59.94i	4:2:0 8-bit	8Mbps (HQ)		640	
		720x576	50i					
		960×540	29.97p/25p/23.98p		3Mbps (HQ)		1920	
		480×270	29.97p/25p/23.98p		1.2Mbps (LP)		3840	

5. Added "Stream ID" and FEC (Forward Error Correction) of SRT(Secure Reliable Transport) protocol

[Network...] >> [Live Streaming] >> [Streaming Server...] >> [Server1～4]

Added setting belows

Added "Stream ID"   Stream identifier: Half-width alphanumeric characters ,   max. 63 characters
Stream ID makes possible multiple cameras directly stream to 1 device

Added   "FEC" of SRT   FEC setting   [Setting value: Off   (Default) , 10x10 , 8x8 , 6x6]
FEC makes possible to recover redundant packet loss.

FEC   (Forward Error Correction)
Forward Error Correction adds redundant data to the stream to be used to recover packets lost due to unstable connection, Internet congestion, and high jitter.

<Memo>
Default setting of latency at SRT changed to 500ms

6. Added "VITC" in Streaming Time code system

Added more "VITC (vertical interval time code) of Time code on streaming
To LTC (longitudinal time code)

Added setting belows
[TC/UB]   → [TC Generator]

"Time Zone"　[Setting Value ： 　UTC (Default) 、　Local Time]
*1*2
"Streaming Format "Time code type [Setting Value ： 　VITC(Default)、　LTC]
*1*3

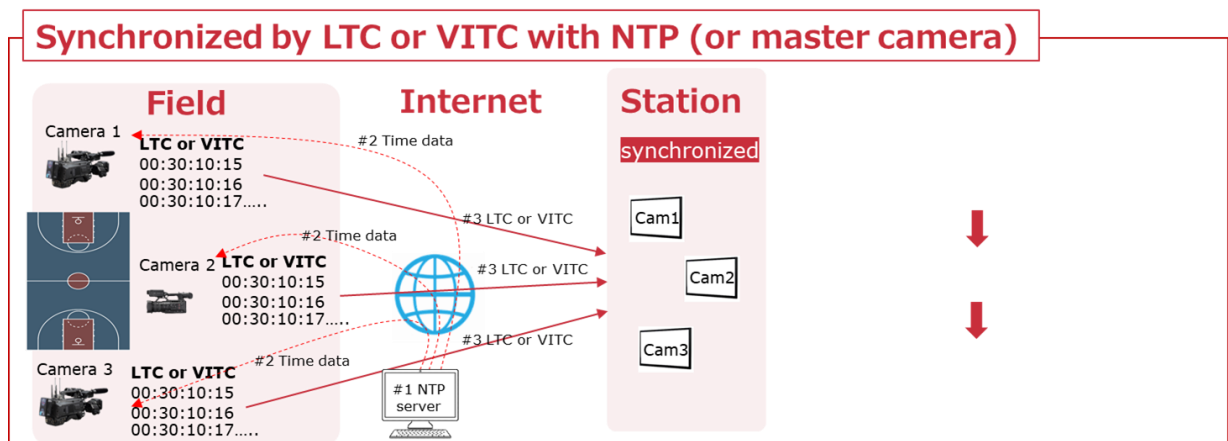*1　Only available at "FreeRun(NTP)" of　TC Generater ,otherwise unable to be selected r

*2　Set correcting time zone or not from NTP time data
　　Local Time : TC corrected time zone
　　UTC : 　TC not corrected time zone
*3　"FreeRun(NTP) is selectable even when optional adapter is effective.
Streaming format is fixed VITC

7. Added Interlace type

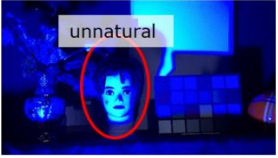Added "Field " to "Field Pair" at interlace mode.
Select according to the decoder. (Haivision, Makito etc)

[Network...] >> [Live Streaming]
Added " Interlace Format"　[Setting Value ： 　Field Pair(Default)、　Field]

8. Automatic adjustment of Color matrix under LED light

Improved adjustment of color matrix to optimize tint at Full Auto mode ,

	The "Auto Color Matrix Adjustment" works under "Full Auto is ON".	"Full Auto is OFF".
Under LED light	natural	unnatural
	natural	unnatural

9. Improved Remote Zoom ease function.

mproved Remote Zoom ease function.

[Camera Function] >>[Zoom…] >> [REMOTE Zoom Ease]

  "REMOTE Zoom Ease" Added setting value [Setting Value : ●Off、1、2、SW Set]

Off: Ease operation Off
1:         Ease operation
2:         Ease operation, Max speed is around half of 1:
SW Set: Operate with Handle zoom SW
OFF: Off
VAR: 1
FIX: 2

<Memo>
When use quick Zoom from Remote controller, ease zoom will be cancelled and be done normal zoom operation. Some remote controller may not be cancelled with quick Zoom.
When select "SW Set" , Zoom speed SW keep original function.

REMOTE Zoom Ease	Handle Zoom Speed
Off	OFF
1	VAR
2	FIX

Zoom Lever on Handle

10. Added Higher resolutions ,Frames and Bitrates at RTMPS protocol

In case Rec with H.264 mode, w/o Overlay, w/o optional adapter(KA-MC100,KA-EN200 etc)
Added higher Resolution / Frame Rate / Bit Rate
    1920x1080 / 60p (50p) / 12M、8Mbps   *New*
    1920x1080 / 30p (25p) / 8M、5M、3Mbps *New*
    1280x720 / 60p (50p) / 8M、5M、3Mbps   *New*
    1280x720 / 30p (25p) / 8M、5M、3M、1.5Mbps
    640x360 / 30p (25p) / 3M、1.5M、0.8M、0.3Mbps