

Smart-telecaster™ HD View Single (NTSC/PAL) Users Guide

Overview

This a system for transmitting HD video and audio in IP communications network. The system offers voice communication, unidirectional video transmission, and two-way video transmission, all of which allow access to remote location events in real time.

Smart-telecaster HD™ View Single (hereinafter, "STCHD View S")

Smart telecaster™ Zao-S (hereinafter, " STC Zao-S ") Smart telecaster™ Zao (hereinafter, " STC Zao")



Caution

- For STC Zao-S, Zao Controller please refer to the applicable manual.
- Please "STCHD View S" grade reports may vary in content.
- we recommend using the latest version of the "STCHD View S".
- For peak load derating method, please refer to instruction manual for details.
- If you wish to see STCHD View S UserGuide that Internet Connection.

Ver1.0.0.2

Product Specifications

ITEM		DETAILS
Main Function		Live Relay(One-way video, Two-way audio) File reception(HD transmitter) IP streaming function Zao/Zao-S Recording function(mp4) STC for iOS ML Recording function(AVI) Zao-S Still image capture(Still image creation on receiving side: resolution is set on View)
Connection Possible Product		STC Zao、STC Zao-S、Smart-telecaster for iOS ML
Available concurrent connections		1
Delay		240msec~30000msec
Codec	Video	VP8、H.265
	Audio	Vorbis
Operating Environment ※System Requirements	OS	Windows10 64bit
	CPU	Corei5 2.5GHz over
	Memory	8GB+
	Video Card	NVIDIA® GeForce® GTX /Quadro over(When you use IPEncoder function.)
	Network	Global IP/VPN provided by us
External Output	Video Card	Blackmagic Decklink Quad 2, Decklink Studio 4K, UltraStudio Express, UltraStudio HD mini
	Signal Format	SDI or HD-SDI(By the transmitter connection)

Install/Uninstall

You can install "STCHD View S" in the following way.

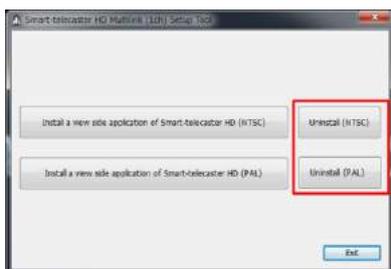
- Please access the following URL and perform user registration
http://www.soliton.co.jp/products/smart-telecaster_zao-s/download/stcregistration_e.html
- We will send the download site URL of the Smart-telecaster Zao-S dedicated reception application, ID and Product Key information required for installation to the registered e-mail address.
- Right click on the downloaded file and select "Run as administrator".
STCHDView_S_N_P_ML_1002.EXE
(The file name varies depending on the version you use.)
- Please enter the ID, Product Key according to the screen display and click the installation button (NTSC/PAL) according to the usage environment.
* Since it requires authentication, it needs to be connected to the Internet during installation.



5. Windows Firewall Settings →
Reception Rules UDP 31115 Release

You can uninstall "STC HDView S" in the following way.

1. Right click on the downloaded file and select "Run as administrator".
STCHDView_S_N_P_ML_1002.EXE
(The file name varies depending on the version you use.)
2. Please select uninstall according to the screen display.
✂ Do not uninstall with other methods (Windows function). Since serial management is performed, installation can not be performed again.



Start/Close

Start

The following methods "STCHD View S" can be start.

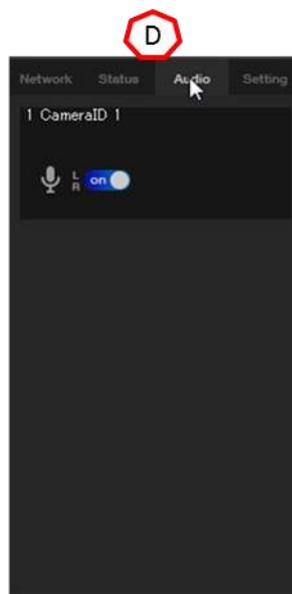
[Start] ⇒ [All Program] ⇒ [STCHD View S]

Close

The following methods "STCHD View S" can be close.

Click on the upper right corner of the [X].

Main Screen



(A) Connection indicator/relay disconnect button

This is an indicator that indicates that you are in standby or connected. During connection, ON - AIR is displayed. It also serves as a button for disconnecting the relay.

(B) Network

Selects to display each transmitter network connection status. It also displays connection speed numerically and graphically.

(C) Status

Selects to display message status of STC HDView S.

(D) Audio

In general, the audio of STC HDView S is transmitted to all connected transmitter channels.

(E) Settings

Displays Resolution, Bitrate, Frame Rate, Codec, Delay, Audio, Auto-Record status during live broadcasting.

(F) Encryption Icon

When a live broadcast is transmitted in encryption mode, the  icon is displayed.

(G) Preview Screen

Displays live broadcasting video.

(H) Bitrate

Displays numbers of video data rates, which also means displaying the level of communication amount on current connected bandwidth.

(I) Frame Rate

Displays frame rate.

(J) Transmitter Audio Indicator [Cam Audio indicator]

Microphone Volume

Remotely controls the transmitter's MIC volume. Move the slide bar to the left for lower volume, right for higher volume.

Slide the bar all the way left to stop audio between Transmitter and Receiver. All communication bandwidth will then be allocated for Video transmitting.

Audio Level

Displays the transmitter's audio level.

When audio mode is set to Stereo, the upper is left audio level and lower is right audio level. When the audio mode is set as mono, upper and lower are same audio level.

(K) Status Indicator[RECV,SEND,FILE]

When transmission has connected, the connection Status blinks.

(L) Settings Display

During Live broadcasting, displays each variable of Bitrate, Frame Rate, Resolution and Delay.

(M) Receiver Indicator [View Audio indicator]

MIC Icon

In the event of a MIC input error, an X mark will be shown on top of the icon.

MIC Volume

To adjust MIC volume for audio input, move the slide bar to left for lower record level and right for higher record level

Speaker Icon

In the event of a Speaker output error, an X mark will be shown.

Speaker Volume

To adjust the audio play application volume, move slide bar to left for lower volume and right for higher volume.

Audio Level

Displays input audio level of STC HDView S. When in Stereo mode, upper is left level and lower is right level. When in MONO mode, upper and lower will be the same level.

HDView S settings.

When you click on a preset button, all registered settings will be applied immediately, and the selected preset button turns gray.

When selected



When not selected



Audio Input/Output

STC HDView's Input/Output is designed to use Windows default playback/recording devices.

- With external output device
Since this application automatically uses the external output board, please set the Windows default playback device to other than the audio device of the external output board.
- No external device
Use the default Windows recording device / playback device.

(N) Settings

Displays Resolution, Bitrate, Frame Rate, Codec, Delay, Audio, Auto-Record status during live broadcasting.

(O) Static Picture Button

Get a static picture.

(P) Record Button

Start/Stop recording.

(Q) Live Button

Please see IP streaming mode and Local Rec mode described later.

(R) External output device indicator

When the received image can be externally output by the equipment configuration of the receiving side, the button becomes blue.

When the external output device is not used, the indicator will be grayed out.

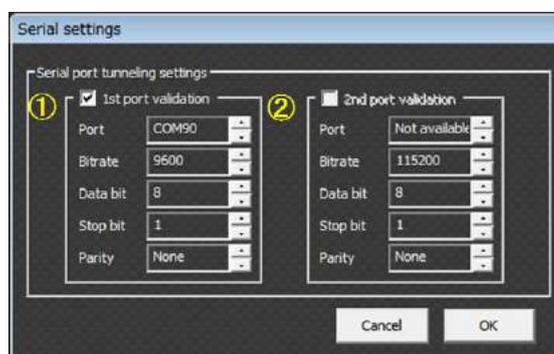
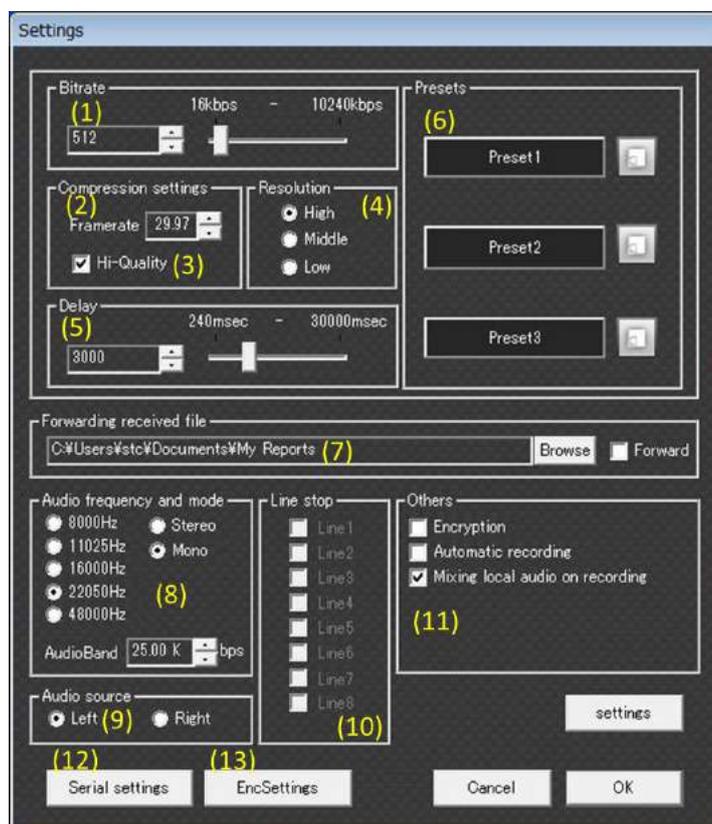


(S) Preset Button

You may register your desired preset of STC

Edit Settings

Edit audio and video settings when Transmitter and Receiver are connected. Each setting dialogue is distinct, so you must configure every channel



(1) Bitrate [Bitrate]

Communication bandwidth.

(2) Framerate [Framerate]

Specifies Framerate.

(3) Hi-Quality [Hi-Quality]

When checked, the Hi-Quality encode mode is used. In Hi-Quality mode, you can get better-quality video without increasing the video bitrate.

(4) Resolution [Resolution]

Set Resolution for Live broadcasting. Each resolution setting is shown in following tables.

- If the settings value is Middle and the Transmitter is STC Zao S, the resolution may
- change depending on settings of “(2) Framerate.”
- If the setting value is Low and the Transmitter is STC Zao S, the resolution may change depending on settings of “(1) Bitrate.”

[Video Input Settings: 59.94i or 720/59.94p]

	STC Zao/Zao-S (1080i)	
Settings	Video Quality	Resolution
High	Full HD	1920 x 1080
Middle	Half HD (59.94i)	960 x 1080
	Half HD (29.97)	1920 x 540
Low (768k 以上)	Quarter HD	960 x 540
Low (512k 以下)	Quarter HD	640 x 360

	STC Zao/Zao-S (720p)	
Settings	Video Quality	Resolution
High	Full 720p	1280 x 720
Middle	Half 720p (59.94)	640 x 720
	Half 720p (29.97)	
Low (768k 以上)	Quarter 720p	640 x 360
Low (512k 以下)		

	STC Zao/Zao-S (525i)	
Settings	Video Quality	Resolution
High	VGA	720 x 480
Middle	Half VGA (59.94i)	360 x 480
	Half VGA (29.97)	720 x 240
Low (768k 以上)	CIF	360 x 240
Low (512k 以下)		

	STC for iOS ML	
Settings	Video Quality	Resolution
High	Quarter HD	960 x 540
Middle	Half VGA Wide	640 x 360
Low		

[Video Input Settings: 50i or 720/50p]

	STC Zao/Zao-S (1080i)	
Settings	Video Quality	Resolution
High	Full HD	1920 x 1080
Middle	Half HD (50i)	960 x 1080
	Half HD (25)	1920 x 540
Low (768k 以上)	Quarter HD	960 x 540
Low (512k 以下)	Quarter HD	640 x 360

	STC Zao/Zao-S (720p)	
Settings	Video Quality	Resolution
High	Full 720p	1280 x 720
Middle	Half 720p (50)	640 x 720
	Half 720p (25)	
Low (768k 以上)	Quarter 720	640 x 360
Low (512k 以下)		

	STC Zao/Zao-S (625i)	
Settings	Video Quality	Resolution
High	VGA	720 x 576
Middle	Half VGA (50i)	360 x 576
	Half VGA (25)	720 x 288
Low (768k 以上)	CIF	360 x 288
Low (512k 以下)		

	STC for iOS ML	
Settings	Video Quality	Resolution
High	Quarter HD	960 x 540
Middle	Half VGA Wide	640 x 360
Low		

All resolution settings may be changed when no video is being transmitted. However, during receiving video transmission, settings depend on image capture type. Either only SD or HD setting is available.

If settings have changed during video transmission, the change will still be activated after the video has been disconnected.

(5) Delay [Delay]

Sets the delay buffering for Transmitter. The value range is from 240msec to 30000msec.

By specifying delay buffering settings, the received video transmission will not be played immediately. Instead, the transmission will be delayed by a specified time, reducing the disturbance caused by the frame update interval.

* Suggested settings chart for Transmitter.

Wired LAN connection

240msec more

4G Connection

720msec more

3G Connection

1200msec more

Satellite (BGAN) connection

4000msec more

When transmitting with bonding multiple connections, set to match the slower connection.

In addition, due to line congestion or having poor signal situations, the network transmission might be unstable. In this case, stop moving and keep the camera still for a while. You also can increase the stability by extending the delay value.

(6) Presets [Presets]

In STC HDView S, you can register any of the settings as a preset.

Preset Button

By clicking Preset button, it becomes highlighted in green. All registered settings in dialogues will be collectively changed.

Preset Register Button

By clicking this button, the preset dialogue will be displayed.

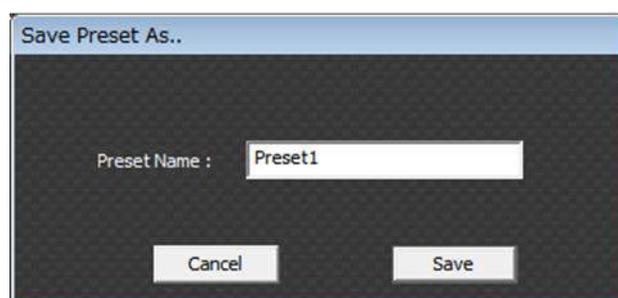
Specify the Preset name, then click Save button. Current settings will be registered as preset and become selected.

By clicking the Cancel button, the preset register will be canceled.

Note that Preset Name is also reflected in the Preset Button on the main screen.

When Preset is selected, the button becomes green.

The preset selected state will be canceled after any of settings have been changed.



input.

(7) Forwarding Received File

[Forwarding received file]

This feature is not embedded in STC HDView S.

(8) Audio Frequency and Mode [Audio frequency and mode]

Specifies Audio Sampling Rate, Stereo/MONO and Audio Bandwidth.

① Audio Frequency

Sets sampling rate for audio send/receive.

[NOTE] When connected with iOS ML, it is fixed to 22050Hz.

② Audio Channel

Set Stereo or MONO for audio input channel.

Audio Band [AudioBand]

Configures audio band (Kbps)

The available audio band, frequency and channels can be set in the following range.

Audio Frequency	Stereo (Kbps)	MONO (Kbps)
8000Hz	11.71 ~ 62.50	7.81 ~ 41.01
11025Hz	15.62 ~ 85.93	11.71 ~ 48.82
16000Hz	23.43 ~ 167.96	15.62 ~ 97.65
22050Hz	29.29 ~ 167.96	15.62 ~ 87.89
48000Hz	43.94 ~ 488.28	31.25 ~ 234.37

(9) Audio Source Selection [Audio source]

Select Left or Right when audio channel in MONO mode.

Left Select Left channel to use as MONO audio input.

Right Select Right channel to use as MONO audio

(10) Control Transmitter Line [Line stop]

In STC HDView S, there is a Purge feature, which you can individually Pause and Reconnect the network connection with Transmitter. (This feature is available only when connected multiple connections.)

To pause the connection, check the desired connection and click the OK button.

To reconnect, uncheck the connection and click the OK button.

The Purge feature can be operated while maintaining a live broadcast. This is useful for temporarily disconnecting a lower bandwidth connection caused by moving the Transmitter's location rapidly. It also can be useful for redialing (disconnect reconnect).

(11) Others [Others]

Encryption [Encryption]

Encrypts data for transmission.

Automatic Recording [Automatic recording]]

[NOTE] This feature is not available in STC Zao S, but it is available in the previous version.

Mix Recording with Local Audio [Mixing local audio on recording]

[NOTE] This feature is not available in STC Zao S, but it is available in the previous version.

(12) Serial Port Tunneling

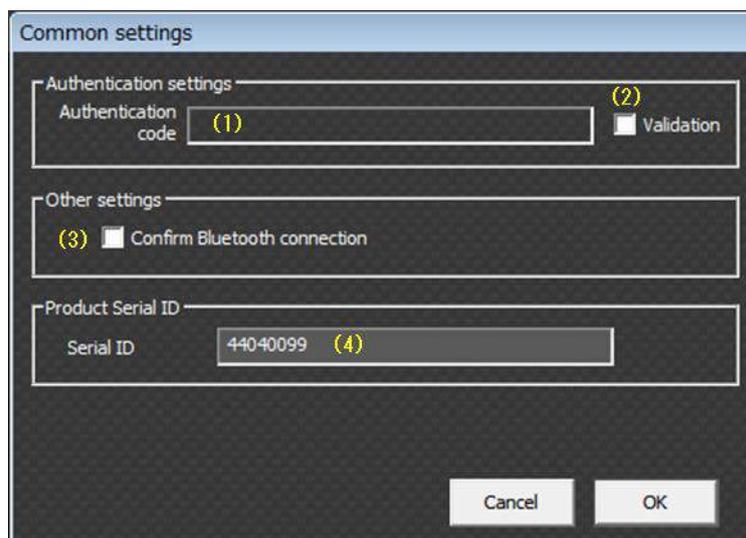
The feature is not available in STC Zao S.

(13) Encoder setting

Display IP Streaming Setting Window. Refer to the IP streaming function described later.

Common settings

Configure Authentication Code with Transmitter.



Authentication Setting

[Authentication setting]

(1) Authentication Code [Authentication code]

You can set the code for connection authentication for the Transmitter.

The authentication code can be set using up to 30 alphanumeric characters. (The code you enter will be displayed as *.)

This feature is active only when Authentication is flagged.

(2) Authentication Validated Flag [Validation]

When ON checked

: Enable Authentication Code

When OFF checked

: Unable Authentication Code

* When the Authentication feature is enabled, only transmitters with same authentication code can be connected. If the authentication code is different, a transmitter cannot be connected with STC HDView S.

Other settings[Other settings]

(3) Confirm Bluetooth Device [Confirm Bluetooth connection]

This feature is not available in this version.

Product Serial [Product Serial ID]

(4) Serial ID [Serial ID]

Displays registered serial ID.

IP streaming function

Check the existence of a folder.

C:\Program Files (x86)\Smart-telecaster HD\bin

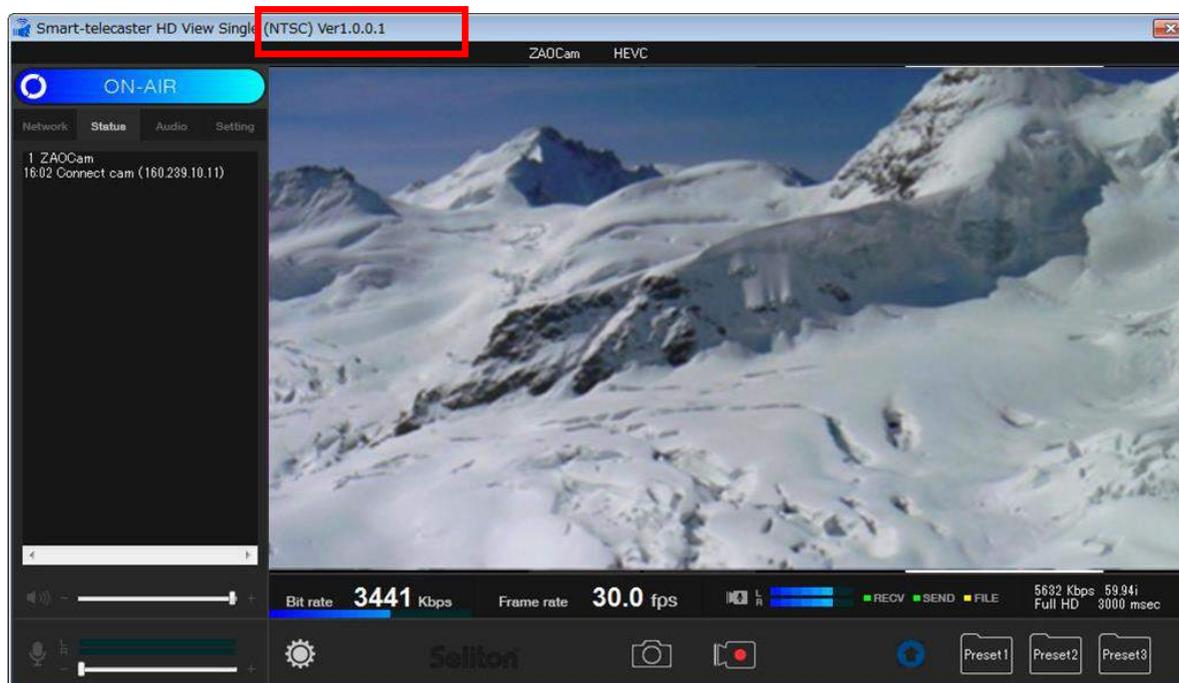
C:\Program Files (x86)\Smart-telecaster HD\STCView\

C:\STCXML

C:\STClibs

※ Depending on your environment (NTSC / PAL), the folder name and reference destination may be different.

Check Version Number



Check NVIDIA Driver

Check your nvidia driver version(equal to or larger)

ex.)

K620 : 369.26

K2200 : 375.57

Nvidia Video Encode supported GPUs

- High Performance Computing and Hyperscale Accelerators

[Tesla K10, K20, K40, K80, M4, M40, M6, M60, P4, P40 and newer](#)

- Desktop and Workstation

[Quadro K2000, K2200, K4000, K4200, K5000, K5200, K6000, M4000, M5000, M6000, P5000, P6000 and newer](#)

- Mobile Workstation

[Quadro K2000M, M2000M, K5000M, and newer](#)

- Cloud Gaming, Virtual Desktops, and Cloud Enterprise

[GRID K1, K2, K340, K520, M30, M40, and newer](#)

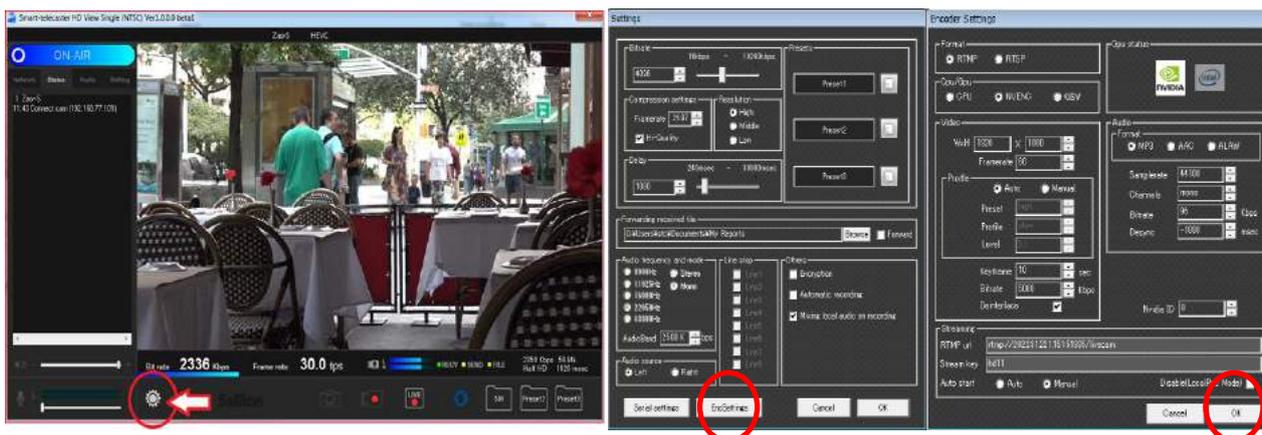
- Desktop and Notebook Computers (Up to 2 concurrent encode sessions per system)

[GeForce \(encoding supported only on Kepler, Maxwell and Pascal GPUs\)](#)

- Cards that have been tested in our system is K2200 and K620.

We does not guarantee all Cards.

You can access EncoderConfiguration via EncSetting button from each channel.



Encode Settings



(1) Format

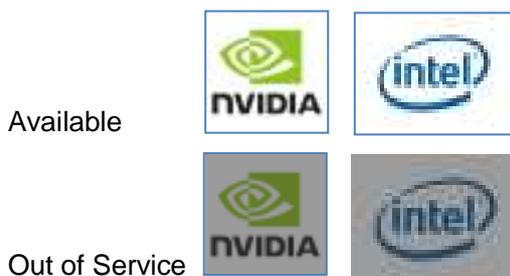
You can select Streaming format.
 RTMP(Support CPU,GPU Encode.)
 RTSP (Support CPU and dxva2 decode)

(3) Cpu/Gpu

support radio button is activated.

(2) Gpu status

Superview is check your GPU status.
 (NVIDIA and QSV)



(4) Video

You can select each format.

Width x Height (W x H)

No	width	height	remarks
1	1920	1080	default
2	1280	720	
3	960	540	
4	640	360	
5	320	180	

Framerate

No	Framerate	remarks
1	60	* It is effective only when setting 720p/60fps
2	50	* It is effective only when setting 720p/50fps
3	30	default(NTSC)
4	25	default(PAL)
5	15	

Profile

- Auto

Automatic setting.

- Manual

Profile

No	Profile	remarks
1	high	default
2	main	

Preset

No	Preset	remarks
1	slow	default
2	medium	
3	fast	

Level

No	Level	remarks
1	5.1	default
2	5.0	
3	4.2	
4	4.1	
5	4.0	
6	3.2	
7	3.1	

Keyframe

No	Keyframe(sec)	remarks
1	10	

2	9	
3	8	
4	7	
5	6	
6	5	
7	4	default
8	3	
9	2	
10	1	

Bitrate(Video bitrate)

No	Bitrate(kbps)	remarks
1	10000	
2	9500	
3	9000	
4	8500	
5	8000	
6	7500	
7	7000	
8	6500	
9	6000	
10	5500	
11	5000	
12	4500	
13	4000	
14	3500	
15	3000	
16	2500	
17	2000	default
18	1000	
19	750	
20	500	
21	250	

Deinterlace

No	Deinterlace	remarks
1	Checked(ON)	default
2	No checked(OFF)	

(5) Audio

Format

No	Format	remarks
1	MP3	default
2	AAC	
3	ALAW	For RTSP mode only

Samplerate

No	Samplerate	remarks
1	44100	default
2	22050	
3	11025	
4	8000	For RTSP mode only

Channels

No	Samplerate	remarks
1	stereo	default
2	mono	

Bitrate(Audio bitrate)

No	Bitrate(kbps)	remarks
1	96	default
2	112	
3	160	
4	192	
5	224	

Desync

You can adjust the audio synchronization only in the RTSP mode.

No	Desync (msec)	remarks
1	-540	
2	-1080	default
3	-1620	
4	-2160	

(6) Nvidia ID

If two GPU card is installed, you can select GPU Card Number.

No	NvidiaID	remarks
1	0	default
2	1	

(7) Streaming

RTMP url

You can input RTMP url manually.

Stream key

You can input Stream key manually.

Auto start

- Auto

When the connection of the transmitter and the receiver is stable, SuperView will start the delivery automatically.

- Manual

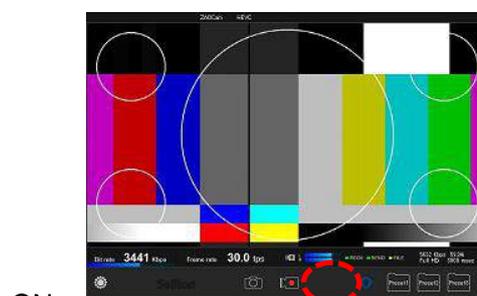
After connecting stability of the transmitter and the receiver, you can start and stop manually delivery.

Disable (LocalRec Mode)

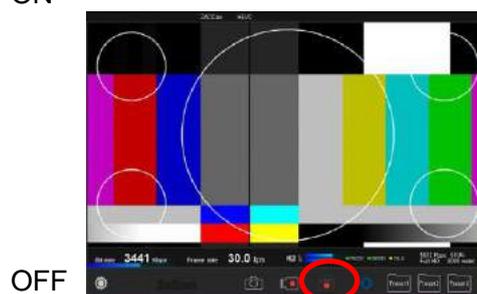
You can the IP re-delivered to Disable.

※)After the change , you will need to re-start the application for GUI.

No	LocalRec Mode	remarks
1	Checked(ON)	default
2	No checked(OFF)	



ON



OFF

(8) Cancel

Setup window is closed (setting is not saved).

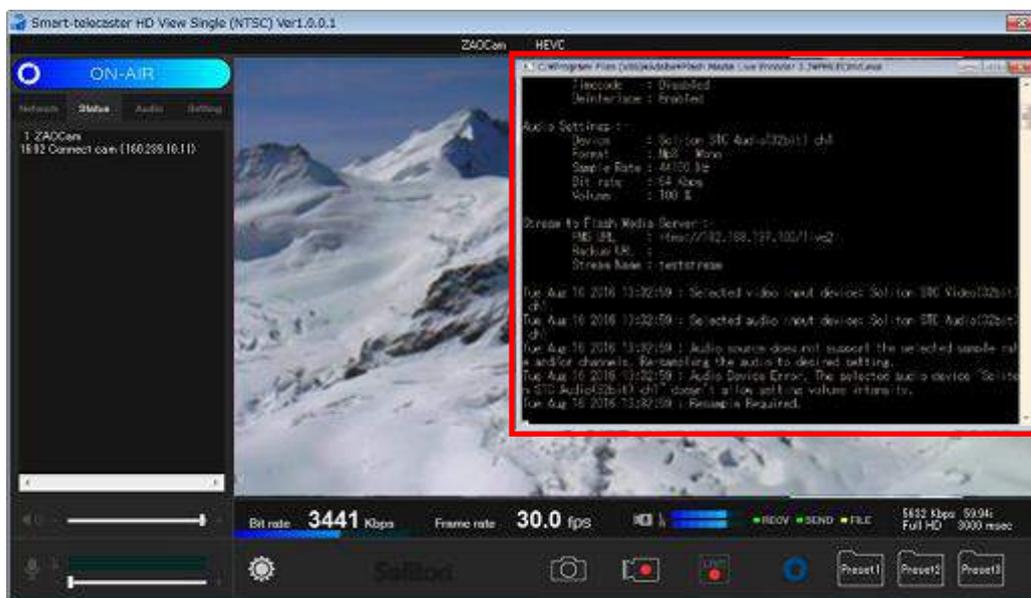
(9) OK

Setup window is closed (setting is saved).

Auto Hide

By default, during a live, the status window of the encoder will not pop up.

If you want to show, please set the following.



C:\Program Files (x86)\Smart-telecaster HD\STCView\EncoderStub.ini

[CONFIG]

check_interval = 1000

encstart_waittime = 500

encend_waittime = 500

comm_timeout = 300

program_reg_interval = 15000

encoder_path = "C:\Program Files (x86)\Adobe\Flash Media Live Encoder 3.2\FMLECcmd.exe"

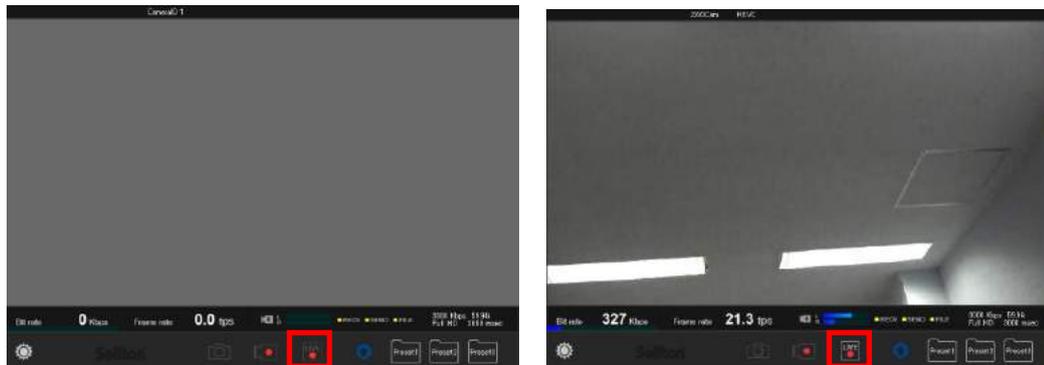
ffencoder_path = "C:\Program Files (x86)\Smart-telecaster HD\bin\ffmpeg"

vlcencoder_path = "C:\Program Files (x86)\VideoLAN\VLC\vlc"

hide_window = 1 **Please Change to 0 (show).**

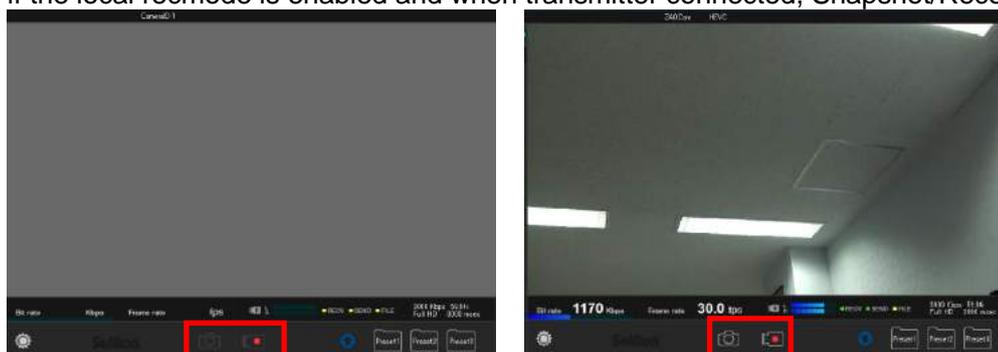
IP streaming mode

if the local recmode is disabled and when transmitter connected, live button will become active.



Local Rec mode

if the local recmode is enabled and when transmitter connected, Snapshot/Record button will become active.



if you press the SnapShot button, you can get a jpeg image.

When you press the record button Start / Stop is inverted. you can get a mp4 video.

default store path is MyReports folder. please check settings->Forwarding received file.



Media format is below

No	Filename Format	remarks
1	[Transmitter-Name]_yyyyMMddHHmmss_[ch].mp4	mp4(h264 / mp3)
2	[Transmitter-Name]_yyyyMMddHHmmss_[ch].jpg	jpg

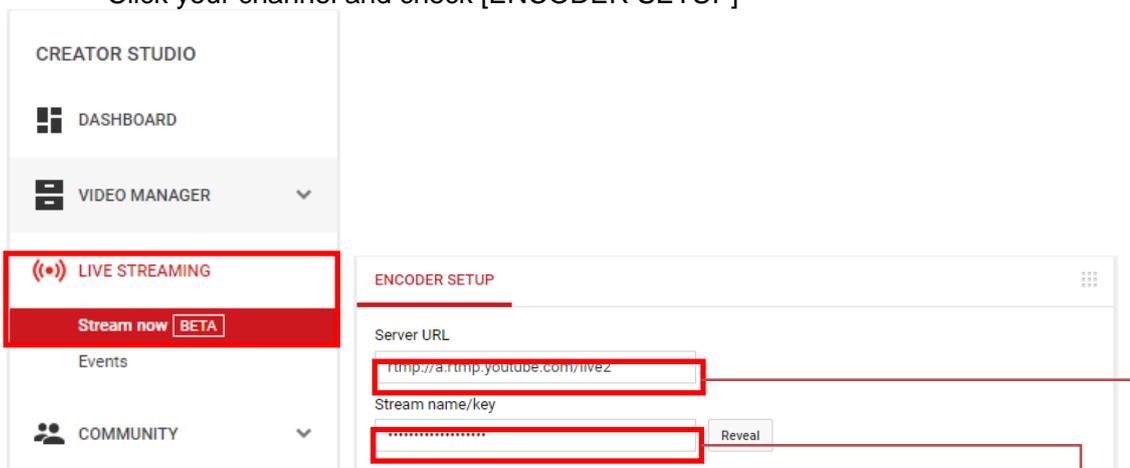
Sample Configuration

YouTube settings

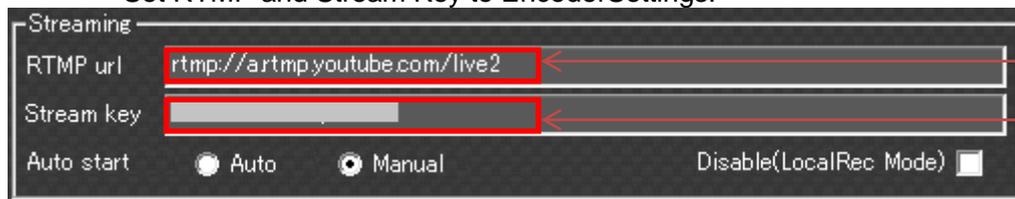
Login to Youtube and check your channel settings.



Click your channel and check [ENCODER SETUP]



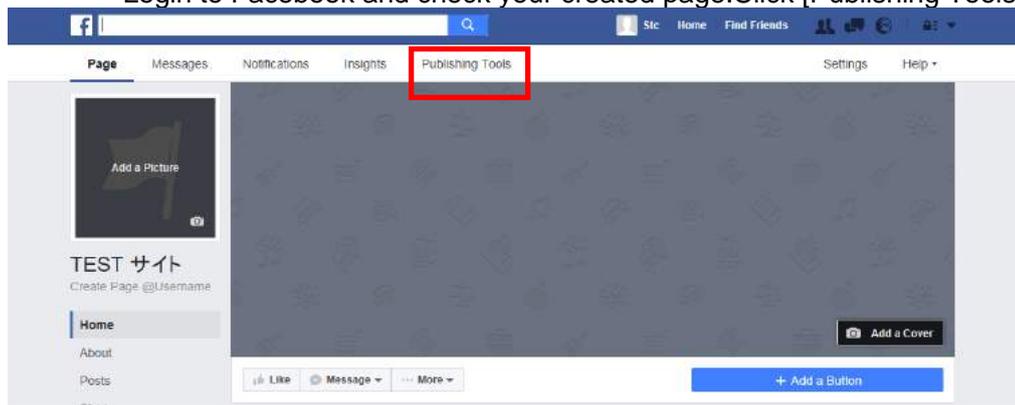
Set RTMP and Stream Key to EncoderSettings.

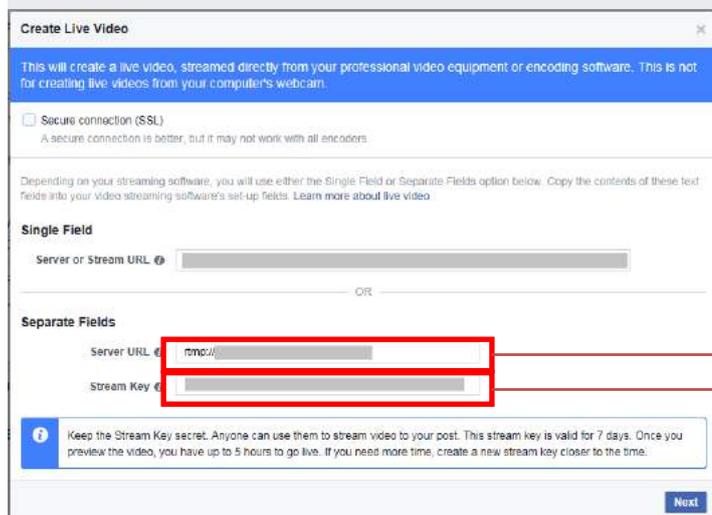
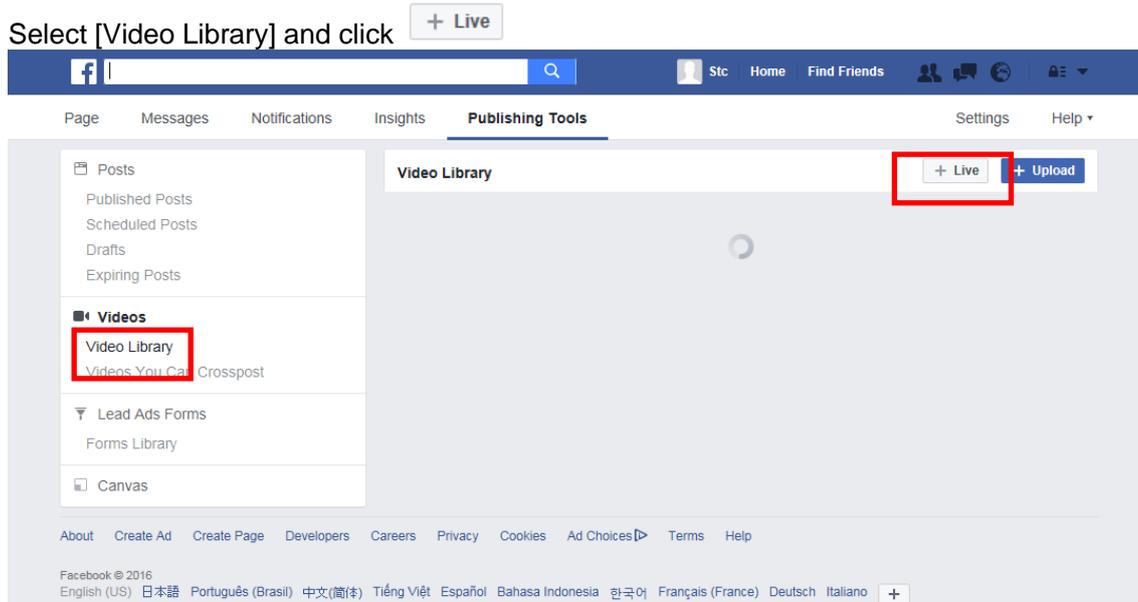


When the Receiver receives a live from the Sender to channels, it will be made automatically or manually RTMP retransmit to YouTube.

Facebook settings

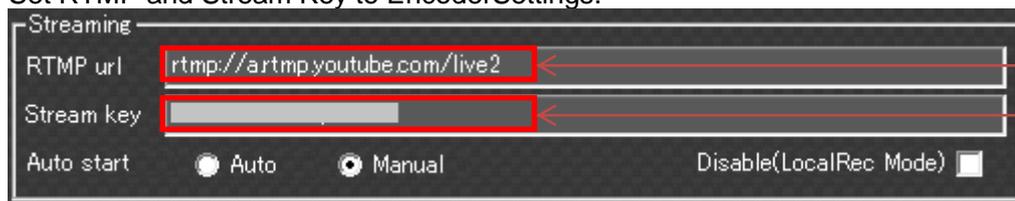
Login to Facebook and check your created page. Click [Publishing Tools]



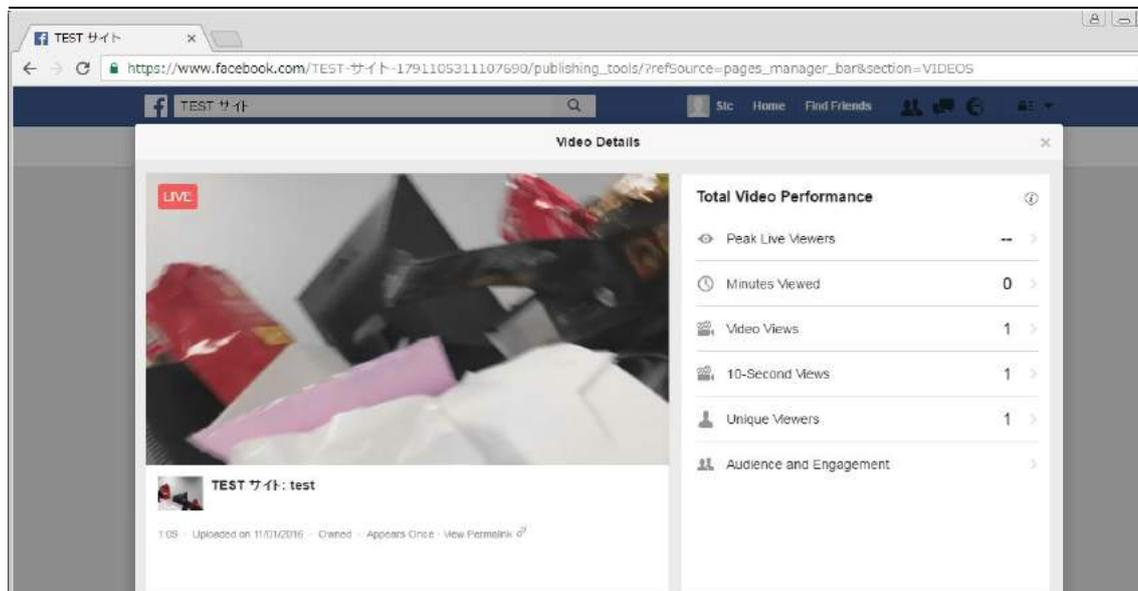


[Create Live Video] page popup.

Set RTMP and Stream Key to EncoderSettings.



When the Receiver receives a live from the Sender to channels, it will be made automatically or manually RTMP retransmit to Facebook.



※) Facebook is use tcp 80 port. Please be aware of the limitations of the network environment (security policy of firewall, etc.)

Appendix

Encode Status

Please Check drop and bitrate counter.

If the Drop counter increases always, please review the specs and encoding settings of the hardware.

Please review the encoding settings.

```
EncoderStub_Encoded4
frame= 3791 fps= 30 q=20.0 size= 95817kB time=00:02:05.44 bitrate=6257.2kbits/
frame= 3807 fps= 30 q=20.0 size= 96136kB time=00:02:05.93 bitrate=6253.8kbits/
frame= 3822 fps= 30 q=20.0 size= 96471kB time=00:02:06.39 bitrate=6252.4kbits/
frame= 3838 fps= 30 q=20.0 size= 96812kB time=00:02:07.00 bitrate=6244.7kbits/
frame= 3853 fps= 30 q=20.0 size= 97116kB time=00:02:07.48 bitrate=6240.3kbits/
frame= 3868 fps= 30 q=20.0 size= 97427kB time=00:02:07.95 bitrate=6237.6kbits/
frame= 3883 fps= 30 q=19.0 size= 97897kB time=00:02:08.44 bitrate=6243.9kbits/
frame= 3898 fps= 30 q=20.0 size= 98195kB time=00:02:08.92 bitrate=6239.3kbits/
frame= 3914 fps= 30 q=20.0 size= 98532kB time=00:02:09.53 bitrate=6231.5kbits/
frame= 3929 fps= 30 q=19.0 size= 98872kB time=00:02:09.99 bitrate=6230.7kbits/
frame= 3944 fps= 30 q=19.0 size= 99199kB time=00:02:10.48 bitrate=6227.9kbits/
frame= 3960 fps= 30 q=19.0 size= 99545kB time=00:02:10.97 bitrate=6226.3kbits/
frame= 3975 fps= 30 q=19.0 size= 99928kB time=00:02:11.55 bitrate=6222.7kbits/
frame= 3989 fps= 30 q=19.0 size= 100230kB time=00:02:11.93 bitrate=6223.5kbits/
frame= 4004 fps= 30 q=19.0 size= 100766kB time=00:02:12.52 bitrate=6228.7kbits/
frame= 4020 fps= 30 q=19.0 size= 101138kB time=00:02:12.99 bitrate=6229.9kbits/
frame= 4036 fps= 30 q=19.0 size= 101470kB time=00:02:13.59 bitrate=6222.1kbits/
frame= 4051 fps= 30 q=19.0 size= 101841kB time=00:02:14.08 bitrate=6222.1kbits/
frame= 4066 fps= 30 q=20.0 size= 102187kB time=00:02:14.57 bitrate=6220.7kbits/
frame= 4081 fps= 30 q=19.0 size= 102535kB time=00:02:15.03 bitrate=6220.4kbits/
frame= 4096 fps= 30 q=19.0 size= 102900kB time=00:02:15.63 bitrate=6214.8kbits/
frame= 4112 fps= 30 q=20.0 size= 103415kB time=00:02:16.12 bitrate=6223.5kbits/
frame= 4127 fps= 30 q=20.0 size= 103733kB time=00:02:16.59 bitrate=6221.4kbits/
frame= 4142 fps= 30 q=20.0 size= 104049kB time=00:02:17.07 bitrate=6218.2kbits/
s.dup=40 drop=1 speed= 1x
```

RTMP performance

When distributing an RTMP stream of 1.5 Mbps or more, adding it to the following registry may stabilize.

Double Click the following file to register the registry.

C:\Program Files (x86)\Smart-telecaster HD\STCView (PAL_B)\bin\AFD_param.reg

CAUTION: If you use Registry Editor incorrectly, you can cause serious problems that may require you to reinstall your operating system.

we can not guarantee the resolution of problems resulting from using Registry Editor incorrectly. Please use Registry Editor at your own risk.

Install VideoLAN

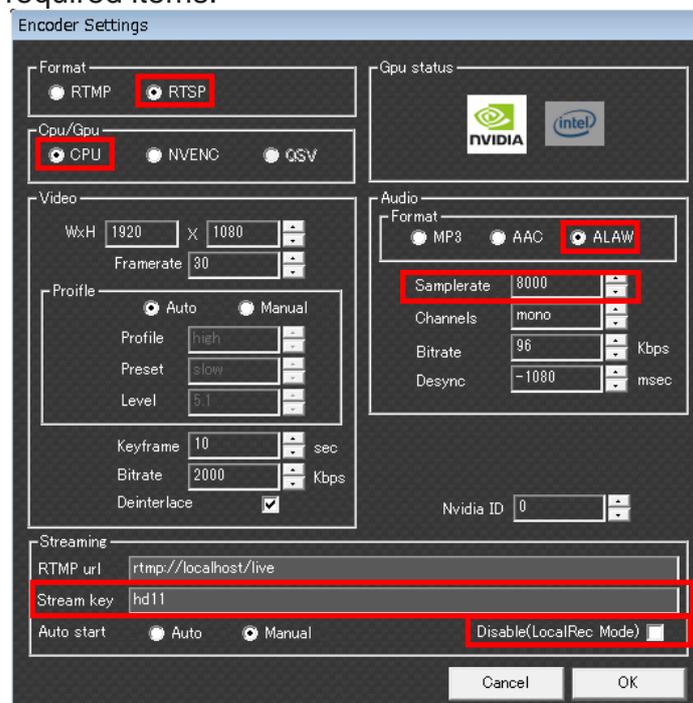
Please install [vlc-2.2.4-win32.exe]

Install Click the following.

SuperView Settings

RTSP Settings

Please check required items.



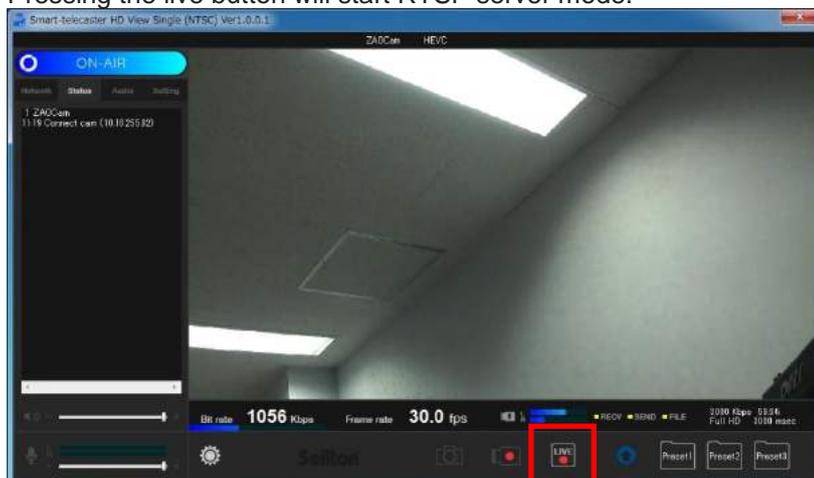
sample configuration

Format	RTSP
CPU/GPU	CPU
Audio>Format	ALAW
Samplerate	8000
Stream key	hd11 ※ (your stream name)

Check Encoder Status

When transmitter connected, live button will become active.

Pressing the live button will start RTSP server mode.



Check your port status

SuperView Use Static Port for RTSP Listen port.

SuperView Channel Number	TCP Port
Ch1	50001

if you start live button , you can check port status from netstat command.

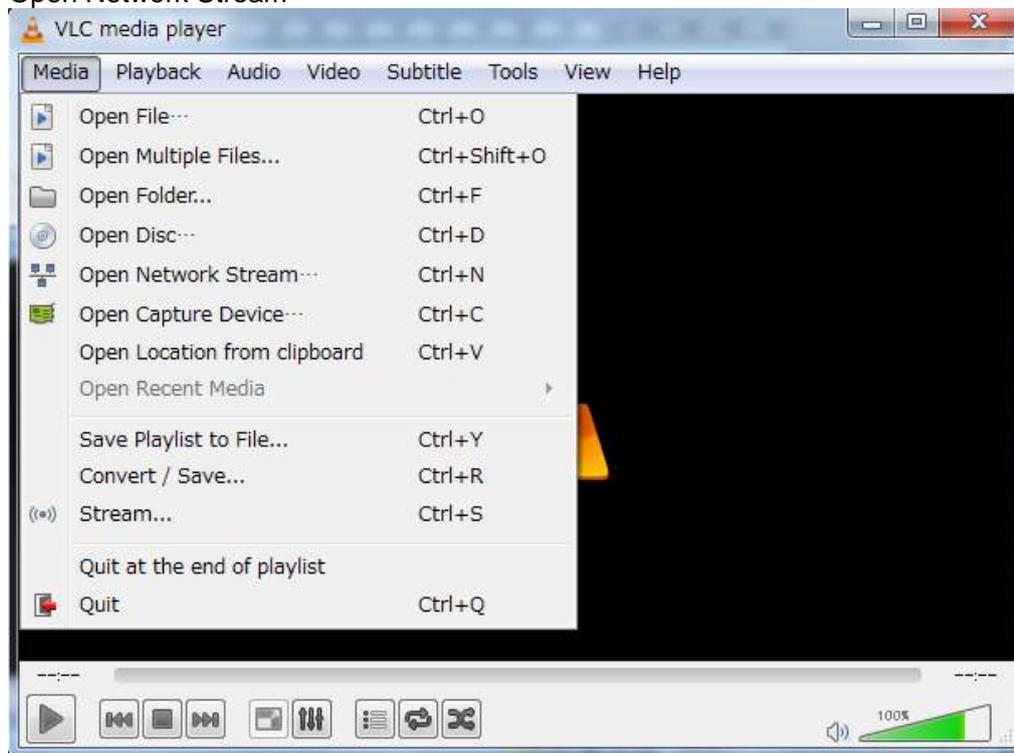
ex) netstat -na

```
TCP 0.0.0.0:50001 0.0.0.0:0 LISTENING
```

Player Settings

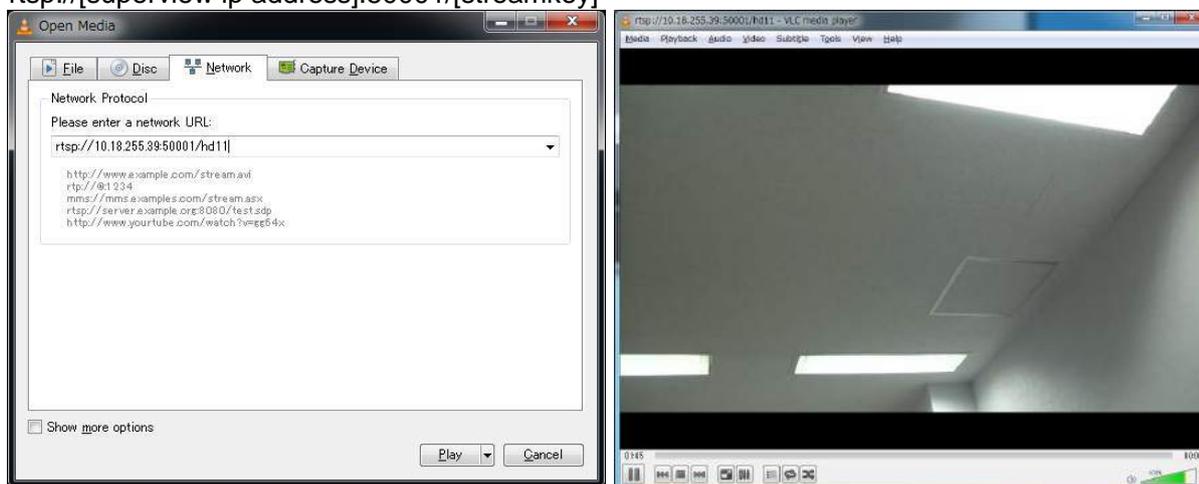
This is a sample to play with video lan.

Open Network Stream



Please set your RTSP url.

`rtsp://[superview ip address]:50001/[streamkey]`



You can check the stream by pressing Play.

Please configure the firewall when playing over the network.

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The connection configurations shown in this document is purely for reference only and does not guarantee all combinations.

Visit our website for FAQ and other information:

<http://solitonsystems.com/products/solution/live-broadcasting/smart-telecaster-zao-s-2/>

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