LUMIX GH5II

LIVE STREAMING SETTINGS GUIDE

[1] Preparation when using a smartphone

- Supported OS (as of September 2021) Android™: 7.0 or later (The Bluetooth® function requires your device to use Android 5.0 or later and Bluetooth 4.0 or later. Excluding some models that are not compatible with Bluetooth Low Energy.), iOS: 12 or later.
- Android is a trademark or registered trademark of Google Inc.
- App Store is a service mark of Apple Inc.

■ GH5Ⅱ

❗ **Check the remaining battery level of your camera!**

■ Smartphone

Install the "LUMIX Sync" smartphone app

*Turn Bluetooth ON.

❗ **Check the remaining battery level and connection status of your smartphone!**

Check FAQs

Frequently asked questions from customers are introduced at the LUMIX Customer Support page.

https://panasonic.jp/support/global/cs/dsc/faq/dc_gh5m2/index.html

[2] Connect your camera and smartphone

Pair the "LUMIX Sync" smartphone app with your camera in advance with Bluetooth.

Welcome to LUMIX Sync

To make the smartphone automatically connected with the camera, register the camera with the application.

You can do this later from "User Guide " in the upper left corner of the home screen.

Close | Next

Camera registration (pairing)

Operate the camera to perform setup. Turn the camera on, and press the [MENU/SET] button.

Camera registration (pairing)

🔧 ➜ Bluetooth

Select "Bluetooth" in "Setup" menu.

Camera registration (pairing)

Pairing

Next, select "Pairing" in "SET".

Camera registration (pairing)

Check the camera's device name.

Camera registration (pairing)

Cameras detected
GH5M2-XXXXXX

Select a device name displayed on the camera screen.

Camera registration (pairing)

Cameras detected
GH5M2-XXXXXX

Connecting with the camera (GH5M2-XXXXXX) to communicate with it.

Cancel

Camera registration (pairing)

Cameras detected
Searching for the camera...

The camera has been successfully registered with the application.

OK

Pairing completed

[Initial screen after installing the "LUMIX Sync" smartphone app]

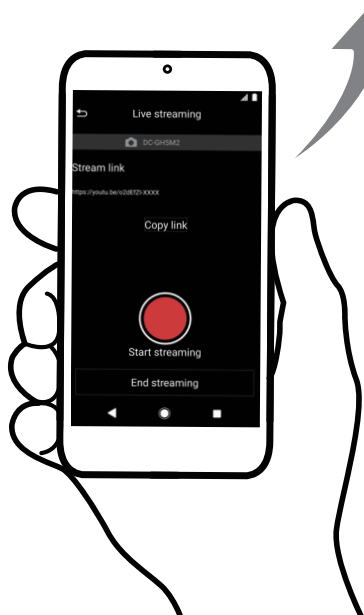[Set the connection of the camera and smartphone with Bluetooth]

[Select the camera]

[Pairing may take a few minutes]

LUMIX Sync

THREE WAYS to live stream
using the "LUMIX Sync" smartphone app

[1] Streaming with RTMP/RTMPS

Setting method for live streaming using stream URL and stream key.
In addition to YouTube and Facebook, it is possible to configure settings with various social streaming platforms that are compatible with RTMP/RTMPS.

*When you wish to schedule a post or if you have less than 1,000 subscribers on YouTube, connect with RTMP/RTMPS.

Check
3 ~ **4**

[2] Streaming with YouTube LIVE ▶ YouTube

This is a setting method to easily conduct live streaming by logging into your YouTube account so that you can omit inputs such as stream key.

Caution   Due to YouTube's Terms of Service, this setting is only possible if you have over 1,000 subscribers.

Check
5 ~ **6**

[3] Streaming with Facebook LIVE LIVE

This is a setting method to easily conduct live streaming by logging into your Facebook account so that you can omit inputs such as stream key.

Check
7 ~ **8**

•Live streaming to the platforms that comply with RTMP/RTMPS is basically possible (Compatibility with all the platforms is not guaranteed.) There may be the cases where the live streaming is not possible when the service of the platform changes. For more information, please refer to the terms and conditions of the platform.
•YouTube" and the "YouTube logo" are registered trademarks of Google Inc. •Facebook" is a registered trademark of Facebook, Inc

LIVE STREAMING WITH A SMARTPHONE
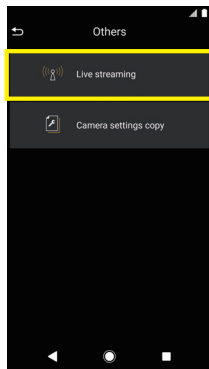
[1] Streaming with RTMP/RTMPS

•YouTube" and the "YouTube logo" are registered trademarks of Google Inc.
*Here we will be explaining using a streaming setting using YouTube Studio as an example. *When you wish to schedule a post or if you have less than 1,000 subscribers on YouTube, connect with RTMP/RTMPS.

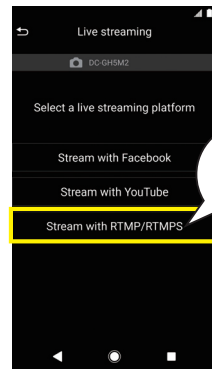This is a setting method for live streaming using platforms compatible with RTMP/RTMPS such as YouTube.

STEP 1 Launch LUMIX Sync and start settings
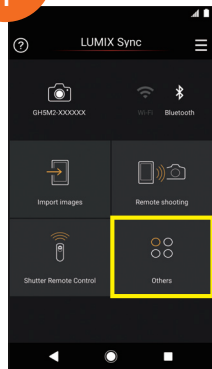
[Select "Others"]

[Select "Live streaming"]

[Select "Stream with RTMP/RTMPS"]

RTMP RTMPS → STEP 2

Configure settings from the social streaming platform

① Set the privacy settings and date and time.
② Set other details.
③ **Copy the stream URL.**
④ **Copy the stream key.**
⑤ Copy to your email, etc. and share with an app.

Copy from the platform

STEP 2

Wi-Fi settings
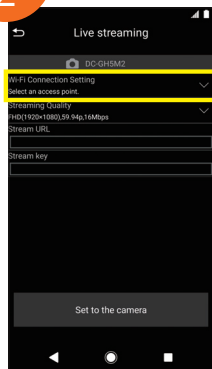
[Configure Wi-Fi connection settings]

[Select a wireless access point]

! If a list of smartphones that you wish to connect is not displayed, turn the tethering function "OFF/ON" again.
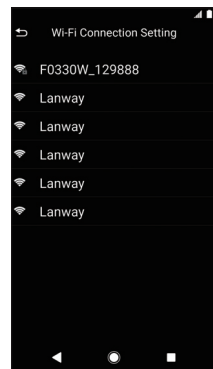
Image quality settings

[Set the streaming quality]

Streaming Quality
- FHD(1920×1080),59.94p, 16Mbps
- FHD(1920×1080),59.94p, 8Mbps
- FHD(1920×1080),29.97p, 6Mbps
- FHD(1920×1080),29.97p, 3Mbps
- HD(1280×720),59.94p, 6Mbps
- HD(1280×720),29.97p, 4Mbps
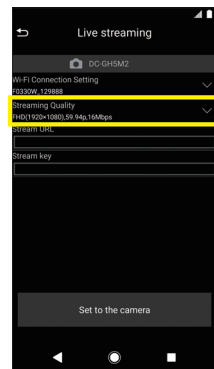
! Confirm the upstream speed of the network that you are using before streaming and select the streaming quality.
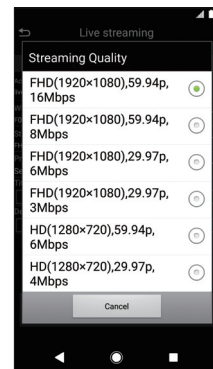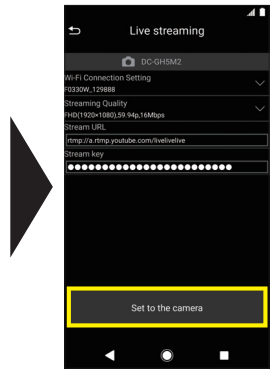
Stream URL settings

Paste from the platform
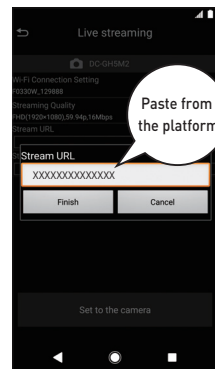
[Obtain a stream URL from the social streaming platform and configure settings]

Stream key settings

Paste from the platform
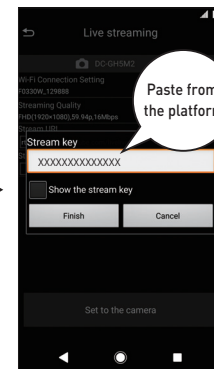
[Obtain a stream key from the social streaming platform and configure settings]

STEP 3 NEXT PAGE

*When streaming using a smartphone network, a tethering service contract for your carrier is required.

[1] Streaming with RTMP/RTMPS

•YouTube™ and the "YouTube logo" are registered trademarks of Google Inc.
*Here we will be explaining using a streaming setting using YouTube Studio as an example. *When you wish to schedule a post or if you have less than 1,000 subscribers on YouTube, connect with RTMP/RTMPS.
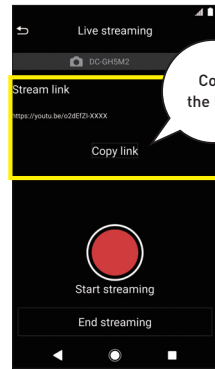
This is a setting method for live streaming using platforms compatible with RTMP/RTMPS such as YouTube.

STEP 3 — Set from LUMIX Sync to a camera

Creative Video Mode

Streaming function ON

[Set to the camera]

[Turn the camera's streaming function ON]

Spread the URL and start streaming

Copy the URL

[Copy the stream URL]

[Start live streaming]

Announce the URL with social media, email, etc.
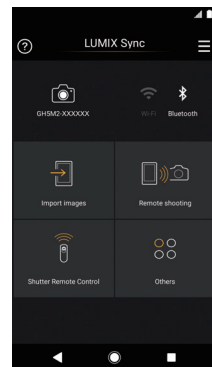
LIVE STREAMING

LIVE STREAMING

STEP 4

[Blue frame indicator during live streaming]

Monitor / Display (Video)
Color Bars	SMPTE
Video-Priority Display	ON
Red REC Frame Indicator	OFF
Streaming Blue Frame Indicator	ON

*The blue frame indicator can be switched ON/OFF.

STEP 4 — Stopping and ending streaming

[Stop live streaming]

[End live streaming]

[Return to the top screen]

Panasonic

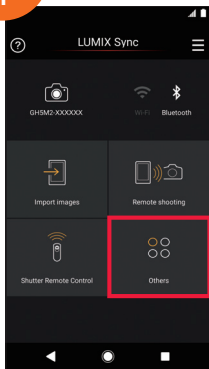## [2] Streaming with YouTube LIVE ▶ YouTube

•YouTube" and the "YouTube logo" are registered trademarks of Google Inc. *Connect with RTMP/RTMPS if you have less than 1,000 subscribers on YouTube.
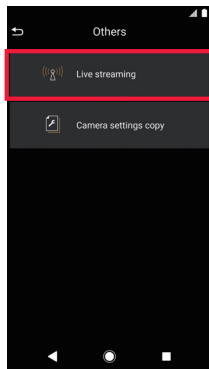
How to set live streaming using your account and YouTube Studio if you are a YouTube user with **over 1,000** subscribers.
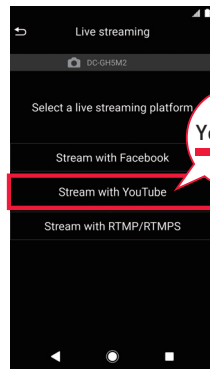
STEP 1 — Launch LUMIX Sync and start settings
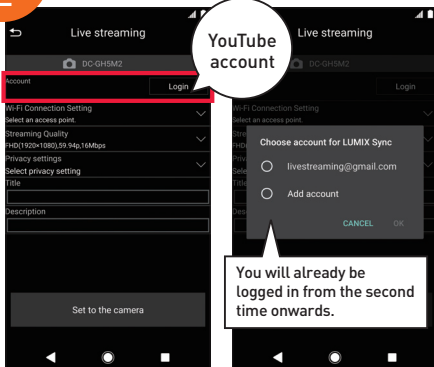
[Select "Others"]

[Select "Live streaming"]

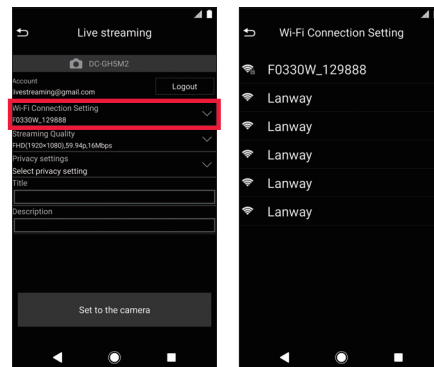YouTube

[Select "Stream with YouTube"]
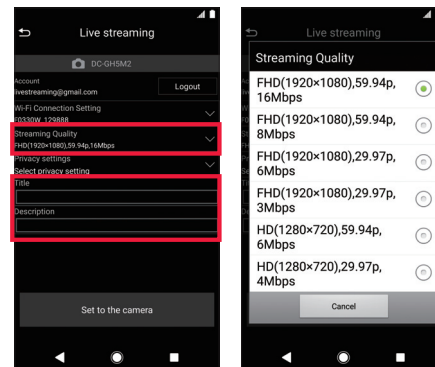
STEP 2

STEP 2

YouTube account settings

YouTube account

You will already be logged in from the second time onwards.

[Login to your YouTube account]

Wi-Fi settings

[Select a wireless access point]

⚠ If a list of smartphones that you wish to connect is not displayed, turn the tethering function "OFF/ON" again.

Image quality, title and description

Streaming Quality

FHD(1920×1080),59.94p, 16Mbps
FHD(1920×1080),59.94p, 8Mbps
FHD(1920×1080),29.97p, 6Mbps
FHD(1920×1080),29.97p, 3Mbps
HD(1280×720),59.94p, 6Mbps
HD(1280×720),29.97p, 4Mbps
Cancel

[Set the streaming quality, title and description]

⚠ Confirm the upstream speed of the network that you are using before streaming and select the streaming quality.

Privacy settings

Select privacy setting
Public
Unlisted
Private
Cancel

[Set the range to release the stream]

STEP 3
NEXT PAGE

*When streaming using a smartphone network, a tethering service contract for your carrier is required.
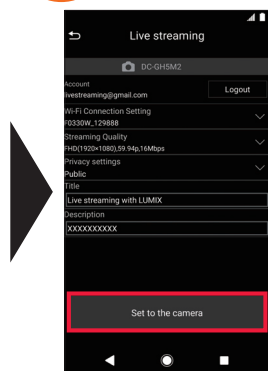
[2] Streaming with YouTube LIVE ▶ YouTube

•YouTube" and the "YouTube logo" are registered trademarks of Google Inc. ***Connect with RTMP/RTMPS if you have less than 1,000 subscribers on YouTube.**

How to set live streaming using your account and YouTube Studio if you are a YouTube user with **over 1,000** subscribers.

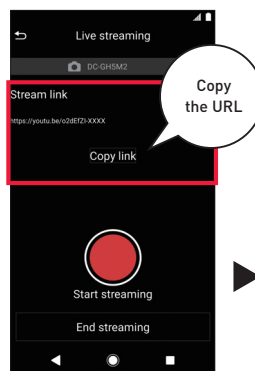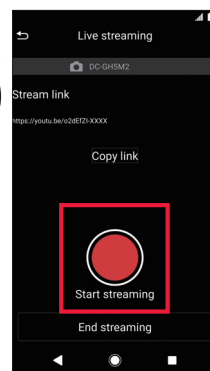**STEP 3**

Set from LUMIX Sync to a camera

🎥M Creative Video Mode

Streaming function ON

[Set to the camera]

[Turn the camera's streaming function ON]

Spread the URL and start streaming

Copy the URL

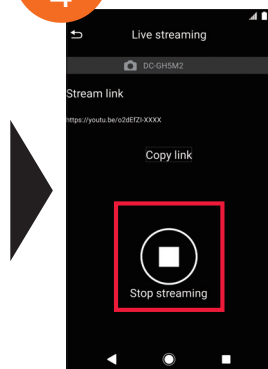[Copy the stream URL]   [Start live streaming]

Announce the URL with social media, email, etc.

LIVE STREAMING

LIVE STREAMING

STEP 4

[Blue frame indicator during live streaming]

Monitor / Display (Video) 1 | 2
Color Bars — SMPTE
Video-Priority Display — ON
Red REC Frame Indicator — OFF
Streaming Blue Frame Indicator — ON

*The blue frame indicator can be switched ON/OFF.

STEP 4

Stopping and ending streaming
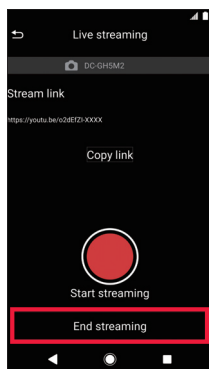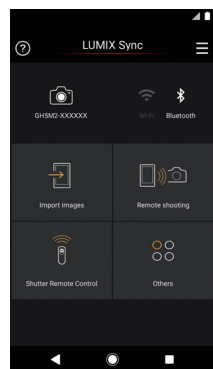
[Stop live streaming]   [End live streaming]   [Return to the top screen]
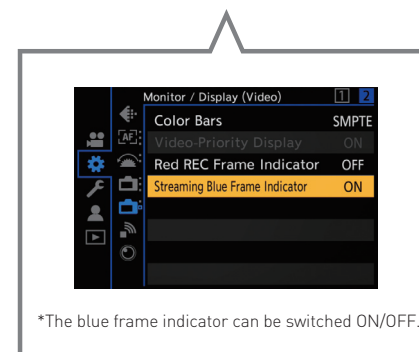
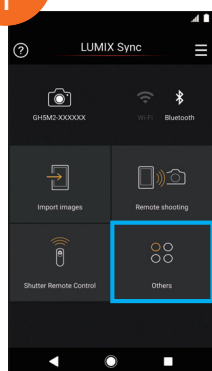• Facebook" is a registered trademark of Facebook, Inc.
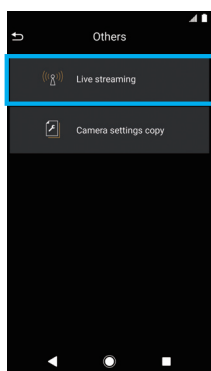
[3] Streaming with Facebook LIVE

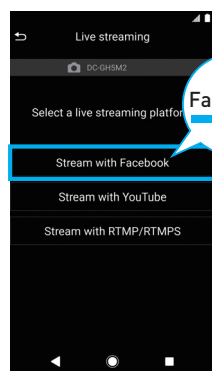Setting method for live streaming using your Facebook account and Facebook LIVE.

STEP 1 — Launch LUMIX Sync and start settings

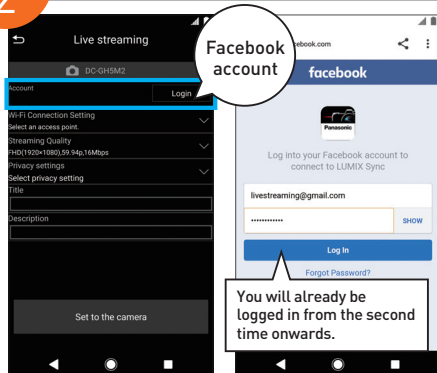[Select "Others"]

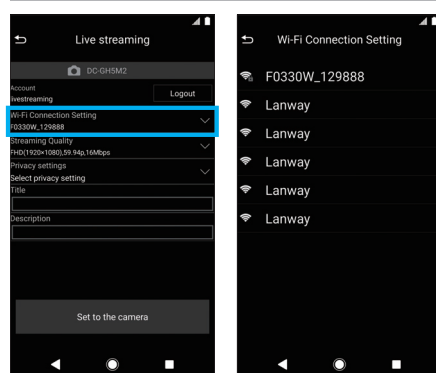[Select "Live streaming"]

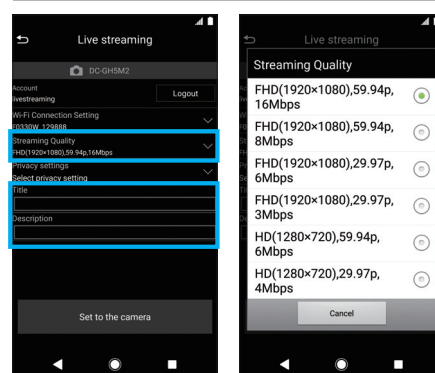[Select "Stream with Facebook"]

STEP 2

STEP 2

Facebook account settings	Wi-Fi settings	Image quality, title and description	Privacy settings

You will already be logged in from the second time onwards.

[Login to your Facebook account]

[Select a wireless access point]

⚠ If a list of smartphones that you wish to connect is not displayed, turn the tethering function "OFF/ON" again.

[Set the streaming quality, title and description]

⚠ Confirm the upstream speed of the network that you are using before streaming and select the streaming quality.

[Set the range to release the stream]

STEP 3 NEXT PAGE

*When streaming using a smartphone network, a tethering service contract for your carrier is required.

LIVE STREAMING WITH A SMARTPHONE

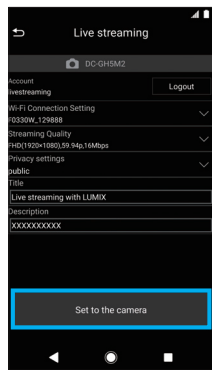•Facebook˝ is a registered trademark of Facebook, Inc.

[3] Streaming with Facebook LIVE LIVE

Setting method for live streaming using your Facebook account and Facebook LIVE.
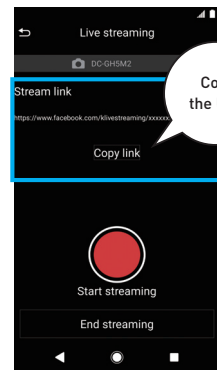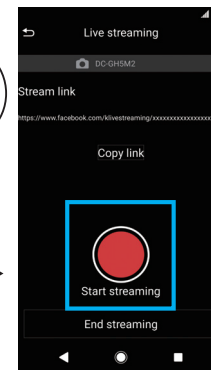
STEP 3

Set from LUMIX Sync to a camera

Creative Video Mode

[Set to the camera]

Streaming function ON

[Turn the camera's streaming function ON]

Spread the URL and start streaming

Copy the URL

[Copy the stream URL]

[Start live streaming]

Announce the URL with social media, email, etc.

LIVE STREAMING

LIVE STREAMING

STEP 4

[Blue frame indicator during live streaming]

Monitor / Display (Video)	1 2
Color Bars	SMPTE
Video-Priority Display	ON
Red REC Frame Indicator	OFF
Streaming Blue Frame Indicator	ON

*The blue frame indicator can be switched ON/OFF.

STEP 4

Stopping and ending streaming
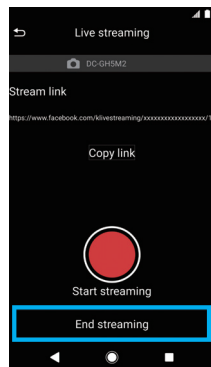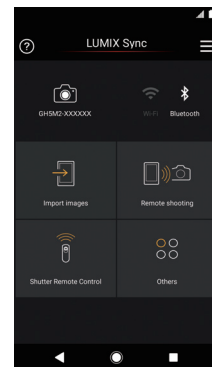
[Stop live streaming]

[End live streaming]

[Return to the top screen]
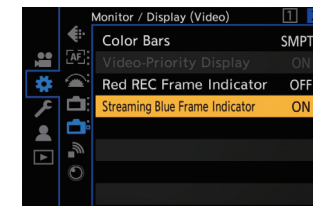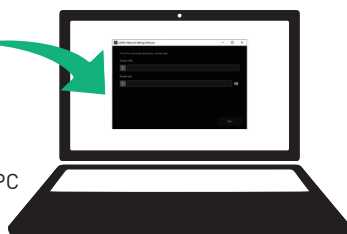
Live streaming by operating the camera

Set the streaming destination with your PC and save onto an SD memory card.
Insert the card into your camera and start live streaming by loading the streaming settings onto your camera.

STEP 1

Install the LUMIX Network Setting Software onto your PC

Download the software and install it onto your PC

[Prepare your PC]

PC software
[LUMIX Network Setting Software]

Download site
https://panasonic.jp/support/dsc/download/index3.html

Supported OS (as of September 2021)
Windows: Windows 10
Mac: macOS 10.13, 10.14, 10.15.3-10.15.7, 11.0-11.2

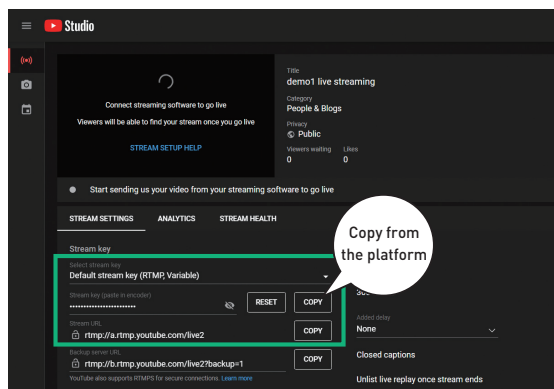**Insert an SD card into your PC**

SD CARD

STEP 2

*Please use an SD memory card with free space.
*If your PC does not have an SD memory card slot, use an SD card reader.

STEP 2

Obtain the streaming content settings from the platform

! Obtain the URL from the platform

▶ Studio

Connect streaming software to go live
Viewers will be able to find your stream once you go live

STREAM SETUP HELP

● Start sending us your video from your streaming software to go live

STREAM SETTINGS   ANALYTICS   STREAM HEALTH

Stream key
Select stream key
Default stream key (RTMP, Variable)

Stream key (paste in encoder)
RESET   COPY

Stream URL
rtmp://a.rtmp.youtube.com/live2   COPY

Backup server URL
rtmp://b.rtmp.youtube.com/live2?backup=1   COPY

YouTube also supports RTMPS for secure connections. Learn more

Copy from the platform

Title
demo1 live streaming

Category
People & Blogs

Privacy
Ⓒ Public

Viewers waiting   Likes
0   0

Added delay
None

Closed captions

Unlist live replay once stream ends

*Here we will be explaining using the YouTube LIVE (YouTube Studio) settings as an example.
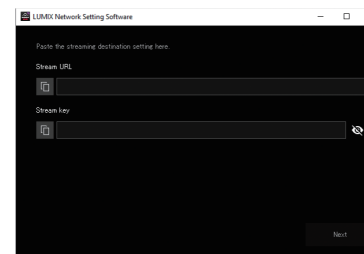
■ **Login to your account.**

▽

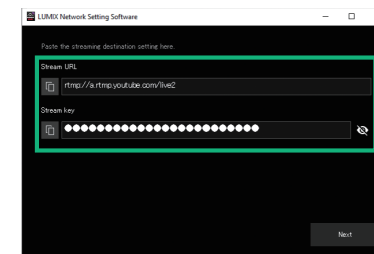[Configure settings from the social streaming platform]

Set the privacy settings and date and time.
Set other details.

▽

★ Copy the stream URL
★ Copy the stream key

Input to the LUMIX Network Setting Software

LUMIX Network Setting Software
Paste the streaming destination setting here.
Stream URL
Stream key

[Launch the LUMIX Network Setting Software]

LUMIX Network Setting Software
Paste the streaming destination setting here.
Stream URL
rtmp://a.rtmp.youtube.com/live2
Stream key
●●●●●●●●●●●●●●●●●●●●

Next

[Paste the stream URL and stream key that you copied]

STEP 3
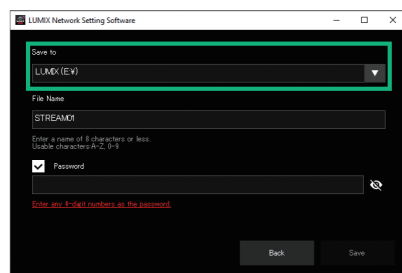NEXT PAGE

Live streaming by operating the camera

Set the streaming destination with your PC and save onto an SD memory card.
Insert the card into your camera and start live streaming by loading the streaming settings onto your camera.

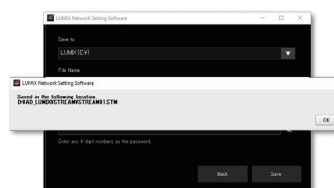**STEP 3** — Export from the LUMIX Network Setting Software to the SD card

Insert the SD card into your camera and start settings

[Settings file]
☐ STREAM01.STM

[Save to the SD memory card]

■ GH5 II

[Export the streaming destination onto the SD memory card]

• Characters that can be set in "File Name": Alphabet (uppercase), numbers, up to 8 characters.
• To prevent usage from a third party, you can secure the streaming destination with a password.
– Put a check mark in "Password".
– When you set a password, password input will be required when loading the streaming destination.
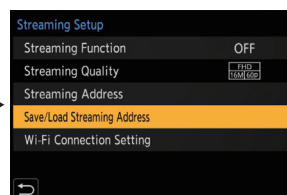– You can enter any 4-digit numbers as the password.

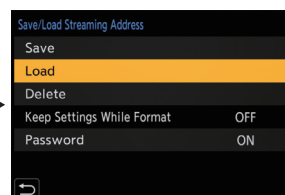**STEP 4** — Load the streaming destination inside the SD card to your camera
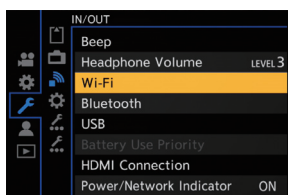
Select
[🔧 → 📶 → Wi-Fi]
in the camera menu
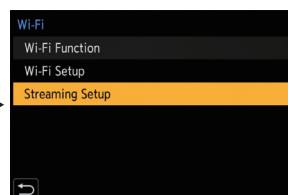
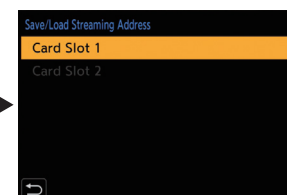[Select "Streaming Setup"]

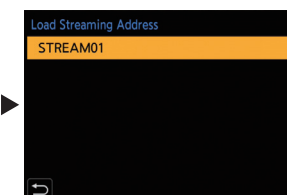[Select "Save/Load Streaming Address"]

[Select "Load"]

*When a password is set, enter the password to load.

[Select card slot]

[Load the streaming destination]
☐ STREAM01.STM

STEP 5
NEXT PAGE

Live streaming by operating the camera

Set the streaming destination with your PC and save onto an SD memory card.
Insert the card into your camera and start live streaming by loading the streaming settings onto your camera.

STEP 5 — Set the image quality

Select [🔧 → 📶 → Wi-Fi → Streaming Setup → Streaming Quality] in the camera menu

STEP 6

STEP 6 — Set the wireless access point

Select [🔧 → 📶 → Wi-Fi → Streaming Setup → Wi-Fi Connection Setting → New Connection]

[Select an access point (Wi-Fi), enter the password (encryption key) and connect wirelessly]
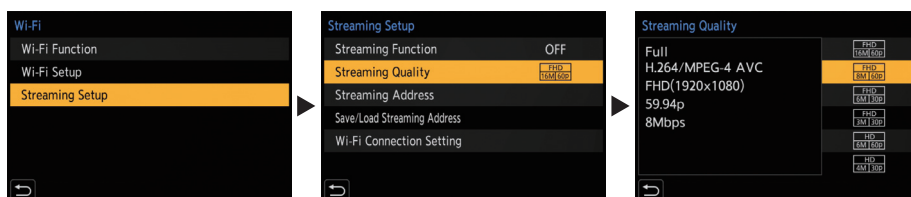
Live streaming by operating the camera

Set the streaming destination with your PC and save onto an SD memory card.
Insert the card into your camera and start live streaming by loading the streaming settings onto your camera.
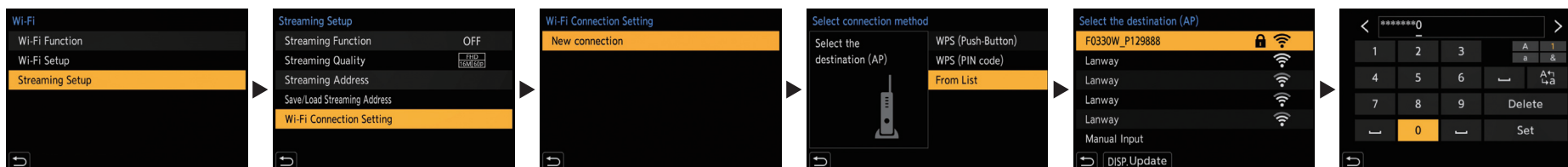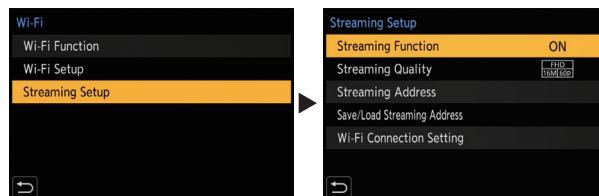
STEP 7 — Set the streaming function ON — Creative Video Mode — Start streaming — **LIVE STREAMING**

Wi-Fi
Wi-Fi Function
Wi-Fi Setup
Streaming Setup

Streaming Setup
Streaming Function — ON
Streaming Quality — FHD 16M 60P
Streaming Address
Save/Load Streaming Address
Wi-Fi Connection Setting

Streaming function ON

LIVE STREAMING

Select [🔧 → 📶 → Wi-Fi → Streaming Setup → Streaming Function → ON]

[Turn the camera's streaming function ON]

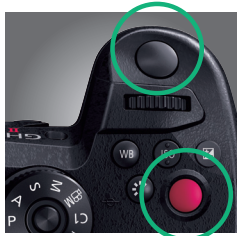[Press the shutter button or video rec button and start live streaming]
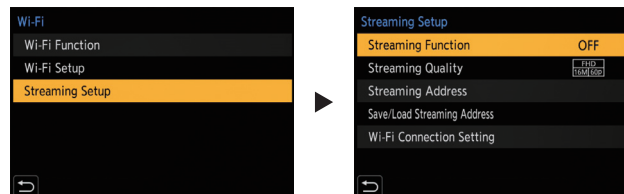
STEP 8

[Blue frame indicator during live streaming]

*The blue frame indicator can be switched ON/OFF.

STEP 8 — Stopping and ending streaming

Wi-Fi
Wi-Fi Function
Wi-Fi Setup
Streaming Setup

Streaming Setup
Streaming Function — OFF
Streaming Quality — FHD 16M 60P
Streaming Address
Save/Load Streaming Address
Wi-Fi Connection Setting

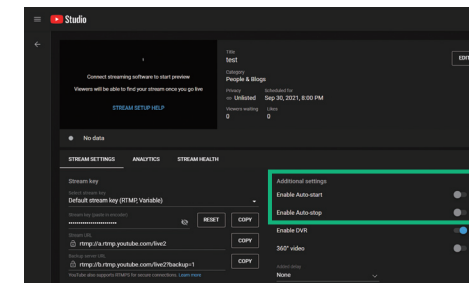[Press the shutter button or video rec button and stop live streaming]

[🔧 → 📶 → Wi-Fi → Streaming Setup → Streaming Function → Select OFF to end live streaming]

Try using the schedule stream!

*Here we will be explaining using the YouTube LIVE (YouTube Studio) settings on your PC as an example.

Auto-start settings

When enabled, you can automatically start streaming by starting it with your camera or LUMIX Sync. When disabled, the streaming will not start automatically with your camera or LUMIX Sync, and you must press the stream start button on the PC.

*With Facebook, press the streaming button on your PC and start.