



maxsquare

MSQ-1300CP

4K60 HDMI to USB-C 3.1 Video Capture Box with Scaler



MADE IN TAIWAN

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1. Introduction

The MSQ-1300CP 4K60 HDMI to USB-C 3.1 Video Capture Box with Scaler is the ultimate solution for capturing HDMI video signals with professional-level quality. Equipped with a USB 3.1 Type-C Gen 1 (USB 3.0) interface, this device offers lightning-fast transmission speeds. With the Video Capture Box, users can effortlessly capture Ultra HD 4K2K60 video with exceptional clarity and precision. Moreover, the capture box boasts the ability to capture and display original uncompressed HDMI video, which results in more accurate and true-to-life color rendition. The MSQ-1300CP's large volume image buffer technology effectively eliminates video tearing, while its high sampling rate and accuracy ensure that images are sharp, detailed, and have minimal color edges. But what sets MSQ-1300CP apart is its ability to support real-time 4K2K60/1080P120/2560x1440 144 video streams with SDR quality recording through the USB 3.0 port. This feature is critical for professionals and gamers who demand high-quality video capturing capabilities. So, whether you're capturing Ultra HD 4K2K60 video for professional or personal purposes, the MSQ-1300CP is the perfect choice.



* PS5 & Xbox Series X also support 1080P@120.

2. Features

- HDMI 2.0 compliant
- HDCP 2.2 / 1.4 compliant
- HDMI video and audio streams over USB 3.1 Type-C Gen 1
- Supports UVC1.0/1.1/1.5
- Supports video streaming over USB-C resolution up to 4K2K 60Hz/1080P 120Hz/2560x1440 144Hz¹
- Supports HDMI input up to 4K2K 60Hz
- Supports HDR 4K2K 60Hz 4:2:0 10bits / 12bits
- Supports Deinterlace and Scaler
- Supports HDR10 to SDR conversion²
- Auto-detection on video format to ensure plug-play
- Recording Video Format: Software Compression
- Wide Range of operating systems (Windows 7 / 8.1 / 10 /11, Mac and Linux OS)
- Compatible with Mainstream streaming media softwares and live platforms such as OBS Studio, PotPlayer and Youtube Live

- Supports USB 3.1 Gen 1 (RGB/YUY2/NV12/P010/I420/MJPEG) ³, Capture up to 4K2K 60Hz
- Supports USB 2.0 (RGB/YUY2/NV12/P010/I420/MJPEG), Capture up to 1080P 60Hz
- Low Latency (3~4ms at 1080P)
- USB-C Reversible
- System Requirements (Recommended)
 - Windows® 7(SP1) / Windows 8.1 / Windows 10 / Windows 11
 - PC: Intel® Core™ i7-8700K + NVIDIA® GeForce® GTX 1060 or higher
 - Laptop: Intel® Core i5-1135G7 + NVIDIA GeForce MX 450 or higher
 - 8GB RAM or higher
 - MAC: Apple M1 chip (2020) or Higher



- * Video quality may be impacted by the capabilities of your computer and software settings.
- ** To avoid compatibility issues and protect your device, we recommend using the USB 3.0 cable that is included in the box.
- *** Changes to video resolution may require restarting the software for the changes to take effect.
- **** Please note that video output format may be limited by the software being used. For example, the AMCap software does not support the NV12 format.

1. 4K 60Hz/2560x1440 144Hz ONLY support on MJPEG format; 4K2K 30Hz ONLY support on NV12 format.
2. This device does not support the conversion of HDR10 plus, HLG, and Dolby Vision to SDR.
3. We recommend selecting the P010 format when recording HDR videos.

3. Package Contents

- 1x MSQ-1300CP
- 1x User Manual

4. Specifications

MSQ-1300CP

Technical	
Role of usage	Video Capture Box
Input Video bandwidth	594MHz
Output bandwidth	Up to 5 Gbps (USB-C)
Video support(USB-C)	Up to 4K2K 60Hz/1080P 120Hz/2560x1440 144Hz
Audio Input	HDMI Embedded Audio
Audio Format	2CH 16bit PCM
Recording Mode	Software Compression
Recording Video Format	RGB/YUY2/NV12/P010/I420/MJPEG (USB3.1 Gen 1)/(USB2.0)
ESD protection	Human body model — ±15kV [air-gap discharge] & ±8kV [contact discharge]
PCB stack-up	4-layer board [impedance control — differential 100Ω; single 50Ω]
Firmware Update	Feasible via USB-C Port
Input	1x HDMI
Output	1x USB-C
HDMI connector	Type A [19-pin female]
USB connector	USB 3.1 Type C (SuperSpeed USB)
Software compatibility (not complete list)	OBS Studio (Windows, Linux, MAC) , PotPlayer (Windows), VLC (MAC, Linux), AMCap (Windows), XSplit Broadcast (Windows), Skype (Windows, MAC), Zoom (Windows), Hangout (Windows), TeamViewer (Windows)
OS Support	Windows 7 /8.1 /10/11, Mac and Linux OS
Mechanical	
Housing	Metal enclosure
Power supply	Via USB-C
Power consumption	2 Watt [max]
Operation temperature	0~40°C [32~104°F]
Storage temperature	-20~60°C [-4~140°F]
Relative humidity	20~90% RH [no condensation]

5. Panel Description



- 1. LED INDICATOR:** Power & input signal indicator LED
[Blue] Device Power On (no input signal)
[Green] Input Detects HDMI Signal
[Red]¹ Input Source is HDCP Protected
- 2. HDMI IN:** Connect to a HDMI Source
- 3. USB-C OUT:** Connect to a USB host (Such as PC, NB, MAC)



- 4. LED INDICATOR:** USB-C indicator LED
[Red]² Connect the device to the USB 2.0 port on the host
[BLUE] Connect the device to the USB 3.0 port on the host



1. When the input source is HDCP protected, LED will become red to indicate the content is legally encrypted and can NOT be captured.
2. If you plug the capture device into the USB 3.0 port on the host, but the LED indicator lights up red, it means that the device is working according to the USB 2.0 specification. It could be an issue with the USB cable or USB Port.

6. Connection Diagram



7. Video Streaming

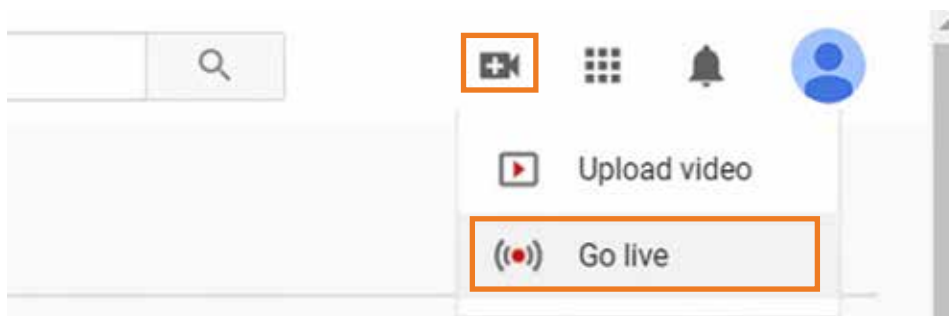
Creating a Video Stream

Users can easily create video streams on our streaming service platform. The following steps will guide you through the process of configuring your video stream settings for YouTube and Twitch.

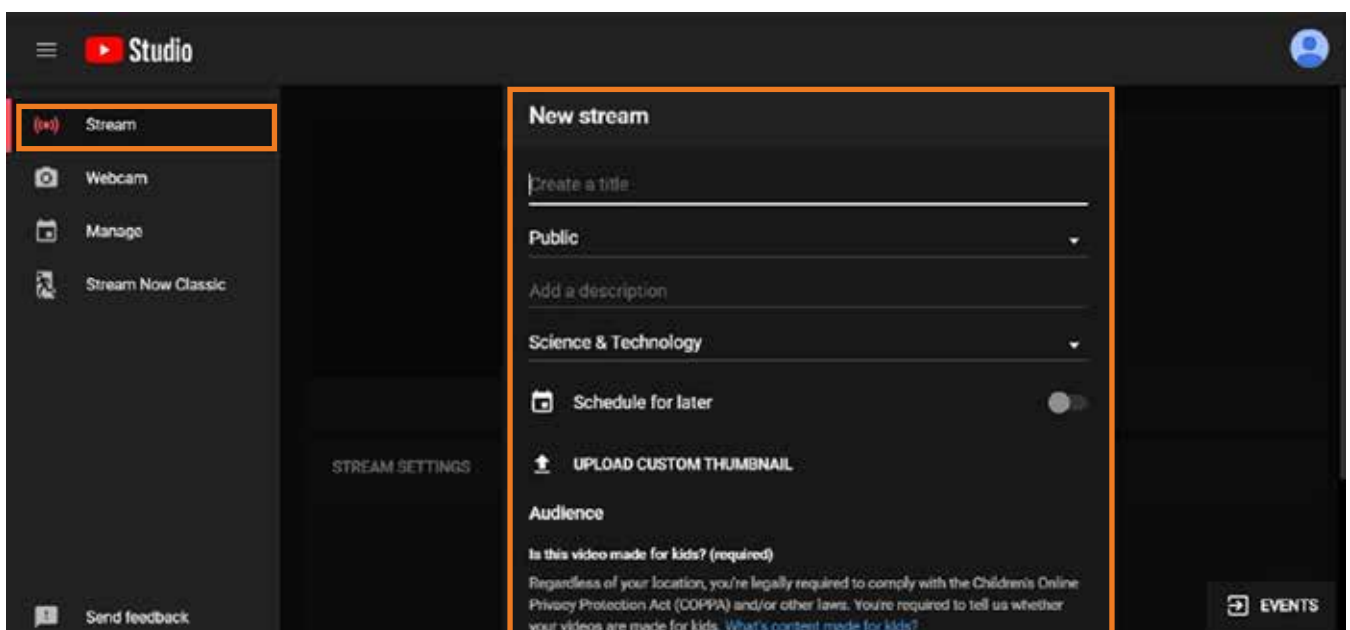
- **YouTube**

1. Go to the YouTube website (<https://www.youtube.com/>) and log in to your account. Click the **“Create”** icon menu at the top right of the screen and select **“Go live.”**

**If you're using YouTube for the first time to create a video stream, you may need to wait up to 24 hours for the function to be enabled.*

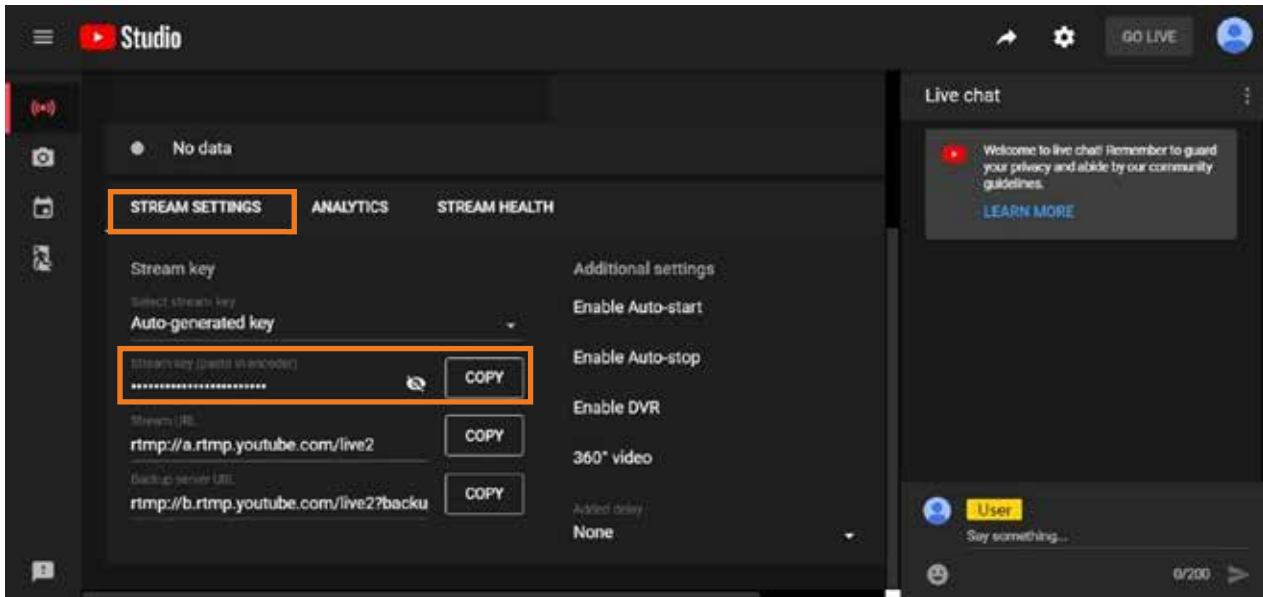


2. In the left menu, click on **“Stream”** and enter the relevant information for the live video to create a new stream.

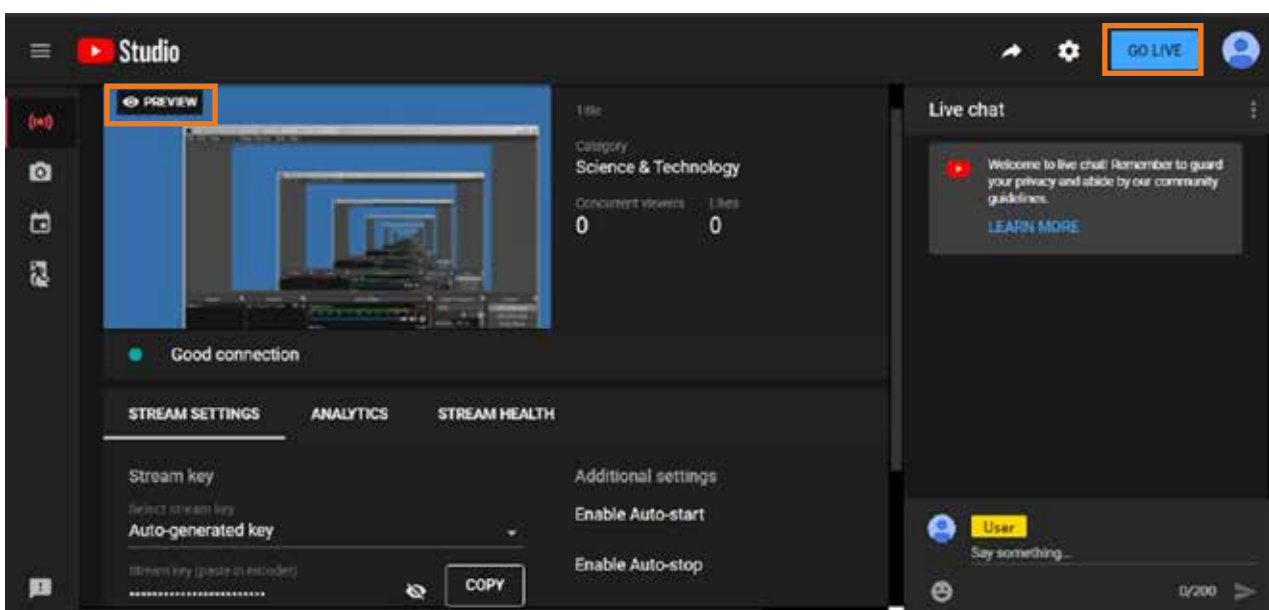


- Under the **"STREAM SETTINGS"** section, you will find the **"Stream key."** Copy the stream key and paste it into the corresponding **"Stream Key"** field in the OBS software. Then, click **"Start Streaming"** in the software.

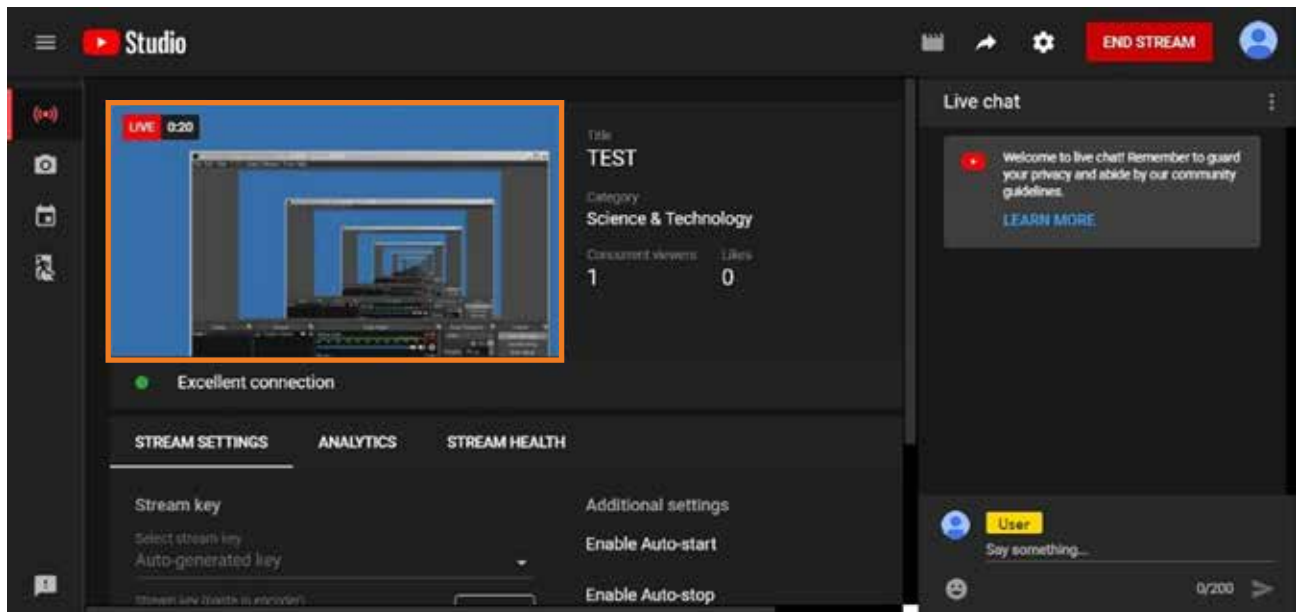
* For more information, please refer to steps 4-6 in the OBS software control program.



- After pasting the stream key into OBS and clicking **"Start Streaming,"** return to YouTube and wait for 30-60 seconds for the live preview to display on the player. Once the preview is available, the **"GO LIVE"** button at the top right of the screen will turn blue. Click the button to start the stream.

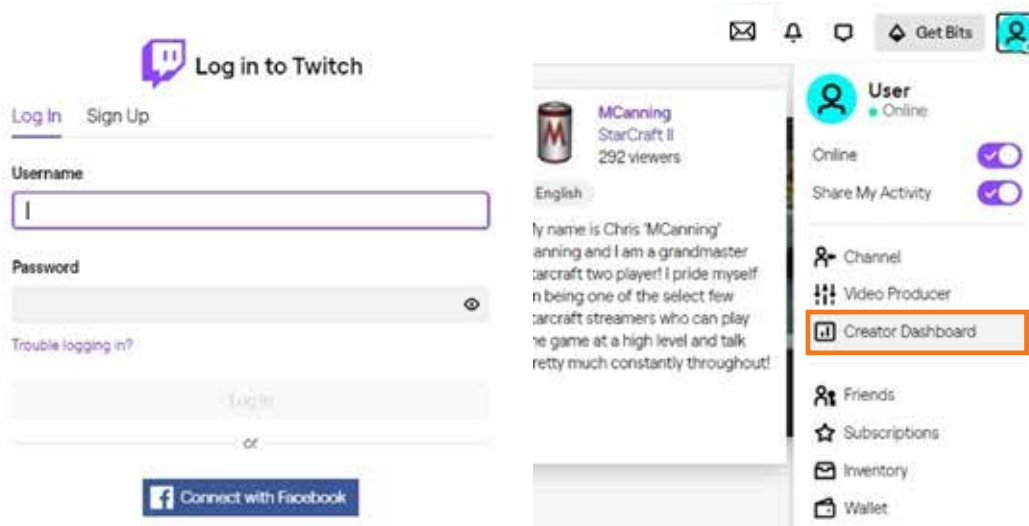


5. The YouTube player will start streaming the live video.



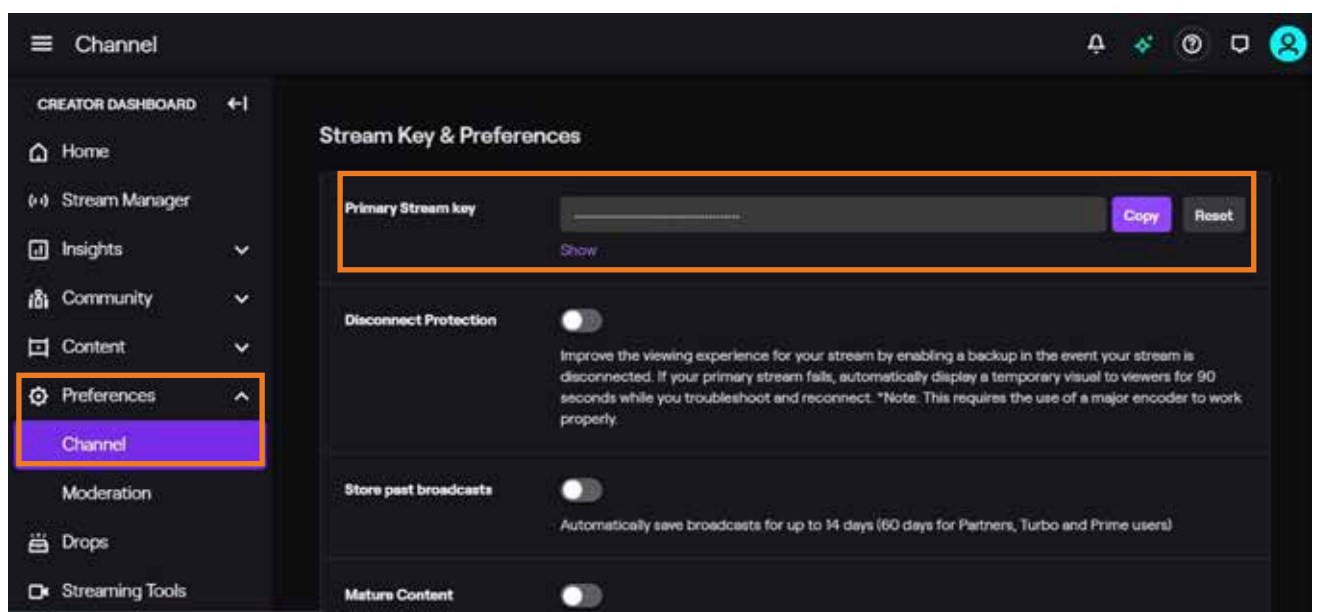
- **Twitch**

1. To begin creating a video stream on Twitch, visit the Twitch website (<https://www.twitch.tv/>) and log in to your account. From the drop-down menu located at the top right of the screen, select **"Creator Dashboard"**.

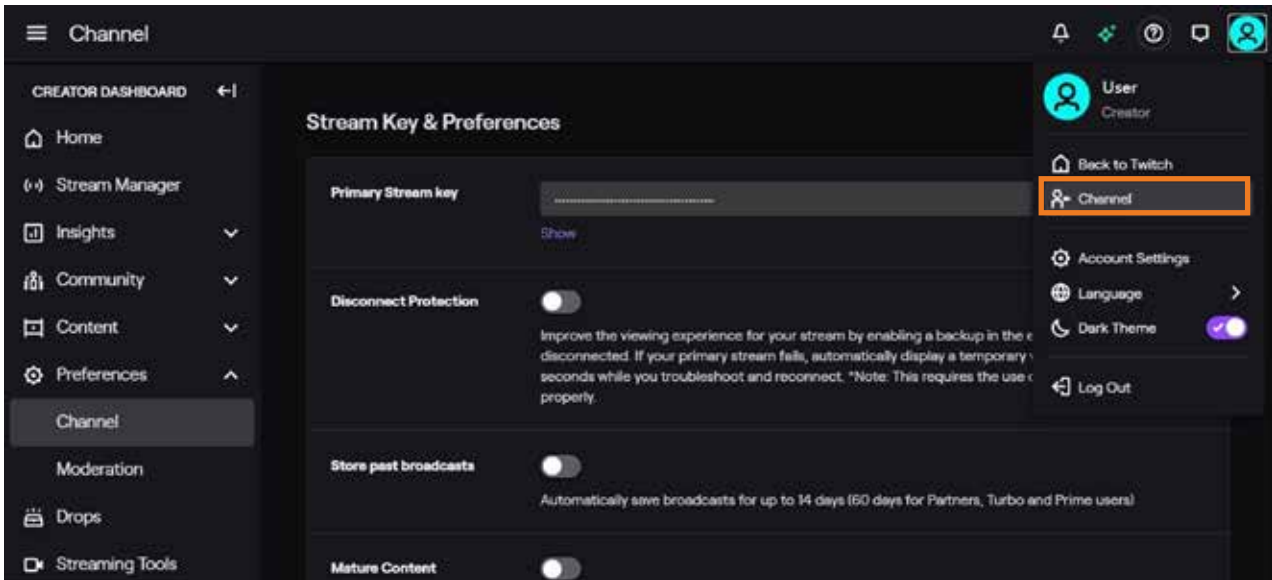


2. In the left-hand menu, click on **"Preferences"** and then **"Channel"** to access the **"Primary Stream key."** Copy the **"Primary Stream key"** and paste it into the **"Stream Key"** field in OBS. Then, click **"Start Streaming"** in the software. Please refer to steps 4-6 in the OBS software control program.

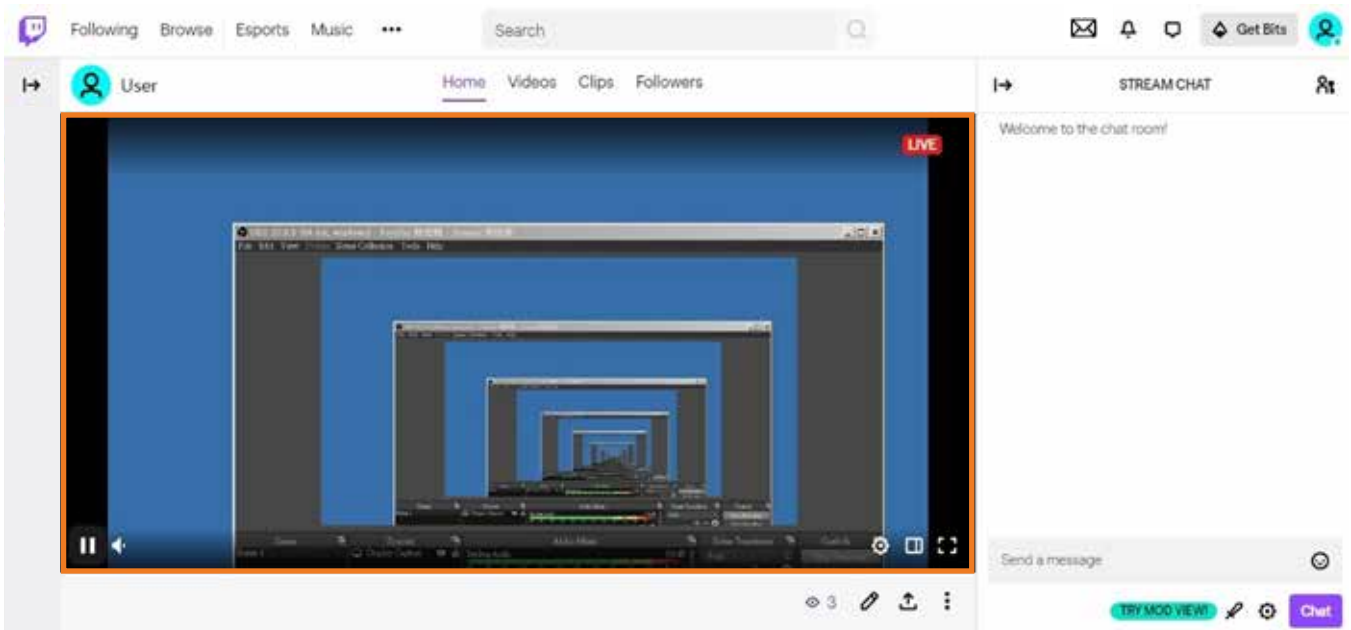
*Please refer to steps 4-6 of the OBS software control program.



- Return to Twitch and click on **"Channel"** from the account drop-down menu.



- You will be able to see the player start live streaming on your Twitch channel at this point.



How to Stream and Record Videos with OBS

OBS is a popular USB capture freeware that offers excellent compatibility. It's a great option for users who are not familiar with USB capture devices. Here's how to get started.

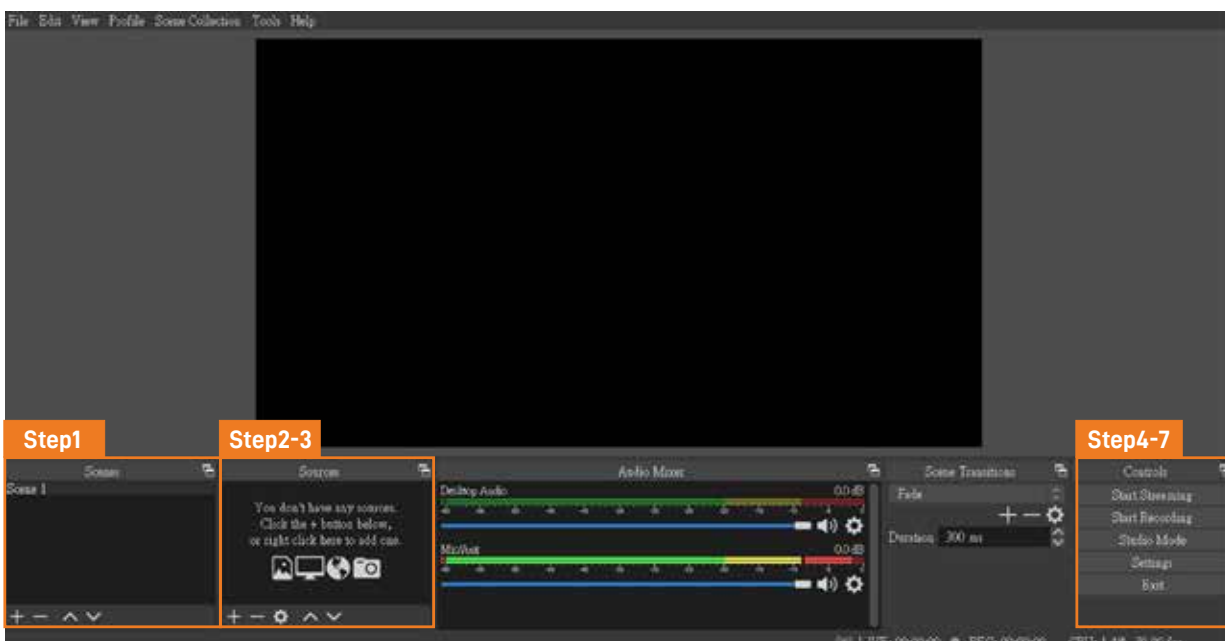
- **Download OBS**

Go to the OBS official website download page(<https://obsproject.com/download>), select the appropriate operating system for your computer, and start downloading.

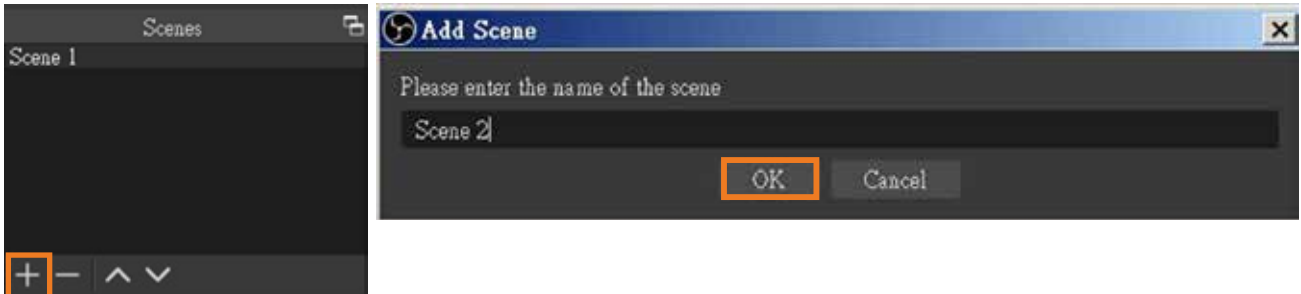


- **Start the software control program**

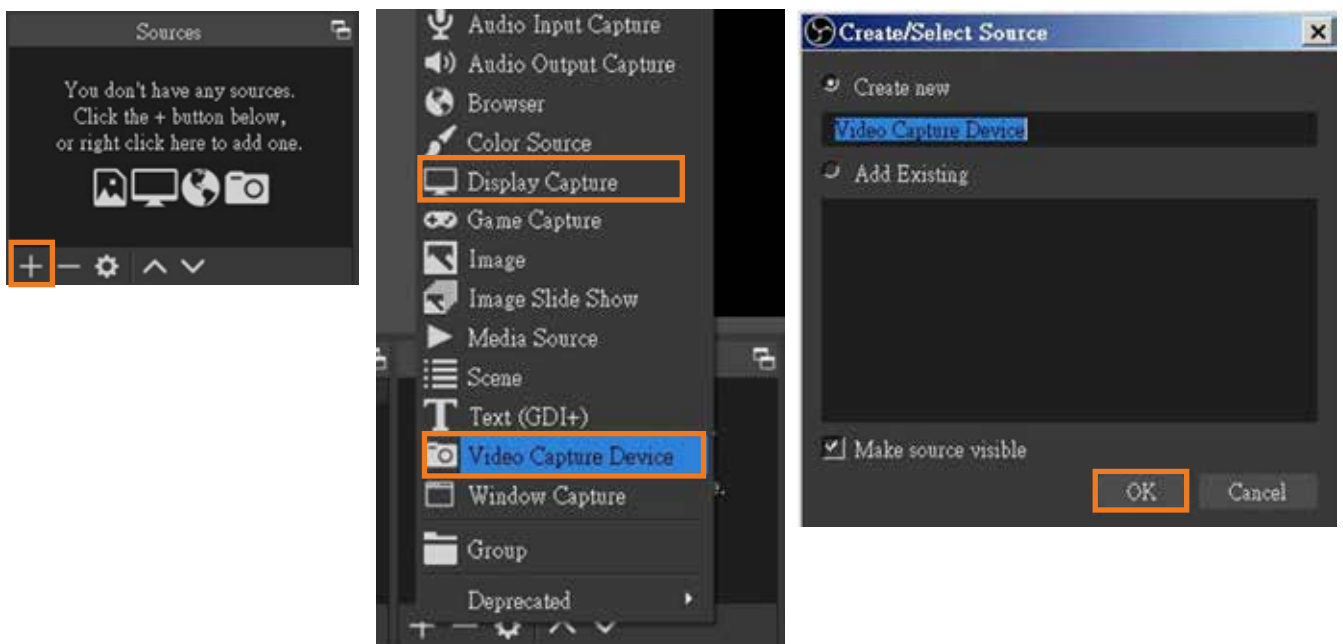
Once you have downloaded OBS, open the software and follow the steps below to complete your video streaming settings.



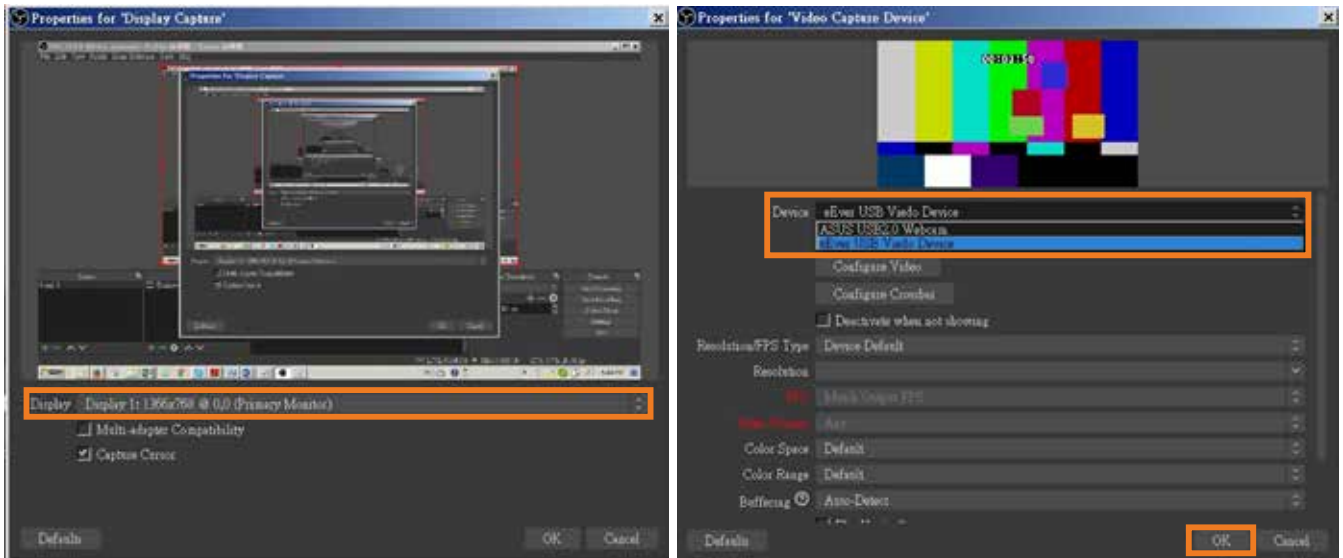
1. To begin, locate the **"Scenes"** window and click on the **"+"** button located in the lower left corner. Enter a name for the scene to create a new one.



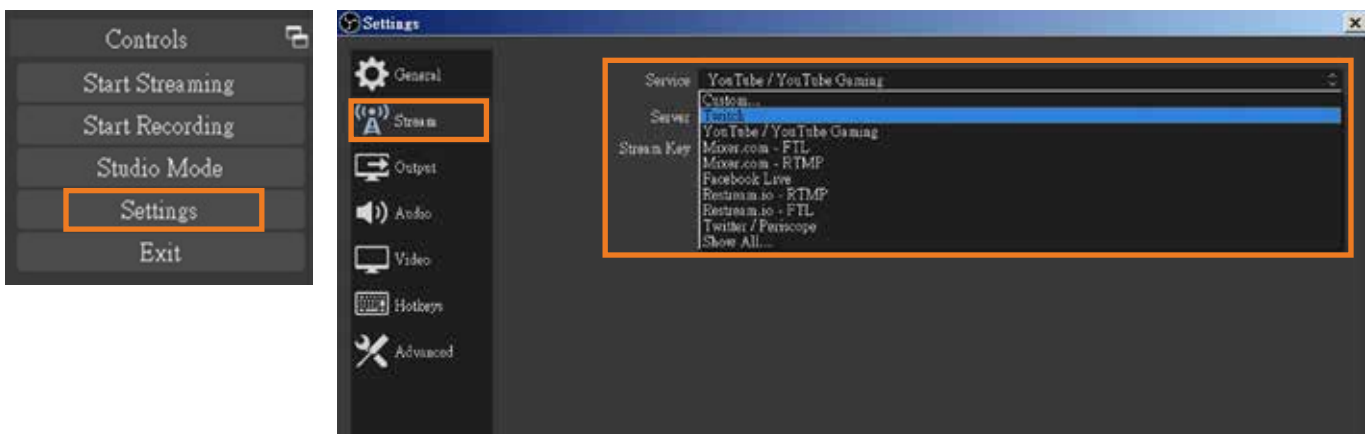
2. Find the **"Sources"** window and click the **"+"** icon located in the lower-left corner. From the drop-down menu, select either **"Display Capture"** or **"Video Capture Device"** to create a new source.



- After selecting either **"Display Capture"** or **"Video Capture Device"** in step 2, you can then proceed to set the properties of your chosen capture source. If you selected **"Display Capture"**, you can choose to capture either your primary or extended monitor as the display source. If you selected **"Video Capture Device"**, you can choose your USB video device as the display source. Once you have finished setting the properties, click **"OK"**.



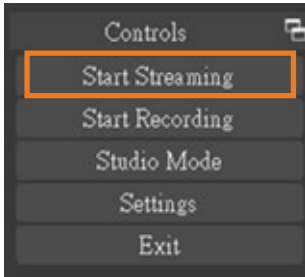
- To perform streaming settings, click on **"Settings"** and then select **"Stream"**. From there, you can choose your preferred service provider such as Twitch or YouTube.



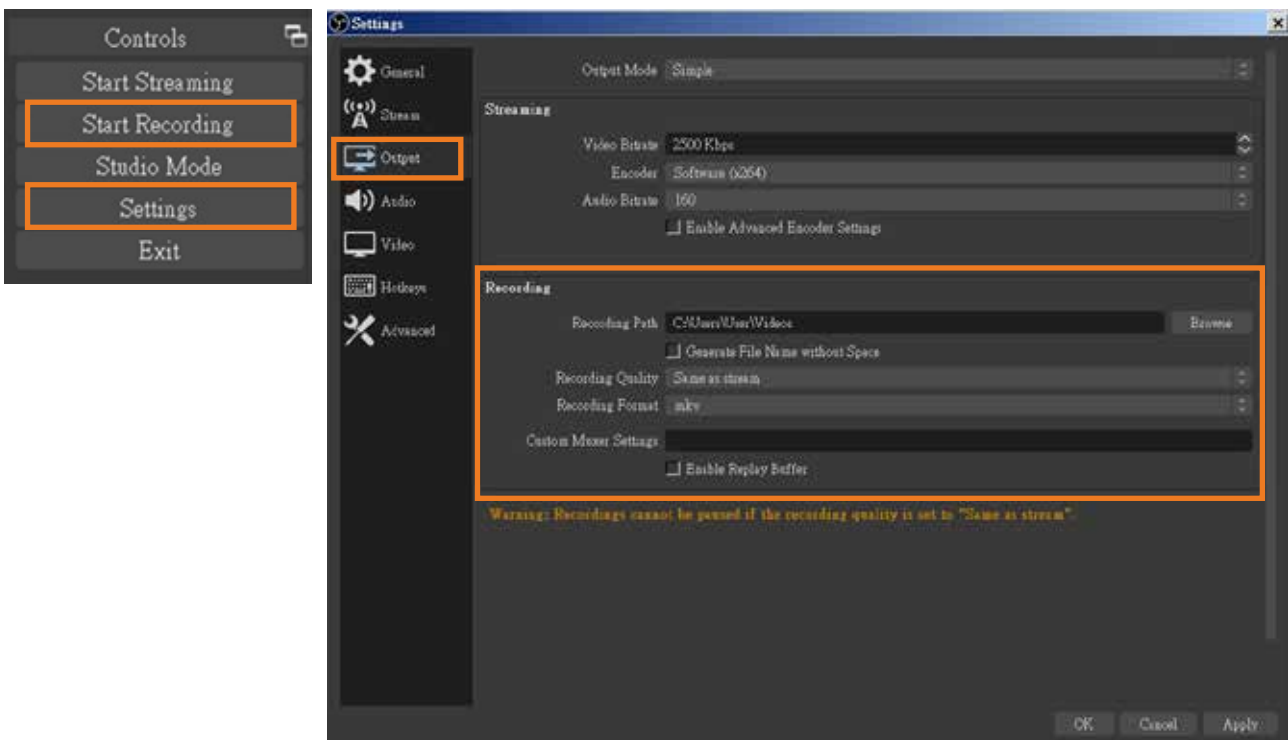
- Paste the stream key provided by the service provider into the **"Stream Key"** field, and then click **"Apply"** and **"OK"** to save the settings. Additionally, users can click on **"Get Stream Key"** to open the service provider's website.



- Please click **"Start Streaming"**. At this point, the live video will be displayed on the screen after clicking **"Start Streaming"**.



- Additionally, users can also utilize OBS to record videos by clicking on **"Start Recording"**. Moreover, users can set the recording path and format by clicking **"Settings"** and selecting **"Output"**.



Please note that the procedures outlined in this manual are based on the interface that each website provides at the time of writing. While it is very likely that the most recent way to make live streaming happen will follow the above procedures, it is important to note that these procedures are subject to change due to website interface updates from the social media platforms.

8. Troubleshooting

We have conducted comprehensive tests on our USB device before shipping it out to ensure its functionality. However, most incompatibilities encountered are not attributed to the USB capture device itself, but rather to the intricate combination of software and hardware on the PC or laptop. We recommend following the suggestions outlined below for troubleshooting assistance.

1. For users who are not familiar with USB capture devices, we recommend downloading and using OBS, a popular and highly compatible USB capture freeware. You can download OBS from their official website at <https://obsproject.com/download>.
2. The USB device we provide supports HDCP, a mechanism that protects legal content from piracy. If an HDMI input with HDCP protection is detected, the built-in LED on the device will turn red to indicate the presence of HDCP. In such cases, the USB capture will not be allowed legally. To avoid this issue, please use non-HDCP protected HDMI sources or disable HDCP in your source device's settings. For instance, the PS5 supports such a feature to turn off HDCP.
3. Due to the complexities of different operating systems and computer hardware, not all USB ports on PC or laptop may have the same performance or limitations. If you encounter issues with one USB port, please try another port to see if there are any differences.
4. HDMI cable quality can also affect the capture performance. Please make sure your HDMI cable can support 1080P 60Hz HDMI signal transmission or better. If the device is not working as expected, please try different cables.
5. If you experience audio noise when using the PotPlayer software, we suggest adjusting the audio renderer to WaveOut in the software settings.

The setting path is:

PotPlayer → Audio → Audio Output → Audio Renderer → WaveOut

6. In case of video flipping or incorrect orientation issues when using VLC software, we recommend rotating, flipping, or transposing the video in the VLC software to correct the issue.

The setting path is:

Tool → Effects & Filters → Video Effects → Geometry → Transform

9. Warranty

Maxsquare warrants the MSQ-1300CP 4K60 HDMI to USB-C 3.1 Video Capture Box with Scaler for one year from the date of purchase from Maxsquare or an authorized dealer from defects in material and workmanship. If this product fails to function properly within the first year of its warranty, Maxsquare may repair or replace it at its discretion, provided that the device has not been subjected to accident, disaster, abuse, or other unauthorized modifications, including static discharge and power surge. Maxsquare provides this warranty to its BUYER solely in the case of a direct transaction. This warranty is void if the warranty seal on the metal housing is broken.

Unit that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. These repairs are warranted by a 90-day warranty from the date of reshipment to the buyer. Customers agree to ensure the unit or incur the risk of loss or damage in transit if the unit is delivered by mail. A unit will not be accepted if it does not have a return authorization number.

The warranty is in lieu of all other warranties expressed or implied, including without limitations, any other implied warranty or fitness or merchantability for any particular purpose, all of which are expressly disclaimed.

Proof of purchase may be required to claim the warranty. Customers outside of Taiwan must pay for shipping to and from Maxsquare. Cables and power adapters have a 30-day warranty and must be free of any markings or scratches, as well as neatly coiled.

This manual's material has been carefully reviewed and is believed to be accurate. Maxsquare, on the other hand, takes no responsibility for any inaccuracies or omissions in this manual. Even if advised of the possibility of such losses, Maxsquare will not be liable for direct, indirect, incidental, special, or consequential damages resulting from any defect or omission in this manual. Furthermore, the technical information contained in documents on the MSQ-1300CP's features and specifications is subject to change without further notice.

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