

EZ Streamer Model 100

User's Manual



Ref: 100-5312020-A

PIO Tech

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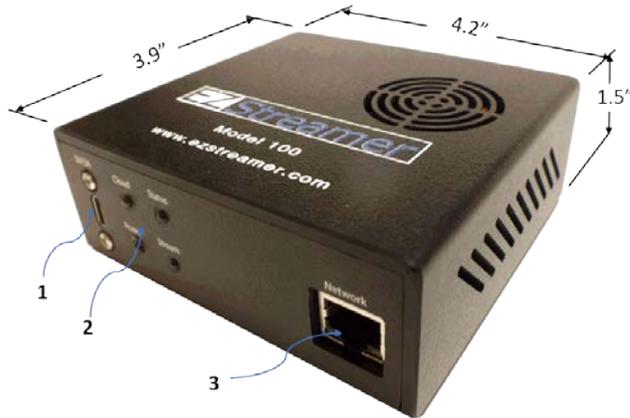
<https://www.ezstreamer.com/>
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Overview

EZ Streamer Model 100 dedicated RTSP live streaming encoder. Connect any IP camera with H.264 compression and supports RTSP protocol (Real-Time Messaging Protocol). Stream to any streaming player service supporting RTMP (Real-Time Messaging Protocol) such as YouTube, Facebook Live, and Twitch.

The EZ Streamer can encode up to four IP cameras at once live streaming up to Quad HD 1440P resolution and/or simulcast your live event simultaneously to four different platforms. Easily set up and change the settings on your EZ Streamer through our ez-streamer.com Cloud Portal. Modify the IP camera RTSP link address and RTMP server settings.

Specifications



Size: 3.9" x 4.2" x 1/5"

1: Micro UBS Power Connector 5V/3A

2: (4) Status LED's

3: RJ45 Gigabit Ethernet Port

What's Included



1. EZ Streamer Model 100 Encoder
2. 3.0A USB-C power supply
3. 1' Ethernet Cable

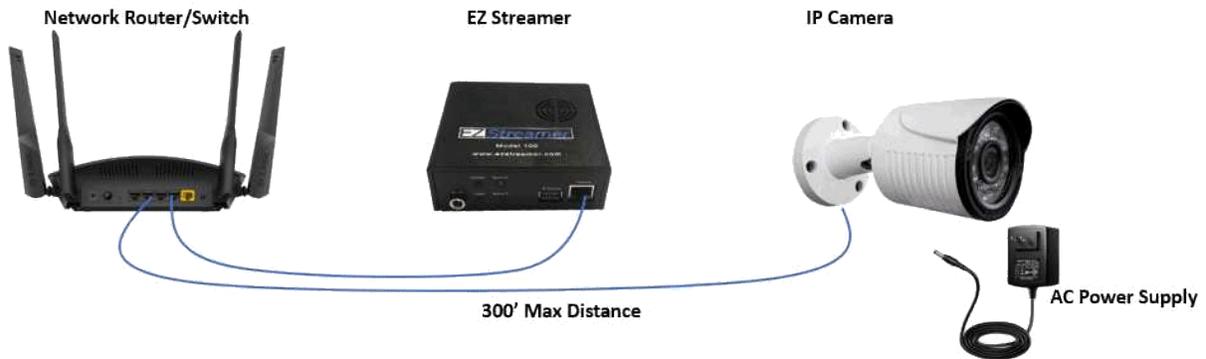
Compatible Cameras

The EZ Streamer Model 100 is compatible with IP Cameras (Internet Protocol Cameras) that support H.264 encoding and include the Real-Time Streaming Protocol (RTSP). IP cameras use either Ethernet cables or a Wi-Fi connection to connect to your local network. From there, the signal will be encoded by the EZ Streamer encoder to your live streaming service.

EZ Streamer Network Configurations

Basic Wired Live Streaming Camera System

This is one of the most basic set ups using the EZ Streamer and a security/IP Camera to live stream your webcam to YouTube and/or Facebook Live. Simply connect the EZ Streamer to your router or a network switch on your network. Next, run an outdoor rated CAT6 Ethernet cable from your router or switch to the IP camera. You will also need to power the IP camera using this configuration. The Ethernet cable can't be any longer than 300'. Once the systems are wired configure your EZ Streamer on the EZ Streamer portal and you're live.



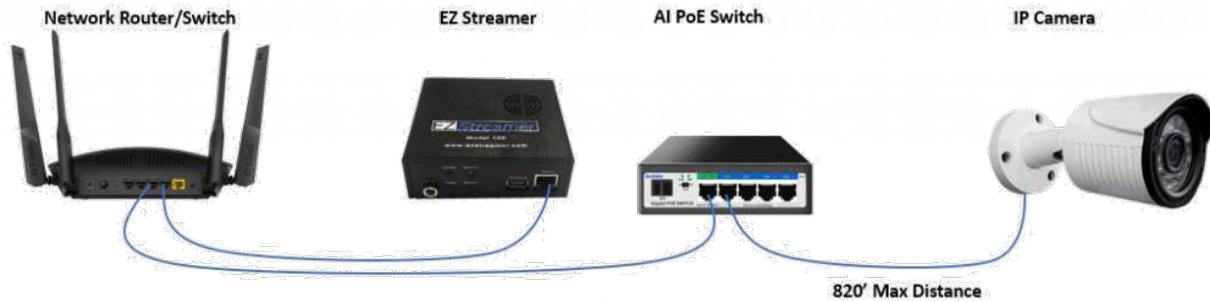
Basic WiFi Live Streaming Camera System

This is second most basic set up's using the EZ Streamer and a WiFi security/IP Camera to live stream your webcam to YouTube and/or Facebook Live. First, connect the EZ Streamer to your WiFi router or network switch. Next, install our WiFi IP camera within wireless range of your WiFi router and plug the AC power outlet into your camera. Once the systems is wired configure your EZ Streamer on the EZ Streamer portal and you're live.



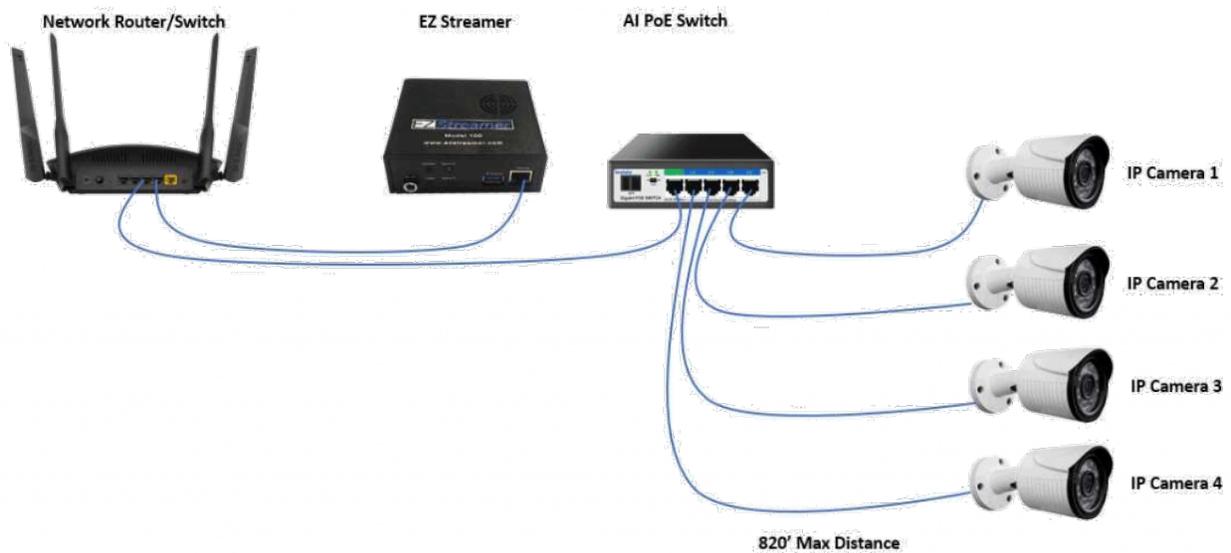
PoE (Power over Ethernet) Wired Live Streaming Camera System

This configuration is the same as Configuration 1 other than now we are installing a PoE (Power over Ethernet) AI switch. The PoE switch will eliminate the need for the camera power supply. This simplifies the install since the camera will be powered using the Ethernet cable. Note, your IP camera must be a PoE type IP camera. The "AI" PoE switch will extend the maximum length of the Ethernet cable from 300' out to 820'.



Multiple PoE Wired Live Streaming Camera System

This configuration is exactly like Configuration 3 only it demonstrates the expandability of the set up. Since the EZ Streamer can support encoding up to 4 cameras at once to YouTube or Facebook Live you can install three more cameras to the system as the configuration diagram shows.



Register Your EZ Streamer Model 100 System

When you receive your EZ Streamer unit you will have to register the system on the EZ Streamer cloud. Got to this link: <https://www.ez-streamer.com/myezstreamerweb/admin/login>

Enter the UDI number from the EZ Streamer unit and press the “Register New User” button. If you already have an account, you do not need to do that again.



Log into the EZ-Streamer.com Portal

The EZ Streamer Cloud Portal is a web-based device management system for the EZ Streamer encoder. This can be accessed from any browser to modify the EZ Streamer settings, monitor the health of the live streams, add/modify IP camera links, and set your RTMP live streaming player service.

Dashboard

The dashboard displays a quick overview of the activated EZ Streamer encoders and what streams are running on each individual encoder. Streams running will have a green colored camera icon and streams not running will have a red colored camera icon. The EZ Streamer cloud will check all streams every minute for stream health and update the dashboard automatically.

A screenshot of the EZ-Streamers dashboard. At the top, there is a navigation bar with "Home", "Super Admin", the EZ Streamer logo, and "Logout". Below the navigation bar is a table titled "EZ-Streamers". The table has columns for "Serial Number", "Location", "Network", "Interface", "Stream Status", and "Config". The "Stream Status" column contains icons representing the status of each stream: a green camera icon for running streams and a red camera icon for non-running streams. The table lists 12 encoders with their respective locations and stream statuses.

Serial Number	Location	Network	Interface	Stream Status	Config
000001	Marketing Unit				
000003	Old Boxes 5-9				
000004	BF2, BF2 Bottom, WL2, WL3				
000005	BB1 - Field - Hays - Owl PTZ				
000006	Elk 1, Elk 2				
000007	K1, K2, OSP				
000008	MCP, BB 5, BF1, WL1				
000009	Old Boxes 1-5				
000010	Fox Den Cam				
000012	Traffic Cam Demo				

Device Configure

When configuring the EZ Streamer encoder you can set up an unique name for the encoder under the "General" tab.



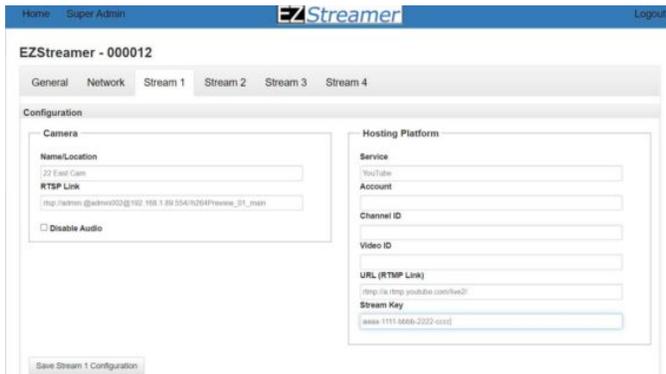
The screenshot shows the EZStreamer configuration interface for device 'EZStreamer - 000012'. The 'General' tab is selected. There are two main input fields: 'Location' with the value 'Traffic Cam Demo' and 'Notes'. A 'Save General Configuration' button is located at the bottom left.

Stream Configure

The "Stream" tab is where the live streaming encoder settings are set.

The RTSP Link box is where you enter the RTSP IP Camera link. The format of the RTSP link is typically provided by the IP Camera manufacturer. You can also visit <https://www.ispyconnect.com/cameras> for help finding the RTSP link of your IP camera.

The RTMP Link and Stream Key settings are provided by the RTMP streaming service you are encoding the live stream to.



The screenshot shows the EZStreamer configuration interface for device 'EZStreamer - 000012', with the 'Stream 1' tab selected. The 'Configuration' section is divided into two columns. The left column, 'Camera', includes fields for 'Name/Location' (22 East Cam), 'RTSP Link' (rtsp://admin:admin@192.168.1.89:3543/204?view_01_main), and a 'Disable Audio' checkbox. The right column, 'Hosting Platform', includes fields for 'Service' (YouTube), 'Account', 'Channel ID', 'Video ID', 'URL (RTMP Link)' (http://a.http.youtube.com/live/2), and 'Stream Key' (aaaa-1111-aaaa-2222-aaaa). A 'Save Stream 1 Configuration' button is at the bottom left.

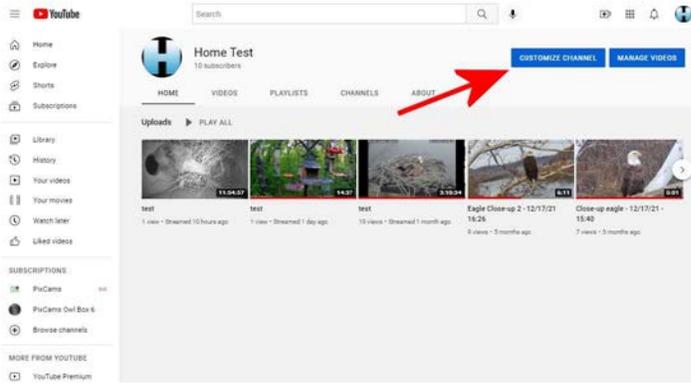
Stream Health

The EZ Streamer cloud will monitor each stream of the EZ Stream encoder once a minute and record the live stream frame rate and bit rate and update the Historical Data graph. The Historical Data graph will display the last 48 hours of stream health.

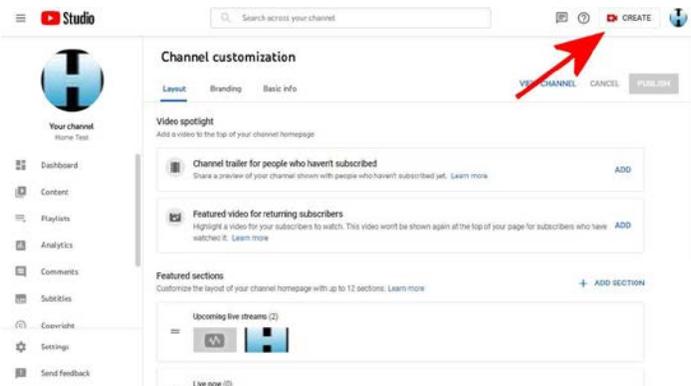


Live Streaming to YouTube

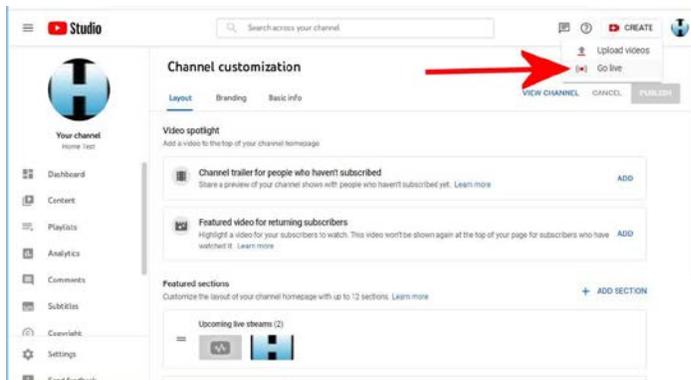
First, go to your YouTube channel. If you do not have a YouTube account, you will need to create one first. After you log into your YouTube channel press the “CUSTOMIZE CHANNEL” button.



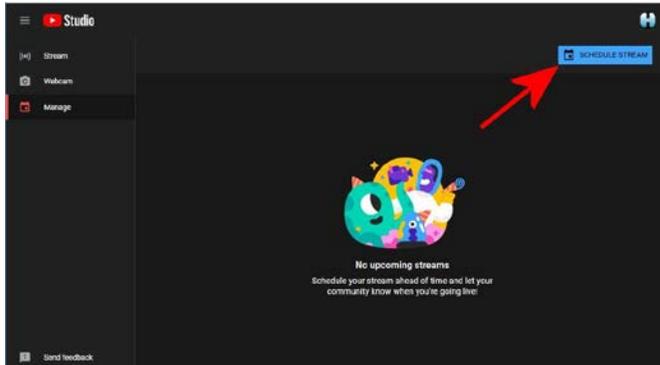
Next, press the “CREATE” button.



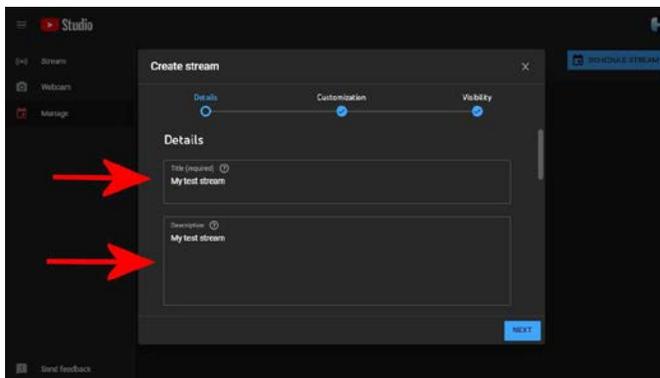
Select the “Go Live” option



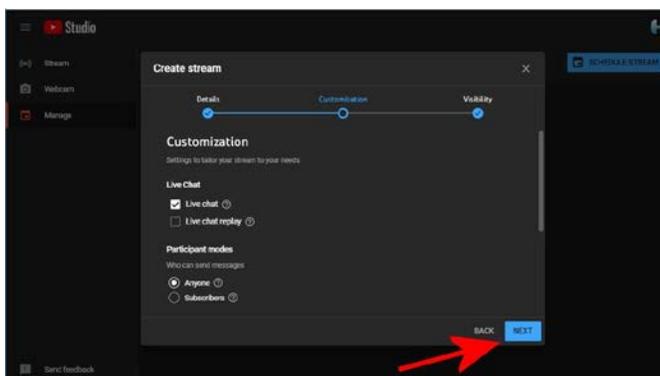
Next, press the “SCHEDULE STREAM” button



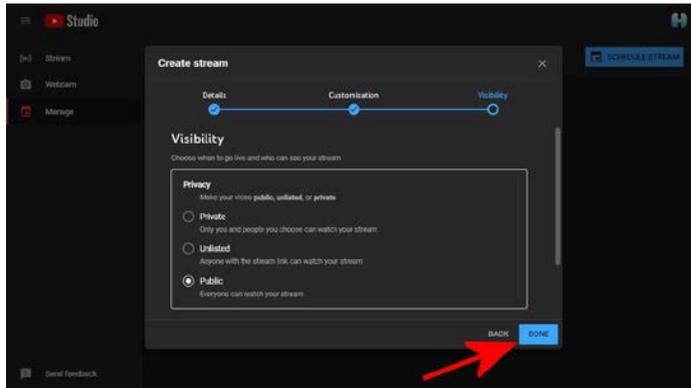
Enter the Stream Details of the Title and Description, once complete press the “NEXT” button.



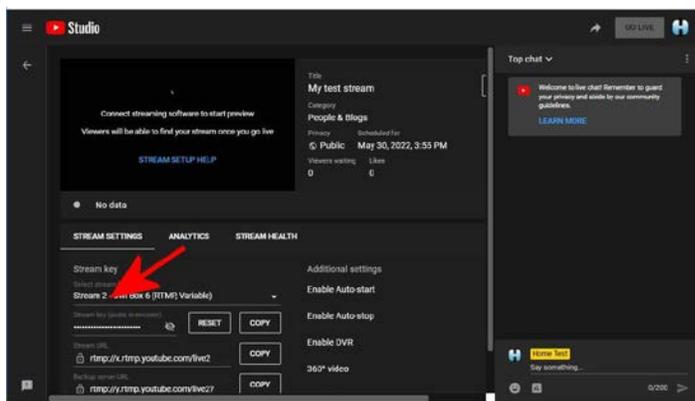
Enter the Stream Customization details and press the “NEXT” button when complete.



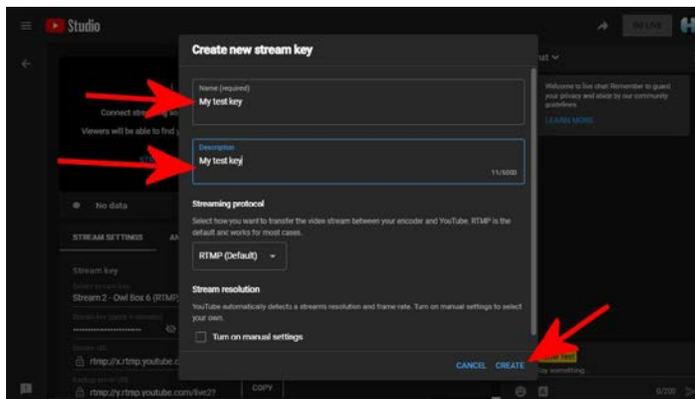
Enter the Visibility details and press the “DONE” key when complete.



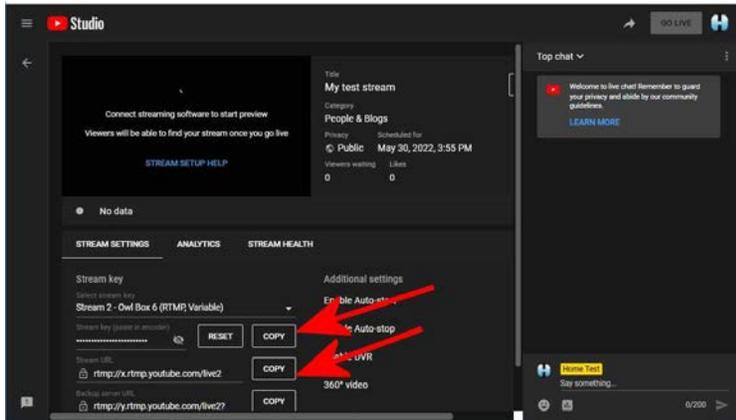
Select the “Stream Key”



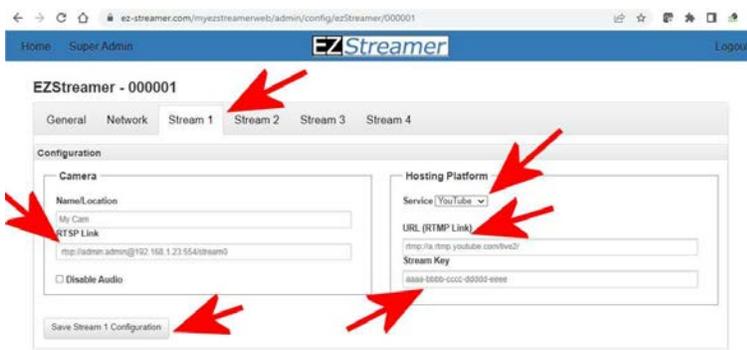
Create a new stream key and enter the title and description, then press the “CREATE” button.



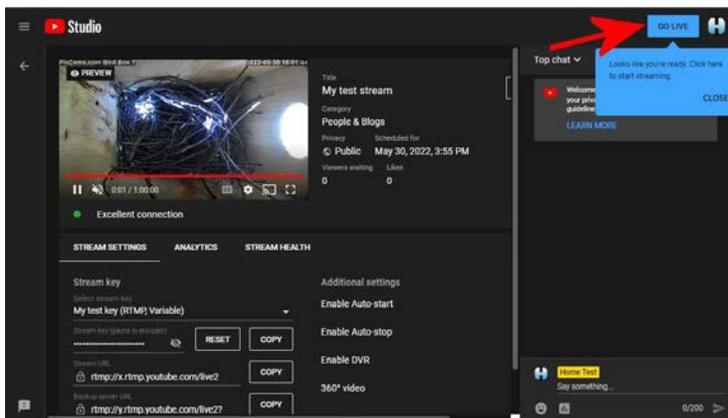
Once complete you need to copy the “Stream Key” and “Stream URL” and past those into your EZ Streamer Stream Portal.



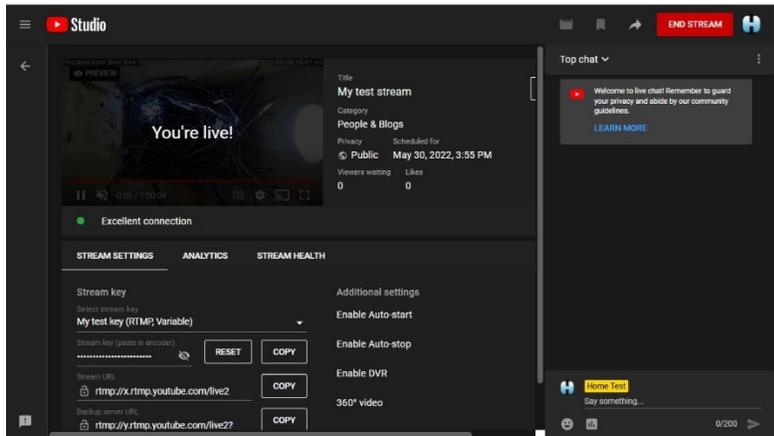
Go to the EZ Streamer Portal and select the “Stream 1” tab. Enter the RTSP LINK of your IP camera, enter the YouTube Stream URL into the “URL (RTMP Link) box, and enter your YouTube Stream key into the “Stream Key” box, then select “YouTube” from the Service drop down menu. When complete press “Save Stream 1 Configuration”.



Once you hit the Save Configuration button go back to your YouTube page. You should see the live stream. Press the “GO LIVE” button.

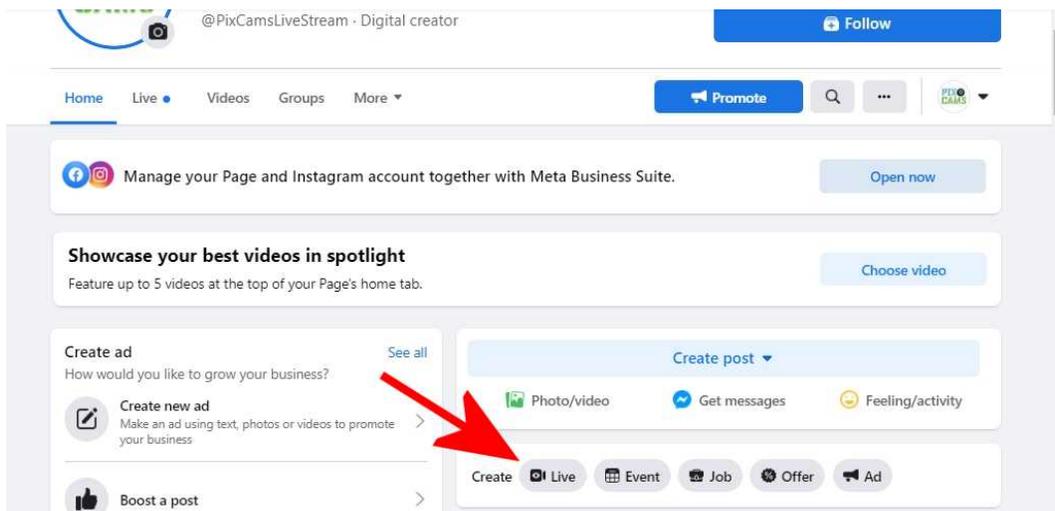


You're Streaming!

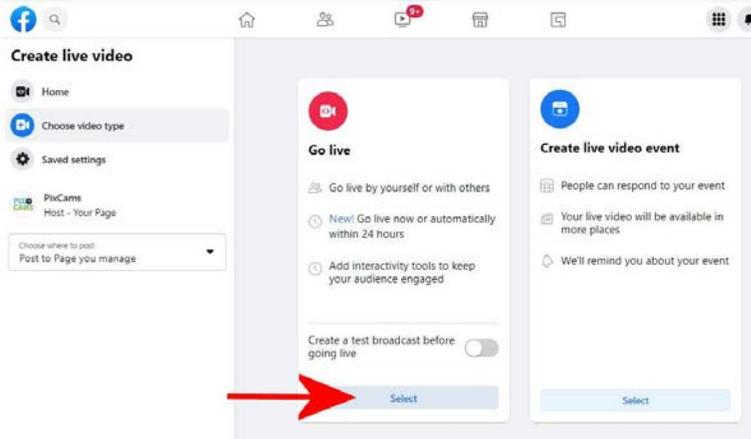


Live Streaming to Facebook LIVE

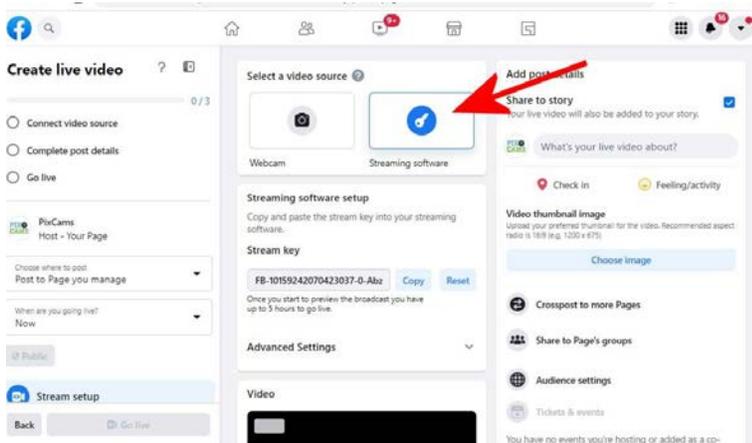
Go to your Facebook page. If you do not have a Facebook account, you will need to create one. Press the "LIVE" button from the Create box on your dashboard.



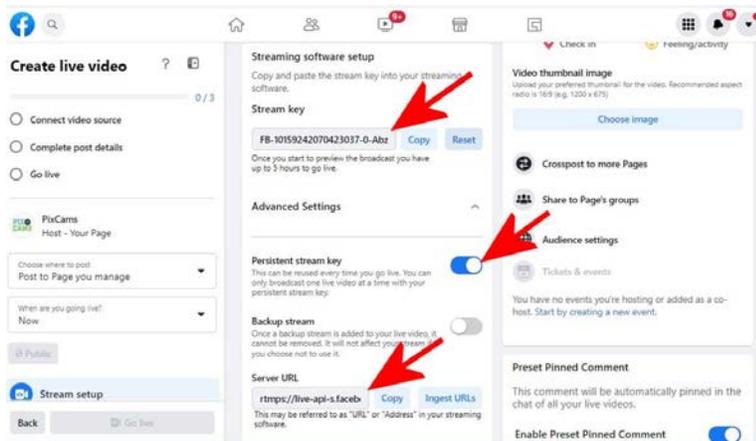
In the Go Live box press the “Select” button.



Select the “Streaming Software” button.



Copy the “Stream Key” and “Stream URL”, and set the Persistent stream key option if you want to keep the stream key for future streams without having to set up the Facebook Live Stream option.



Go to the EZ Streamer Portal and select the “Stream 2” tab. Enter the RTSP LINK of your IP camera, enter the Facebook Stream URL into the “URL (RTMP Link) box, and enter your Facebook Stream key into the “Stream Key” box, then select “Facebook” from the Service drop down menu. When complete press “Save Stream 2 Configuration”.

