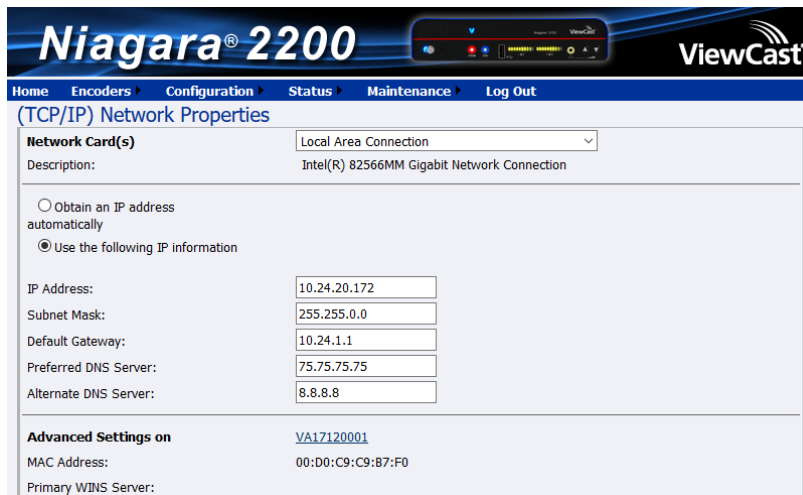


How to Stream to Facebook with the Niagara Encoders

This applies to Niagara 2200, 4100, 7550, 9100 series, GoStream A and Gostream H/S series encoders

- The encoder must have Internet access. This means that a default gateway must be configured if you are manually configuring the **Network Properties**.
- The encoder must have at least one DNS server configured. In all encoders, DNS can be configured in the **Network Properties** menu:

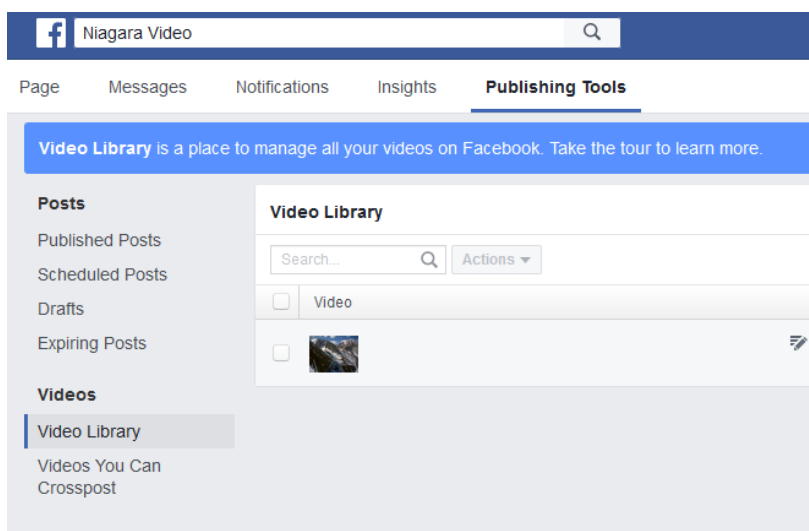


The screenshot shows the 'Niagara 2200' WebUI interface. The top navigation bar includes 'Home', 'Encoders', 'Configuration', 'Status', 'Maintenance', and 'Log Out'. The main content area is titled '(TCP/IP) Network Properties'. It features a dropdown menu for 'Network Card(s)' set to 'Local Area Connection', with a description of 'Intel(R) 82566MM Gigabit Network Connection'. Below this, there are radio buttons for 'Obtain an IP address automatically' (unselected) and 'Use the following IP information' (selected). The IP configuration fields are: IP Address (10.24.20.172), Subnet Mask (255.255.0.0), Default Gateway (10.24.1.1), Preferred DNS Server (75.75.75.75), and Alternate DNS Server (8.8.8.8). At the bottom, there is an 'Advanced Settings on' link (VA17120001) and fields for MAC Address (00:D0:C9:C9:B7:F0) and Primary WINS Server.

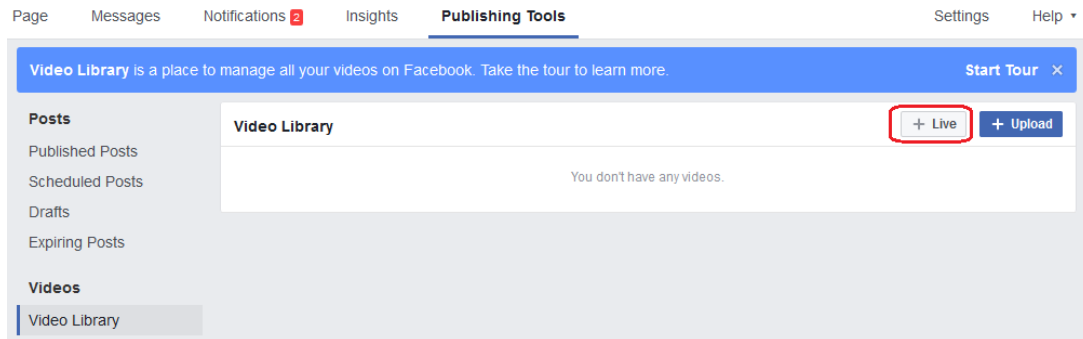
If you use DHCP (Obtain an IP address) then you don't need to manually configure this.

The steps are:

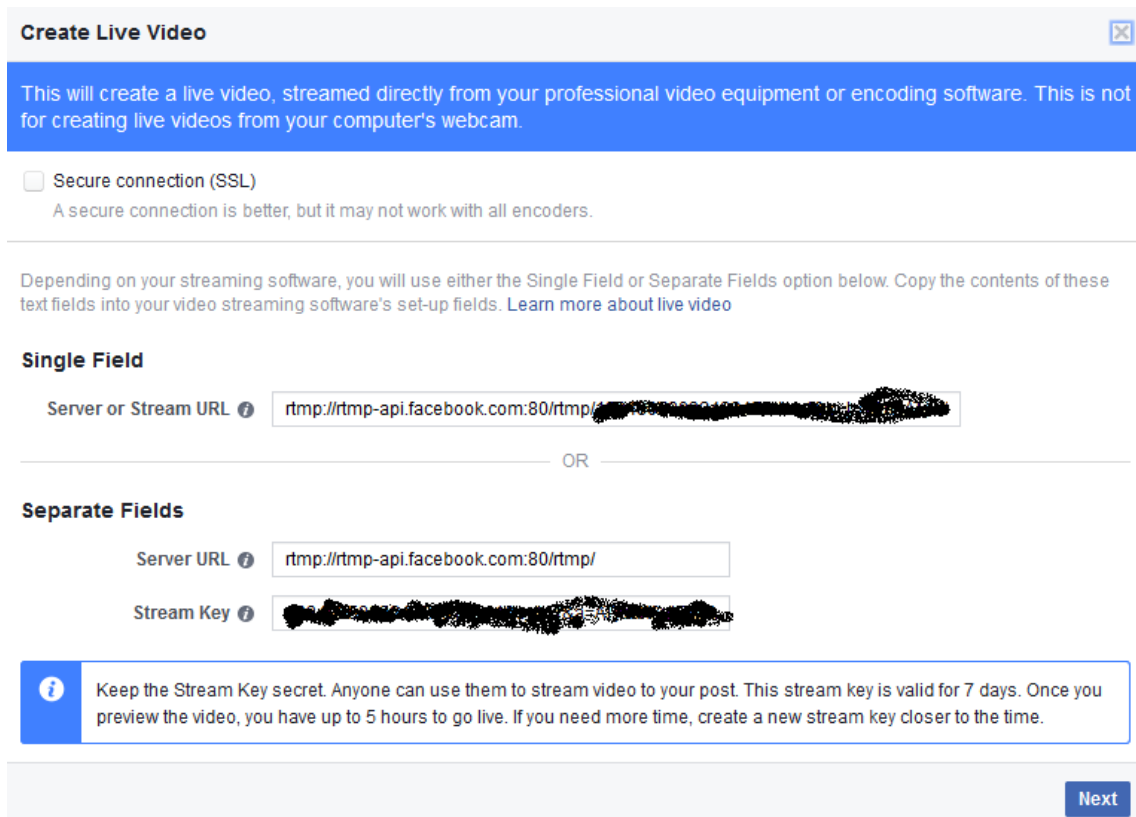
1. Select the **Publishing Tools** link at the top of the Facebook page, this means that you need to first set up a "page" if you haven't done so:



2. Select the **Video Library** link on the left:
3. Click on the **+Live** button at the right top:



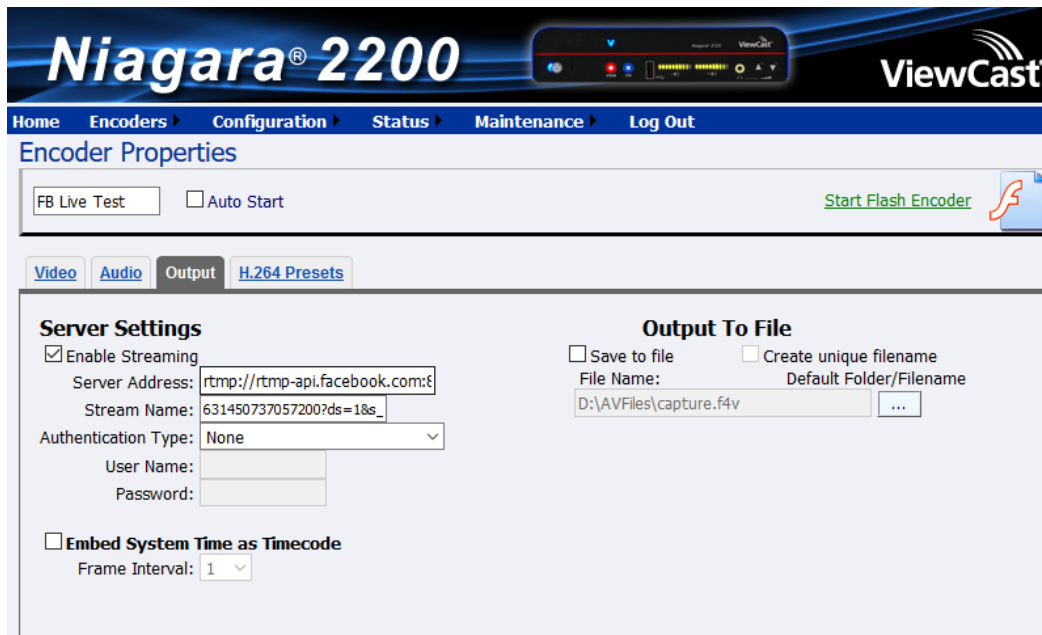
4. The following window opens. The “stream key” is the “password” to access your Facebook live publishing point – it has been obscured below.



5. Encoding Parameters

- Use progressive frames only
- Maximum Resolution is 720p, 4 Mbps maximum bit rate, H.264 only
- Audio should be set at 128 kbps, AAC only

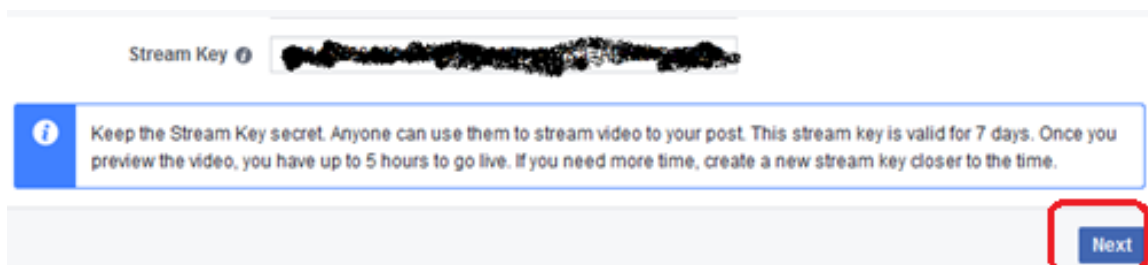
6. Create a Flash Encoder (ours is called FB Live Test) and configure the output as shown:



The screenshot shows the Niagara 2200 ViewCast web interface. The top navigation bar includes Home, Encoders, Configuration, Status, Maintenance, and Log Out. The main content area is titled 'Encoder Properties' and shows the encoder name 'FB Live Test' and an 'Auto Start' checkbox. A 'Start Flash Encoder' button is visible. Below this, there are tabs for Video, Audio, Output, and H.264 Presets. The 'Output' tab is selected, showing 'Server Settings' and 'Output To File' sections. The 'Server Settings' section includes 'Enable Streaming' (checked), 'Server Address' (rtmp://rtmp-api.facebook.com:8), 'Stream Name' (631450737057200?ds=1&s_), 'Authentication Type' (None), 'User Name', and 'Password' fields. The 'Output To File' section includes 'Save to file' (unchecked), 'Create unique filename' (unchecked), 'File Name' (D:\AVFiles\capture.f4v), and 'Default Folder/Filename' (D:\AVFiles\capture.f4v). There is also an 'Embed System Time as Timecode' checkbox and a 'Frame Interval' dropdown set to 1.

- Copy the Server Key into the **Server Address** field
- Copy the stream key into the **Stream Name** field.
- Click on **Start Flash Encoder** or **Save** the settings first and then start this encoder. Starting the Flash Encoder will save the settings so this is quicker.

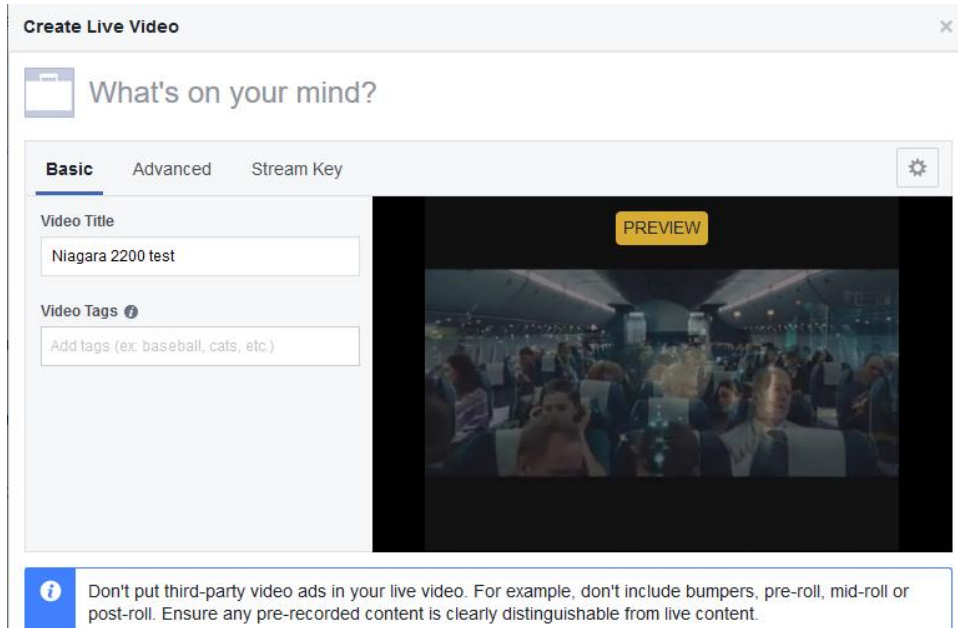
7. Go back to the Facebook screen and click on **Next**:



The screenshot shows the Facebook Stream Key screen. It features a 'Stream Key' field with a blurred key. Below the field is a blue information box with a white 'i' icon and the text: 'Keep the Stream Key secret. Anyone can use them to stream video to your post. This stream key is valid for 7 days. Once you preview the video, you have up to 5 hours to go live. If you need more time, create a new stream key closer to the time.' A blue 'Next' button is located at the bottom right of the screen, highlighted with a red square.



8. You should now see your video, after a few seconds:



9. Click the **Go Live** button above.

IMPORTANT NOTE: The stream key changes every time you access this interface, and expires in 5 hours. If the stream key is no longer valid, the encoder will fail to connect. Always make sure that you are using the current stream key.