

Livestream Studio 6 Settings for Foveo

Recommended live streaming settings for Foveo

Purpose: This guide gives the recommended settings for using this tool with Foveo live streaming. The goal is a stable input for Foveo and Cloudflare.

1. Recommended settings

Setting	Recommended value	Notes
Protocol	RTMP or RTMPS if the client supports it	Use the Foveo server URL and the Foveo camera stream key. Do not stream to the software vendor platform unless it is only used as a relay.
Video codec	H.264 AVC	Do not use H.265 HEVC over RTMP. It is not safe for this flow.
Audio codec	AAC LC	48 kHz stereo at 128 Kbps is the safe target.
Resolution	1280 x 720	Use 1080p only after a stable test with enough upload bandwidth. Avoid 4K.
Frame rate	30 fps	Avoid 60 fps unless there is a strong reason and the network is proven stable.
Rate control	CBR	If the tool only has Auto or VBR then set a ceiling and test with Foveo preflight before the event.
Video bitrate	3000 Kbps for 720p	Use 2000 to 2500 Kbps on weak connections. Use 4500 to 6000 Kbps for 1080p only if stable.
Keyframe interval	2 seconds	Use a fixed value. Do not use Auto or Variable. Use 4 seconds only if the customer still sees buffering.
Reconnect	Enabled	Retry every 2 to 5 seconds. Use many attempts or unlimited reconnect.
Network	Wired Ethernet	Wi-Fi and cellular can work but they are common causes of short disconnects.
Antilag	On for low latency	Turn it off only if the encoder queue keeps clearing and terminating the stream.
Local recording	On	Keep a local backup for support and recovery.

2. Setup steps

1. Open Livestream Studio.
2. Open the Stream tab.
3. Select RTMP as the streaming protocol. Use RTMP also when the destination supports RTMPS.
4. Enter the Foveo stream title if the field exists.
5. Set the streaming quality to a custom 720p profile if available.
6. Paste the Foveo server URL in the URL field.
7. Paste the Foveo camera stream key in the Stream Key field. If Studio only accepts one URL, use the full RTMP URL with the key at the end.
8. Open the gear icon and go to Settings then Streaming.
9. Enable hardware encoding if the PC supports it.
10. Set keyframe interval to 2 seconds.
11. Use 30 fps streaming mode.
12. Click Go Live and check the log panel for outgoing frame rate, bitrate, or error messages.

3. Pre-event test

13. Start the encoder at least 10 minutes before the event.
14. Open the Foveo admin or director page and confirm that the camera is publishing.
15. Run the Foveo camera quality check.
16. Confirm that bitrate is close to the selected value.
17. Confirm that GOP or keyframe interval is around 2 seconds.
18. Confirm that FPS is 30 and resolution is 1280 x 720.
19. Confirm that audio is detected as AAC with 48 kHz when possible.
20. Start the broadcast only after the test is stable.

4. What to do if it disconnects

- Lower video bitrate to 2500 Kbps and test again.
- If buffering continues, test a fixed 4 second keyframe interval.
- Switch from Wi-Fi to wired Ethernet.
- Restart the encoder and the router only if the issue continues.
- Check the encoder log for dropped frames, reconnect messages, or CPU overload.
- Send screenshots of the output settings to the Foveo support team.

5. Important notes

- Livestream Studio has an encoder queue setting. If the queue fills and the stream terminates, the issue is usually bandwidth or CPU pressure.
- The log panel is important. It can show outgoing bitrate, outgoing frame rate, and potential issues.