

# System requirements for encoder broadcasts

For events with **Your Encoder** as the live acquisition source. This article details the system requirements for broadcasting a Live event or recording a Simulated Live event with an encoder.

To join the Live Studio and moderate or present, your system must meet the following minimum system and hardware requirements. At least 48 hours before the event, [run the system test](#) with the hardware and network you will use on the day of the event.

If you're unable to open the Live Studio, access might be blocked by a firewall or your company network security rules. Review our [network requirements](#) and make sure the ports and IP ranges in the Webcast Presenters - Video Events column are permitted. If you're unsure of your settings, contact your IT Administrator.

## Live Studio Requirements

If you're joining the Live Studio as a moderator or presenter, your system must meet the following requirements.

What you need	Moderators and Presenters
Hardware	PC or Mac <b>Note:</b> Your computer must be plugged in and have a sound card with speakers and a monitor with 1024x768+ resolution support.
Operating System	<ul style="list-style-type: none"><li>• Windows 10</li><li>• Windows 8.1 Pro or newer</li><li>• macOS 10.14 or newer</li></ul>
Processor (CPU)	Intel Core i5 3.0GHz or better <b>Note:</b> Less powerful processors will degrade audio and video performance.
Memory (RAM)	4 GB

What you need	Moderators and Presenters
Browser	<p>Current or previous 5 versions of:</p> <ul style="list-style-type: none"> <li>• Google Chrome</li> <li>• Firefox</li> <li>• Microsoft Edge</li> <li>• Safari (Mac devices only)</li> </ul> <p><b>Note:</b> Safari is not supported for screen sharing.</p>
Internet Speed	<p>A dedicated and wired high-speed internet connection of 3 Mbps or better (upload and download)</p> <p><b>Note:</b> To ensure a stable connection, disconnect from the VPN and use a wired internet connection, instead of Wi-Fi. Wi-Fi connections are prone to dips in bandwidth that can negatively impact your video connection.</p>

## Broadcasting Requirements

A moderator must join the Live Studio to connect the encoder to the event, start the event, manage event content and Q&A, and end the event. Presenters that will be presenting content must also join the Live Studio.

To broadcast with an encoder, your must:

- Have a dedicated connection with bandwidth that consistently exceeds the bit rate you are transmitting. For example, if you are streaming at 600 Kbps we recommend a dedicated connection of at least 1.2 Mbps. If you're using an active backup encoder, the bandwidth requirements should be doubled.
- Have a hardware and software package capable of encoding live video streams delivered using the Real Time Messaging Protocol (RTMP). Your PC must permit either the RTMP (TCP over port 1935) or RTMPT (over port 80) live streaming protocol or both.
- Support H.264 (Video) / AAC (Audio) configurations

- For 720p broadcasts, have HD encoding software installed (for example, Wirecast, OBS, or vMix)

**Notes:**

- To prevent the media playback from freezing and requiring a stream refresh, corporate users behind proxy servers should make sure their network settings don't time out on RTMPT requests. If you're unsure of your settings, contact your IT Administrator.
- If you are using an active backup encoder during a live webcast the bandwidth requirements discussed above should be doubled.
- Be conscious of your target audience's bandwidth capabilities when broadcasting at higher bit rates.

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