

## Release Notes

### **System Requirements**

	<b>Minimum</b>	<b>Recommended</b>
<b>Operating System</b>	Windows 10 1809 or higher, macOS Mojave 10.14 or higher	Windows 10 2004, macOS Big Sur 11
<b>Processor</b>	Intel i5 dual-core @ 2.3GHz <sup>1</sup> 6th generation <sup>2</sup> or higher, Apple M1	Intel i7 quad-core @ 2.8GHz+, 6th generation <sup>2</sup> or higher, Apple M1
<b>Memory</b>	4GB RAM	16GB+ RAM
<b>Hard Drive</b>	2GB <sup>3</sup> , 7200 RPM for record to disk	500GB+, Solid State OS Drive
<b>Graphics Card</b>	Intel HD <sup>4</sup> , DirectX 11 capable	Nvidia GeForce or AMD Radeon, 1GB+ video memory
<b>Internet Connectivity</b>	You may want to check that the following ports are open for traffic on your network: 80 (HTTP/HTTPS), 443 (SSL), 1935 (RTMP), 2935 (RTMPS), 5353 (mDNS for NDI sources), 5960-59xx (NDI port range, 1 port per each NDI source in use), 7272 ( <a href="#">Remote Desktop Presenter</a> ), 50000-60000 (WebRTC/Rendezvous – selected at random). If you are behind a firewall, check with your streaming destination for any sites you may need to whitelist.	

<sup>1</sup>May be insufficient for 1080p+ or 60 fps workflows.

<sup>2</sup>[How to check the generation of your Intel processor](#)

<sup>3</sup>Additional hard disk space required for record to disk.

<sup>4</sup>Insufficient for advanced Multi-Viewer workflows.

### **Languages Supported:**

- English
- German
- Italian
- Brazilian Portuguese
- Chinese (Simplified)
- Japanese
- Korean
- Czech
- Dutch
- French
- Spanish
- Swedish

### **Upgrade Information:**

- An internet connection is recommended for Wirecast 14 license activation.
- As long as your Wirecast (version 8 or higher) license is entered into the software and your Basic, Standard or Premium support subscription is active, you will be allowed to upgrade to the latest unlocked version of Wirecast for free.
- View [full upgrade information](#)

### **Add-ons:**

- **Remote Desktop Presenter** - Please use the Remote Desktop Presenter version 2.0.8, available as a separate download from Telestream: [www.telestream.net/dtp](http://www.telestream.net/dtp)
- **PLEASE NOTE: Wirecast 9 and later versions have dropped support of HDV licenses/cameras.** [Please click here for additional information.](#)

## **Best Practices**

### **Minimum Required Upload Speed:**

- It is recommended that an upload speed rate of at least double the selected video bitrate be available, especially for a total target bitrate of 10Mbps (Megabits per second) or less, or when there are multiple outgoing streams.
- Upload speed can be tested at a website such as [TestMy.net/upload](https://TestMy.net/upload).
- Additional tasks that can consume upload bandwidth on the network should also be considered when determining how much of the available upload bandwidth can be allocated towards streaming.

### **Rendezvous**

Wirecast Rendezvous uses WebRTC technology that can be very resource intensive. For the best experience, we suggest considering the following table when choosing hardware:

	<b>Studio (2 guests + 1 host)</b>	<b>Pro (7 guests + 1 host)</b>
<b>Bandwidth<sup>5</sup></b>	Add 4 Mbps	Add 5+ Mbps <sup>6</sup>
<b>Processor<sup>5</sup></b>	i5 quad-core <sup>7</sup>	i7 quad-core <sup>7</sup>

<sup>5</sup> Based on a single simultaneous stream of 720p30 x264 @ 4.0Mbps.

<sup>6</sup> Bandwidth per guest will scale downwards as more are added to maintain reliability.

<sup>7</sup> Minimum recommended processor with example stream<sup>4</sup>. More demanding workflows may require a more capable CPU.

See our [Rendezvous Best Practices Guide](#) for more information.

### **ISO Recording:**

- Solid State Drive or fast RAID array recommended for ISO Recording and Replay functionality.
- Actual data rates will vary depending on quality level selected for ProRes or x264, as well as the resolution and frame rate selected.
- For ProRes recording please refer to [Apple's ProRes data rate specifications](#).
- Total expected data rate should be compared to available disk write speed to ensure adequate disk throughput.

***Failure to ensure the available disk write speed is greater than the highest expected total data rate may result in frames being dropped from recordings (ISO, Replay, and Record-to-Disk).***

See our [ISO Recording Guide](#) for more information.

### **Best Practices (cont.)**

#### **Hardware accelerated encoding requirements:**

- Intel Quick Sync Video encoding requires an Intel CPU with an Intel® QuickSync Video core.  
[List of Intel CPUs supporting QuickSync](#)
- NVIDIA NVENC encoding requires an NVidia GPU with Kepler architecture or newer.  
[NVIDIA only maintains a general list of supported GPUs](#)
- Apple Hardware Accelerated H.264 encoding requires a Mac with an integrated Intel GPU\*.
  - *\*This may change in the future, as the Apple API decides what hardware acceleration method is to be used. At the time of this writing, only Quick Sync via an Intel GPU is supported.*

#### **High frame-rate streaming (60fps):**

- High frame-rate streaming will result in increased CPU usage and require a higher bit rate (4Mbps or higher) for a quality encode.
- Simply switching to a higher frame-rate without ensuring the CPU and bitrate are sufficient may result in a lower quality encode.

#### **CPU Usage:**

- Consider lowering your canvas frame rate and/or streaming resolution to lower CPU usage.
- Maintained system CPU usage greater than 60% will increase the likelihood of dropped frames.

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## Wirecast **BETA** 14.3

- **New! Title Engine** – New library of animated titles! Choose from over 25 (with more on the way!) high quality, customizable animated titles. Add your logo, change colors and fonts, and adjust timing of animations.
- **New! Media Playback in Live window:** Play, pause and scrub media clips while they are Live.
- **New! Secondary Display Live Output Audio mapping:** New ability to map Audio Tracks to Secondary Display Live Output.
- **Improved: Countdown Clock additions:** Added 60+minute display in Countdown Clock.
- **Improved: Media File location:** Now you can access the original file location of a media file from the context menu on the Shot Layers tab.
- **Improved: Wirecast virtual microphone monitoring on Windows:** We now really do allow monitoring of Wirecast Virtual Microphone audio on Windows 10.
- **Improved: In/Out point selection:** Now you have text fields to precisely edit in & out point times of media.
- **Improved: Trace Logs:** For better information when diagnosing issues.
- **Updated: AVFoundation Sources:** Made fundamental changes to the way we bring in AVFoundation sources on Mac which was important to enable future improvements.

### Fixes:

- WIRE-18976: Renamed old Title sources to Title (Legacy) (Note: you can find these under Deprecated Sources in the Add Source dialog window).
- WIRE-18945: Audio Mixer Audio Track selection is now saved.
- WIRE-18940: Wirecast no longer moves to a different monitor when Maximized->Minimized->Maximized on Windows OS.
- WIRE-18934: Shortcuts assigned to number now work on numpad again.
- WIRE-18890: Blackmagic SDI Input configuration will no longer get locked after switching from Automatic to Manual.
- WIRE-18878: Made iOS video capture on Apple Silicon and Mac work better.
- WIRE-18850: PTZ Preset Recall will now work more reliably when using a Playlist.
- WIRE-18813: Audio capture on Mac can now support various sample rates from the audio driver.
- WIRE-18811: The ticker collecting bandwidth statistics now stops after a Rendezvous session is disconnected.
- WIRE-18789: Now you can use PTZ controls with more than one Sony X-series PTZ camera in your document.
- WIRE-18758: We added a proxy image to let you know that you have overly HUGE files, and we are automatically downsizing them to a more appropriate size. This will only happen the first time you open an existing document.
- WIRE-18754: Upgraded to WebRTC to 4430 (m90)
- WIRE-18751: Fixed Window Screen Capture on Mac where in some instances it was unable to follow window changes.
- WIRE-18721: Fixed an issue where you couldn't activate a license if you had no internet connection.

- WIRE-18717: Transitioning between a shot with an audio source and a playlist with media no longer removes any of the Audio FX settings.
- WIRE-18692: MOV and MP4 recordings no longer have incorrect file creation date.
- WIRE-18679: Encoder preset dimensions now continue to update even after invalid dimensions are provided.
- WIRE-18659: Updated to work better in situations where we detect an audio sample rate that is different than what the source is telling us they are delivering. (This was particularly true for AVIPAS PTZ cameras)
- WIRE-18657: When you drag a shot onto another shot, now a warning message will appear giving you the option to 'cancel' or 'create' a playlist.
- WIRE-18634: Now, when you add media, you will be shown the location of your last imported media file.
- WIRE-18613: Fixed a crash that could occur after deleting an output destination.
- WIRE-18547: Fixed a crash when opening certain MPEG-4 Version 3 files.
- WIRE-18369: We reimplemented the ability to stream to Facebook using the Device Pairing workflow (which lets you stream to Facebook using a one-time stream key, rather than having to sign into a Facebook account)
- WIRE-17978: We now let you save your document when you have so many unused sources that need to be deleted, it takes up all the available window real estate.
- WIRE-17843: When switching back and forth to a playlist tab all your layers will retain their sizes.
- WIRE-17691: Update Facebook API to v10.0.
- WIRE-16880: Fixed an issue in Rendezvous where if browser didn't send any video, we would not send audio.
- WIRE-10914: Collect user data mode crash dumps on Windows.

### **KNOWN ISSUES for 14.3:**

- WIRE-18942: When using Quicksync encoding, Black lines will appear at the bottom of video output when the primary GPU is set to the Intel GPU. NOTE: This will affect Wirecast Gear 310 & 320. A fix is forthcoming - but be advised this is a known issue with this release.
- WIRE-18978/18979: There are some known animation issues when using the new animated Titles in Playlists.
- WIRE-18573: Mainconcept H.264 encoder is not supported on M1 systems.
- WIRE-18572: Unicast and Multicast Outputs are not supported on M1 systems.