

Zoom overview

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Generic overview of Zoom technology

- Zoom is a **commercial product**
- Based on **proprietary technology** (central servers in the Cloud, clients)
- **Client to install** available on **most devices**
- **Buy a license** to use the service
- A **fully on premises installation is not available**
- A **booking system** to create rooms
- Depending on the license you buy, usually **ok also for many 100+ users per room**
- Chat, participant list, moderator control, screen/file sharing, room lock, lobby, ...
- Easy user interface
- **Upcoming features? who knows!**

How Zoom looks like



Zoom equipment for Performing Arts

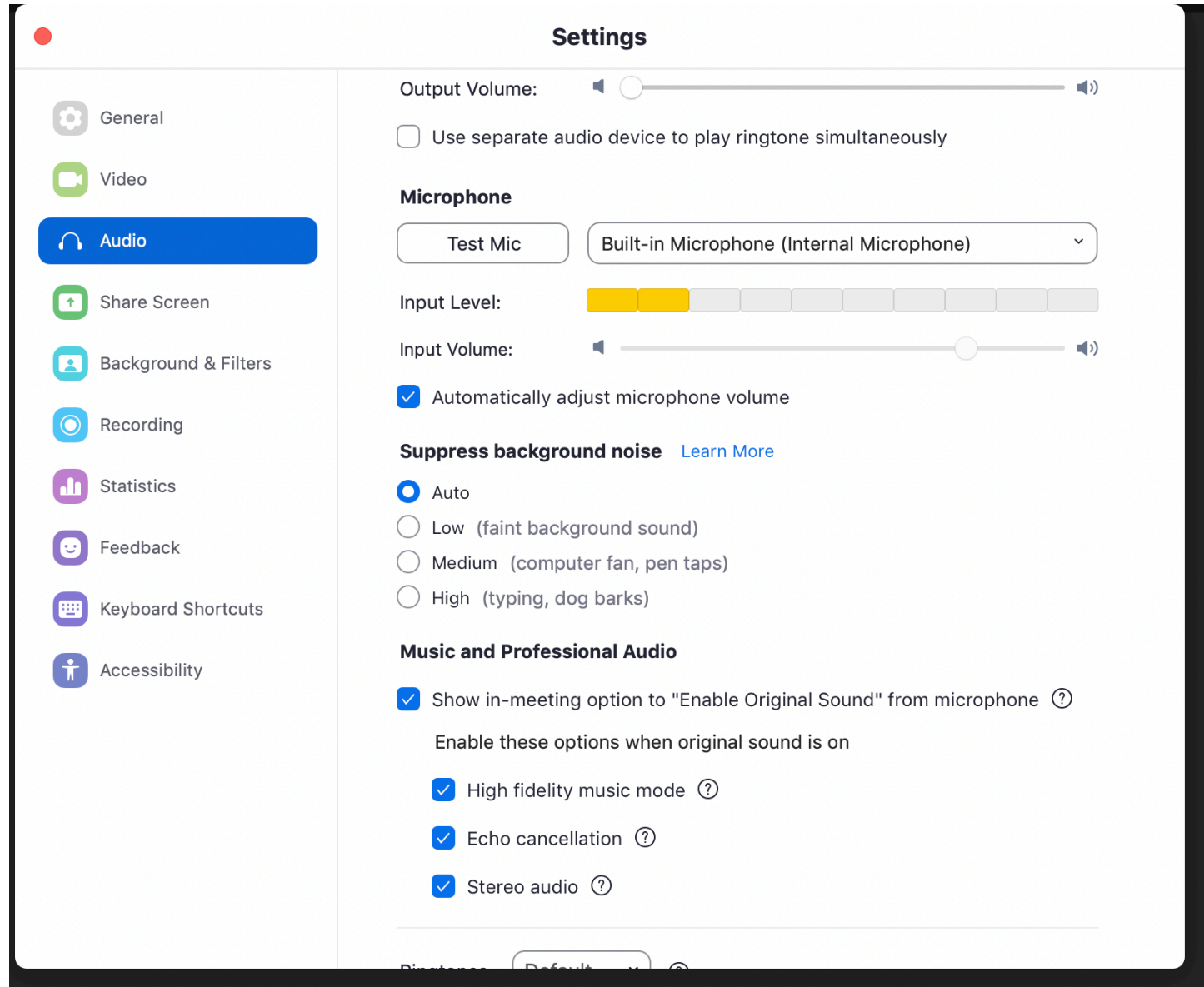
- A **compatible** PC / Mac / tablet / smartphone
- A **USB external microphone** with good audio spectrum response
- A **good headset** (or external loudspeakers)
- You can add **one external webcam** (tricky to show 2 webcams together)
- For 2 participants at 1080p video, **at least 1.5Mbps** upload / download network connection
- When possible, connect the **device via cable** to your router (no WiFi!)



Zoom features for Performing Arts

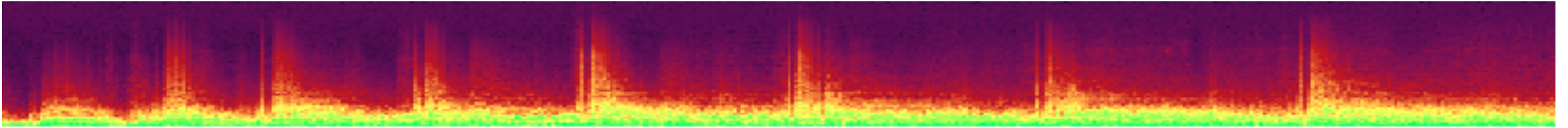
- Video resolution up to FullHD (1920x1080) **only for business or education licenses**
- Supports 2 webcams (with some tricks)
- Zoom «Original Sound» feature
- https://support.zoom.us/hc/en-us/articles/115003279466-Enabling-option-to-preserve-original-sound#h_7845b217-db22-44f5-9163-7978496d953f
- Disables Echo cancellation control
- Disable some «audio enhancements» features

Zoom enabling «Original Sound» option

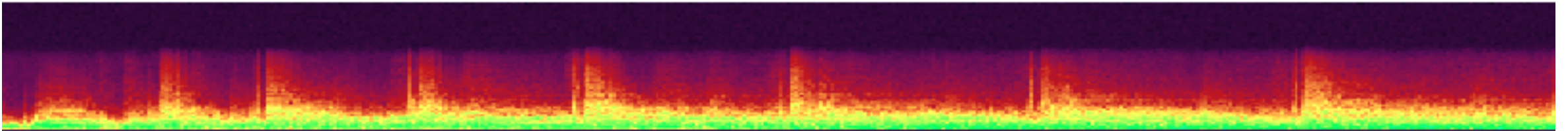


Audio Comparison Spectrograms

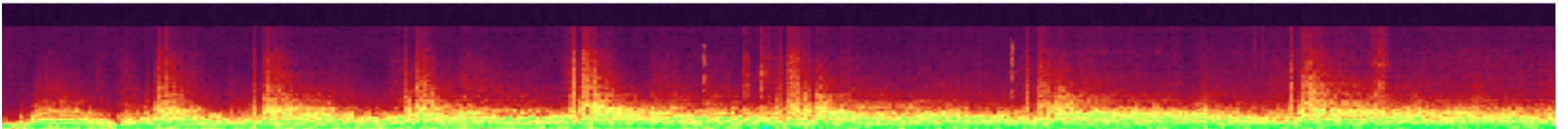
Original uncompressed audio



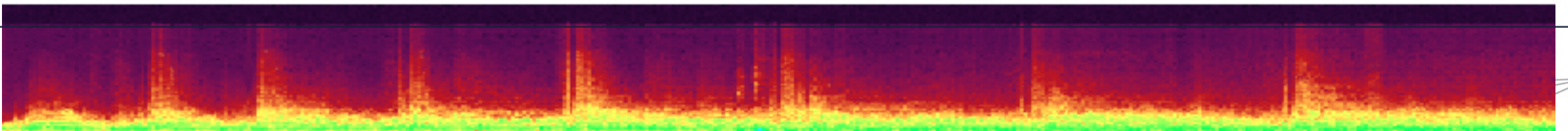
Zoom standard audio



Zoom «original sound» on



eduMEET (not yet HiFi mode) Opus audio



Scenarios for Zoom use

- Teaching from / to home (or where poor network connections are the only option)
- Also when students just have a tablet or smartphone
- 1 to 1 lessons, but also to groups
- NOT possible to play together



Where to learn more about Zoom and training

General information:

- <https://zoom.us>