Hardware essentials to stream and record

Center for Digital Education (CEDE)
Teaching Support Center (CAPE)
Service Audiovisuel (SAVE)

Feedback and Support: flexible-teaching@epfl.ch
More information: https://go.epfl.ch/flexible-teaching
On campus assistance: save@epfl.ch
“Standard” tech solution in:

- all rooms except the ones equipped with mid or high-tech.

You use your laptop to:

- stream and record via ZOOM
  - Use the webcam of your laptop
  - Use your own microphone with a wireless adapter (so you can move around a bit)
  - Broadcast remote students to the classroom.
  - Publish the recording to SWITCHtube after class
- show slides in class and online
  - Use only 1 source to project in the room on the main projector and stream it to distant students.
  - Use a “non-laser” pointer to make sure all students see what you are pointing at, e.g. link
  - Do not use blackboards (resolution too low to be readable via ZOOM)

Choose one of these microphones.

<table>
<thead>
<tr>
<th>Wired</th>
<th>mini jack trrs</th>
<th>link</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>iRig Mic Lav</td>
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<tr>
<td></td>
<td>Rode SmartLav+</td>
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</tbody>
</table>

Get a wireless device and adapter for the microphone.

<table>
<thead>
<tr>
<th>Wireless</th>
<th>Rode Wireless Go</th>
<th>link</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adapter</td>
<td>Rode SC4 trs-trrs</td>
<td>link</td>
</tr>
</tbody>
</table>

If you use an iPad connected to the laptop
Use a cable to connect the devices
(Airplay connection does not work on campus)
(only with MAC, Windows doesn't work)

NB: we point to toppreise.ch to allow for price comparisons.
digitec.ch is a recognized EPFL supplier if you purchase via your unit.
On Campus - Mid tech

“Mid-tech” solution is available in:

- CM2, CM3, CE2, CM1, PO01, CM4, CM5, ELA1, MEB331, ELA2, MXF1, MAB111, MED01418

You use your laptop to:

- stream and record via ZOOM
  - Use the webcam and the microphone from the lecture hall to plug into ZOOM via USB (available Sep 14th).
  - Publish the recording to SWITCHtube after class
- show slides in class and online
  - Use only 1 source to project in the room on the main projector and stream it to distant students.
  - Use a “non-laser” pointer to make sure all students see what you are pointing at, e.g. link
  - Do not use blackboards (resolution too low to be readable via ZOOM)

If you use an iPad connected to the laptop
Use a cable to connect the devices
(Airplay connection does not work on campus)
(only with MAC, Windows doesn’t work)

Select USB camera and microphone of the auditorium in your zoom:
On Campus - High tech

“High-tech” solution is available in:

- SG1, CO1, CE6, BCH2201, CE4, CO2, CE3, CO3, CE1
- Live streaming from your laptop via ZOOM (do not stream blackboards)
- Equipped to “pre-record” blackboards with recording unit from the auditorium. Contact save@epfl.ch to schedule.

You use your laptop to:

- stream and record via ZOOM
  - Use the camera and the microphone from the lecture hall to plug into ZOOM via USB (available end of September 2020)
  - Publish the recording to SWITCHtube after class
- show slides in class and online
  - Use only 1 source to project in the room on the main projector and stream it to distant students.
  - Use a “non-laser” pointer to make sure all students see what you are pointing at, e.g. link
  - Do not use blackboards when streaming from your laptop (resolution too low to be readable via ZOOM)

If you use an iPad connected to the laptop
Use a cable to connect the devices
(Airplay connection does not work on campus)
(only with MAC, Windows doesn’t work)

Select USB camera and microphone of the auditorium in your zoom:
On Campus - Connections

Send your voice to remote students:

- In **Standard** halls: use the [Wireless RODE](#) receiver and your own microphone.
  - If you have a **Two plug** laptop (see image on the right), connect the RODE receiver directly to the microphone plug.
  - If you have a **One plug** laptop, use a [TRRS adapter](#) to connect the RODE receiver to the laptop.

- In **Mid-tech** (from Sept 14) or **High-tech** halls (from end Sept): connect the lecture hall audio and camera via the USB connector and select it in ZOOM as the source for the microphone.

Hear remote student’s voices from ZOOM in the lecture hall:

- Connect the laptop to the projector (HDMI connector) and choose HDMI as the audio for output on your laptop.
- Consider asking a remote student or TA to turn on their mic for a quick sound check.

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**Two separate plugs.** One for the microphone and one for the headphones (or projector). No adapter needed.

**One plug.** The same plug for the microphone and the headphones. Needs a [TRRS adapter](#) to connect.
To get the best out of your pre-recordings (and live streams) at home

- **Home Studio setup guide**
- **Tips for lecture recording**

### Choose one of these microphones.

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</table>

If you use an iPad for ZOOM (rather than the laptop)

Adapter trrs->USBC to plug the microphone into an iPad Pro 2020)  [link](#)

If you use an iPad together with a the laptop

Connect it via Airplay
## Summary

<table>
<thead>
<tr>
<th></th>
<th>At home</th>
<th>On campus</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Standard</td>
<td>Mid-tech</td>
</tr>
<tr>
<td></td>
<td></td>
<td>High-tech</td>
</tr>
<tr>
<td><strong>Lecture Hall Microphone</strong></td>
<td>Reuse the audio link from the lecture to plug into ZOOM for streaming</td>
<td>X Starting Sep 14</td>
</tr>
<tr>
<td></td>
<td>and recording</td>
<td>X Starting end of Sep</td>
</tr>
<tr>
<td><strong>Lecture Hall Camera</strong></td>
<td>Get the camera from the lecture hall plugged into ZOOM via USB to replace the webcam of the laptop</td>
<td>X Starting Sep 14</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X Starting end of Sep</td>
</tr>
<tr>
<td><strong>Teacher’s Microphone</strong></td>
<td>Wired mini jack trrs: iRig Mic Lav link</td>
<td>X</td>
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<tr>
<td></td>
<td>Wired mini jack trrs: Rode SmartLav+ link</td>
<td>X</td>
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<tr>
<td></td>
<td>Adapter trrs-&gt;USBC (* iPad Pro 2020) link</td>
<td>X</td>
</tr>
<tr>
<td><strong>Wireless adapter</strong></td>
<td>Wireless: Rode Wireless Go link</td>
<td>(X)</td>
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<tr>
<td></td>
<td>Adapter: Rode SC4 trs-trrs link</td>
<td>X</td>
</tr>
<tr>
<td><strong>Tablet (if required)</strong></td>
<td>iPad Pro (link) + Apple Stylus 2nd gen (link)</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>iPad Air (link) + Apple Stylus 1st gen (link)</td>
<td>X</td>
</tr>
<tr>
<td><strong>How to connect iPad and laptop</strong></td>
<td>Airplay</td>
<td>Cable</td>
</tr>
<tr>
<td><strong>Microsoft Surface Stylus</strong></td>
<td>link</td>
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Support

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For on campus questions related to room equipments write to: save@epfl.ch