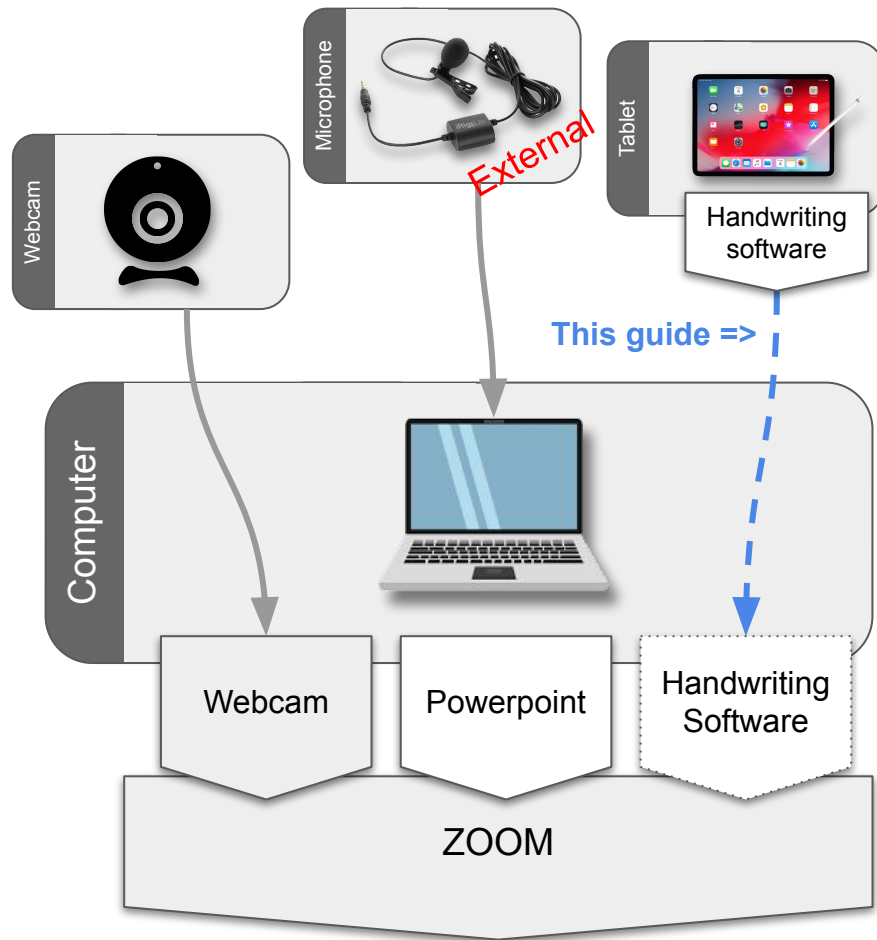




# Using a Tablet to Handwrite and Annotate

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

Feedback and Support: [flexible-teaching@epfl.ch](mailto:flexible-teaching@epfl.ch)  
More information: <https://go.epfl.ch/flexible-teaching>  
**On campus** assistance: [save@epfl.ch](mailto:save@epfl.ch)



# Connect Laptop and Tablet

Run your ZOOM session on your laptop to “stream while recording” and use the tablet as a secondary device to do handwriting and annotations.

		Apple Laptop + iPad	Windows Laptop + iPad	Other laptops and tablets
Dual Connection ( <u>easiest</u> )	Join the ZOOM session with your tablet as a ‘participant’. Share the screen of this participant from the laptop to display the tablet. + Allows you to move with the tablet; + Quick setup; - Connection depends on WiFi.	X	X	X
HDMI cable	Connect your tablet with an HDMI cable to an Elgato encoder connected to your laptop + Stable connection; - More hardware connections; - Limits movement.	X	X	X
Apple cable	Use the dedicated Apple connector to link your laptop and the iPad	X		
AirPlay	Use wireless AirPlay link - Only works <b>from home</b> (not at EPFL)	X		

# Dual Connection

## Principle:

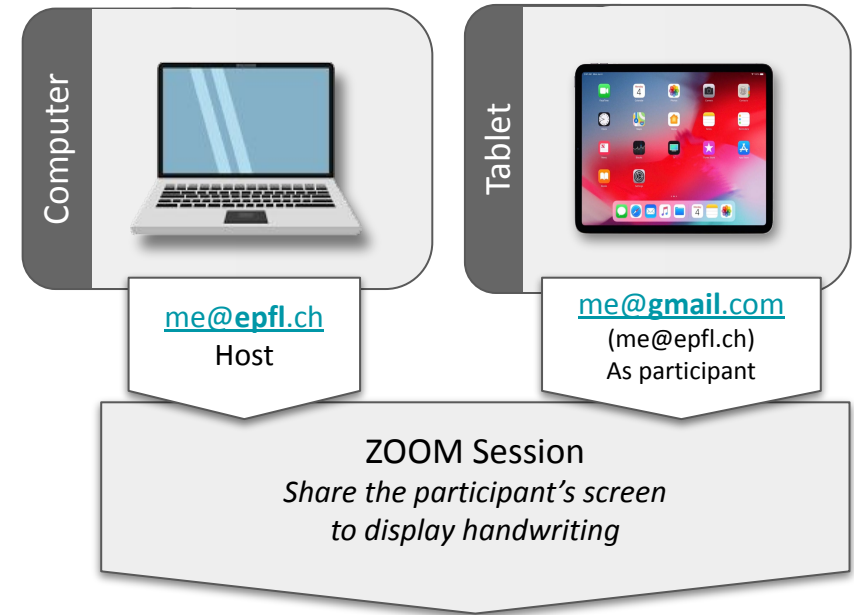
Join the ZOOM session with your tablet as a 'participant'.  
Share the screen of this participant from the laptop to display the tablet.

## Pros and Cons:

- + Easiest to set up
- + No cables required
- Requires to participate to the ZOOM meeting with two connections.

## Note:

It also works when using the epfl account on both devices, but there is a risk that ZOOM mixes up which device is recording. Safest is to use another account for the iPad.



# HDMI Cable

## Principle:

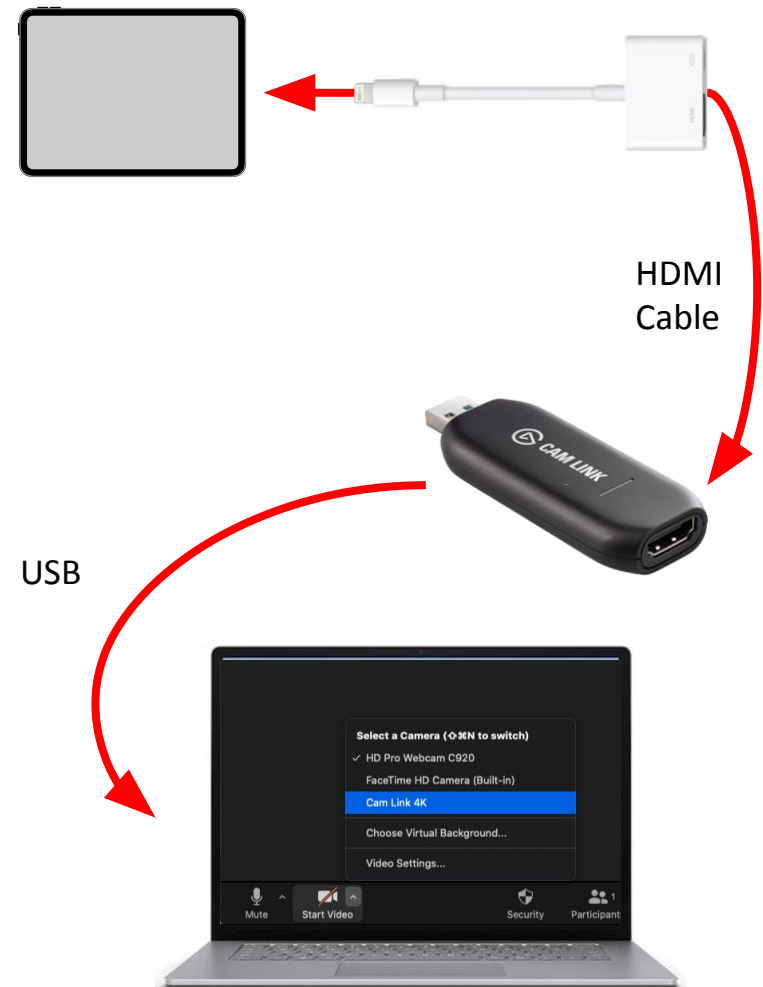
Transform the output of the tablet (or of anything that has an HDMI output) into a video stream by using an HDMI adapter. The laptop sees the tablet as a webcam that you can share from within ZOOM or Kaltura Capture.

## Pros and Cons:

- + Stable connection;
- + Works with both ZOOM and Kaltura Capture;
- + Allows Goodnotes to send only the slide to Zoom without the toolbars cluttering the screen;
- Requires additional hardware;
- Limits movements to the length of the HDMI cable.

## Shopping list:

- [Elgato Cam Link 4K](#) (80 CHF)
- Adapter to transform tablet output to HDMI
  - For older iPads via [Lightning cable](#) (50 CHF)
  - For new iPad Pro via [USB-C connector](#) (25 CHF)
- HDMI – HDMI cable (25 CHF)



# Laptop – iPad Cable

## Principle:

Connect your iPad to your Apple laptop with a Lightning or USB-C cable.

## Pros and Cons:

- + Stable connection;
- + Works from EPFL;
- Does not work with Kaltura Capture;
- The Goodnotes toolbars are visible in the stream / recording;
- Limits movements to the length of the cable.

## Steps:

- Establish the connection once before the course;
- On first connection, the iPad and/or the laptop ask whether they should trust each other. Say Yes both times;
- In ZOOM, choose Share → Advanced → iPhone/iPad via cable.



*Get a cable that fits the iPad on one side and the laptop on the other side. It will be a cable that combines Lightning, USB and USB-C connectors.*

# AirPlay

## Principle:

Connect the iPad to your Apple Laptop wirelessly with AirPlay and mirror the screen.

## Pros and Cons:

- + Allows Goodnotes to send only the slide to Zoom without the toolbars cluttering the screen;
- + Will keep the screen ratio of your slides (should be 16:9) and this will match your HD video recording of your webcam in 16:9;
- Apple laptops only;
- Does **not work on campus** because of WiFi restrictions.

## Make sure that:

- Setup AirPlay (see [slide 25 in the Home Studio guide](#));
- The session is recorded from your laptop;
- Mute the iPad audio (microphone and speaker) to avoid interferences.



# At Home

- To get the best out of your pre-recordings (and live streams) at home
  - [Home Studio setup guide](#)
  - [Tips for lecture recording](#)

# Support

<https://go.epfl.ch/flexible-teaching>

[flexible-teaching@epfl.ch](mailto:flexible-teaching@epfl.ch)

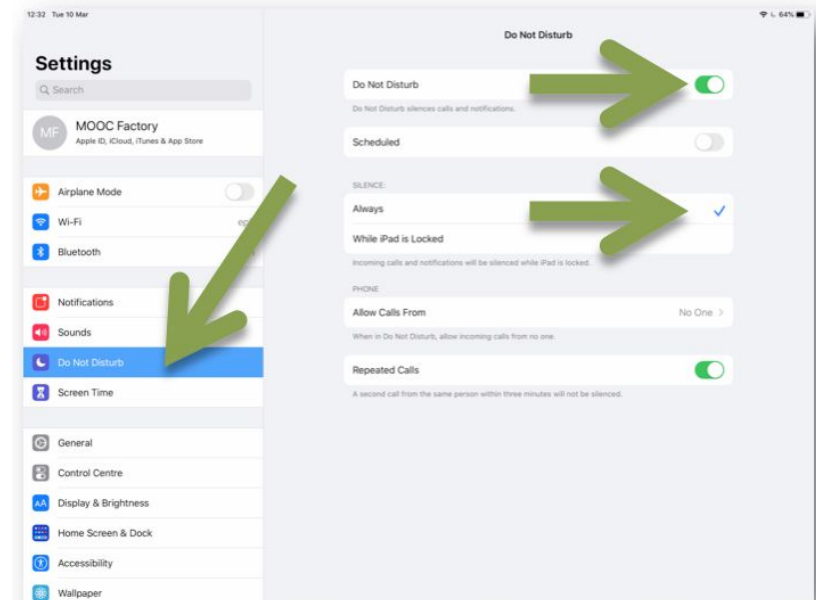
For **on campus** questions related to room equipments write to: [save@epfl.ch](mailto:save@epfl.ch)



# Getting Ready to Use the iPad

## General Settings:

- Enable 'Do not Disturb' in your iPad general settings and set 'Silence' to 'Always';
- Close all apps on your iPad except ZOOM and the other presentation apps;
- Disable the audio when using the iPad as a secondary device that connects to the laptop.



# Set Up Your Apps to Use the iPad

## Set-up ZOOM for your iPad

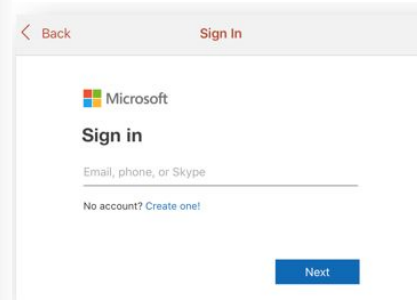
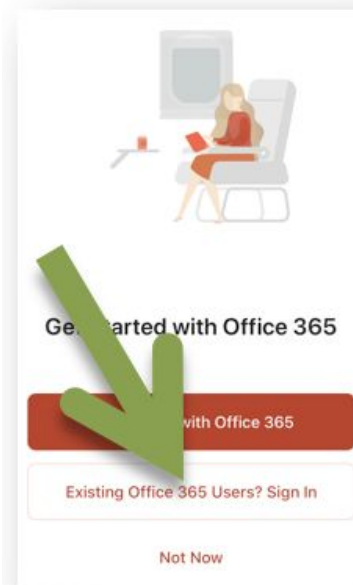
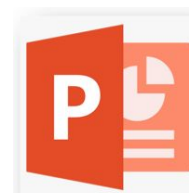
- Download the ZOOM app onto the tablet;
- Create a ZOOM account with your personal e-mail address to join the session as a participant. NB: also works with your EPFL account.

## Setting up Goodnotes:

- Goodnotes is the preferred whiteboard application on iPads;
- You can import PDFs in Goodnote to present and annotate;
- iPad lent by EPFL: if Goodnotes is not pre-installed, contact [1234@epfl.ch](mailto:1234@epfl.ch);
- Your own iPad: download and open Goodnotes (not free);
- No login required.

## Setting up Powerpoint for iPad:

- Download the app;
- Select 'Existing user';
- Sign in with your EPFL email and [your EPFL Office 365 password](#);
- **Do not use** your Gaspar password.



# Set Up Your EPFL Office 365 Account

- Go to <https://office.com/teachers>;
- Type your EPFL email address and click on Start;
- Click on “I’m a teacher”;
- Check your e-mail for a verification code;
- Provide your personal details and verification code to create your account;
- Save password for future use;
- Download Microsoft Office software or apps.

