



## Infrastructure

The most important question to ask yourself: Which system is the best fit?

There are many different solutions (you can find a small selection of possible systems in this document) and you may need multiple devices to meet all your requirements.

If you are not yet sure how and when you want to use video conferencing and what to use it for, we would be happy to advise you. Please contact us directly.

### The Kubi system

(<https://www.revolverobotics.com/>) is ideal for meetings of small groups (4-6 people in a small or medium-sized conference room). The Kubi (controllable holder for an iPad) sits on the conference table at the place where the remote user would sit if they were physically present. The remote user (pilot) controls the Kubi. They can look around the room, look at the other conference participants and watch a presentation on a monitor or a projector screen. The remote user requires a desktop or laptop PC (Windows, MacOS, Linux) with an integrated or external camera, as well as a headset for clear speech transmission.

### The Double system

(<https://www.doublerobotics.com/>) is essentially an iPad on a Segway. The remote user (pilot) can move freely in space and adjust the height of the iPad. The lower position is at the eye level of a seated person, while the upper position is at the eye level of a standing person. The Double is therefore ideal for workshops and receptions. The remote user requires

a desktop or laptop PC (Windows, MacOS, Linux) with an integrated or external camera, as well as a headset for clear speech transmission.

### Desktop/notebook systems

Because almost everyone already has Skype installed on their device, it makes sense to use the application. If the known limitations are a problem for you (either video or desktop), you should switch to SCOPIA or Equinox. The ETH does not offer a Skype for Business license. We are also unable to offer support for Skype. For doctoral exams and critical meetings, you should forego Skype and use a room system, or at least SCOPIA or Equinox.

[SCOPIA Desktop](#) → / [Equinox Client](#) →

### General requirements

- Desktop or notebook computer
- Good network connection (cable/ADSL modem, LAN)
- Latest version of Google Chrome or Firefox

### Ideal for

- Individuals
- Maintaining contact with colleagues while travelling
- Participating in meetings from home or the office
- Watching presentations in foreign countries
- Cooperating with colleagues at distant research locations
- Maintaining contact with research groups outside the ETH
- Delivering a lecture from home, if necessary

#### Room setup

- Ideal: Room with a good light source against a calm background, no ambient noise, as close as possible to the camera.
- Less than ideal: Overhead light, busy background.
- To be avoided: Light from behind (e.g. windows in the background), people in the background or ambient noise.

#### Next steps

- Check system requirements
- Follow instructions step-by-step
- See manufacturer links for more information

### Systems for small groups

#### General requirements

- Order 5 working days in advance
- HDMI-capable display or projector
- Good network connection (docking), please specify UTP

#### Ideal for

- Small groups (1 – 10 people)
- Small to medium-sized conference room/divided office

#### Lending location

[Web Shop Zentrum \(HG\)](#) →

### Roomsystem

#### Ideal for

- Individuals or small groups who would like full support for video conferencing
- Individuals who are unable to use a desktop system from their office or prefer not to, e.g. because they have a shared office
- Large groups (10 – 300 people)
- Auditorium-to-auditorium video conferencing
- Synchronous, interactive e-learning via Telepoly.

Reserve at least ten business days in advance.

#### Räume

##### Zentrum HG

Room: D22 (seminar room)  
Seats: 15 (up to 35 possible)  
VC system: CISCO Codec C60

Room: D16.2 (auditorium)  
Seats: 80  
VC system: CISCO Codec C60

Room: D19.1 (room for small groups)  
Seats: 1-3  
VC-System: CISCO Codec SX20

Room: HG F30  
Seats: 422  
VC-System: CISCO Codec C40

Room: LEE E101  
Seats: 62  
VC-System: CISCO Codec C40

Room: LEE E126  
Seats: 20  
VC-System: CISCO Codec C40

##### Hönggerberg

Room: HIT E51 (multi-purpose rooms)  
Seats: 153  
VC-System: CISCO Codec C60

Room: HCI J2 (seminar room)  
Seats: 8 (up to 20 possible)  
VC-System: CISCO Codec C90

Room: HCI J3 (auditorium)  
Seats: 178  
VC-System: CISCO Codec C60

For presentations/application sharing, at least one desktop/notebook with XGA (1024 x 768) must be available.

Video conferences are reserved and organised through Christopher Sauder. Auditoriums and multi-function rooms must be reserved using the room reservation system.

[Raumreservation](#) →

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## Huddle-Rooms

Planned expansion of video conferencing services for local conference rooms.

For many years we have offered video conferencing (standard H.323) with technical support in special rooms at ETH Zentrum and Hönggerberg. This service is extremely popular, but it isn't the right solution for all needs. In the academic community, laptop/desktop-oriented (DIY) video conferencing (Skype, Lync, WebEx, Zoom, Adobe Connect, Vidyo, Google Meet, Scopia/ Equinox, etc.) has become very widespread. It requires participants to use their own laptops/desktop PCs with integrated or external cameras/microphones and the corresponding software at a workstation or in a conference room. The quality of this type of video transmission depends upon many parameters and can range from very poor to excellent.

We want to provide increased support for this scenario with our proposed service. Local conference rooms will be equipped with standardised and affordable infrastructures in order to achieve a level of quality that facilitates a satisfactory and consistent audio and video connection.

By the end of 2018, we will create standardised setups for conference rooms of various sizes and test them in pilot installations:

- Professors' offices and small conference rooms (2-4 people); target price: CHF 2-5k
- Huddle rooms (meeting location in open space for 2-4 people); target price: CHF 5k
- Normal conference room (5-10 people); target price: CHF 10k
- Large conference room (10-20 people); target price: CHF 20k

It will be possible to book these setups starting in Q1/2019.

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