

Angel Introduction: Camera and Video Mixer

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C3VOC

Inhalt

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General Info

General Info I

- All talks get recorded and archived forever
- Consistent quality
- No postproduction of individual signals.
- Livestream content is the same as the one recorded and published
- Less mistakes ⇒ better recordings.
- Stream observer shifts

General Info II

- Introduction Meeting here
- Complete overview for all new angels
- Short diff for experienced ones
- Slides available online: <https://github.com/voc/engelschulung>



Angeltypes

Angeltypes

- Camera Angels
- Video Mixer Angels
- Audio Mixer Angels
- A/V Technician

Camera Angels

- Operate the fixed cameras in the lecture halls.
- Usually, two camera angels per lecture hall
- Camera angels will communicate with the Video-Mixer-Angel via intercom,
- Get instructions to shoot in certain ways.
- Maintain good camera settings.
- Can sign up for the shifts in the Engelsystem themselves.

Video Mixer Angels

- Switch the video feed between different sources.
- Mixed video feed is used for both the live-stream and the recordings
- You decide which picture, respectively source, is most interesting/important at each moment.
- Work proactively with camera angels through the intercom

Audio Mixer Angels

- Mix audio for both the tent audience as well as the livestream and recording.
- Adjust levels, dynamics and onl if really needed EQs
- Mute/unmute QA microphones when needed
- Fight feedback when it evntually happens
- Make listening to the talks enjoyable

A/V Technician

- 2nd level support in the lecture halls.
- Responsible for camera and mixer angels
- Familiar with the equipment that is used.
- Able to fix (nearly) all the issues.
- is on intercom

Camera Hardware

Hardware Camera Controls Panasonic



Figure 1: Panasonic Cam

Cameras are in manual mode because of difficult lighting situation.

Left Ring/red Focus - control sharpness of the image.

Middle Ring/green Zoom - vary the focal length.

Right Ring/blue Iris - will have to be adjusted throughout the day. For lighting issues talk to the A/V tech via intercom.

Hardware Camera Controls JVC



Figure 2: JVC Cam

Cameras are in manual mode because of difficult lighting situation.

Left Ring/red Focus - control sharpness of the image.

Middle Ring/green Zoom - vary the focal length.

Right Ring/blue Iris - will have to be adjusted throughout the day. For lighting issues talk to the A/V tech via intercom.

Zoom Control Panasonic



- For smooth zoom use the zoom buttons.
- Gentle touch ⇒ slow zoom
- Top Buttons fixed speed

Figure 3: Panasonic Cam

Zoom Control JVC



- For smooth zoom use the zoom buttons.
- Gentle touch ⇒ slow zoom
- Top Buttons fixed speed

Figure 4: JVC Cam

Display Indicators Panasonic

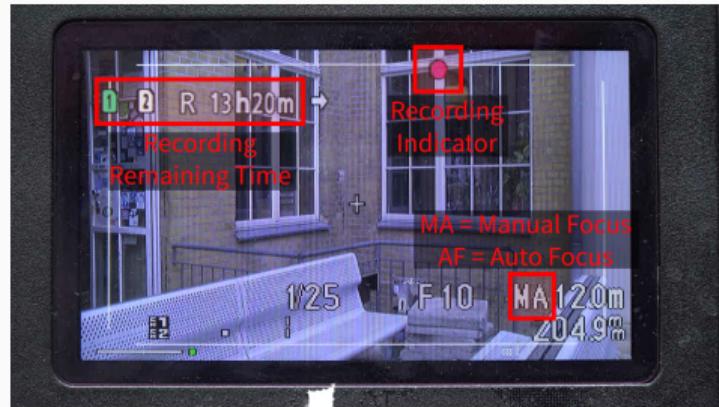


Figure 5: Panasonic Display Indicators

Rec Indicator The recording must always run, even during the break.

Focal Indicator Use only manual focus!

Remaining Time It must have enough remaining time before talk.

Alert

Alert the A/V-Technician if something's wrong.

Display Indicators JVC



Figure 6: Panasonic Display Indicators

Rec Indicator The recording must always run, even during the break.

Focal Indicator Use only manual focus!

Alert

Alert the A/V-Technician if something's wrong.

Tripod



Figure 7: Tripod

- Should be level - check the water bubble.
- Variable brakes - can be adjusted to your needs.
- Tilt axis should be balanced, so that the camera doesn't tilt up or down on its own.
- Pan axis is needed all of the time. Set it so you can do smooth pans all over the stage.

Alert

Alert the A/V-Technician if something's wrong or misplaced.

SD-Card Recording

- Two SD-Cards in every Camera
- Backup Recording
- Turn on Recording before first shift in the morning -> Red Dot somewhere in the Display.
- Control Recording Time remaining.

Alert

Alert the A/V-Technician if something's wrong or not running.

Camera Positions and Angles

Map of the camp grounds



Camera 1 - Closeup Camera

Content

- The Speaker is your best friend
- Keep them always in frame
- Default for all composition modes

Framing

- The upper part of their body + head + a bit of headroom.
- Stay close to his/her eyeline on the upper third line.

Alerts

- Anticipate movement, stay alert
- Leave some room where they want to move next.

Camera 1 - Closeup Camera

Example Shots I



Figure 8: Good Closeup Shot

Camera 1 - Closeup Camera

Example Shots II

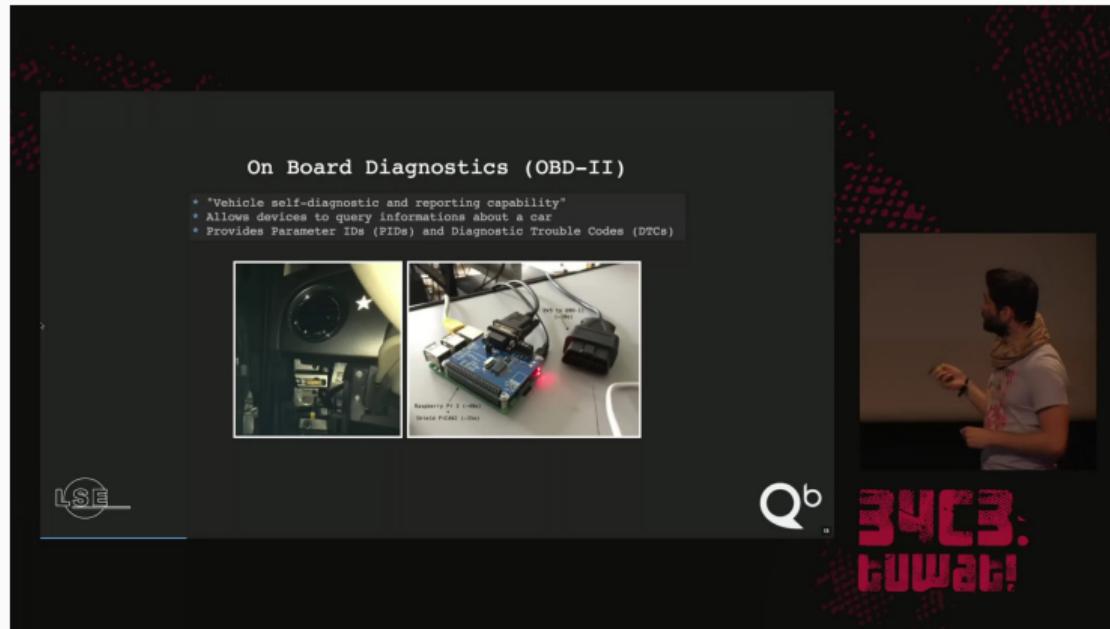


Figure 9: Good Closeup in Supersource

Camera 1 - Closeup Camera

Bad Shots I



Figure 10: Half a head - not good.

Camera 1 - Closeup Camera

Bad Shots II

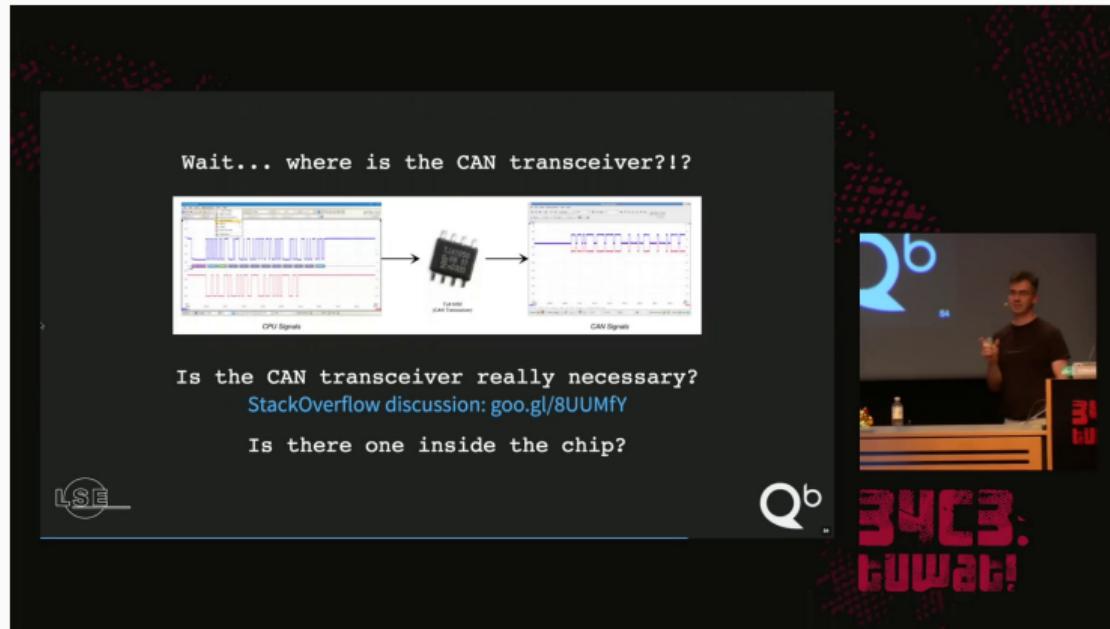


Figure 11: Too Far out for a good supersource image.

Camera 2 - Medium Camera

Content

- Context around the speaker
- If there are two or more speakers choose the other one

Framing

- Speaker from Head to Toes
- Stay close to his/her eyeline on the upper third line.

Alerts

- Anticipate movement.
- Leave some room where they want to move next.
- Fallback Camera if the Closeup Camera can't keep up.

Camera 2 - Medium Camera

Good Shots I



Figure 12: Good Context image.

Camera 2 - Medium Camera

Good Shots II



Figure 13: Two Speakers.

Camera 3 - Wide Shot

Framing

- Covers the whole stage.
- A bit of small audience for context.
- Statically set.

Alerts

- Needs no attention.
- Fallback Camera if all else fails
- Beautifully captures standing ovations

Camera 3 - Wide Shot



Intercom

Intercom



Video Mixer Tools

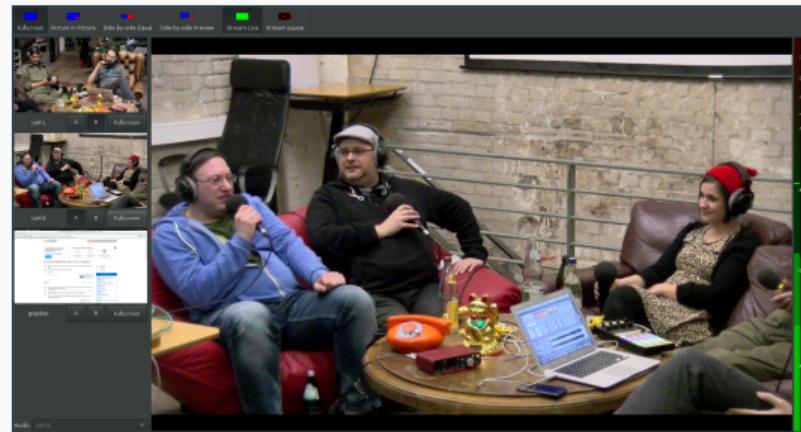


Figure 14: Voctogui

Previews Small images on the left

Program Large, middle, what everyone
on the internet sees.

Composition Top row.

Blue Select A

Red Select B

Stream Blank For breaks when nothing
should be streamed.

Software Video Mixer - Voctogui

- Voctomix2 Setup in all tents.
- New GUI and features

Software Video Mixer - Vocomix2

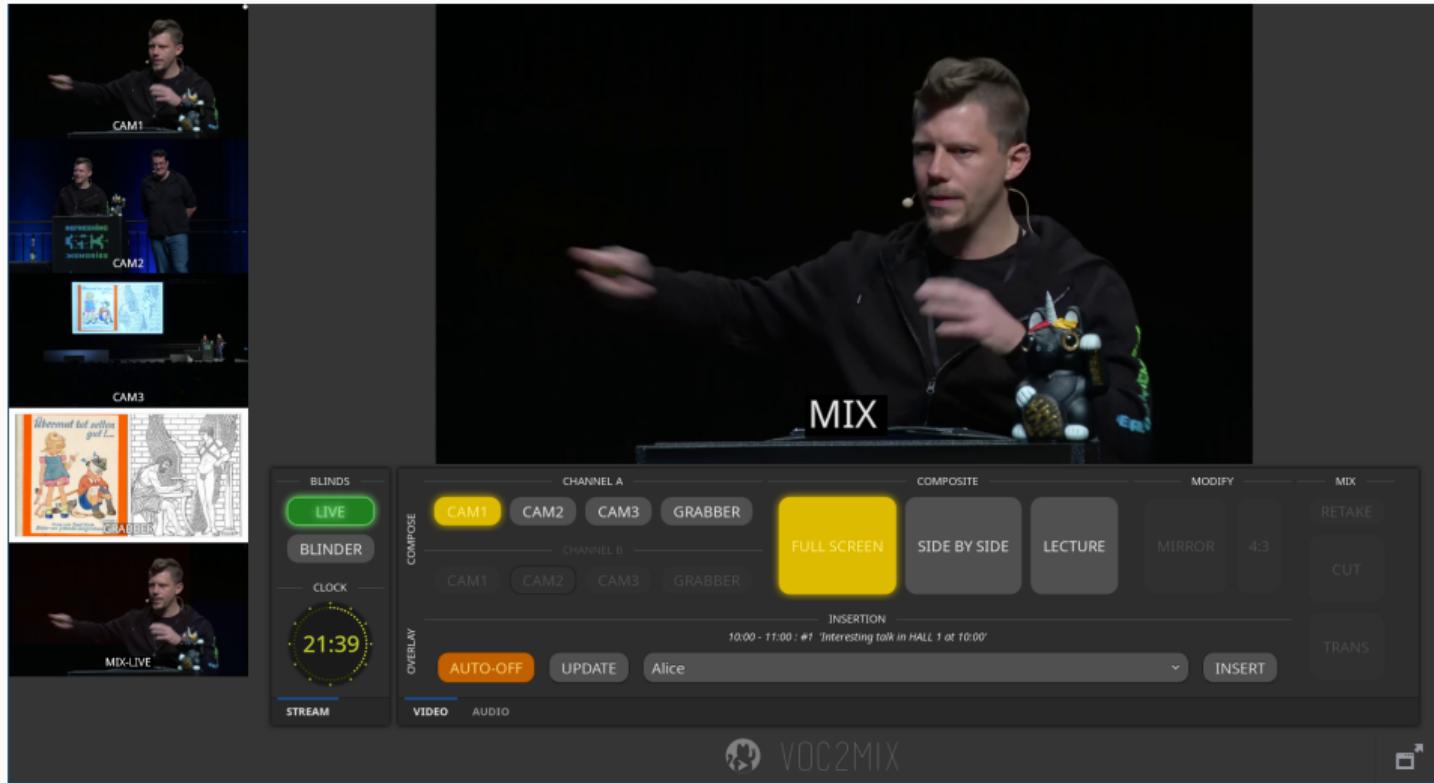


Figure 15: Vocomix2

Software Video Mixer - Vocomix2

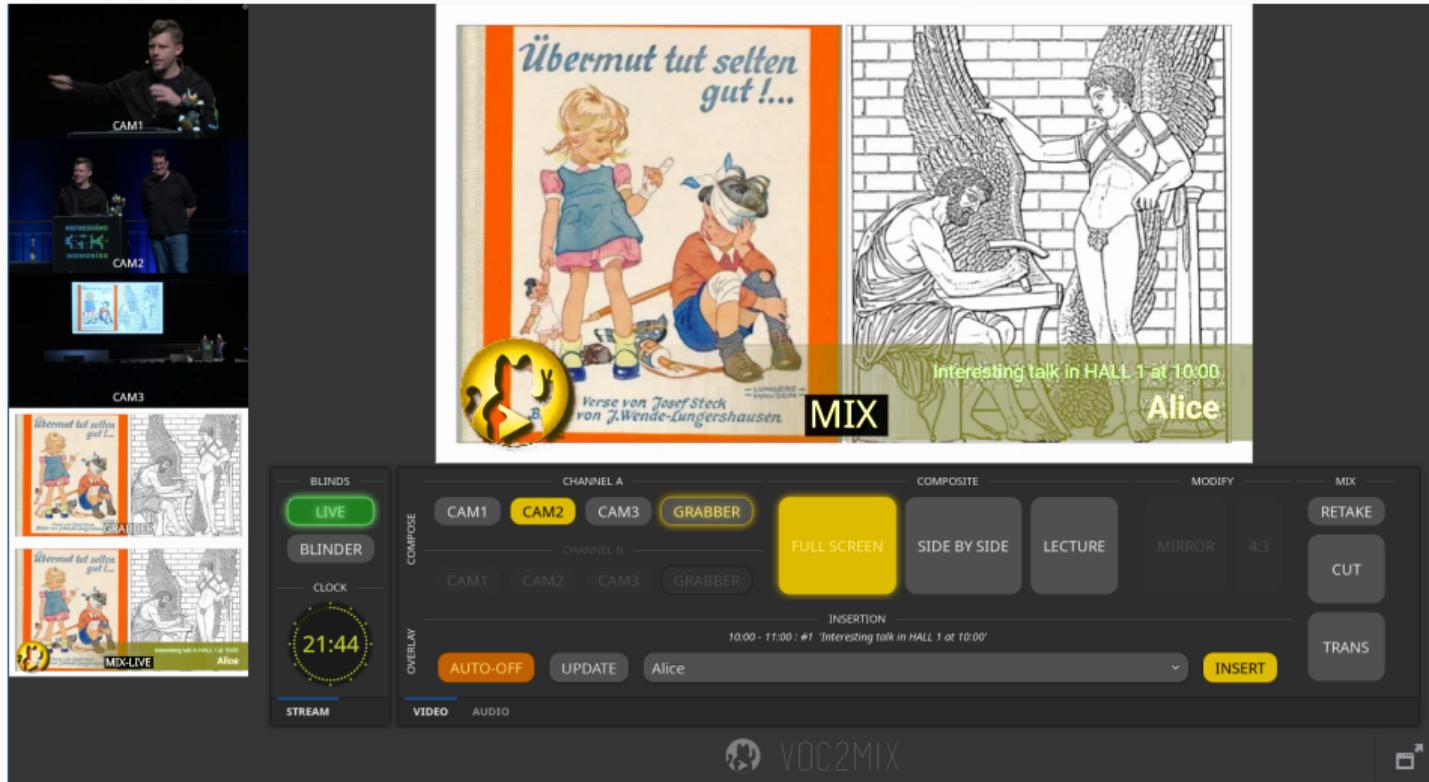


Figure 16: Vocomix2

Software Video Mixer - Voctomix2

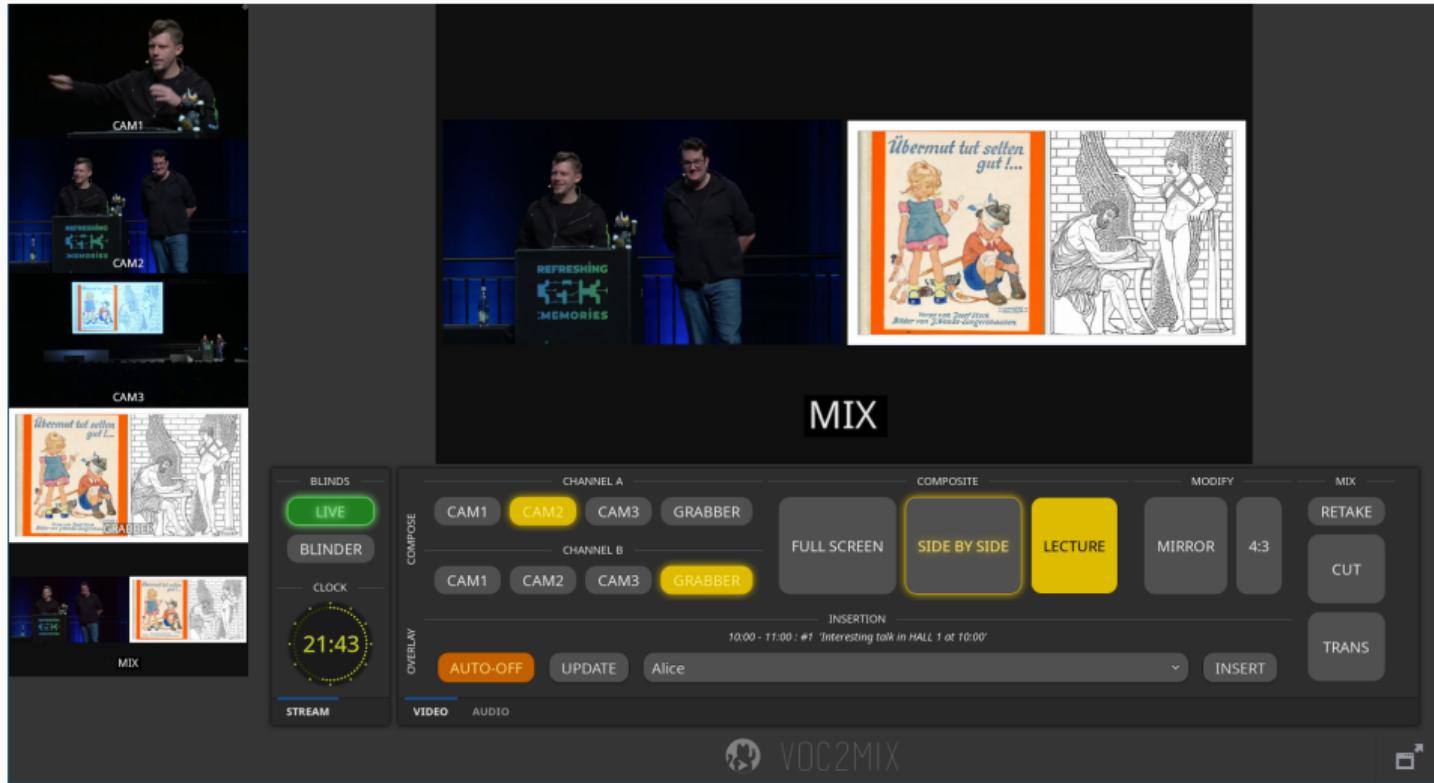


Figure 17: Voctomix2

Video Mixing Guidelines

Mixing Guidelines - Hard Rules

- All you are doing is **recorded** and will be published. **Don't make mistakes.**
- The Audience is **not to be filmed**. Cut away if faces of people not on the stage appear.
- **Slides are important**
- Slides stay on till the text has been read **twice**.
- Show new slides **immediately**.

Hint

Fast-paced presentations with lots of slides are easier to handle with the supersource.

Mixing Guidelines - Softer Hints

- Start early – opening announcements of the Herald are a good start. Their introduction has to be in the recording and on stream.
- Open wide – Structure the beginning of a talk with shots that set the stage
- The slides in fullscreen – you're dealing with a very small screen. Text has to be readable
- Show gestures – medium-close-up that follows the speakers eye-line
- Don't be too cutty – Pace your videos temperately. Do not cut too often.
- Don't end too early – All questions and answers have to be recorded. The herald ends the talk, not the mixer angel.

Hints

Leave lots of room at the start and end of a talk. Cut away from the infobeamer before the Herald starts with announcements. Cut to the infobeamer only after the last applause has finished.

Mixing Guidelines - Communication

- Communication is key
- Partyline intercom in every room
- Mixer Angel requests pictures from Camera Angels and announces their next steps
- Camera angels offer good pictures
- Work together, say what you want to do and what doesn't work.

Timeline - Preparations beforehand

Cameras

- Get to know your fellow angels.
- Test the intercom.
- Test your camera and settings.
- Look on Stage who will be herald or speaker.
- Camera 1: Get a closeup of the speaker.
- Camera 2: Get a head to toes shot of the herald.
- Both cameras start tracking their persons.

Mixer

- Check Slides and adjust supersource to 16:9 or 4:3.
- Have Camera 2 on Preview.
- Talk to your cameras via the intercom

Timeline - Announcements and Introduction

Cameras

- Camera 1: Get a closeup of the speaker.
- Camera 2: Get a head to toes shot of the herald.
- Both cameras track their persons.

Mixer

1. Go live with Camera 2 as soon as the Herald starts.
2. Title slide can be shown during the introduction
3. Put Camera 1 on Preview.
4. Camera 1 live as soon as the Speaker starts talking

Timeline - Content

Cameras

- Follow commands from the Mixer
- Ask for time off if you have to readjust zoom, focus or anything else that should not be in the recording.

Mixer

- Show new slides as soon as they are keyed by the Speaker
- Show Camera 2 when the Speaker starts walking and gesturing
- Call out your actions and intentions via intercom
- Plan ahead. Which picture should be shown in 30 seconds?
- Keep your available pictures diverse. Both cameras on medium closeup don't make sense.

Timeline - Questions and Answers

Cameras

- Camera 1: Track the Speaker
- Camera 2: Track the Herald or both if they are close
- Keep tracking, don't give up even if your shift ends soon.

Mixer

- Show whoever is talking on stage to the stream.
- The "Thanks"-Slide can be shown from time to time.
- Don't end too early.

Orga

Shift Distribution I

- All Productiehuis related shifts are distributed self organized.
- Don't select too many talks, take breaks.
- Talks with special requirements might be handled by VOC

Shift Distribution - Minimums per Talk

- 1 Audio Mixer Angel
- 1 Video Mixer Angel
- 1 Camera Angel

Alert

Fill these spots across all talks first, before filling the second camera angel spot.

Contacts

Who to Contact?

- General Questions regarding VOC - VOC Helpdesk **1600**
- Unable to find right person for issue - VOC Helpdesk **1600**
- Generic Productiehuis Orga / Coordination Stuff - sophie - DECT **7425**
- Violation of personal boundaries - Team Cohesion - **+31 6 86 88 41 78**
- General Angel Topics - Heaven - DECT **7777**
- In the hall:
 - A/V Technician on duty
- We might need to call you. Please have your DECT number in the Engelsystem!
If you don't have a number yet, go to **micropoc.de** and get one.

Questions?

Contact us via IRC voc-lounge on hackint.

Now

- Be sure you've signed up to your angeltypes
- Queue in front of the stage to be unlocked in the Engelsystem
- If you are a videomixer angel and you've mixed at the last congress and/or camp, come directly to frederik (shift signup for day 1)