Angel Introduction: Camera and Video Mixer

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C3VOC

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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 $\Rightarrow$ better recodings.
- Stream observer shifts

General Info II

- Introduction Meeting here
- Complete overview for all new angels
- Short diff for experienced ones
- Shift distribution every day 17:00 - 18:00 in CCL room 11.
- Feedback loop and review at those meetings
- Slides available online: `https://github.com/voc/engelschulung`

Angeltypes

Angeltypes

- Camera Angels
- Video Mixer Angels
- Stream Observing Angels
- A/V Technician
- Stage Manager

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,

Stream Observing Angels

- Open for all camera and mixing angels
- Reflecting the work of colleagues from an audience perspective.
- Examine streams for issues
- Keep track of sequences appearing hard to consume or violating our rule set.
- Positive and negative remarks
- Constructive feedback
- Instantly report severe issues like "there is no signal" to the VOC Helpdesk.
- Self evaluation and not meant as external monitoring.

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

Stage Manager

- is responsible for the lecture hall, especially
  - crowd control
  - time keeping
  - last minute issues
- carries the radio for emergency communication
- Talks to the A/V technician so usually they don't interact with camera and mixer angels.

A/V Technician & Stage Manager

- have the same shift slots (4h) together
- Camera and mixer angels: The A/V technician is responsible for you, not the stage manager.
- Stage Manager is communication gateway to heralds.

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 - don't touch if you don't know why you should. 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.

Zoom Control Panasonic

Figure 3: Panasonic Cam

- For smooth zoom use the zoom buttons.
- Gentle touch $\Rightarrow$ slow zoom
- Top Buttons fixed speed

Zoom Control JVC

Figure 4: JVC Cam

- For smooth zoom use the zoom buttons.
- Gentle touch $\Rightarrow$ slow zoom
- Top Buttons fixed speed

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 remaing 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 Handle Controls

Figure 7: Tripod Handle

Beware: various models in use.

Zoom Control lever above red ring

Red Button Start/stop recording, don't touch

Other Buttons markings on the handle

Tripod

Figure 8: 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-Technichian if something's wrong or not running.

Camera Positions and Angles

Map of the fair grounds

Rooms in CCL

Congress Center Leipzig – Ebenenplan
Congress Center Leipzig – floorplan
Saal 1
Hall 1
Vortrags- und Seminarräume
Lecture and Seminar rooms
Säle 2 und 3
Halls 2 and 3
Dijkstra
+2
Eliza
Saal 4
Hall 4
Saal 5
Hall 5
+1
Foyer
Übergang zur Halle 2
Access to Hall 2
Heaven
0
Mehrzweckflächen 1/2
Multi Purpose Areas 1/2
Foyer
Mehrzweckflächen 3/4
Multi Purpose Areas 3/4
Übergang zur Glashalle
Access to Glass Hall
Foyer
-1
Eingang / Registrierung
Entrance / Registration
CONGRESS CENTER LEIPZIG

Saal Borg

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 9: Good Closeup Shot

Camera 1 - Closeup Camera

Example Shots II

Figure 10: Good Closeup in Supersource

Camera 1 - Closeup Camera

Bad Shots I

Figure 11: Half a head - not good.

Bad Shots II

Figure 12: 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 13: Good Context image.

Camera 2 - Medium Camera

Good Shots II

Figure 14: 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

Voctomix

Figure 15: 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

Figure 16: Voctogui

Voctomix2

- Voctomix2 Setup in hall D and Chaos West Stage
- New GUI and features
- We'd like to have your feedback –> There are signs with a link to a feedback pad at both stages

Software Video Mixer - Voctomix2

Figure 17: Voctomix2

Software Video Mixer - Voctomix2

Figure 18: Voctomix2

Software Video Mixer - Voctomix2

Figure 19: 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 announcs their next steps
- Camera angels offer good pictures
- Work together, say what you want to do and what doesn't work.

Quality

- do stream-observer shifts
- get feedback from peers
- watch your own edits (post event)
- do it more than once a year, check **c3voc.de/wiki**
- have a habit of continuous improvement

Orga

Daily Meeting

- We meet in lecture room 11 on day 1, 2 and 3 at 17:00 - 18:00 https://events.ccc.de/congress/2019/wiki/index.php/Session:A/V_Angel_Meeting
- **Mandatory** for **Video Mixing Angels**
- **Optional** for **Camera Angels** but you're very welcome to attend.
- Feedback and Shift Distribution for mixer angels
- Feedback session on Day 4 15:00 in room 11

Agenda

- Announcements (5 mins)
- Examples, Feedback and discussion (15 - 30 mins)
- Shift Distribution (15 - 20 mins)

Shift Distribution

- Video Mixer shifts will be distributed in this meeting
- Select about three talks you want do have and be excellent to your fellow angels
- Talks with special requirements might be handled by VOC

Contacts

Who to Contact?

- All videoangel related stuff and angel organisation - frederik - DECT **7658**
- General Questions regarding VOC - VOC Helpdesk **1600**
- Unable to find right person for issue - VOC Helpdesk **1600**
- Organizational or social problems / Angels - jwacalex - DECT **5542**
- Generic C3VOC Orga / Coordination Stuff - jwacalex - DECT **5542**
- Violation of personal boundaries - Awareness-Team - DECT **113**
- General Angel Topics - Heaven - DECT **1023**
- In the hall:
  - A/V Technician on duty
- We might need to call you. Please have your DECT (or UMTS) number in the Engelsystem! If you don't have a number yet, go to **eventphone.de** and get one.

Questions?

Contact us on congress via Engelsystem or 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)