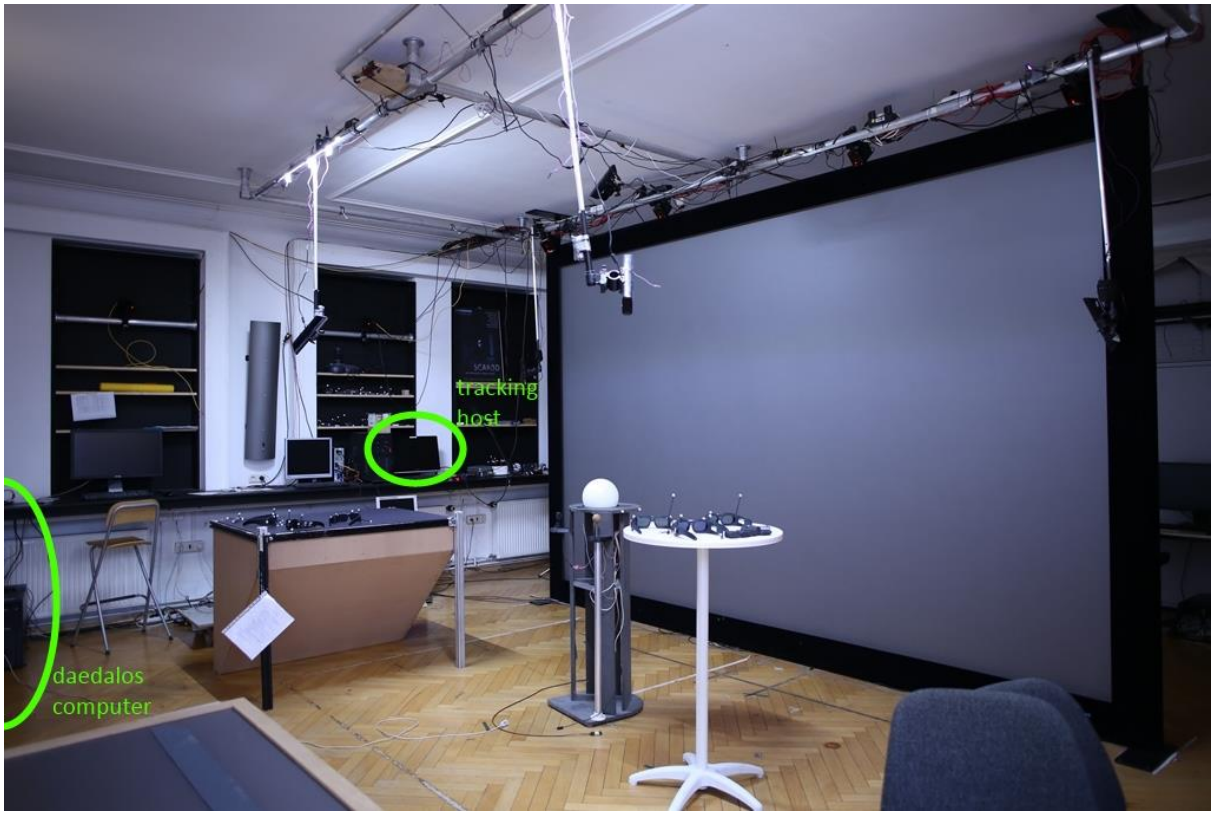
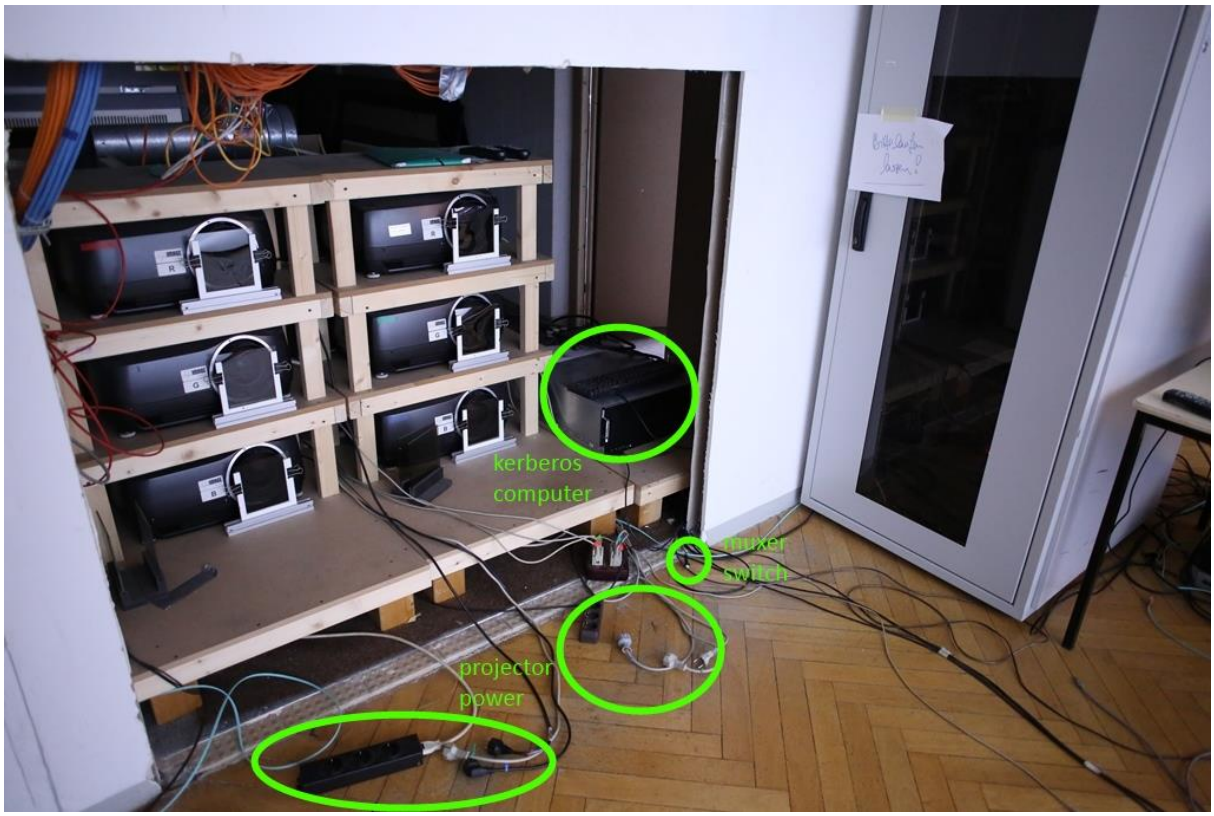
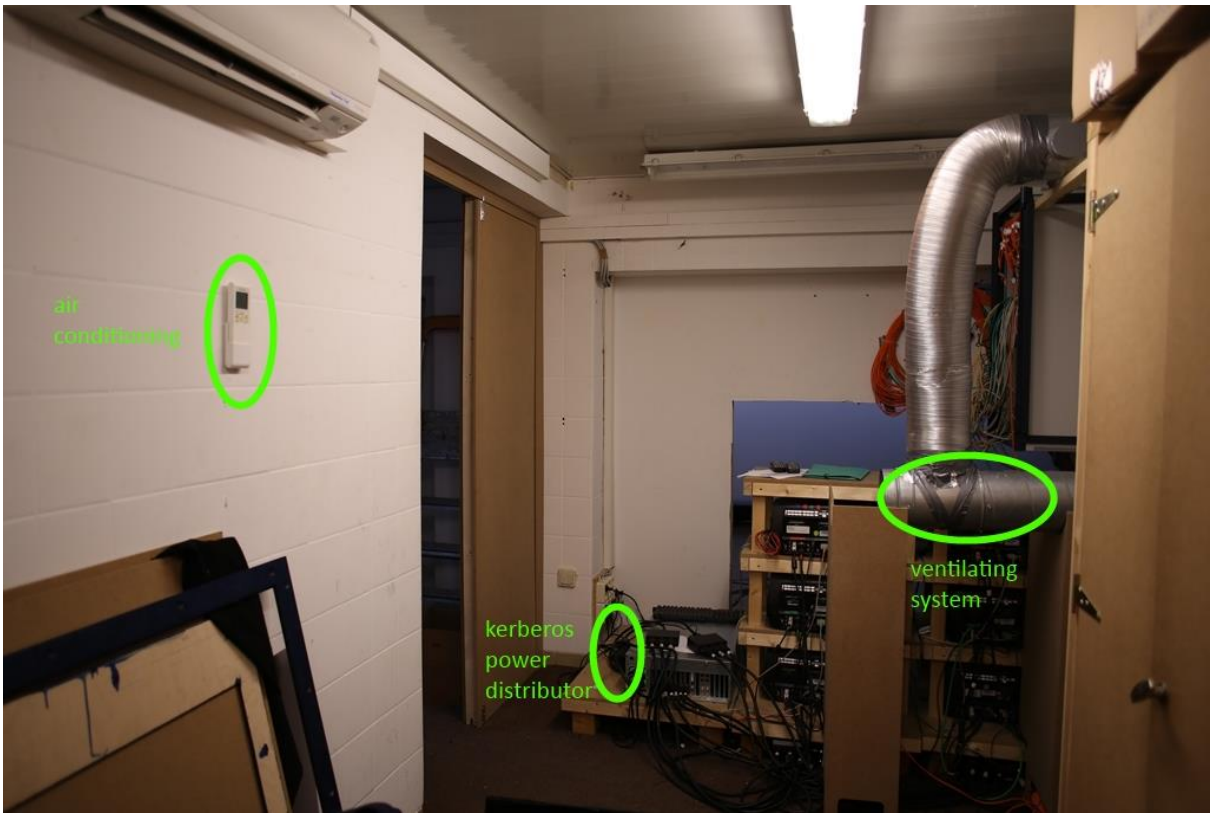
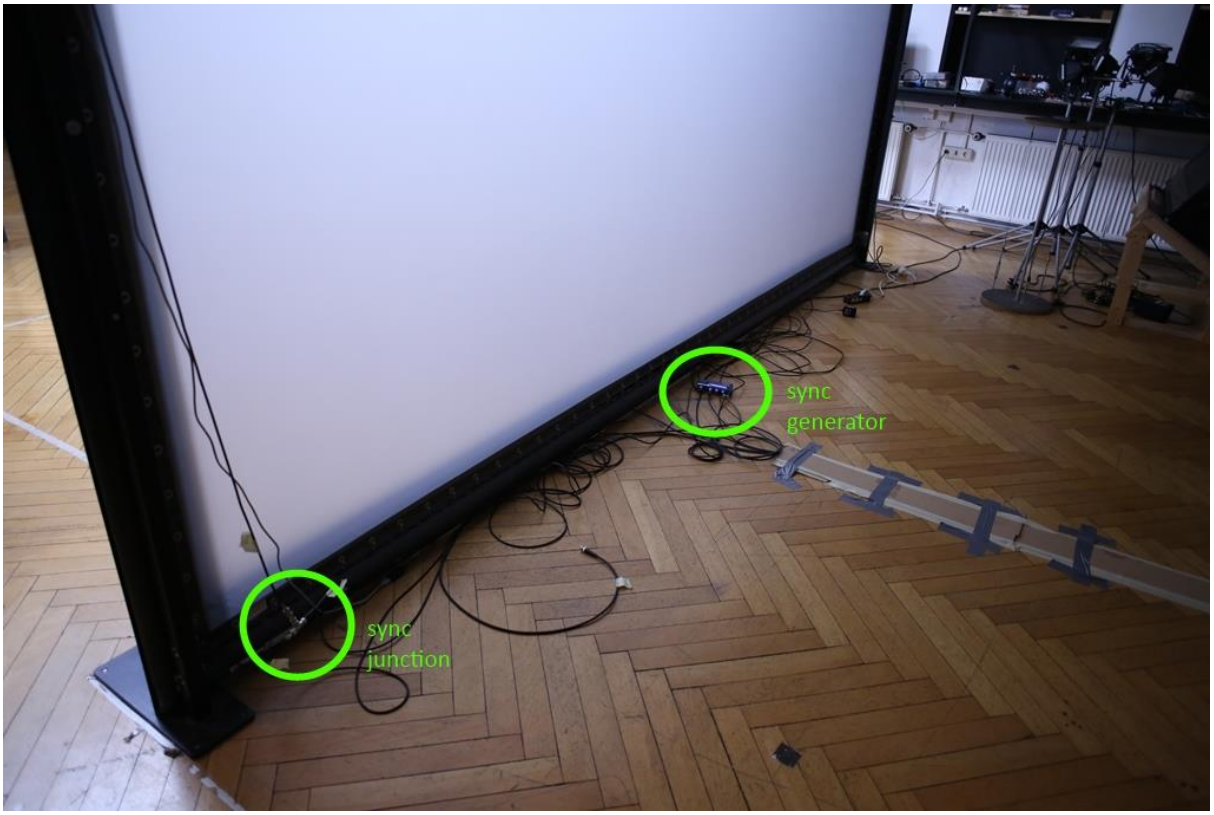
Terminologies






air
conditioning
kerberos
power
distributor
ventilating
system


sync
generator
sync
junction

Large Powerwall Usage Tutorial

Turn on the needed hardware:

- Connect the six projectors to the power sockets
- Turn on power distributer next to computer *kerberos*
- Turn on *kerberos* computer
- Plug in ventilating system and switch on air conditioning
- Switch on *daedalos* computer for projector and shutter communication

Supply a correct sync signal:

- Plug in sync generator (blue box)
- Connect sync generator to the T-piece together with the cables marked with "Projectors" and "Shutter Sender"

Power on projectors:

- Open web GUI running on *daedalos* by opening *http://daedalos*
- Select all projectors
- Click "power on" button

Synchronize graphics card outputs:

- Log in to *kerberos*
- Change directory to */opt/client/dlp-tools*
- Execute *./genlock_4_K6000.sh*
- Start or restart muxer units by pressing green button next to projectors

The projectors should now show the login screen of *kerberos.*

Start the tracking system:

- Start the "DTrack" application on the tracking computer
- Connect to the proposed tracking system
- Click on button "Start" in the upper left corner

Send correct shutter timings:

- Log in to *daedalos*
- Change directory to */opt/shutterConfig*
- Execute *./GlassesHID DLP_1vip456.xml*
- Type resend

You can now run applications on *kerberos* and watch the outputs using shutter glasses 1, 4, 5 and 6 (remember to switch them on first and turn them off again after usage).

Shutdown procedure:

- On the web GUI, select all projectors and click the “power off” button
- Turn off *kerberos* computer by pressing the power button
- Turn off the muxer units by pressing the green button
- Turn off *daedalos* computer
- Wait for 5 minutes for the projectors to cool down
- Disconnect the projectors and the sync generator from the power socket
- Turn off power distributor next to *kerberos*
- Turn off air conditioning

Error spotting:

- The projectors do not react on the “power on” button press and remain dark
    - Check the sync cables
    - Check if the projectors are hided: in the web GUI, select all projectors and click on the “unhide” button
- The *./genlock_4_K6000.sh* script on *kerberos* outputs errors
    - Restart *kerberos* and try again
- The web GUI is unreachable
    - Check if *daedalos* is switched on
- No login screen is visible after running the genlock script
    - Try to restart the muxer units by pressing the green button next to the projectors
- One or more of the projectors remain stuck in the “Warming up” label
    - Select all projectors in the web GUI and send a test image to them (e.g. by pressing button “1” below the “test image” label
    - Remove test image again by pressing button “off” below the “test image” label
- *kerberos* is not reachable, although it seems to be switched on
    - Try to press ESC on *kerberos’* keyboard and wait for some seconds, then try again

3D Touch Table Usage Tutorial

Turn on the needed hardware:

- Turn on white power distributer
- Turn on *medusa* computer
- Activate synchronization button by pressing button in the circular hole on the right of the projector box
- Switch on *daedalos* computer for shutter communication

Supply a correct sync signal:

- Behind the large powerwall, directly connect sync cable labeled with “3D Table” to “Shutter Sender”, remove the T-piece if connected

Power on projectors:

- Press upper touch button “All ON/OFF” on the display located at the back of the synchronization unit
- Wait for one to two minutes for the projectors to start up

Synchronize graphics card outputs:

- Log in to *medusa*
- Change directory to */opt/client/dlp-tools*
- Execute *./genlock_3_k6000.sh*
- Start or restart muxer units by pressing switch connected to the white power distributor

The projectors should now show the login screen of *medusa.*

Start the tracking system:

- Start the “DTrack” application on the tracking computer
- Connect to the proposed tracking system
- Click on button “Start” in the upper left corner

Send correct shutter timings:

- Log in to *daedalos*
- Change directory to */opt/shutterConfig*
- Execute *./TABLE_123_active_stereo.xml*
- Type resend

You can now run applications on *medusa* and watch the outputs using shutter glasses 1, 2 and 3 (remember to switch them on first and turn them off again after usage).

Shutdown procedure:

- Press upper touch button “All ON/OFF” on the display located at the back of the synchronization unit
- Deactivate synchronization unit by pressing button in the circular hole on the right of the projector box
- Turn off *medusa* computer by pressing the power button
- Turn off muxer units by pressing switch connected to the white power distributor
- Wait for 5 minutes for the projectors to cool down
- Turn off white power distributor

Error spotting:

- The projectors do not react on the “All ON/OFF” button press and remain dark
    - Try to press the touch button again
- The *./genlock_3_k6000.sh* script on *medusa* outputs errors
    - Restart *medusa* and try again
- No login screen is visible after running the genlock script
    - Try to restart the muxer units by pressing the switch connected to the white power distributor
- The 3D picture looks strange, colors do not seem to fit together
    - Debug using */opt/client/dlp-tools/ramp_slot*

Large Powerwall and 3D Touch Table combined - Usage Tutorial

Turn on the needed hardware:

- Follow the instructions on the Large Powerwall Usage Tutorial and the 3D Touch Table Usage Tutorial

Supply a correct sync signal:

- At the back of the large powerwall, connect the following sync cables to the T-piece: “3D Table”, “Shutter Sender” and “Projectors”
- The sync generator is not needed in this case

Power on projectors:

- Follow the instructions on the Large Powerwall Usage Tutorial and the 3D Touch Table Usage Tutorial

Synchronize graphics card outputs:

- Follow the instructions on the Large Powerwall Usage Tutorial and the 3D Touch Table Usage Tutorial

The powerwall’s projectors should now show the login screen of *kerberos,* the table’s projectors the login screen of *medusa.*

Start the tracking system:

- Start the “DTrack” application on the tracking computer
- Connect to the proposed tracking system
- Click on button “Start” in the upper left corner

Send correct shutter timings:

- Log in to *daedalos*
- Change directory to */opt/shutterConfig*
- Execute *./GlassesHID [configuration_file]*
- Type resend

You can now run applications on *kerberos* and *medusa* and watch the outputs using shutter glasses specified in the configuration file loaded into *GlassesHID* (remember to switch them on first and turn them off again after usage).

Shutdown procedure:

- Follow the instructions on the Large Powerwall Usage Tutorial and the 3D Touch Table Usage Tutorial