

# **Technical Rider**

## **A/V Equipment**

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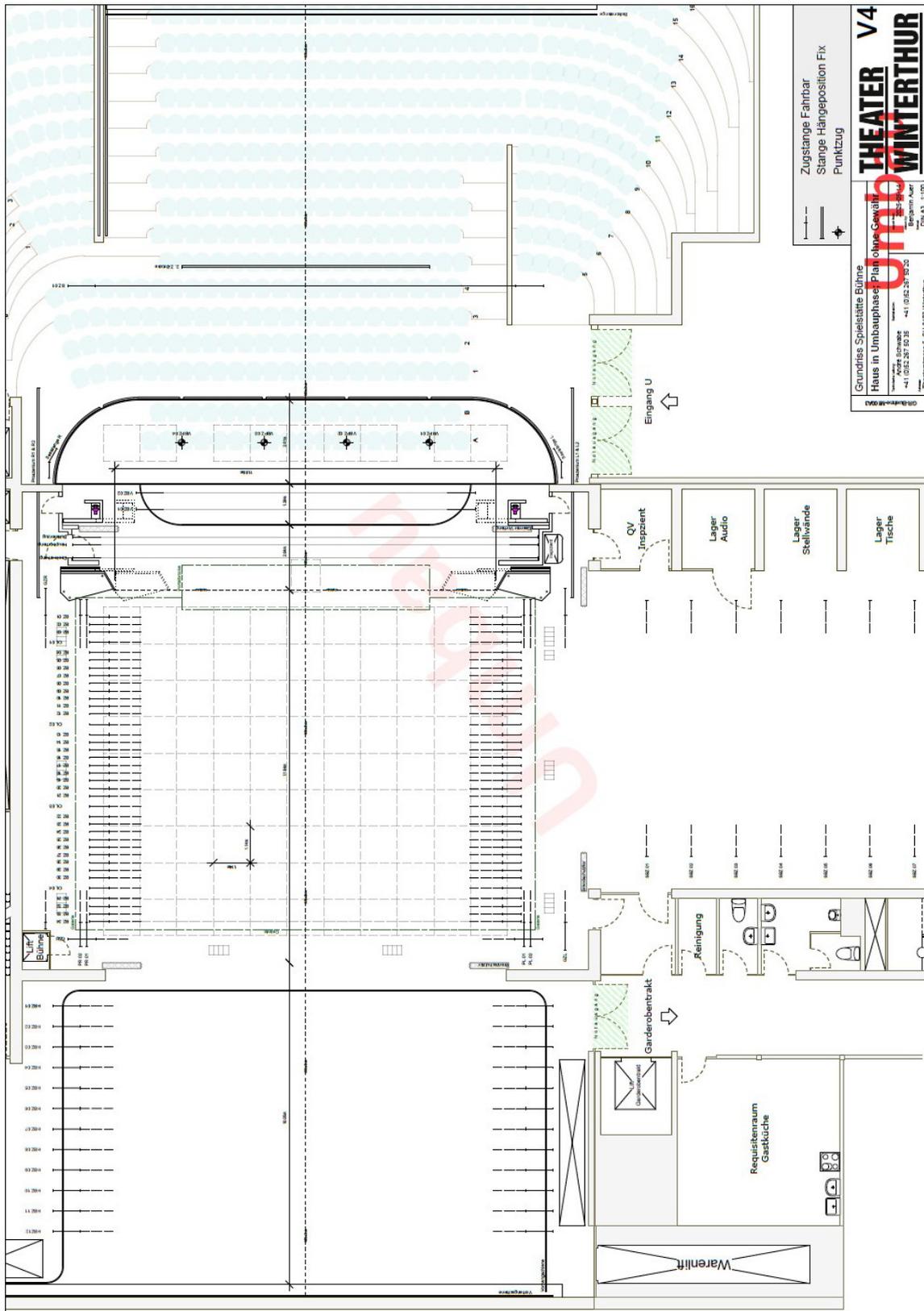
*This techrider is a work in progress*

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The plans are available as PDFs on our website or as DWG files upon request.

## **Main Soundsystem**

### **Installed Main PA**

#### **Loudspeakers MF / HF**

09 x Alcons Audio QR24 / 03 x Alcons Audio QM24 per side  
12 x Alcons Audio QR24 in the Portal Bridge  
02 x Alcons Audio QRP20 Sidefills per side  
03 x Alcons Audio LR7 Delays per side  
02 x Alcons Audio SR9 Balconyfills at FoH

#### **Loudspeakers LF**

02 x Alcons Audio BC543 flown at left and right

#### **Loudspeakers FX**

06 x Alcons Audio VR5 at the back of the audience  
02 x Alcons Audio VR12 behind the Ceiling for "Voice of God"

### **Stage Foldback**

05 x Alcons Audio LR7 in Portal Towers per side  
01 x Alcons Audio LR7B in Portal Towers per side  
06 x Alcons Audio LR7 in Portal Bridge at center

### **Amping**

12 x Alcons Audio Sentinel 10

### **Mixing System**

Yamaha Rivage PM5  
DSP EX-RX with 256ch Twinlane and 02 x HY144D Cards

#### **Interfaces**

01 x Yamaha RPiO622 installed in Amp City with 4 x RY-ML-SILK / 2 x RY-16-AE  
01 x Yamaha RPiO622 mobile with 4 x RY-ML-SILK / 2 x RY-16-DA  
02 x Yamaha RiO3224-D2  
02 x Yamaha RiO3224-D  
01 x Yamaha RiO1608 installed at FoH  
01 x Yamaha RiO1608 installed at Foyer FoH  
01 x Yamaha RiO1608

#### **System Controller**

Prodigy.MP  
32 x Dante in/out  
32 x Milan/AVB in/out  
08 x AES3 in/out  
08 x Analog in/out

## **Foyer Soundsystem**

### **Installed Main PA**

05 x Alcons Audio LR7 per side  
02 x Alcons Audio LR7B per side

### **Mobile Monitoring**

04 x Alcons Audio VR8

### **Amping**

03 x Alcons Audio Sentinel 10

## **Mixing System**

Yamaha DM7C

### **Interfaces**

02 x Yamaha RiO3224-D2  
02 x Yamaha RiO3224-D  
01 x Yamaha RiO1608 installed at Foyer FoH  
01 x Yamaha RiO1608

## **Backstage Venue Soundsystem**

### **Main PA**

03 x d&b Audio AL90 per side  
01 x d&b Audio V-Sub per side

### **Mobile Monitoring / FX**

08 x d&b Audio E8

### **Amping**

05 x d&b Audio D40

## **Mixing System**

Yamaha DM7C with Extension

### **Interfaces**

01 x d&b Audio D10  
02 x Yamaha RiO3224-D2  
02 x Yamaha RiO3224-D  
01 x Yamaha RiO1608

## **HF System**

### **Main Stage / Backstage Venue**

#### **Tx/Rx**

- 24 x Shure Axient Digital Rx
- 24 x Shure Axient AD2 Handheld Mic
- 24 x Shure ADX1 Bodypack with **LEMO**

#### **Accessories**

- 24 x Shure SM58 Capsule
- 12 x Shure KSM9 Capsule
- 04 x Shure beta87 Capsule
- 15 x DPA 6061 beige
- 10 x DPA 6061 black
- 10 x DPA 6066 beige
- 01 x Shure AXT600 Frequency Manager
- 03 x Shure Showlink Accesspoint

### **Foyer**

#### **Tx/Rx**

- 04 x Shure Axient Digital Rx
- 04 x Shure Axient AD2 Handheld Mic
- 04 x Shure Axient ADX1 Bodypack with **LEMO**

#### **Accessories**

- 04 x Shure Axient SM58 Capsule
- 04 x DPA 6061 beige
- 04 x DPA 6061 black
- 04 x DPA 6066

## **Please note: radio frequencies in Switzerland**

If the production brings any HF devices please let us know in advance, we will provide you with appropriate frequencies on arrival.

This is also relevant if you bring ANY radio equipment. We will need the operating frequency of the devices in advance to check if they are running in accordance with the Swiss frequency allocation plan.

Switzerland does not have the same frequency allocation plan as the European Union.

## **Please note: the samplerate of our audio network**

Our network is running at 96kHz. This setting will not be changed for any of our devices.

## **Mobile Equipment**

### **Sound Reinforcement**

#### **Alcons Audio**

12 x LR18 Line Array

06 x RR12

04 x BC332

08 x VR8

#### **d&b Audio**

08 x AL90

04 x V-Sub

08 x E8

#### **Meyer Sound**

04 x Ultra X20 with U-Bracket

02 x Ultra X20 with Stand-Mount

02 x USW112-P

#### **Kling & Freitag**

06 x Passio

#### **GlenSound**

06 x Divine PoE Speaker with Volume Control

### **Mixing Desks**

#### **Yamaha**

01 x Yamaha DM7 with Extension

01 x Yamaha DM7C with Extension

01 x Yamaha PM3500 - **on very special request only** 😊

#### **Allen & Heath**

01 x Allen & Heath ZED10 FX

01 x Allen & Heath GL3600 - **on very special request only** 😊

## **Microphones**

### **Dynamic Vocal**

06 x Shure SM58

03 x Shure Beta 58

### **Condenser Vocal**

02 x Neumann KMS105

02 x DPA D:Factoll

### **Dynamic Instrument**

04 x Sennheiser E906

04 x Sennheiser MD421

01 x Shure SM57

01 x Shure Beta57

01 x EV RE20

01 x EV N/D868

### **Condenser Instrument**

03 x Shure Beta98

091 x Shure Beta 91

### **Small Diaphragm Condenser**

04 x Neumann KM184 Stereo Pair

01 x Shoeps CMC6U MK4 Stereo Pair

01 x Shoeps MSTC ORTF

01 x Sennheiser MKH416 P48

01 x Sennheiser MKH406 P48

01 x AKG CK69-ULS

04 x AKG C747

04 x Audix MI255B

02 x AKG CK77

04 x Audio Technica AT4021

02 x AKG SE 300B

### **Shotgun**

08 x AKG C480B

01 x Audio Technica AT 897

### **Large Diaphragm Condenser**

01 x AKG C414

02 x AKG C214

### **Others**

08 x Crown PCC160

## **Video**

### **Scenic**

#### **Projectors**

02 x Barco UDM4k15 with Flyframe

01 x Barco UDM4k30 without Flyframe, Installed in Projection Booth.

#### **Optics**

From 0.4-10.2 in sufficient numbers

#### **Surtitles**

01 x Gerriets Supertitle 2000 per Side. 2.00mx0.5m

01 x LED Processor to Supertitle.

The System is compatible with Powerpoint, Qlab or any Video source. Powerpoint can be imported into the Supertitle Software. Please see the necessary settings in the surtitle specs below. The pixel width of the text must not exceed the pixel width of the screen. Input is DVI-D or HDMI.

## **Playback System**

### **Projection**

04 x Macbook M4 with Qlab

01 x Mac Studio M3 Pro with Qlab

### **Surtitles**

01 x Thinkpad with Gerriets Supertitle Software

## **Video Switches**

01 x Blackmagic ATEM mini for HDMI Sources

01 x Roland V-160HD for SDI and HDMI Sources

## **Video Monitoring**

### **Screens**

05 x Lilliput 8K installed on stage

06 x Neovo X-22G for mobile use

Various Mounting options for the Screens

### **Cameras**

02 x Panasonic PTZ at FoH. Remote controlled at the Stage Manager Desk. Infrared possible.

01 x Changeover Camera behind the Curtain

01 x Conductor Camera

01 x Curtain Camera on line of the curtain from Stage Manager side

### **Matrix**

01 x 40x40 Blackmagic Videohub. Remote controlled at the Stage Manager Desk.

## **Signal Distribution**

04 x Lightware OPTC TX/RX

05 x Blackmagic SDI to HDMI micro Converter

05 x Blackmagic HDMI to SDI micro Converter

## **Communication**

### **Intercom**

#### **Wired**

05 x 19' Riedel Intercom Station

05 x Riedel Mobile Tabletop station

#### **Wireless**

14 x Riedel Bolero Beltpacks

The intercom has an interface from and to our handheld radio system. Half duplex communication to 30 handheld devices is possible.

### **Please note: setup of the Intercom**

We have four partylines available on every device.

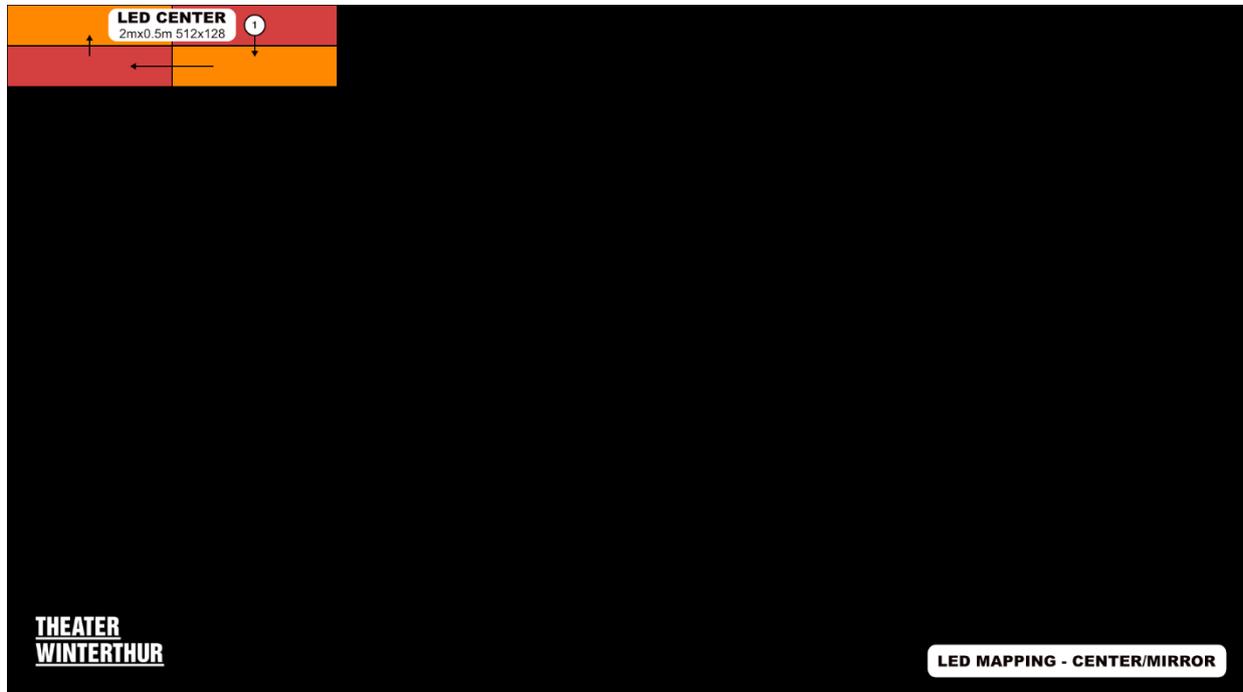
If you have any special needs for partylines or direct calls let us know in advance. The programming takes time and **can not be done just before the performance.**

If you are not familiar with the Riedel Bolero and Artist Intercom devices we will conduct a short training lesson. Please try to plan accordingly, it takes about 15 Minutes.

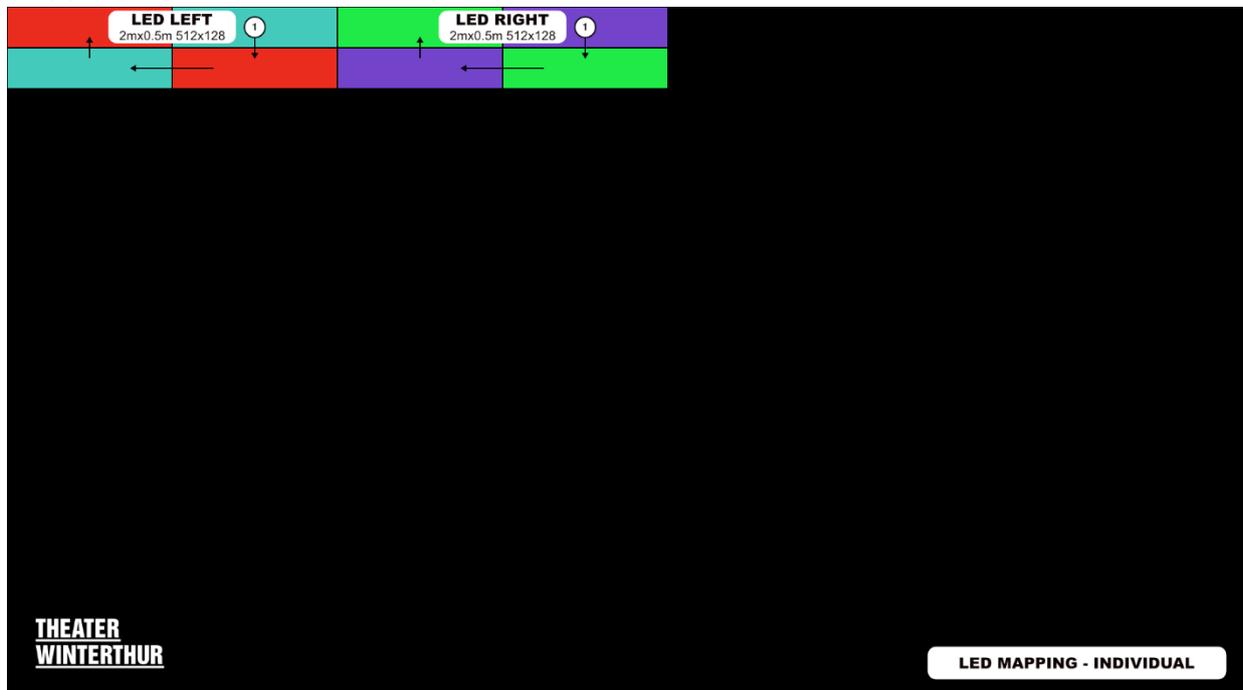
## Surtitle Pixel Specs

Surface 1920x1080

Mapping Mirrored / Center



Mapping Individual



These pictures show you the exact pixel count a session must not exceed as well as the area on a 1920x1080 picture that is shown on the LED Walls.

## **Surtitle with supertitle software and .pptx import**

### **First steps**

1. Download the .zip file "Surtitles.zip" from our website
2. Unpack the .zip file on your Windows PC
3. Start the Supertitle.exe from the "Supertitle - 1.2.1" folder

### **Import a .pptx or Word file**

4. To import a .pptx or word file go to "File" – "Import Language 1" and choose your file. Continue with step 5.

### **OR - Start a new session**

5. To start a new session click "Finish Preparation" at the Bottom of the screen **5.1** without loading a file and **5.2** Load a prepared startfile from the folder "Setup" and start writing your surtitles. **Skip Steps 5.1-5.2 if you loaded a .pptx or word file**

### **Check your session**

6. If the maximum character count per line is exceeded it will not be shown on the screen. You have to check this if you imported a file. The maximum character count is dependent on letter size

### **Questions**

The downloaded zip file contains a manual, in case you need any help.

## Photos



*Front of House*



*View from Front of House*



*Surtitle screen right*



*Both surtitle screens. Height is adjustable*



*View from stage to auditorium with the foldback array in the towers*



*Stage manager desk*