

---

Leitung Tonabteilung, Bernhard Klein, Tel.: 069 / 212-37116  
[Bernhard.Klein@buehnen-frankfurt.de](mailto:Bernhard.Klein@buehnen-frankfurt.de)

## Sound Equipment Schauspielhaus

Stand: September 2018

### Mixing Console:

Digital Console (auditorium, rear-centre)  
Inputs: 144 mono  
Outputs: 72 Mix Busse / 36 Matrizen  
Type: **Yamaha PM10 - RIVAGE**

### Network:

Console network: **TWINLANe**  
**Dante** network can coexist with the TWINLANe network as required

### Periphery:

1x **Mac Pro 5.1 6-Core 3,33 Ghz** computer  
1x **Ableton LIVE 10** software sequencer - and soundfile player software  
2x **Tascam CD 01-U** cd-player with single cue option  
1x **TC M2000** multieffect unit  
1x **Eventide Eclipse** multieffect unit

Wireless Microphon System:

**Wisyscom 24 ch UHF diversity system** with  
24 x pocket transmitter with DPA 4061 microphones  
6 x handheld transmitter with DPA capsules

Wireless In Ear System:

8 ch **SHURE PSM 900**

Mikrophones:

2x **Sennheiser MKH 20**  
2x **Sennheiser MKH 60**  
2x **Sennheiser MKE 416**  
3x **Sennheiser MD 441**  
2x **Sennheiser MKE 816**  
4x **Sennheiser MKE 2R (PZM)**  
2x **Shure Beta 91 (PZM)**  
4x **Neumann KM 184**  
6x **Shure SM 58**  
4x **Shure SM 57**

**Multicore System:**

Analog Patchbay with:  
 32 Lines to Stage Left  
 32 Lines to Stage Right  
 32 Lines to Stage centre

**Power Supply:**

230V AC /50Hz , Schuko or CEE 32A (separated from the lighting)

**PA System (fixed mounted):**

FOH:	4x	Meyer Sound UPQ-1P <b>Technical Specifications</b> <u>Frequency response</u> 60-16.000Hz +/- 3dB <u>Power rms / peak</u> 1200 W AES+250W AES <u>Output SPL</u> 136dB SPL@ 1m <u>Dispersion</u> 80°x50° . <u>Components</u> 15" cone / 4" driver <u>X-over</u> 2-way active
	2x	Meyer Sound UPJ-1P <b>Technical Specifications</b> <u>Frequency response</u> 58-19.000Hz +/- 3dB <u>Power rms / peak</u> 400W AES+100W AES <u>Output SPL</u> 128dB Cont. <u>Dispersion</u> 80°x50° <u>Components</u> 10" cone / 3" ND driver <u>X-over</u> 2-way active
	4x	Meyer Sound UPA-1P <b>Technical Specifications</b> <u>Frequency response</u> 60-18.000Hz +/- 3dB <u>Power rms / peak</u> 550 W total <u>Output SPL</u> 133dB SPL@ 1m <u>Dispersion</u> 100x40 dgr. <u>Components</u> 12" cone / 3" ND driver <u>X-over</u> 2-way active
	4x	Meyer Sound 900-LFC <b>Technical Specifications</b> <u>Operating Frequency Range</u> 2 31 Hz – 125 Hz <u>Phase Response</u> 40 Hz – 110 Hz ±30 degrees <u>Components</u> 1x 18" dual-coil very long excursion cone
Surround:	8x	Kling &Freitag CA 106
Backstage:	2x	Meyer Sound UPQ-1P <b>Technical Specifications</b> <u>Frequency response</u> 60-16.000Hz +/- 3dB <u>Power rms / peak</u> 1200 W AES+250W AES <u>Output SPL</u> 136dB SPL@ 1m <u>Dispersion</u> 80°x50° . <u>Components</u> 15" cone / 4" driver <u>X-over</u> 2-way active

**PA System (portable):**

2x Meyer Sound UPA-1P

**Technical Specifications**

Frequency response 60-18.000Hz +/- 3dB  
Power rms / peak 550 W total  
Output SPL 133dB SPL@ 1m  
Dispersion 100x40 dgr.  
Components 12" cone / 3" ND driver  
X-over 2-way active

4x KS T4 60°/90°

4x KS CPA-M 12" **selfpowered fullrange speaker**

**Technical Specifications**

Frequency response 48-20.000Hz +/- 3dB  
Power rms / peak 600W + 100W / 1200W + 200W  
Output SPL 127dB cont. / 133dB peak  
Dispersion 90x40 dgr.  
Components 12" cone + 1" driver  
X-over 2-way active / 1200Hz

For further information about KS speakers please refer to <http://www.ks-audio.de/index2.html>

6x d&B E3 (frontfill)

2x KS CPA-08 **selfpowered fullrange speaker**