Rose Theatre – Sound Specification

4 off d&b Q10 passive loudspeaker, flown from inside of Technical Gallery 3 (PA), driven by d&b D80 4-channel amplifier

2 off EM Acoustics EMS112 sub loudspeaker, flown above Technical Gallery 1 (Subs), driven by QSC GXD8 amplifier

8 off EM Acoustics EMS51 passive loudspeaker, flown from Balcony rail (Delays), driven by 2 off QSC CXD4.2Q amplifiers

8 off JBL Control 1 Pro passive loudspeaker, installed on Stalls level (Surround), driven by 2 off D4-500 amplifier

6 off JBL Control 1 Pro passive loudspeaker, installed on Balcony level (Surround), driven by 2 off D4-500 amplifier

The whole PA system is controlled and configurable via a QSC Q-Sys DSP processing system. This allows the following control:

1-channel: PA, Subs, Delays, Surround fed from 1 input

2 channel: PA and Delays on one input, Subs and Surround from second input

4-channel: PA on input 1, Subs on input 2, Delays on input 3, Surround on input 4 (default configuration)

8-channel: PA on inputs 1 and 2, Subs on inputs 3 and 4, Delays on inputs 5 and 6, Surrounds on inputs 7 and 8

Full-channel: Individual input into each amplifier channel (currently achievable only with DiGiCo SD9 console)

User control is via a Windows tablet at the Control Position, which gives control of powering up, muting, routing, delay timing and EQ, as well as the status of the Core, I/O Frame, CXD4.2Q amplifiers and the D80 amplifier. Setups can be saved to one of two snapshot records.

Please see the associated Q-Sys patch document for input patching arrangements.

1 off Soundcraft Si Expression 1 mixing console, 16 local inputs, 16 local outputs with Soundcraft miniStageBox 32 with 32 mappable inputs, 8 analogue mappable outputs and 8 AES/EBU mappable outputs

Default output configuration (Q-Sys in 4-channel mode):

Si routing Output Area

Mix 1: Stage box AES 9 PA

Mix 2: Stage box AES 10 Subs

Mix 3: Stage box AES 11 Delays

Mix 4: Stage box AES 12 Surrounds

The 8 analogue and 8 AES outputs from the Si StageBox are normalised to the first 16 Q-Sys inputs via a 2 x 32 GPO 316B jackfield, located in the Rose Patch Room.

Specification sheets for the loudspeakers and the user manuals for the mixing console are provided on the VLE.