Stage.OS

PRODUCTION SUITE

Stage.IO

INPUT & OUTPUT SHEETS

New musical · UK tour — Bristol

New musical · UK tour · Harbour Theatre, Bristol · Example Productions Ltd

Exported **13 October 2026** Sheets **37** Passwords **Hidden**

New musical · UK tour — Bristol — I/O Sheets

New musical · UK tour · Harbour Theatre, Bristol · Example Productions Ltd

Patch — Inputs

#	NAME	TYPE	STAGE SOCKET	LOOM	RACK	FOH	MON
1	Nina	Radio	SL box R1			1	1
2	Eli	Radio	SL box R2			2	2
3	Mrs Hart	Radio	SL box R3			3	3
4	The Captain	Radio	SL box R4			4	4
5	Ensemble 1	Radio	SL box R5			5	5
6	Ensemble 2	Radio	SL box R6			6	6
7	Ensemble 3	Radio	SL box R7			7	7
8	Ensemble 4	Radio	SL box R8			8	8
9	Handheld 1	Radio	SL box R25			9	9
17	Kick	Mic	Pit box 1			17	17
18	Snare	Mic	Pit box 2			18	18
19	OH L	Mic	Pit box 3			19	19
20	OH R	Mic	Pit box 4			20	20
21	Bass DI	DI	Pit box 5			21	21
22	Gtr amp	Mic	Pit box 6			22	22
23	Keys 1 L	DI	Pit box 7			23	23
24	Keys 1 R	DI	Pit box 8			24	24
25	Violin 1	Mic	Pit box 9			25	25
26	Violin 2	Mic	Pit box 10			26	26
27	Cello	Mic	Pit box 11			27	27
28	Reed 1	Mic	Pit box 12			28	28
29	Reed 2	Mic	Pit box 13			29	29
30	Trumpet	Mic	Pit box 14			30	30
41	QLab main L	Dante	FOH — Dante			—	—
42	QLab main R	Dante	FOH — Dante			—	—
43	QLab SFX L	Dante	FOH — Dante			—	—
44	QLab SFX R	Dante	FOH — Dante			—	—
45	Click	Dante	FOH — Dante			—	—
47	Talkback FOH	Radio	FOH local			47	47

Patch — Outputs

#	NAME	TYPE	STAGE SOCKET	LOOM	RACK	FOH	MON
1	PA L	Matrix	Optocore A1			—	—
2	PA R	Matrix	Optocore A2			—	—
3	Sub	Matrix	Optocore A3			—	—
4	Front fill	Matrix	Optocore A4			—	—
5	Delay L	Matrix	Optocore A5			—	—
6	Delay R	Matrix	Optocore A6			—	—
9	Stage foldback L	Aux	SD-Rack Out 1			—	—
10	Stage foldback R	Aux	SD-Rack Out 2			—	—
11	MD monitor	Aux	Pit Rack Out 1			—	—
12	Drum fill	Aux	Pit Rack Out 2			—	—
17	Show relay	Aux	Optocore A9			—	—
18	Comms programme	Aux	FOH local Out 3			—	—
19	Record L	Aux	Orange Box Dante 9			—	—
20	Record R	Aux	Orange Box Dante 10			—	—

By destination

FOH

FOH CH	NAME	TYPE	FROM
1	Nina	Radio	SL box R1
2	Eli	Radio	SL box R2
3	Mrs Hart	Radio	SL box R3
4	The Captain	Radio	SL box R4
5	Ensemble 1	Radio	SL box R5
6	Ensemble 2	Radio	SL box R6
7	Ensemble 3	Radio	SL box R7
8	Ensemble 4	Radio	SL box R8
9	Handheld 1	Radio	SL box R25
17	Kick	Mic	Pit box 1
18	Snare	Mic	Pit box 2
19	OH L	Mic	Pit box 3
20	OH R	Mic	Pit box 4
21	Bass DI	DI	Pit box 5
22	Gtr amp	Mic	Pit box 6
23	Keys 1 L	DI	Pit box 7
24	Keys 1 R	DI	Pit box 8
25	Violin 1	Mic	Pit box 9
26	Violin 2	Mic	Pit box 10
27	Cello	Mic	Pit box 11
28	Reed 1	Mic	Pit box 12
29	Reed 2	Mic	Pit box 13
30	Trumpet	Mic	Pit box 14
47	Talkback FOH	Radio	FOH local

MON

MON CH	NAME	TYPE	FROM
1	Nina	Radio	SL box R1
2	Eli	Radio	SL box R2
3	Mrs Hart	Radio	SL box R3
4	The Captain	Radio	SL box R4
5	Ensemble 1	Radio	SL box R5
6	Ensemble 2	Radio	SL box R6
7	Ensemble 3	Radio	SL box R7

MON CH	NAME	TYPE	FROM
8	Ensemble 4	Radio	SL box R8
9	Handheld 1	Radio	SL box R25
17	Kick	Mic	Pit box 1
18	Snare	Mic	Pit box 2
19	OH L	Mic	Pit box 3
20	OH R	Mic	Pit box 4
21	Bass DI	DI	Pit box 5
22	Gtr amp	Mic	Pit box 6
23	Keys 1 L	DI	Pit box 7
24	Keys 1 R	DI	Pit box 8
25	Violin 1	Mic	Pit box 9
26	Violin 2	Mic	Pit box 10
27	Cello	Mic	Pit box 11
28	Reed 1	Mic	Pit box 12
29	Reed 2	Mic	Pit box 13
30	Trumpet	Mic	Pit box 14
47	Talkback FOH	Radio	FOH local

FOH Inputs

CH	NAME	SOURCE	PATCH	INSERT	DIRECT OUT	BUSS	NOTES
Principals — radio mics							
1	Nina	DPA 6066 · AD4Q 1	SD-Rack · RF 1			Cast	hairline, beige
2	Eli	DPA 6066 · AD4Q 2	SD-Rack · RF 2			Cast	hairline, brown
3	Mrs Hart	DPA 6066 · AD4Q 3	SD-Rack · RF 3			Cast	
4	The Captain	DPA 6066 · AD4Q 4	SD-Rack · RF 4			Cast	over-ear, wig change act 2
5	Ensemble 1	DPA 6066 · AD4Q 5	SD-Rack · RF 5			Ens	
6	Ensemble 2	DPA 6066 · AD4Q 6	SD-Rack · RF 6			Ens	
7	Ensemble 3	DPA 6066 · AD4Q 7	SD-Rack · RF 7			Ens	
8	Ensemble 4	DPA 6066 · AD4Q 8	SD-Rack · RF 8			Ens	
9	Handheld 1	Shure ADX2/K9	SD-Rack · RF 25			Cast	finale only
Pit — rhythm							
17	Kick	Shure Beta 91A	Pit Rack · Pit 1			Drums	
18	Snare	Shure SM57	Pit Rack · Pit 2			Drums	
19	OH L	DPA 4011	Pit Rack · Pit 3			Drums	
20	OH R	DPA 4011	Pit Rack · Pit 4			Drums	
21	Bass DI	Radial J48	Pit Rack · Pit 5			Band	
22	Gtr amp	Sennheiser e906	Pit Rack · Pit 6			Band	Fender Deluxe
23	Keys 1 L	Radial ProD2	Pit Rack · Pit 7			Keys	Nord Stage 4
24	Keys 1 R	Radial ProD2	Pit Rack · Pit 8			Keys	
Pit — strings and reeds							
25	Violin 1	DPA 4099	Pit Rack · Pit 9			Strings	
26	Violin 2	DPA 4099	Pit Rack · Pit 10			Strings	
27	Cello	DPA 4099	Pit Rack · Pit 11			Strings	
28	Reed 1	DPA 4099	Pit Rack · Pit 12			Reeds	doubles flute
29	Reed 2	DPA 4099	Pit Rack · Pit 13			Reeds	
30	Trumpet	DPA 4099	Pit Rack · Pit 14			Brass	
Playback							
41	QLab main L	RMio64-D · Dante 1	Orange Box · Dante 1			PB	Mac Studio A
42	QLab main R	RMio64-D · Dante 2	Orange Box · Dante 2			PB	
43	QLab SFX L	RMio64-D · Dante 3	Orange Box · Dante 3			PB	
44	QLab SFX R	RMio64-D · Dante 4	Orange Box · Dante 4			PB	
45	Click	RMio64-D · Dante 5	Orange Box · Dante 5			PB	to MD only
47	Talkback FOH	Shure SM58	FOH local · Local 1			TB	

FOH Outputs

CH	BUSS TYPE	NAME	FEED TO	DEVICE	NOTES
PA					
1	Matrix	PA L	Lake LM 44 in 1	Optocore · A1	AES
2	Matrix	PA R	Lake LM 44 in 2	Optocore · A2	AES
3	Matrix	Sub	Lake LM 44 in 3	Optocore · A3	
4	Matrix	Front fill	Lake LM 44 in 4	Optocore · A4	
5	Matrix	Delay L	Lake LM 26 in 1	Optocore · A5	
6	Matrix	Delay R	Lake LM 26 in 2	Optocore · A6	
Foldback					
9	Aux	Stage foldback L	d&b E8 stage L	SD-Rack · Out 1	
10	Aux	Stage foldback R	d&b E8 stage R	SD-Rack · Out 2	
11	Aux	MD monitor	Yamaha DZR12	Pit Rack · Out 1	MD mix
12	Aux	Drum fill	d&b E12 pit	Pit Rack · Out 2	
Feeds					
17	Aux	Show relay	Dressing rooms	Optocore · A9	to venue paging
18	Aux	Comms programme	HelixNet HMS-4X	FOH local · Out 3	
19	Aux	Record L	Mac Studio A	Orange Box · Dante 9	
20	Aux	Record R	Mac Studio A	Orange Box · Dante 10	

Radio Mics

CH	NAME	TX	RX	RX OUT	TX GAIN	CAPSULE	COLOUR	IP	NOTES
1	Nina	ADX1M	AD4Q	-6 dB	+6 dB	6066	beige	192.168.20.11	
2	Eli	ADX1M	AD4Q	-6 dB	+6 dB	6066	brown	192.168.20.11	
3	Mrs Hart	ADX1M	AD4Q	-6 dB	+6 dB	6066	beige	192.168.20.11	
4	The Captain	ADX1M	AD4Q	-6 dB	+6 dB	6066	black	192.168.20.11	wig change act 2, second capsule
5	Ensemble 1	ADX1M	AD4Q	-6 dB	+6 dB	6066	beige	192.168.20.12	
6	Ensemble 2	ADX1M	AD4Q	-6 dB	+6 dB	6066	brown	192.168.20.12	
7	Ensemble 3	ADX1M	AD4Q	-6 dB	+6 dB	6066	beige	192.168.20.12	
8	Ensemble 4	ADX1M	AD4Q	-6 dB	+6 dB	6066	black	192.168.20.12	
9	Ensemble 5	ADX1M	AD4Q	-6 dB	+6 dB	6066	beige	192.168.20.13	
10	Ensemble 6	ADX1M	AD4Q	-6 dB	+6 dB	6066	brown	192.168.20.13	
11	Ensemble 7	ADX1M	AD4Q	-6 dB	+6 dB	6066	beige	192.168.20.13	
12	Ensemble 8	ADX1M	AD4Q	-6 dB	+6 dB	6066	brown	192.168.20.13	
13	Swing 1	ADX1M	AD4Q	-6 dB	+6 dB	6066	beige	192.168.20.14	
14	Swing 2	ADX1M	AD4Q	-6 dB	+6 dB	6066	black	192.168.20.14	
15	Handheld 1	ADX2/K9	AD4Q	-6 dB	0 dB	KSM9		192.168.20.14	finale only
16	Handheld 2	ADX2/K9	AD4Q	-6 dB	0 dB	KSM9		192.168.20.14	

IEMs

CH	NAME	TX	BODY PACK	FREQ	OUTPUT	EARPIECE	IP	NOTES
1	MD	P10T	P10R+	518.200				
2	Drums	P10T	P10R+	519.750				
3	Keys	P10T	P10R+	521.300				
4	Bass	P10T	P10R+	522.850				

MON Inputs

CH	NAME	SOURCE	PATCH	INSERT	NOTES
Principals — radio mics					
1	Nina	DPA 6066 · AD4Q 1	SD-Rack · RF 1	De-ess for the IEMs	
2	Eli	DPA 6066 · AD4Q 2	SD-Rack · RF 2		
3	Mrs Hart	DPA 6066 · AD4Q 3	SD-Rack · RF 3		
4	The Captain	DPA 6066 · AD4Q 4	SD-Rack · RF 4		
5	Ensemble 1	DPA 6066 · AD4Q 5	SD-Rack · RF 5		
6	Ensemble 2	DPA 6066 · AD4Q 6	SD-Rack · RF 6		
7	Ensemble 3	DPA 6066 · AD4Q 7	SD-Rack · RF 7		
8	Ensemble 4	DPA 6066 · AD4Q 8	SD-Rack · RF 8		
9	Handheld 1	Shure ADX2/K9	SD-Rack · RF 25		
Pit — rhythm					
17	Kick	Shure Beta 91A	Pit Rack · Pit 1	Gate on, fast release	
18	Snare	Shure SM57	Pit Rack · Pit 2		
19	OH L	DPA 4011	Pit Rack · Pit 3		
20	OH R	DPA 4011	Pit Rack · Pit 4		
21	Bass DI	Radial J48	Pit Rack · Pit 5		
22	Gtr amp	Sennheiser e906	Pit Rack · Pit 6		
23	Keys 1 L	Radial ProD2	Pit Rack · Pit 7	Stereo pair to the MD	
24	Keys 1 R	Radial ProD2	Pit Rack · Pit 8		
Pit — strings and reeds					
25	Violin 1	DPA 4099	Pit Rack · Pit 9		
26	Violin 2	DPA 4099	Pit Rack · Pit 10		
27	Cello	DPA 4099	Pit Rack · Pit 11		
28	Reed 1	DPA 4099	Pit Rack · Pit 12		
29	Reed 2	DPA 4099	Pit Rack · Pit 13		
30	Trumpet	DPA 4099	Pit Rack · Pit 14		
Playback					
41	QLab main L	RMio64-D · Dante 1	Orange Box · Dante 1		
42	QLab main R	RMio64-D · Dante 2	Orange Box · Dante 2		
43	QLab SFX L	RMio64-D · Dante 3	Orange Box · Dante 3		
44	QLab SFX R	RMio64-D · Dante 4	Orange Box · Dante 4		
45	Click	RMio64-D · Dante 5	Orange Box · Dante 5		
47	Talkback FOH	Shure SM58	FOH local · Local 1		

MON Outputs

CH	MIX	TYPE	FED TO	DEVICE	LEVEL	NOTES
Pit — IEMs						
1	MD	IEM	Hannah (MD / Conductor)	P10T 1 · A	-10 dB	
2	Keys 1	IEM	Keys 1	P10T 1 · B	-10 dB	
3	Drums	IEM	Drums	P10T 2 · A	-8 dB	Click on top
4	Bass	IEM	Bass	P10T 2 · B	-10 dB	
Pit — wedges and click						
5	MD wedge	Wedge	MD position	Pit Rack · Out 1	0 dB	
6	Drum fill	Drum Fill	Drums	Pit Rack · Out 2	0 dB	
7	Click	Click	Pit — all players	ME-U hub · Ch 40	-6 dB	From Main QLab
Stage						
8	Sidefill L	Sidefill	Stage left	SD-Rack · Out 3	-3 dB	
9	Sidefill R	Sidefill	Stage right	SD-Rack · Out 4	-3 dB	
10	Downstage wedges	Wedge	Lip, centre	SD-Rack · Out 5	-6 dB	Ballad scenes only
11	Talkback to stage	Talkback	Stage foldback	SD-Rack · Out 6	0 dB	

Networking

IP	ALLOCATED TO	ASSIGNMENT	DEVICE	SWITCH	USER	PASSWORD	NOTES
192.168.10.1	FOH	Static	FOH switch	SW-FOH	admin	••••••	M4250, uplink to amp rack
192.168.10.2	Amp rack	Static	Amp switch	SW-AMP	admin	••••••	
192.168.10.3	Pit	Static	Pit switch	SW-PIT	admin	••••••	
192.168.10.4	RF	Static	RF switch	SW-RF	admin	••••••	
192.168.10.20	FOH	Static	DiGiCo Quantum 338	SW-FOH			console control
192.168.10.21	Stage	Static	DiGiCo SD-Rack	SW-AMP			
192.168.10.30	Amp rack	Static	Lake LM 44	SW-AMP	admin	••••••	Lake Controller
192.168.10.31	Amp rack	Static	Lake LM 26	SW-AMP	admin	••••••	
192.168.10.40	Amp rack	Static	d&b D80 #1	SW-AMP			R1 remote
192.168.10.41	Amp rack	Static	d&b D80 #2	SW-AMP			
192.168.10.42	Amp rack	Static	d&b D80 #3	SW-AMP			
192.168.10.43	Amp rack	Static	d&b D80 #4	SW-AMP			
192.168.10.50	FOH	Static	Mac Studio A	SW-FOH	sound	••••••	QLab main
192.168.10.51	FOH	Static	Mac Studio B	SW-FOH	sound	••••••	QLab backup
192.168.10.52	FOH	Static	RMio64-D	SW-FOH			
192.168.20.11	RF	Static	Shure AD4Q 1	SW-RF	admin	••••••	Wireless Workbench
192.168.20.12	RF	Static	Shure AD4Q 2	SW-RF	admin	••••••	
192.168.20.13	RF	Static	Shure AD4Q 3	SW-RF	admin	••••••	
192.168.20.14	RF	Static	Shure AD4Q 4	SW-RF	admin	••••••	
192.168.30.10	SM desk	Static	HelixNet HMS-4X	SW-FOH	admin	••••••	HelixNet Core
192.168.30.11	Fly floor	Static	FreeSpeak II base	SW-FOH	admin	••••••	

WiFi

SSID	BAND	CHANNEL	SECURITY	PASSWORD	VLAN	NOTES
192.168.10.5 · FOH rail · Lake Controller, WWB, QLab remote						
NM-SOUND	5 GHz	36	WPA2	••••••	10	
192.168.10.6 · Fly floor SL						
NM-STAGE	5 GHz	44	WPA2	••••••	10	

Amp Feeds

AMP	MODEL	LOCATION	OUTPUTS	INPUTS	GAIN	DSP PRESET	IMPEDANCE	NOTES
Main L top	D80	Amp rack 1	Main L ×3					
Main L bottom	D80	Amp rack 1	Main L ×3					
Main R top	D80	Amp rack 1	Main R ×3					
Main R bottom	D80	Amp rack 1	Main R ×3					
Subs	D80	Amp rack 1	Subs ×4 / Subs ×2					
Front fills	10D	Amp rack 1	Front fills ×6					
Delays	10D	Amp rack 1	Delays ×4					

TimeCode Distribution

SOURCE	FORMAT	DESTINATION	CONNECTOR	LEVEL	NOTES
Main QLab	LTC 25 fps	LX desk (grandMA3)	XLR	0 dBu	
Main QLab	LTC 25 fps	Video server	XLR	0 dBu	
Rosendahl Nanosyncs HD	Word clock	SD-Rack (SR)	BNC	TTL	
Rosendahl Nanosyncs HD	Video ref (tri-level)	Smart Videohub	BNC	—	Keeps the cameras locked

LTC Plot

NO.	TITLE	START	DURATION	NOTES
1	Overture	01:00:00:00	03:42	
2	Harbour storm	01:05:10:00	02:18	LX and flys run from this
3	Act 1 finale	01:48:30:00	04:05	
4	Entr'acte	02:00:00:00	02:10	
5	Shipwreck	02:22:40:00	01:55	Video, LX and automation
6	Bows	03:10:00:00	03:20	

QLX — Cue Lights

NO.	NAME / FUNCTION	LOCATION	NOTES
1	Fly floor	Fly floor SL	cat5
2	LX board	Control room	cat5
3	Followspot 1	Rear gallery	cat5
4	Followspot 2	Rear gallery	cat5
5	MD	Pit, MD position	cat5
6	Stage left	SL wing	cat5
7	Stage right	SR wing	cat5
8	Automation	SR automation desk	cat5
9	Wardrobe	Quick-change SL	cat5
10	Sound	FOH	cat5

FOH Local IO

GROUP	NO	CONNECTOR	NAME	DESTINATION	NOTES
Local mic in	1	XLR-F	Talkback mic	SM58 on gooseneck at FOH	
Local mic in	2	XLR-F	Bricasti M7 return L	FOH rack	
Local mic in	3	XLR-F	Bricasti M7 return R	FOH rack	
Local mic in	4	XLR-F	QLab backup L	Backup QLab, analogue out 1	
Local mic in	5	XLR-F	QLab backup R	Backup QLab, analogue out 2	
Local mic in	6	XLR-F			
Local mic in	7	XLR-F			
Local mic in	8	XLR-F			
Local line out	1	XLR-M	Bricasti M7 send	FOH rack	
Local line out	2	XLR-M	Talkback to stage	Pit speaker	
Local line out	3	XLR-M	Sound No 1 headphones L	Headphone amp	
Local line out	4	XLR-M	Sound No 1 headphones R	Headphone amp	
Local line out	5	XLR-M			
Local line out	6	XLR-M			
Local line out	7	XLR-M			
Local line out	8	XLR-M			
AES in	1	XLR-F			
AES in	2	XLR-F			
AES out	1	XLR-M			
AES out	2	XLR-M			

Mics / Stands

INSTRUMENT	MICROPHONE / IO	CLIP	STAND / RIGGING	ACCESSORIES	NOTES
Rhythm					
Kick	Shure Beta 91A	internal	Inside kick		
Snare	Shure SM57	A25D	K&M 259 short boom		
Overheads	DPA 4011 ×2	DPA UA0961	K&M 210/9 tall boom ×2		
Bass	Radial J48 DI		none		
Guitar amp	Sennheiser e906	MZQ100	K&M 259 short boom		
Strings and reeds					
Violin 1 / 2	DPA 4099 ×2	VC4099 violin clip	instrument-mounted		
Cello	DPA 4099	CC4099 cello clip	instrument-mounted		
Reed 1 / 2	DPA 4099 ×2	SC4099 sax clip	instrument-mounted		flute double on a K&M 259
Trumpet	DPA 4099	BC4099 bell clip	instrument-mounted		

Cameras

QTY	CAMERA	USE	POSITION	RIGGING	LENS	FEED
Video / CCTV						
	Blackmagic Micro Studio Camera 4K G2	MD cam				
	Blackmagic Micro Studio Camera 4K G2	Stage relay (wide)				
	HD-SDI PTZ Camera	FOH view				

Converters

FEED	TYPE	LOCATION	PATCH	SDI IN	SDI OUT	NOTES
Video / CCTV						
Feeds to every screen	Blackmagic Mini Converter SDI Distribution 4K (1 in / 8 out)					

Main Power Distribution

WAY	ASSIGNED TO	PHASE	RATING	NOTES
Sound 63A 3-phase — stage left				
1	Amp rack 1 — D80 ×4	L1	32A	
2	Amp rack 1 — D80 + 10D	L2	32A	
3	SR wing — SD-Rack, RF rack	L3	16A	
4	Fly floor — delays amps	L1	16A	
FOH 32A single				
1	Quantum 338 + FOH rack (via UPS)	single	16A	Clean feed — no dimmers
2	FOH lights and laptops	single	16A	
Pit 32A single				
1	Pit rack, ME-U hub, band mixers	single	16A	
2	Keys amps and MD light	single	16A	

UPS Distribution

WAY	ASSIGNED TO	PHASE	RATING	NOTES
FOH UPS — APC SMT3000RMI2U				
1	Quantum 338 PSU A		10A	
2	Quantum 338 PSU B		10A	
3	Main QLab (Mac Studio)		10A	
4	Backup QLab (Mac Studio)		10A	
5	FOH Core switch		10A	
SR wing UPS — APC SMT1500RMI2U				
1	SD-Rack (SR)		10A	
2	Stage A switch		10A	
3	RF rack — AD4Q ×4		10A	Swap batteries at the interval

Cable Call

QTY	ITEM	CATEGORY	UNIT	TERMINATION	NOTES
24	XLR cable - 10m	XLR	each		
16	XLR cable - 5m	XLR	each		
12	XLR cable - 3m	XLR	each		
8	XLR cable - 20m	XLR	each		
20	XLR patch (Grey) - 800mm	XLR	each		
6	XLR patch (AES) - 300mm	XLR	each		

Rigging Call

QTY	ITEM	CATEGORY	UNIT	NOTES
4	K&M Loudspeaker stand black (21460) (STD)	Stands	each	
2	Manffrotto wind up stand with scaff 'T' bar	Stands	each	
6	K&M microphone multi clamp (240/5)	Clamps	each	
20	Safety bond 15Kg - 1m	Safety bonds up to 75Kg	each	
8	Safety bond 35Kg - 1m	Safety bonds up to 75Kg	each	

Video Baluns

WAY	SIGNAL
DSM desk — prompt corner	
1	Stage wide feed
2	FOH view feed
3	Show relay
4	Spare

Dante Patch

NO.	LABEL	TX DEVICE	TX CH	RX DEVICE	RX CH	NOTES
Playback → console						
1	QLab main L	RMio64-D	01	Orange-Box	01	
2	QLab main R	RMio64-D	02	Orange-Box	02	
3	QLab SFX L	RMio64-D	03	Orange-Box	03	
4	QLab SFX R	RMio64-D	04	Orange-Box	04	
5	Click	RMio64-D	05	Orange-Box	05	MD only
Console → system						
6	PA L	Orange-Box	01	Lake-LM44	In 1	
7	PA R	Orange-Box	02	Lake-LM44	In 2	
8	Sub	Orange-Box	03	Lake-LM44	In 3	
9	Front fill	Orange-Box	04	Lake-LM44	In 4	
10	Delay L	Orange-Box	05	Lake-LM26	In 1	
11	Delay R	Orange-Box	06	Lake-LM26	In 2	
Radio mics → console						
12	RF 1–4	AD4Q-1	01–04	Orange-Box	17–20	
13	RF 5–8	AD4Q-2	01–04	Orange-Box	21–24	
14	RF 9–12	AD4Q-3	01–04	Orange-Box	25–28	
15	RF 13–16	AD4Q-4	01–04	Orange-Box	29–32	
Record						
16	Record L	Orange-Box	09	MacStudio-A	01	
17	Record R	Orange-Box	10	MacStudio-A	02	

Band Monitoring

Band monitoring Allen & Heath · ME-1 · dSNAKE · 40 ch

CH	WHAT	FED FROM	NOTES
1	Click		
2	Kick		
3	Snare		
4	Hi-hat		
5	OH L		
6	OH R		
7	Bass DI		
8	Gtr amp		
9	Keys 1 L		
10	Keys 1 R		
11	Keys 2 L		
12	Keys 2 R		
13	Reeds		
14	Trumpet		
15	Violin 1		
16	Violin 2		
17	Cello		
18	MD talkback		
19	Cast vocals		
20	Band mix L		
21	Band mix R		
22	FX return		
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			

CH	WHAT	FED FROM	NOTES
37			
38			
39			
40			

Mixer: MD / Conductor — Hannah Webb ME-1 · ME-U 1 · port 1

KEY	LABEL ON THE MIXER	CHANNEL		NOTES
1		1 Click		
2		2 Kick		
3		3 Snare		
4		4 Hi-hat		
5		5 OH L		
6		6 OH R		
7		7 Bass DI		
8		8 Gtr amp		
9		9 Keys 1 L		
10		10 Keys 1 R		
11		11 Keys 2 L		
12		12 Keys 2 R		
13		13 Reeds		
14		14 Trumpet		
15		15 Violin 1		
16		16 Violin 2		

Mixer: Keys 1 — Tomás Reid ME-1 · ME-U 1 · port 2

Mixer: Keys 2 — Leah Gordon ME-1 · ME-U 1 · port 3

Mixer: Reeds 1 — Owen Price ME-1 · ME-U 1 · port 4

Mixer: Trumpet 1 — Mia Carter ME-1 · ME-U 1 · port 5

Mixer: Guitar — Joel Hart ME-1 · ME-U 1 · port 6

Mixer: Bass — Ravi Shah ME-1 · ME-U 1 · port 7

Mixer: Drums — Cal Morris ME-1 · ME-U 1 · port 8

VLANs

VLAN	NAME	CARRIES	CLOCK	SUBNET	DHCP POOL	MANAGEMENT
10	Control	control		192.168.10.0/24	192.168.10.100–192.168.10.199	yes
20	RF	control		192.168.20.0/24		
30	Comms	comms		192.168.30.0/24		
100	Dante Primary	dante	ptpv1	169.254.0.0/16		
101	Dante Secondary	dante-secondary		172.31.0.0/16		
40	Video	ndi		192.168.40.0/24		

Managed Switches

SW-FOH Netgear M4250-10G2XF-PoE+ · 192.168.10.1 · FOH rack · Core

PORT	DEVICE	VLAN	NOTES
1	DiGiCo Quantum 338	10 · Control	
2	Mac Studio A — QLab	100 · Dante Primary	
3	Mac Studio B — QLab	100 · Dante Primary	
4	RMio64-D	100 · Dante Primary	
5	HelixNet HMS-4X	30 · Comms	
6	FreeSpeak II base	30 · Comms	
7	WiFi AP — FOH rail	10 · Control	
8	Laptop — Lake Controller / WWB	10 · Control	
G9	Trunk → SW-AMP	Trunk	
G10	Trunk → SW-RF	Trunk	

SW-AMP Netgear M4250-26G4F-PoE+ · 192.168.10.2 · Amp rack 1 · Amp rack

PORT	DEVICE	VLAN	NOTES
1	d&b D80 #1	10 · Control	
2	d&b D80 #2	10 · Control	
3	d&b D80 #3	10 · Control	
4	d&b D80 #4	10 · Control	
5	d&b 10D fills	10 · Control	
6	d&b 10D delays	10 · Control	
7	Lake LM 44 — control	10 · Control	
8	Lake LM 44 — Dante	100 · Dante Primary	
9	Lake LM 26 — Dante	100 · Dante Primary	
10	SD-Rack — primary	100 · Dante Primary	
11	SD-Rack — secondary	101 · Dante Secondary	
12	Pit relay encoder	40 · Video	
G25	Trunk → SW-FOH	Trunk	
G26	Trunk → SW-PIT	Trunk	

SW-PIT Netgear M4250-10G2F-PoE+ · 192.168.10.3 · Pit rack · Pit

PORT	DEVICE	VLAN	NOTES
1	Pit rack — Dante primary	100 · Dante Primary	
2	Pit rack — Dante secondary	101 · Dante Secondary	
3	MD monitor DZR12	100 · Dante Primary	
4	MD camera (NDI)	40 · Video	

PORT	DEVICE	VLAN	NOTES
5	HelixNet HRM-4X — pit	30 · Comms	
G9	Trunk → SW-AMP	Trunk	

SW-RF Netgear M4250-10G2XF-PoE+ · 192.168.10.4 · RF rack · RF world

PORT	DEVICE	VLAN	NOTES
1	Shure AD4Q 1	20 · RF	
2	Shure AD4Q 2	20 · RF	
3	Shure AD4Q 3	20 · RF	
4	Shure AD4Q 4	20 · RF	
5	AXT600 spectrum manager	20 · RF	
6	AD4Q Dante out (all four)	100 · Dante Primary	
7	WiFi AP — fly floor	10 · Control	
G9	Trunk → SW-FOH	Trunk	

Unmanaged Switches

Pit desk Netgear GS308 · Pit — MD position

PORT	DEVICE	NOTES
1	Uplink from Pit switch	
2	ME-1 — MD	
3	MD laptop (score)	
4	Click iPad	
5	Keys 1 Mainstage Mac	

Prompt corner Netgear GS308 · SL prompt desk

PORT	DEVICE	NOTES
1	Uplink from Stage A	
2	DSM QLab remote	
3	Cue light controller	
4	Show relay monitor	

VEAM / Multicore Patch

Pit-VEAM-1 8 pair analogue + 4 video · 8 way · Pit rack panel → SL stage box · balun: Pit balun

WAY	TYPE	SIGNAL	END A	END B
1	Mic	Violin 1	Pit panel 1	SL box 17
2	Mic	Violin 2	Pit panel 2	SL box 18
3	Mic	Cello	Pit panel 3	SL box 19
4	Line	Keys 2 L	Pit panel 4	SL box 20
5	Line	Keys 2 R	Pit panel 5	SL box 21
6	Mic	Reeds	Pit panel 6	SL box 22
7	Line	Click to pit	Pit panel 7	SL box 23
8	Line	MD talkback	Pit panel 8	SL box 24
1	video	MD cam		
2	video	MD monitor		
3	video	Keys monitor		
4	video	Drums monitor		

Stage Racks

SD-Rack SR SD-Rack · Optocore

SLOT	CARD	DIR	CHANNELS	PATCH	NAMES	NOTES
1	8ch 32-bit Mic/Line In	in	1–8		1 RF 1 — Nina, 2 RF 2 — Eli, 3 RF 3 — Mrs Hart, 4 RF 4 — The Captain, 5 RF 5 — Ens 1, 6 RF 6 — Ens 2, 7 RF 7 — Ens 3, 8 RF 8 — Ens 4	
2	8ch 32-bit Mic/Line In	in	9–16		1 RF 9 — Ens 5, 2 RF 10 — Ens 6, 3 RF 11 — Ens 7, 4 RF 12 — Ens 8, 5 Handheld 1, 6 Handheld 2, 7 Spare RF A, 8 Spare RF B	
3	8ch 32-bit Mic/Line In	in	17–24		1 Fly floor SL, 2 Fly floor SR, 3 Ambient L, 4 Ambient R, 5 Stage talkback, 6 DSM God mic	
4	8ch 32-bit Mic/Line In	in	25–32			
5	8ch 32-bit Line Out	out	1–8		1 Foldback SL, 2 Foldback SR, 3 Sidefill L, 4 Sidefill R, 5 Downstage wedges, 6 Talkback to stage, 7 Show relay, 8 Comms prog	
6	8ch 32-bit Line Out	out	9–16			

SD-Rack Pit SD-Rack · Optocore

SLOT	CARD	DIR	CHANNELS	PATCH	NAMES	NOTES
1	8ch 32-bit Mic/Line In	in	1–8			
2	8ch 32-bit Mic/Line In	in	9–16			
3	8ch 32-bit Mic/Line In	in	17–24			
4	8ch 32-bit Line Out	out	1–8			

DSP Patching

Stage gateway DirectOut PRODIGY.MP · SR rack — stage gateway

Cards: 1 Dante 64×64 · 2 MADI SFP · 3 Analogue in · 4 Analogue out

IN	PROCESSING	OUT	NOTES
1: Dante 64×64 · 1	Gateway to MADI	2: MADI SFP · 1	
1: Dante 64×64 · 2	Gateway to MADI	2: MADI SFP · 2	
1: Dante 64×64 · 3	Gateway to MADI	2: MADI SFP · 3	
1: Dante 64×64 · 4	Gateway to MADI	2: MADI SFP · 4	
1: Dante 64×64 · 5	Show playback, main	2: MADI SFP · 5	
1: Dante 64×64 · 6	Show playback, main	2: MADI SFP · 6	
1: Dante 64×64 · 7	Changeover backup	2: MADI SFP · 7	
1: Dante 64×64 · 8	Changeover backup	2: MADI SFP · 8	
1: Dante 64×64 · 9	Analogue backup feed	4: Analogue out · 1	
1: Dante 64×64 · 10	Analogue backup feed	4: Analogue out · 2	
1: Dante 64×64 · 11	To the archive recorder	4: Analogue out · 3	
1: Dante 64×64 · 12	To the archive recorder	4: Analogue out · 4	

Multis

FOH → Stage L FOH rack → SL stage box · 60 m

QTY	CABLE	NAME	ORIENTATION	START BREAKOUT	END BREAKOUT
2	opticalCON DUO	Fibre A / B	FOH → SL	FOH rack panel	SL box
2	Cat6 etherCON	Dante A / B	FOH → SL	FOH rack panel	SL box
1	8-pair XLR	Returns 1–8	SL → FOH	FOH tails	SL tails

Amp rack → PA L Amp rack 1 → PA left hang · 30 m

QTY	CABLE	NAME	ORIENTATION	START BREAKOUT	END BREAKOUT
4	NL8	Main L 1–4	Amp → PA	Amp panel	Hang
1	Cat6 etherCON	Amp network	Amp → PA	Amp panel	Hang

Pit → Stage L Pit rack → SL stage box · 25 m

QTY	CABLE	NAME	ORIENTATION	START BREAKOUT	END BREAKOUT
1	16-pair XLR	Pit 1–16	Pit → SL	Pit tails	SL tails
2	Cat6 etherCON	Pit Dante A / B	Pit → SL	Pit rack	SL box

Player Looms

MD / Conductor — Hannah Webb Band rack → MD / Conductor

QTY	CABLE	NAME	ORIENTATION	START BREAKOUT	END BREAKOUT
1	Mic	Condenser mic	To rack		
1	IEM feed	MD / Conductor	To player		
1	Wedge feed	MD / Conductor	To player		

Keys 1 — Tomás Reid Band rack → Keys 1

QTY	CABLE	NAME	ORIENTATION	START BREAKOUT	END BREAKOUT
1	Mic	Stereo DI	To rack		
1	Mic	DI box (active)	To rack		
1	IEM feed	Keys 1	To player		

Keys 2 — Leah Gordon Band rack → Keys 2

QTY	CABLE	NAME	ORIENTATION	START BREAKOUT	END BREAKOUT
1	Mic	Stereo DI	To rack		
1	IEM feed	Keys 2	To player		

Reeds 1 — Owen Price Band rack → Reeds 1

QTY	CABLE	NAME	ORIENTATION	START BREAKOUT	END BREAKOUT
1	Mic	Clip / instrument mic	To rack		
1	Mic	Small-diaphragm pair	To rack		
1	IEM feed	Reeds 1	To player		

Trumpet 1 — Mia Carter Band rack → Trumpet 1

QTY	CABLE	NAME	ORIENTATION	START BREAKOUT	END BREAKOUT
1	Mic	Dynamic mic	To rack		

Guitar — Joel Hart Band rack → Guitar

QTY	CABLE	NAME	ORIENTATION	START BREAKOUT	END BREAKOUT
1	Mic	Dynamic mic	To rack		
1	Mic	DI box (passive)	To rack		
1	IEM feed	Guitar	To player		

Bass — Ravi Shah Band rack → Bass

QTY	CABLE	NAME	ORIENTATION	START BREAKOUT	END BREAKOUT
1	Mic	DI box (active)	To rack		
1	IEM feed	Bass	To player		

Drums — Cal Morris Band rack → Drums

QTY	CABLE	NAME	ORIENTATION	START BREAKOUT	END BREAKOUT
1	IEM feed	Drums	To player		
1	Wedge feed	Drums	To player		

Video Matrix

Inputs

NO	NAME	DESCRIPTION	PATCH	SOURCE
1	MD cam	Micro Studio 4K G2	Pit SDI 1	Pit rail
2	Stage wide	Micro Studio 4K G2	Circle SDI 1	Circle front
3	FOH view	HD-SDI PTZ	Box boom SDI	Box boom SL
4	Show record	HyperDeck playback	SR rack	SR rack

Outputs

NO	ASSIGN	NAME	PATCH	DESTINATION
1	1	MD monitor — pit	Distro 1	Pit, MD stand
2	1	Keys monitor	Distro 2	Keys 1 & 2
3	1	Drums monitor	Distro 3	Drum booth
4	2	DSM desk	SR SDI 4	Prompt corner
5	3	Sound No 1	FOH SDI 1	FOH
6	2	HyperDeck record in	SR rack	Show record

Comms Matrix

STATION	NO	DESCRIPTION	LOCATION	IP	HEADSET	A SOUND	B STAGE MANAGEMENT	C LX	D FLYS
Stage management									
HelixNet HMS-4X	Main station	DSM desk	Prompt corner	192.168.30.10	Single muff	A	B	C	D
FreeSpeak II beltpack	BP 1	ASM — SL	Stage left		Single muff		B		D
FreeSpeak II beltpack	BP 2	ASM — SR	Stage right		Single muff		B		
Sound									
HelixNet HRM-4X	Remote 1	FOH sound	FOH	192.168.30.20	Double muff	A	B		
HelixNet HRM-4X	Remote 2	Sound No 2 — SL	Stage left rack	192.168.30.21	Single muff	A	B		
FreeSpeak II beltpack	BP 3	RF world	RF rack, SR		Single muff	A			
LX and flys									
HelixNet HXII-BP	BP 4	LX board op	Control room		Single muff		B	C	
FreeSpeak II beltpack	BP 5	Followspot 1	Rear gallery		Single muff			C talk	
FreeSpeak II beltpack	BP 6	Fly floor	Fly floor SL		Single muff		B		D
HelixNet HXII-RM	Remote 3	Dressing-room relay	Corridor	192.168.30.30	—		B talk		

Radio Channels

CH	CHANNEL NAME	DEPARTMENT	NOTES
1	SHOW CALL	Stage management	
2	STAGE	Crew and flys	
3	SOUND	Sound	
4	LX	Lighting	
5	WARDROBE	Wardrobe and wigs	
6	FOH	Front of house	

2-Way Radios

NO	PERSON	JOB ROLE	DEPARTMENT	NOTES
Stage management				
01	Robin Ellis	Company Stage Manager	Stage management	Earpiece
02	DSM	Deputy Stage Manager	Stage management	Earpiece
Sound				
05	Sam Okafor	Head of Sound	Sound	Earpiece
06	Ellie Marsh	PSE 01 — RF	Sound	Speaker mic
Crew				
09	Stage crew chief	Crew chief	Stage	Earpiece
10	Flys	Flyman	Stage	Earpiece

MIDI Routing

iConnectivity mioXL FOH rack · 192.168.40.31

INPUT	OUTPUT	DEVICE	RTP MIDI
	Din 1 OUT	LX desk (grandMA3) — MSC	1
	Din 2 OUT	Automation — Cue GO	1
Din 1 IN		Main QLab	1
	Din 3 OUT	Video server	2

iConnectivity mioXL (backup) FOH rack · 192.168.40.32

INPUT	OUTPUT	DEVICE	RTP MIDI
Din 1 IN		Backup QLab	1
	Din 1 OUT	To the Quadra Thru, backup feed	

Quadra Thru MIDI Solutions Quadra Thru · LX control room · fed from mioXL Din 1 OUT

OUTPUT	DEVICE	NOTES
Out 1	grandMA3 main	
Out 2	grandMA3 backup	
Out 3	Spare	

Optics Loop

Devices

DEVICE	LOCATION	PORTS	NOTES
Quantum 338	FOH	A / B	
SD12	Mons	A / B	
SD-Rack SR	Stage	A / B	
SD-Rack Pit	Pit	A / B	

Fibre runs

FROM	TO	FIBRE	CONNECTOR	WAYS
Quantum 338 · B	SD-Rack SR · A	Optocore	opticalCON QUAD	4
SD-Rack SR · B	SD-Rack Pit · A	Optocore	opticalCON DUO	2
SD-Rack Pit · B	SD12 · A	Optocore	opticalCON DUO	2
SD12 · B	Quantum 338 · A	Optocore	opticalCON QUAD	4