

EM Forster Theatre: Technical Specification

Access & get-in:

- The theatre's scene dock is located at the end of an access road within the Tonbridge School grounds (use Avenue Gate entrance (satnav TN10 3AB) & take first left). Map at end of this document. Parking at rear of theatre for three company vehicles only.
- The maximum size vehicle able to safely access the scene dock is a 12t Luton.
- As a guide, no single item can be bigger than 7ft width x 8ft height.
- There is no designated Stage Door or Stage Door keeper.

Stage:

- Dimensions: SL – SR between proscenium "pillars" 8780mm.
- Dimensions: D/S setting line – Cyc 8800mm.
- Surface: 6mm MDF mounted on 25mm ply, painted matt black.
- Orchestra pit: Underneath DS, constructed of steel deck sections, no sightline to stage

Overhead:

- No fly tower - Fixed height grid at 5580mm. Lattice of RSJs overlaid with further steel struts.
- 5x Electric Drill Winch Bars (LX1-5). **(SWL 225Kg)**
- 4x pairs of black legs, dead hung. (Hard masking plus soft masking)
- One border at proscenium, dead hung.
- One border down stage of each LX2, 3 & 4; dead hung.
- One tab track, upstage of each border, dead hung.
- Border downstage of Cyc, dead hung.
- Full blacks on Tab track 5, just downstage of cyclorama, manual swipe, split centre.
- 2nd pair of blacks (1/2 tabs, split centre) available. Usually on tab track 3
- Cyclorama (full width/height, white)
- One manual winched tab track (Tab 1) for House Tabs (Black). Winch position on gallery level DSL
- Approximate bar positions from proscenium line. LX 1-5 Winch bars, all remainder are all dead hung: FOH bridge: -7200mm

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|---------------|----------------|-----------------------------|----------------|
| Border 1: | +0400mm | (Height to bottom of cloth: | 4515mm) |
| Tab 1: | +0580mm | (Height to bobbin: | 5290mm) |
| LX 1: | +1200mm | (Full Out position trim: | 5000mm) |
| Border 2: | +2410mm | (Height to bottom of cloth: | 4510mm) |
| Tab 2: | +2520mm | (Height to bobbin: | 5130mm) |
| LX 2: | +3175mm | (Full Out position trim: | 5000mm) |
| LX 2A: | +3930mm | (Fixed Height: | 5410mm) |
| Border 3: | +4230mm | (Height to bottom of cloth | 4510mm) |
| Tab 3: | +4250mm | (Height to bobbin: | 5480mm) |
| LX 3: | +4580mm | (Full Out position trim: | 5050mm) |
| Border 4: | +6200mm | (Height to bottom of cloth: | 5020mm) |
| Tab 4: | +6230mm | (Height to bobbin: | 5460mm) |
| LX 4: | +6650mm | (Full Out position trim: | 5050mm) |

| | | | |
|---------------|----------------|--------------------------|---------|
| LX 4A: | +7580mm | (Fixed height: | 5400mm) |
| LX 5: | +8430mm | (Full Out position trim: | 5200mm) |
| Tab 5: | +8620mm | (Height to bobbin: | 5420mm) |
| Cyc: | +8800mm | (Fixed height: | 5300mm) |

Dressing rooms & Wardrobe:

DR1 – 25 Person Capacity

- Basement level.
- 6 mirrored dressing positions
- 2 non mirrored dressing positions.
- Sink with mirror.
- Individual toilet & shower rooms.
- Audio and video relay

DR2– 25 Person Capacity

- 1st floor level.
- 10 mirrored dressing positions.
- Sink with mirror.
- Toilet & shower room.
- Audio and video relay

DR3 – 40 Person Capacity

- 2nd floor level.
- 15 mirrored dressing positions.
- No sink.
- No shower room.
- Toilet
- Audio and video relay

Wardrobe space – 10 Person Capacity

- 2nd floor level.
- Washing/drying machines.
- Ironing facility.
- Audio relay only.

Additional dressing rooms (upon request and subject to additional charges):

Studio theatre – 80 Person Capacity

- Ground Floor (accessed through FOH)
- No mirrored dressing positions.
- No sink, toilet or shower room.
- Seating upon request
- Tables upon request
- Audio and video relay upon request

Teaching Room – 50 Person Capacity

- 2nd floor level (accessed via FOH)
- No mirrored dressing positions.
- Toilet room.
- No shower room.
- Audio and video relay upon request

Lighting:

Control:

ETC ION XE20 Lighting console. 4 dmx universes. Lightshark LS-4 Artnet node in the grid with 4 dmx outputs & 4 x 6 output dmx buffers. Second Lightshark LS-4 Artnet node DSL with 4 dmx outputs & 2 x 6 output dmx buffers. Physical dmx distribution to DSR and DSL, Dimmer rack, House Light dimmer rack and Grid.

Dimmable Power:

Dimmers located in SL wing, 120 x ETC Colorsource Thrupower 2.5kw. All sockets are 15A. 36 ways on FOH bridges. 8 dimmers at stage level, 2 in each corner. LX1-5 each have 12 x 15A sockets. 4 dimmers in the Orchestra Pit. 6 dimmers on each balcony, 2x15A sockets per way. 12 additional dimmers at grid level DSC, 2 x 15a sockets per way. Limited amount of additional Socapex Multicore and 15A Fan In/Outs

Hard Power:

10 x 16A single phase Ceeform commando sockets are located on the grid. 5 SR and 5 SL.
2 x 16A single phase Ceeform commando sockets FOH lighting gallery
2 x 16A single phase Ceeform commando sockets located both SL and SR at circle level perch position.
2 x 32amp single phase Ceeform sockets, located downstage centre of the grid.
3 x 32amp three phase Ceeform sockets located downstage centre of the grid.
Additional 6 x 15A single phase Ceeform sockets via portable distro (on 32A single phase trailing lead), usually located DSC of the grid
1 x 32amp single phase Ceeform socket located DSR. Stage level. Clean Sound Power
Multiple 13a sockets around the proscenium and wing walls.

Tungsten Fixtures:

19 x ETC Source 4 Bodies (750w)
13 x ETC S4 Zoom lens tubes 25/50 (To fit above and/or Colorsource/Lustrs)
12 x ETC S4 Zoom lens tubes 15/30 (To fit above and/or Colorsource/Lustrs)
3 x ETC S4 50deg LED EDLT lens tubes (To fit above and/or Colorsource/Lustrs)
7 x ETC S4 50deg lens tubes (To fit above and/or Colorsource/Lustrs)
7 x ETC S4 19deg lens tubes (To fit above and/or Colorsource/Lustrs)
10 x ETC S4 Jnr 25/50 (575w)
4 x Strand SL 15/30 (600w)
8 x Selecon Rama Fresnel c/w barn doors (1200w)
8 x Selecon Compact Fresnel c/w barn doors (1200w)
8 x Strand Patt 743 Fresnel c/w barn doors (1000w)
30 x Par 64, CP62 (Plus selection of CP61 and CP60 lenses)
6 x Par 20 (Birdies)

LED Fixtures:

6 x ETC Source 4 LED Lustr 2 light engines to fit any of the Source 4 lenses listed above
11 x ETC Colorsource light engines to fit any of the Source lenses listed above
4 x ETC Colorsource V Spot light engines to fit any of the Source 4 lenses listed above
8 x ETC Colorsource V Fresnels with barn doors
16 x Chauvet Colorado Tri-Tour 1 LED Par's (Permanently rigged back light on LX4A and LX2A)
7 x Selecon PLCYC1 LED Floods (Permanently Rigged LX4A)
10 x Chauvet Rogue R1 Washes
6 x Chauvet Rogue R2 Spots (2 are R2X)
6 x Chauvet Rogue R2 Washes (2 are R2X)
8 x Chauvet EVE P-130 RGB Pars (25deg/45deg lenses)
10 x LEDJ Slimline 12Q5 RGBW Battens

Follow Spots (Additional Cost):

2 x Robert Juliat Cricket (Check for availability)

Projection:

Projectors (Additional Cost)

1 x Panasonic PT-RZ970 Projector (10,000 lumens, 16:10) with 1.7 to 2.4:1 zoom lens. Fixed position FOH focused to main cinema screen. Can be moved to LX1 and used with 0.85:1 Short Throw lens (ET-

DLE085) on to Cyclorama. Also have Ultra Short Throw lens (ET-DLE030) for back/front projection from various positions

Also available 1 x Sony VPL-FE40 Projector (4,000 lumens, 4:3). Can be rigged from any position. SDI outputs FOH and above Grid fed from Control Room. HDMI and SDI inputs in control for sources.

Screens

1 x 7m x 5m main Cinema Screen permanently fixed at proscenium line. Motorised in/out.

1 x 4.1m x 2.3m (13.5' x 7.5') 16:9 ratio back projection screen with stand and skirt

1 x 8' x 6' (2.25m x 1.6m) 4:3 ratio back projection screen with stand and skirt.

Sound:

Mixer

Yamaha QL5 (32 analogue inputs; Dante digital inputs possible via TIO1608D)

(16 local analogue outs; Dante digital out and 8 analogue outs routed to Symetrix audio distribution system)

Symetrix SymNet Radius 12x8 control platform via Dante

Amps

1 x Powersoft K3 amplifier (2600w per channel at 4 ohms – W8VDQ full range passive pair)

1 x Powersoft K10 amplifier (4000w per channel at 4 ohms – WS218X Sub pair)

1 x Powersoft M28Q amplifier (700w per channel at 4 ohms (4 channel) – WT15+, AQ5 L&R, AQ8)

Foldback:

1 x Carver PM420 (In main amp rack). *Additional amps* (for additional foldback/effects):

2 x Yamaha P3500S amplifier

Audio Distribution

16 x XLR Inputs DSR. Fed to control room

10 x XLR Outputs DSR. Fed from control room

6 x XLR Inputs DSL. Fed to control room

10 x XLR M/F crossover tie lines SR<>SL

4 x CAT5e Ethercon sockets SR. Fed to/from control room

4 x CAT5e Ethercon sockets SL. Fed to/from control room

Additional Cat5e sockets in Orchestra pit and in the grid

Yamaha TIO 1608D. Rack mount portable Dante based digital interface, 16 Analogue ins, 8 Analogue outs

Speakers

2 x Martin Audio W8VDQ (passive) – Main Left/Right (proscenium hung)

2 x Martin Audio WS18X – Main Left/Right SUBS (on ground underneath main L/R)

4 x Martin Audio WT15+ (*Stage Front Fills*)

4 x Martin Audio AQ8 (*Circle Delays*)

4 x Martin Audio AQ5 (*Rear Under Balcony Delays*)

2 x Martin TX12 (Moveable foldback: usually DSR and DSL on stage)

Additional Speakers: (For addition foldback/effects)

2 x Yamaha SV115V speakers

2 x Ohm RW3 speakers

2 x Pulse PVS12 Wedge

Mics

Radio Mics - 6 Channels of RF Radio (Additional Cost):

6 x Sennheiser ew300 G3/G4 belt pack radio microphone transmitters with lapel mics. Limited headset mics

4 x Sennheiser e865 handheld microphones

6 x ew300 G3/G4 rack mounted radio receivers for the above (any six). Standard licenced frequencies.

6 x Shure SM58 microphones

8 x Shure SM57 microphones

1 x AKG D112 (Kick)

3 x Shure PGA 56 (Snare/Toms)

1 x Shure Beta 56a (Snare)

2 x Audio-Technica AT835b shotgun mics

4 x RODE NT5 matched pair condenser microphones

1 x Sennheiser e945 vocal mic

Playback & accessories

1 x Numark CDN-77 USB (Dual Player)

4 x Behringer ULTRA-DI DI20 DI boxes

8 x Boom microphone stands (Long)

6 x Boom microphone stands (Short)

Mac Mini c/w QLAB v4/v5 in to 4 channel Roland R44 Rubix audio device + 2xHDMI video output.

Denon BD500 II Blu-Ray player (HDMI out)

Black Magic Television Studio vision mixer (HDMI/SDI in/out) – inputs in Control Room

Black Magic ATEM 1 M/E Constellation 4K (SDI in/out) – inputs in Control Room

Comms:

Multiple installed comms points around venue including control room and prompt corner.

4 x Stonewood Audio/Granite Cans units and single muff headsets (hard wired)

4 x Hollyland Solicom C1 Pro Wireless comms with base station connected to wired comms

1 x Cloud FOH and Backstage call system.

Effects:

These are subject to additional charges and should be booked at point of contract.

2 x UV cannon (400W)

1 x Base Hazer Pro

1 x Unique Hazer (Check for availability)

1 x Stairville 1500W DMX Strobe

Staging:

8 x 8ft x 4ft Steel Deck

2 x 4ft x 4ft Steel Deck

6 x 1m x 2m Steel Deck

8 x Tank Traps

Large Selection of Scaff

Dance Floor (Black or Grey Harlequin)

6 x Boom Frame Stands (3 fixed mounting positions per boom)

Additional Masking:

1 x Pair mid stage blacks (manual swipe, normally behind LX2)

1 x White Gauze

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