STROVOLOS

MUNICIPAL THEATRE

NICOSIA

CYPRUS

GENERAL DESCRIPTION

OF THE

THEATRE FACILITIES

&

TECHNICAL SPECIFICATION

FOR

INSTALLED

STAGE EQUIPMENT

GENERAL DESCRIPTION OF THE THEATRE AND ITS FACILITIES

The Strovolos Municipal Opened in 2003 is the most up to date state of the art multipurpose entertainment building on the island of Cyprus.

It has a seating capacity of 860 on two levels.

The stage and auditorium are designed to be suitable for staging all types of concert, theatrical and conference type events.

The theatre offers rehearsal rooms separate from the main stage.
It has 4 big dressing rooms and 2 small ones.

STAGE DIMENSIONS:-

Proscenium Width	13.00
Proscenium Height	7.00
Stage Width	18.00
Stage Depth	12.60
Stage Area	227m^2 plus scene dock of 80 m^2 stage right
Grid Height	15.00
Clearance height under galleries	8.00
Orchestra Pit Area	72 m^2 with facility to use a reduced area of 36m^2
Orchestra Pit Depth	2.48 m

The orchestra pit is achieved by lowering the one or two of the forestage elevators

LOAD IN FACILITIES (On Stage Right)

Scene Dock Door Height	3.80
Scene Dock Door Width	3.00

The dock door loading is via a Transport Elevator with a platform size of 6.00 x 3.00m.
The scene dock door threshold is 1.260 above the stage level.

Long pieces of scenery such as rolled cloths can handed through the door without the use of the transport elevator very easily

The transport elevator also provides access to the under stage storage area

The transport elevator can take a maximum loading of 8,500kg

A. MECHANICAL EQUIPMENT & SERVICES

1. SCENERY SUSPENSIONS AND FLYING

1.1 The stage is equipped with a total of 20 x 500kg single purchase manual counterweight flying sets.

1.2 The flying sets are operated from the fly gallery on the stage left side of the stage.

1.3 The counterweight cradles are loaded and unloaded at the loading gallery level.

2. CURTAIN TRACKS AND DRAPES

2.1 The House Curtain is fixed under the on stage lighting bridge

2.2 The House Curtain track is motorised, and can be operated from the SM Desk. And stage left fly gallery.

2.3 There are two sets of manual curtain tracks for mid stage and rear stage travellers. These are suspended on two of the counterweight sets.

2.4 Two sets of black velour Traveller Curtains are available for use with the two manual tracks.

2.5 There are 4 sets of black velour Masking Border and Leg Curtains

2.7 There is one Cyclorama Cloth available for attachment to one of the counterweight set.

3. ADJUSTABLE PROSCENIUM

3.1 There are two movable proscenium towers, one on either side of the stage.

3.2 The proscenium towers are suspended on tracks on the underside of the on stage lighting bridge, and are manually moved.

3.3 The use of the tower permits the proscenium width to be reduced in width by 4.0m.

3.4 The upstage side of the towers has facilities for the mounting of luminaires for stage lighting.

4. SAFETY CURTAIN

4.1 The proscenium opening is equipped with a rigid steel safety curtain to ensure that any fire hazard occurring in the stage area is prevented from spreading to the auditorium.

4.2 The safety curtain has an acoustically reflective surface on the auditorium side so that it can be used with the forestage to provide a small concert platform.

4.3 The Safety Curtain is lowered by gravity and raised by electric winch.

4.4 The Safety Curtain has to lowered and raised at every performance in view of the public. Except if only the forestage is being used.

5. FORESTAGE ELEVATORS

5.1 The Forestage area is made up of two elevators which both travel from stage floor at level -1.01 down to the stage basement area at level –5.77 at a maximum speed of 0.5m/min

5.2 The two elevators provide the following facilities:-

- Extended forestage,
- Extended auditorium floor with seating
- Orchestra pit.

5.3 The elevator nearest to the seating is equipped with two sub elevators providing a stepped format for use with additional seating, when being used to extend the auditorium floor.

5.4 The elevators have defined stopping positions at:-

- Stage Level
- Auditorium Level
- Orchestra Pit Level
- Basement Level

5.5 It is also possible to stop the elevators ate any intermediate position, if required.

5.6 Both the two elevators can be operated together as single unit.

B. ELECTRICAL SYSTEMS

1. AUDIO EQUIPMENT

1.1 The theatre is equipped with a comprehensive sound system providing facilities for public address, sound reinforcement and recording.

1.2 The audio control room equipment comprises the following:-

- 40 channel mixer desk (Soundcraft Spirit 8) with 40 inputs + 2 stereo inputs, 8 group busses, 8 stereo returns, 6 aux sends and 2 matrix outputs.
- Monitor speakers (Genelec 1029A)
- Headphones (Beyer DT 150)
- Audio Source Rack fitted with recording and playback facilities for:-
  Standard audio cassette
  DAT
  Mini-Disc.
  CD – Playback only
- Audio Effects Rack fitted with:-
  Dual Parametric EQ (Symetrix 552)
  Dual 30 Channel Graphic EQ (Symetrix 533E)
  Quad Noise Gate (Drawmer DS404)
  Quad Compressor (Drawmer DL441)
  Duel De-Esser (Drawmer MX50)
  Multi FX Processor (Yamaha SPX990)

- The mixer desk, source rack and effects rack are all portable and can be connected to secondary points located in the in auditorium.

1.3 The installed loudspeaker system comprises the following:-

- Left & Right Clusters, each comprising 2 Nexo PS15 + 1 LS1200 bass cabinet
- Centre Cluster, comprising 2 Nexo PS15 Full range cabinets with under/over balcony centre delays comprising 2 Nexo PS10 cabinets

1.4 A main loudspeaker amplifier rack is located in the auditorium roof space and is fitted with:-

- 4 x Dual parametric EQ's (Symetrix 552E)
- 3 x Loudspeaker Controllers (Nexo PS15TD)
- 1 x Loudspeaker Controller (Nexo PS10TD)
- 1 x Delay Unit (Sabine SDA102)
- 3 x Stereo Power Amplifier (Crown MA-5002VZ)
- 1 x Stereo Power Amplifier (Crown CE-4000)
- 1 xStereo Power Amplifier (Crown MT-2400)

1.5 A set of delay speakers are installed under the balcony comprising

- 4 x 8” Full range cabinets (NexoPS8)

1.6 A separate amplifier rack in the sound control room, is provided for the delay loudspeakers fitted with:-

- 1 x Parametric EQ (Symetrix 551E)
- 2 x Loudspeaker controllers (NexoPS8TD)
- 2 x Delay units (Sabine SDA102)
- 2 x Stereo power amplifiers (Crown MT2400)

1.7 A set of portable stage loudspeakers for effects and fold-back are available comprising:-

- 4 x 10” Full range cabinets (Nexo PS10)
- 4 x 8” Full range cabinets (Nexo PS8)

1.8 A Stage amplifier rack is located stage right fitted with:-

- 4 x Dual parametric EQ’s (Symetrix 552E)
- 2 x Loudspeaker controllers (Nexo PS10TD)
- 2 x Loudspeaker controllers (NexoPS8TD)
- 4 x Stereo power amplifiers (Crown MT2400)

1.9 The following list of microphones and accessories are available:-

- 4 x Dynamic microphone (Shure Beta 58A)
- 8 x Condensor microphones (AKG- C451B)
- 2 x hand held UHF radio microphones (Sony WRT 807)
- 4 x Active DI boxes
- 6 x Microphone floor stands
- 6 x Microphone booms

2. PERFORMANCE LIGHTING EQUIPMENT

2.1 The theatre is equipped with a comprehensive lighting control system, consisting of 120 DMX controlled dimmers channels rated at 2.5kW each and a memory control desk.

2.2 The control desk is a LSC Maxim XXL, having the following specification:-

• DMX 512 Output channels	1024 (2 Universes)
• Fader channels single preset	120
• Fader channels two preset	60
• Pages of memory	9
• Playbacks	90
• Pages of playbacks	9
• Maximum number of scenes	810
• Maximum number of chases	810
• Steps per chase	250
• Chase speed(BPM)	0-999
• Maximum number of Stacks	810
• Fully proportional soft patch	Yes
• "In" fade times (sec)	0-990
• "Out" fade times (sec)	0-990
• Playback Masters	2
• Sound to Light sources	2
• Electronic Labelling	Yes
• SVGA Colour Video output	Monitor supplied
• 3.5" Disk backup	

2.3 The desk can be moved from the control room to the auditorium or the side of the stage if required

2.4 An ancillary control desk provides control for 30 Non Dim independent circuits, the stage area working lights and the auditorium house lights. This can also be moved from the control room along with the main desk

2.5 There is DMX network installed providing facilities to connect extra equipment such as moving lights or extra dimmers and control desks if required. This network comprises a series of input nodes and output ports in the following locations:-

• Control Room	Passive dual input panel for main desk & Ancillary lighting desk
• Side Stage Left	2 Input nodes, one for each universe
• Dimmer Room	Passive output panel for connection of dimmer Racks and DMX tester
• Left & Right Rear Balcony	1 Output port each side
• FOH Brides	1 Dual Output port on each bridge
• Auditorium Slots	1 Output port each of auditorium
• Side Stage Slots	1 Output port each side of stage
• Proscenium Bridge	Dual output port
• Stage Bridge	Dual output port
• Stage Bars	2 x Triple Output ports on stage right fly gallery

- Stage Left Upstage 1 Output port on wall
- Stage Right Upstage 1 Output port on wall
- Stage Right Downstage 1 Output port on wall
- Orchestra Pit 1 Output port.

2.6 The auditorium "House Lights" are controlled from a separate 18 channel dimmer rack which is controlled by preset type controls located on the ancillary lighting desk and on the Stage managers control desk stage left.

2.7 There are a total of 30 Non-Dim or independent socket outlets controlled from a contactor rack installed in the dimmer room. The contactor rack is controlled from the ancillary lighting desk. The master/programming control panel is located in the control room.

2.8 The Non-Dim circuits are for connection of equipment such as effects motors or other equipment that can not be connected to dimmer circuits but do require control by the lighting desk operator during a performance.

2.9 The Non-Dim socket outlets are located at the following positions:-

- FOH Bridges 2 Sockets n each bridge
- Proscenium Bridge 1 Socket
- Auditorium/Stage Slots 1 Socket each
- Stage Bridge 2 Sockets
- No.1 Stage Bar 1 Socket
- No.2 Stage Bar 1 Socket
- No.3 Stage Bar 1 Socket
- Proscenium Towers 1 Socket on each
- Fly Galleries 2 Sockets on each
- Side Stage Floor 3 Sockets each side
- Orchestra Pit 2 Sockets

2.10 All socket outlets for Dimmed and Non-Dim circuits are 16A CE17 type.

2.11 There is a Stage Working Light system, that is controlled from the SM Desk and the ancillary lighting desk. There are also local control stations in certain areas.

2.12 The working light system provides three basic states of lighting:-

- Day (Whites)
- Performance (Blues)
- Night (Security)

2.13 The "Day" state permits any working lights in any area of the stage and adjacent areas to be full illuminated.

2.14 By selecting "Performance" mode, all White working lights in all areas are automatically turned OFF and various Blue safety lights are turned ON.

2.15 The selecting of “Night” turns OFF all lights except those needed for exit from the stage area and other security circuits.

2.16 The working light circuits on the upstage lighting bars can be switched on while in Performance mode to provide illumination for scenery changes etc.

2.17 The following list of luminaires are installed in the theatre:-

- Strand SL10 600Watt Axial Profile Spot 10 pieces
- Strand SL15/32 Zoom 600Watt Axial Profile Spot 20 pieces
- Strand SL 23/50 Zoom 600Watt Axial Profile Spot 20 pieces
- Strand Quartet 15/32 Zoom 650Watt Profile Spot 24 pieces
- Strand Quartet 650Watt Plano-Convex Spot 24 pieces
- Strand Quartet 650Watt Fresnel Spot 20 pieces
- Thomas Par 64 1000Watt 10 pieces
- Strand Coda 4 x 500Watt CYC Floods 10 pieces
- Selecon Performer 1200Watt MSR Follow Spot 2 pieces

2.18 The following list of portable stands are available:-

- Low Level Stand 6 pieces
- Medium Telescopic Stand 6 pieces
- Tall Telescopic Stand 6 pieces

2.19 The following internally wired bars with 16A outlets and feeder multicores terminated in Socapex type(19pin) connectors. Bars can be rigged on any counterweight set.

- 2 No. 12m long with10 x 2.5kW dimmer circuits, 1 working light circuit and 1twin non-dim circuit
- 1 No. 14m long (Cyclorama) with 2 sets of four quadruple dimmer circuits, 2 single dimmer circuits, 1 working light circuit and 1 twin non-dim circuit.

3. COMMUNICATIONS & STAGE MANAGERS DESK

3.1 The theatre is equipped with a back stage and public area Paging & Show Relay system as well as a discreet intercom for technicians during performance.

3.2 The Paging & Show Relay system is divided into 3 zones:-

- Zone 3 Front of House public areas
- Zone 1 Rear of House, dressing rooms & corridors etc
- Zone 2 Stage Area (Paging only)

3.3 Show Relay is routed to zones 1 with paging override and "Clean" (no paging) to the control room.

3.4 Paging is possible from four locations:-

- Paging Station 1 SM Desk
- Paging Station 2 FOH (Box Office)
- Paging Station 3 Production desk in auditorium (Rehearsal time only)

3.5 Communication between technicians during performances can be achieved by use the Ring Intercom System (RI)

3.6 The RI system consists of a master station on the SMD, two fixed stations in the lighting and sound control rooms and a number of plug in points for belt packs around the technical areas.

3.7 The RI system is a dual channel system

3.8 There are a total of 10 belt packs with boom microphone headsets available for use.

3.9 As well as the intercom and paging systems, the SM desk is equipped with a Cue Light System.

3.10 The Cue Light system permits the stage manager to give visual signals to technical areas.

3.11 The areas with Cue Light facilities are:-

- Lighting Control room
- Sound Control Room
- Fly Gallery
- Stage Right Gallery
- Down Stage Right
- Up Stage Right
- Up Stage Left
- Orchestra Pit

3.12 The cue lights in the control rooms and fly gallery are fixed type, while all other points are sockets for connection of portable plug in units with extension leads.

3.13 The cue light system works on simple red WARN and green GO lights.

3.14 To WARN a technician or actor to standby for a “cue” the SM turns on the flashing red light

3.15 All cue light stations are equipped with “Acknowledge” push buttons which, when actuated “steady” the red flashing light to confirm to the SM that the technician or actor has received the warning light and is ready to respond to the GO signal

3.16 On cue the SM turns ON the green light.

3.17 The SM Desk is also fitted with:-

- Digital real time clock and digital stop watch/ countdown timer.
- Script space and task lighting

3.18 The SM desk is situated on the stage right side of the stage with a 5m long connection lead.