



# Technical Data Sheet

## Pentas 1

### The Kuala Lumpur Performing Arts Centre (klpac)

Updated: 4<sup>th</sup> January 2024

## Table of Contents

1. General
  - Stage
  - Auditorium
  - Wheel Chair Access
  - Back Stage / Stand-by Area
  - Dressing Rooms
  - Cross Over
  - Control Room
  - Security
2. Staging / Rigging
  - Loading Area
  - Stage Specifications
  - Rigging Specifications
3. Lighting
  - Production Lighting Distribution
  - Inventory and Accessories
4. Sound
  - Production Sound System
  - Speaker Set-up
  - Intercom System
5. Others
6. Contact Information

**Please note:**

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# 1. General

## Stage

The stage of Pentas 1 is designed in the semi-proscenium style. The structural proscenium opening is 14000mm wide and 7680mm high. There is a variable proscenium panel that is capable of adjusting the proscenium opening from a height of 7680mm to 5680mm. The stage depth, from the proscenium opening to the cyclorama is approximately 9000 mm, and from the front end of the apron area to proscenium opening is approximately 5500 mm. Also note, the stage floor is leveled with the first row of audience.

## Back Stage / Stand-by Area

The backstage of Pentas 1 is approximately 10m deep x 20m wide while its stage right and stage left wings from the proscenium are approximately 10m deep x 6m wide.

## Auditorium

The house can seat a total of 504 patrons. It applies a front-end format, in which the first row of the audience seating is on the same level as the stage floor. The seating comprises flip-up seats covered with different solid-colored fabrics. Walkway lights are provided. There are two main access doors into the auditorium from second floor pre-function area.

## Wheelchair Access

klpac provides a wheelchair accessible entrance at the side of the auditorium. Situated on the Ground Floor, the entrance runs through the stage right front passage access and leads directly to the wheelchair seating area.

## Dressing Rooms

There are 4 dressing rooms that can accommodate approximately 50 cast members. These dressing rooms are located towards stage left, on the ground and first floor. Each dressing room includes showers and toilets.

## Control Room

The production audio, light and video control room are located on the second floor within the audience, while the follow spot control area is located on the third floor. A cat ladder access connects the two floors.

## Audio Recording Studio

There is an Audio Recording Studio located on the third floor. It includes a Reaper DAW workstation with capabilities to do simple recording, editing and mixing. Please note rental charges apply for usage of the recording studio and the manpower. Please speak to the Technical Department.

## Security

klpac advises all visiting production teams to avoid leaving any valuable personal assets in the theatre at all times. Technical equipment brought in by the visiting production can be stored and locked in the dressing rooms backstage and production office. All visiting production personnel are to make their access into the venue through the Security Door on the Ground Floor.

## 2. Staging

### Loading Area

The loading bay is located directly backstage. Its opening is 3000mm wide, 2900 high, and 750mm higher than the road level. A portable ramp can be provided to help unload goods from vehicles of various heights.

### Stage Specifications

#### Floor

The stage floor has a black finish and is made of composite timber flooring. There are cable access trenches surrounding the main stage area. No trap is available. Only minor drilling and nailing are allowed on the stage floor, with prior permission. Note also screwing up to only 2 inch is allowed into the floor. Bolting is not allowed. Productions are to make sure that all screwing marks are touched up during bump out. We allow only water based paints to be used on stage if painting is required. Please discuss this during technical meeting for approval. Visiting production are to repaint the whole stage during bump out. Matex matte black code #9103 is to be used for repainting.

#### Main Stage

Depth from Downstage edge to	
Proscenium opening	5500mm
Cyclorama / Curtain (default position)	9000mm
Width from Centerline to	
Wall Audience Right	13160mm
Wall Audience Left	12760mm
Structural Proscenium Opening	14000mm (Width) X 7680mm (Height)
Height from Stage Floor to	
First Row Audience Floor	0mm
Lighting Truss (default position)	7500mm
Grid Floor	10700mm
Structural above Grid Floor	12710mm
Ceiling above Grid Floor	14000mm
Catwalk (staging area)	8430mm
Catwalk (House)	11950mm

## Rigging Specifications

Pentas 1 is equipped with two rigging systems. One is a fully flexible spot line system with 20 units of 150kg capacity fixed speed spot line motors that users can place anywhere within the grid floor area to establish any rigging formation required. The second rigging system comes with 12 units of 500kg capacity chain hoist motors (fixed).

The maximum fly height is 9m for both spot line and chain hoist systems. The visiting production will need to provide details of intended rigging requirements for the klpac technical department to make advance approval and preparation. If no special rigging requirements are required, the default rigging layout will be set up. The default rigging layout will include 4 lighting trusses, each 14 meters in length, 6 scenery bars, each 14 meters in length, and a set of 14 m wide x 9 m high Cyclorama.

Each scenery bar (14m length) is set to sustain a capacity of 200kg distributed load and 50kg per point load and each lighting truss (14m) is set to sustain capacity of 200KG distributed load and 50kg point load.

Both the spot line and chain hoist system comes with their own control station at the grid floor level, as well as several distributed remote control positions within Pentas 1 for remote operation. Please note, only 1 bar at a time can be operated via the remote for both systems.

Pentas 1 provides the Genie AWP-25S for rigging. Maximum height is 9500mm with lift capacity of 159kg. Others provided is the scaffolding with wheels for a more flexibility and 2 ladders- 15 steps (4000mm/13.5ft) and 9 steps (2500mm/8.5ft).

## Stage Rigging Equipment as below.

1. Spot Line            20 units Desisti Spot Line System c/w control - 150kg capacity each.
2. Chain Hoist        12 units ProLift Chain Hoist c/w Control - 500kg capacity each. *This is permanently fixed for lighting trusses.*  
6 units ProLift Chain Hoist c/w Control - 250 capacity each. *This is used in the existing rigging of speakers.*
3. Truss                40 units Prolyte H30V box Truss @ 2m per section.  
30 units Prolyte H30L Ledder Truss @ 2m per section.  
*Note that the above includes the ones used for lighting and scenery.*
4. Doughty Heavy Duty Modular Traveller for 14m run @ SWL 500kg x 1 set

## Draperies

The Pentas 1 standard provision for visiting productions includes the following draperies:

- |  |        |
|--|--------|
| 1. Filled Cloth Cyclorama in White @ 9m (H) x 15m (W)  | 1 pc   |
| 2. Velour Side Legs Curtain in Black @ 9m (H) x 2m (W) | 12 pcs |
| 3. Velour Borders Curtain in Black @ 2m (H) x 15 (W)   | 4 pcs  |
| 4. Velour Curtain in Black @ 9m (H) x 15m (W)          | 1 pc   |
| 5. Velour Traveler Curtain in Black @ 9m (H) x 8m (W)  | 2 pcs  |
| 6. Sharkstooth White Gauze @ 9m (H) x 15m (W)          | 1 pcs  |
| 7. Sharkstooth Black Gauze @ 9m (H) x 15m (W)          | 1 pcs  |

### 3. Stage Lighting

#### Dimmer and Outlet Distribution

The dimmer room houses 32 racks with total of 384, units of 3kW Philips Showline DPX1200 dimmers, and 384 outlets distributed in the Neutrik PowerCon format. Channel circuit diagram is available if required.

#### Lighting Console & DMX Distribution Network

Pentas 1 is equipped with a GrandMA On PC Wing Console with a PC with DMX control.

#### Production Lighting Inventory

The Pentas 1 lighting inventory consists mainly of Strand Lighting equipment, and some Selecon equipment. Specific quantities are as below:

2.5kw Fresnel	Strand Lighting - Alto F	20 units
2.5kw PC	Strand Lighting - Alto PC	20 units
1.2kw PC	Strand Lighting - Cantata PC	5 units
Par64 (c/w CP60/61/62)	Kupo	10 units
19° ERS	Strand Lighting - SL 19	18 units
26° ERS	Strand Lighting - SL 26	18 units
36° ERS	Strand Lighting - SL 36	16 units
50° ERS	Strand Lighting - SL 50	16 units
*90° ERS	Selecon Pacific 90	5 units
15/32 Zoom ERS	Strand Lighting - SL 15/32	10 units
23/50 Zoom ERS	Strand Lighting - SL 23/50	10 units
4 x 1.25kw CYC	Strand Lighting - Iris 4	8 units
4 x 1.25kw GR	Strand Lighting - Orion 4	8 units
*1.2kw Xenon Follow Spot	USHIO	2 units

All Fresnel and PC fittings come with standard barn doors and color gel frames. Irises and gobo holders are available for SL and Pacific units. An assortment of gobos is available at additional cost, on a first-come-first-serve basis.

#### Other Accessories provided are follows:

Drop- Iris for profile fittings	7 units
"B" Size Gobo Holder for profile fittings	29 units
*Antari fog machine- Ice 101 series	Check for availability
*Double Gobo Rotator – Apollo	4 units
*24 Inch mirror ball	Check for availability
*1.5KW Strobe	Check for availability

#### Color Gels

klpac provides a standard color gel selection from LEE Color. (Please request for list)

#### Lighting Stand

klpac Pentas 1 has the following lighting stands available:

2 meter ladder stand ( <i>also at times used as monitor speaker stand</i> )	10 units
Floor plates	10 units

## 4. Sound System

### Speaker

Pentas 1 is equipped with the following:

#### Speaker Inventory List

Meyer Sound UPJ-1P (Permanently rigged)	10 units
Meyer Sound UPM-1P	6 units
Meyer Sound UMS-1P (On side stage)	4 units
Meyer Sound UPA-1P (used as side field stage monitors)	2 units
*Peavey Stage Monitors PV15PM	Check for availability

We do allow productions to replace the existing speakers above with the ones preferred. Time and manpower required to do so will be charged to production accordingly. Please note to provide the weight specification for approval. 4 units of 250Kg Prolyte hoist for speaker rigging will be provided in Pentas 1. The catwalk holds 150kg per meter span. With the hoist provided it will be 250kg per set of speakers including the hoist. Total load for speakers (both sides) on catwalk will be 500kg. Please speak to Technical Department for more details.

### Mixer

A Yamaha M7CL 48ES is permanently stationed in the Pentas 1 sound control area, which is located within the audience on the 2<sup>nd</sup> floor. 3 units of SB168-ES stage boxes are also available in the stage area.

### Microphones

An assorted selection of microphones is provided as listed below:

#### Microphone Inventory List

Handheld Microphone		
Shure	SM58	10 units
Shure	SM57	9 units
AKG	C-1000s	5 units
Di Box(Active)Mono	Radial StageBug SB-1	3 units
DI Box(Active)Mono	Type 85 Countryman	5 units
*AKG	C391B (blue line)	6 units Check for availability
*Shure	PGOMK6-XLR (6 pieces)	Check for availability
*Audio Technica Boundary Microphone	AT871R (8 Units)	Check for availability

#### Wireless Microphone List

*Mipro Wireless Receiver	ACT-707	Check for availability
*Mipro Wireless body pack transmitter with headset mic		Check for availability
*Mi-Pro Wireless receiver	ACT-72	Check for availability
*Mi-Pro wireless handheld mics	ACT70H	Check for availability

## Processor & Playback

There are also ad hoc playbacks and processor units available in an equipment rack, which can be placed next to the console. Details are as below:

*Digital Audio Analyzer	Klark Teknik DN6000	# Check for availability
*Microphone Splitter	Klark Teknik DN1248	# Check for availability
Loudspeaker Controller	XTA DP 226 (installed in system)	2 set (fixed in Pentas)
Dual CD Playback	Pioneer MEP- 4000	1 set

## Intercom System

Pentas 1 provides a 1-channel party line intercom system with 6 wired intercoms only. Area provided with intercom: Sound control, lighting control, video control, 2 follow spots control, and Stage manager's control. All dressing rooms are connected via the stage manager's control area for communication.

There is also wireless intercom. Please note that this intercom does not have panels. All 6 units are wireless. Details are as below:

*Wireless Intercom	Hollyland Solidcom C1-6S	6 units # Check for availability
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## 5. Others

* TV Monitor	Prism+ 4K 55"	2 Units # Check for availability
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## 6. Contact Information

Assistant Technical Manager	Mathan	mathan@klpac.org
Assistant General Manager	Lawrence Selvaraj	lawrence@klpac.org
FOH/ Assistant Theatre Manager	Hazim	hazim@klpac.org

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