

Sala Teatro LAC

Technical Specifications for Theatrical Applications

last_update_January_2023



1. Quick Introduction.

1.1 How to use this technical rider:

- *This document is part of the contract of use of Sala Teatro without Acoustic Shell, and/or part of it. **In this configuration Sala Teatro LAC is a theatrical venue for uses like dance, ballet, opera, theatre, amplified music, private event, conventions.***
- *As included in this contract the Guest will find at its arrival all the fixed installations ready and available at use (for instance grid, fly machine, intercom, fixed dimmers, hardwired connections, etc.).*
- *All the temporary installations required from Guest (for instance lighting fixtures, sound / video gear, mobile intercoms, cabling, etc.) must be planned in wide advance, and can be included in this contract or not included. So that the following caption is used in the document:*
 - **"Included": the use of the gear is included in the contract, and ready to use generally in a fixed position.**
 - **"May be subduced to further cost": the use of the gear is included in the contract but the installation could require additional staff and maybe generates further cost.**
 - **"Subduced to further cost": the use of the gear and its installation are not included in the contract and are subduced to further cost. Please ask for rental price list.**

1.2 Quick technical resume about LAC.

LAC Lugano Arte e Cultura is an arts center where visual arts, music and performing arts come together on a single venue, a place designed to provide the best experience of art in every form. The center is conceived to be a dynamic space, open to the city and the lake. LAC is Lugano's vibrant new heart, a cultural crossroads between southern and northern Europe.

The Auditorium hosts up to 986 persons, with 659 seats in the stalls and 327 in the balconies and loges, in a very contemporary and elegant environment. When setting an Orchestra in the pit the stalls seats drop down to 563 seats.

The scenic tower is 27 m width x 17.5 m depth, with 20 m of height, with 51 motorized bars on place and available. LAC owns a wide choice of modern equipment (both fixed and temporary installations) of lighting, sound, video, masking, consoles, etc. in order to host each kind of show. LAC has very willing, competent, and welcoming technical crew. The technical support from LAC staff is normally tracked in the contract of use and can be otherwise adjusted during preproduction phase (see on Chpt.7.1) with a written agreement. DWG or PDF Plans, drawn, photos, any technical document is available on request.

1.3 Coordinates.

The loading dock address is:

LAC Lugano Arte e Cultura
Via Adamini 1
6900 Lugano

The offices address is:

LAC Lugano Arte e Cultura
Piazza B. Luini 6
6900 Lugano

The administrative references are:

LAC Lugano Arte e Cultura
C/O Città di Lugano
Servizio Finanze DCSE
Cp 1670
6901 Lugano
CHE 429.759.384.IVA

For custom uses:

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For all other information (hosteling, catering, welcoming, transport) please refer to your booking agency, and or to the local promoter.

2. Lighting and Power Supply.

2.1 Lighting fixed installations.

- All the following fixed installation are **"included"** in the contract.

Dimmer System:

The dimmer system is ETC Sensor III for a total available power of 500Kw, the system is composed as following:

- **Stage Over Head Dimmer Channels distribution:**
 - 168 dimmer channels of 13 Amps are distributed along the first stage's balcony. These are plugged with CEE 16 Amp monophase plug and/or via Socapex connection. LAC provides for all multicores and boxes in order to dim all channels at the same time.
 - 21 dimmer channels of 25 Amps are distributed along the first stage's balcony.
- **FOH Dimmer Channels distribution and Fixed Fixtures available:**
 - 18 x 13 Amps dimmer channels are available in each bridge with CEE 16A standard plug. Two fixed bridges over the auditorium are available for FOH lighting equipped with 24 x 710sx Robert Juliath Profilers.
 - 3 x motor driven bars are available over the proscenium (A, B, C) Each one is equipped with 12 x 13 Amp dimmer channels + 3 x 25 Amp dimmer channels.

DMX signal:

- All local dimmer channels units are assigned on Universe 1.
- DMX is shared in various of the theatre using sACN converter (on a dedicated network) providing up to 16 x DMX universes where needed.
- Lighting desk using DMX / sACN can be place in POS.1, POS.2, (see on Chpt.4.5 page 8)
- A fixed distribution of Universes 2 to 7 is already available on 1st balcony of stage left.

Three Phases Power supply distribution:

The Switzerland power supply is 230 V, 50 hz, F + N + T, or 400V, 50 Hz, 3F + N + T

- Power distribution used in the theatre is ALL via CEE Form. Other plugs are NOT supported.

Power supply is located as following:

- Down Stage Right, on floor: 1 x 125 Amps, 2 x 63 Amps, 2 x 32 Amps
- Down Stage Left, on floor: 1 x 125 Amps, 2 x 63 Amps, 2 x 32 Amps
- Stage Left and Stage Right Balconies: 160 Amps per side
- 1 x 63 Amp in Control room
- 1 x 32 Amp for the FOH lighting bridges

Stage Wings lighting / Service light:

- A fixed system of RGBWA wall washer LED lights are installed in order to illuminates the sides of the stage. Guest are welcome to ask for any dimmed intensity and color.

Audience light and Exit signs:

- (See on Chpt.2.4) All exits signs in the auditorium and lights along the lateral stairs, can never be switched off. Audience fade in and fade out time is fixed with smooth duration.

2.2 Lighting fixtures. Fixed or temporary installations:

- **"Included":** the use of the gear is included in the contract, and ready to use generally in a fixed position.
- **"May be subduced to further cost":** the use of the gear is included in the contract but the installation could require additional staff and maybe generates further cost.
- **"Subduced to further cost":** the use of the gear and its installation are not included in the contract and are subduced to further cost. Please ask for rental price list.

LIGHTING EQUIPMENT					
QT	Type	KW	Make	Description	Contract Notes
Fixtures					
24	Profiler 10°/25°	2.5	Robert Juliat SX710	1st & 2nd Auditorium Bridges	Included
48	PC	1.2	Robert Juliat 310H	with Barndoor, gel frame	May be Subduced to further cost
24	PC	2.5	Robert Juliat 329H(PC)	with Barndoor, gel frame	May be Subduced to further cost
24	Fresnel	1.2	Robert Juliat 310HF	with Barndoor, gel frame	May be Subduced to further cost
24	Fresnel	2.5	Robert Juliat 329H(F)	with Barndoor, gel frame	May be Subduced to further cost
12	Fresnel	5	Robert Juliat 3560LFVF	with Barndoor, gel frame	May be Subduced to further cost
24	Profiler Zoom	1.2	Robert Juliat SX611	with iris, gel frame, gobo holder	May be Subduced to further cost
24	Profiler Zoom	1.2	Robert Juliat SX613	with iris, gel frame, gobo holder	May be Subduced to further cost
48	Profiler	0.75	ETC Source 4	HPL lamp	May be Subduced to further cost
24	Lens tube 50°	0.75	For ETC Source 4	with gel frame	May be Subduced to further cost
24	Lens tube 36°	0.75	For ETC Source 4	with gel frame	May be Subduced to further cost
12	Lens tube 19°	0.75	For ETC Source 4	with gel frame	May be Subduced to further cost
72	PAR 64	1	N/A	CP 60/61/62	May be Subduced to further cost
50	Flood / Domino	1	Robert Juliat Horus 850	with gel frame	May be Subduced to further cost
2	Followspot 5°/8°	2.5	Robert Juliat Aramis	With color frames	Subduced to further cost
2	Followspot	1.2	Robert Juliat Lucy	With color frames	Subduced to further cost
10	ML - Wash		Clay Paky K25 Theatre		Subduced to further cost
10	ML - Profiler	0.6	Clay Paky Axcor Theatre 600		Subduced to further cost
12	LED bar		DTS FOS 100	With lens 10° and/or 40°	Subduced to further cost
63	LED PAR		Custom RGBWA with short lens	Fixed in Acoustic Roof	Not available
Controls					
1	Lighting Console		ETC Gio EOS System		Included
1	Lighting Console		ETC Gio EOS System, back up unit		May be Subduced to further cost
1	Lighting Console		ETC Smartfade		Subduced to further cost
1	Lighting Console		Compulite Vector PC with panel wing and motorized fader		Subduced to further cost
1	Mobile dimmers		24 ch x 13 Amps		Subduced to further cost
Hardware					
12	Booms	-	Booms ladder type with 2x50mm tube, upper height 2.7 meter		May be Subduced to further cost
48	Floor Stand	-	Wooden plate for single light on floor (30 cm x 30 cm)		May be Subduced to further cost
2	Tripods Stand	-	Aluminum die cast 3.15 m max height tripods		May be Subduced to further cost
12	Tripods Stand	-	Black steel die cast 1.8 m max height		May be Subduced to further cost
FX and Spare parts					
2	Smoke Machine	-	Le Maitre NVS nebbia DMX512 (1 in haze, 1 out fluid)		Subduced to further cost
2	Hazer Machine		Tour		Subduced to further cost

2.3 Lighting Filters.

LAC does not provide for lighting filters for free. Please ask for rental price list.

2.4 Audience light – permanent emergency signs / lights.

All exits signs in the auditorium and lights along the floor of the lateral stairs, can never be switched off.

Architectural audience light is not under dmx control. Its control is provided by a laptop (on an embedded wireless LAN). The intensity of light during clearance operations is an exclusive decision of LAC's staff. The complete auditorium light can be separate in four different controls (roof, sides, floor, stairs) but fade in and out times are fixed (9 sec).

All the auditorium environment is a pear wood, a fairly light color, so a residual light even in darkest situation is unavoidable. Any request of switching off the emergency lights will be rejected.

2.5 Focusing.

The use of all focusing facilities is included in the contract. A driving permission to use the Genie lift is mandatory in Switzerland.

OM-STILL QUICK UP 14mt Genie-tower and a variety of ladders are available for focusing:

- Using Genie Lift is normally avoided on the LAC's dance floor.
- Use of the ladder is allowed with harness only. Enough persons must be planned in order to get this operation done (please check on Chpt.7 for schedules)

3. Fly bars, Grid, Rigging.

*LAC Theatre does not have manual / counterweighted flying bars at all. The use of the wide motor driven fly bar system is included in this contract. A LAC's Flyman is always included in the contract and scheduled (see on Chpt.7 for breaks). **The using of this system from any stranger operator is avoided.***

3.1 Motor Driven Fly bars.

A separated Pipes List with distances, load and any kind of units related is available. For safety reasons any use of the fly system during set up and during show must be planned in advance with the Head of planning and coordination. A detailed schedule for the fly man must be planned with the Head of planning and coordination.

Guest is completely responsible for any suspended installation of his own gear.

- 50 x motorized fly bars are available after the Setting Line
- 8 x motorized fly bars are available before the Setting Line (over proscenium).
- Fly bars:
 - width of 16.3 meters. 50mm diameter iron single tube.
 - Maximum height of fly is 20 meters. Perhaps some bars are limited to 14.20 m because of the fixed acoustic shell roofs.
 - Fly bars is hung to its own winch through 6 steel ropes (2.9 m interaxial).
 - Distributed max load available on each bar depend on its own winch (see our *pipe list* scheme please); this can be 500 kg or 700 kg.
 - **The punctual maximum load allowed on the pipes is 50 kg. Heavier weights directly loaded on the iron tube can seriously deform it, so in order to avoid damages these loads must be communicated to LAC's head of stage in advance. (Custom solution will surely be found).**
 - Flying Bars driving system is a BBH system. It controls all fly bars from downstage left.

3.2 Grid.

Access to the grid can be prevented to anyone by the LAC stage security supervisor.

- The grid is made by a steel mesh of 35 x 75 mm, leaning on the steel carpentry.
- Grid over the stage dimension is 17 meters width x 12 meters depth. *See plans*
- 5 x Stage Maker SR10 hoists of 1 Ton are available from the grid, for any custom use.
- Spools, ropes, wooden strips are available but may be subdued to further cost.

4. Stage and theatre areas.

4.1 Stage Dimensions.

The Stage is defined by concrete walls, black painted.

Widths:

- Wall to Wall width: 27.60 m
- Balcony to Balcony width (flying tower): 17.20 m
- Proscenium Arch max opening 15.70 m
- Portal Min opening (setting line) 10 m

Depths: *(Pipe List)*

- Main Curtain to Upstage wall: 18.50 m
- Setting Line to Upstage wall: 17.15 m
- Setting Line to last bar 51: 13.75 m
- Last bar 51 to Upstage wall: 3.45 m
- Setting Line to Proscenium edge: 4.05 m
- Setting Line to Control room Pos. 1: 31.50 m

Heights: *(referred to scenic tower)*

- Grid Height: 21.00 m
- Fly bars max height: 20.00 m
- 3rd balcony floor's quote: 18.24 m (from stage)
- 2nd balcony floor's quote: 14.60 m (from stage)
- 1st balcony floor's quote: 11.96 m (from stage)
- Useful height under 1st Balcony: 11.00 m
- Useful height under wall to wall: 8.4 m
- Stage height from audience floor: 1.23 m

4.2 Stage Surface.

- The surface is a 45 mm thick Oregon Pine wood layer leaning on a strong iron carpentry. **Its color is black.** Distributed load on stage is 500kg /m2. Punctual Load is 300 kg related to a surface of 0.25 m x 0.25 m. This maximum punctual load can be increased a lot depending on the exact position of the load. This stage results correct to mostly dancing activities, with a dance floor only.
- Few traps are distributed around the stage. The technical equipment accesses to stage by its elevator. **Mind about that whenever a dance carpet is used.**
- Stage maintenance is done per year, normally in the summer. **Due to the very intensive use of stage, its wooden surface can be quite worn. Specifics interventions must be planned in advance with the Head of planning and coordination.**

4.3 Accesses to stage and doors.

- Access to stage from dressing rooms: 1 x Upstage Left and 1 x Upstage Right (2 m x 2 m doors).
- Access to stage from loading dock: 1 x gate of 6.6 m x 6.5 m (width) on Down Stage Right
- Access to stage from Auditorium: 2 x stairs of 90 cm width with 6 steps at the corners of the proscenium.
- **From Auditorium to stage other passages are available in order to be not seen from audience. Unfortunately, those paths are not so short. Please advise the LAC's Head of Production about this "handicap" in order to solve this issue.**

4.4 Auditorium and Orchestra Pit.

The Auditorium can welcome up to 986 persons. 659 in the stalls, 295 in the balcony, and 32 in the loges. The Auditorium wooden coating has been designed to provide a natural reverb. A system of 26 motorized tents reduces this natural reverb. *(Please see Chpt.6. Sound Video and intercom for more info).*

In the middle of the last two rows 12 seats are normally not for sale for the FOH desks *(See below Position 2).*

Any technical needed related to ticket selling must be planned in wide advance with the Head of planning and coordination, and with your local promoter. (Please see Chpt.7. for more information).

The Orchestra Pit can be used only removing seat's rows AA, BB, CC, DD, losing 96 seats of the stalls. Once done, the pit can host a complete orchestra line up, in a surface of 15.8 meters width x 6 m depth including the underneath of the proscenium (around 1.2 m of depth).

The use of the Orchestra pit avoids the access from the stalls to the stage.

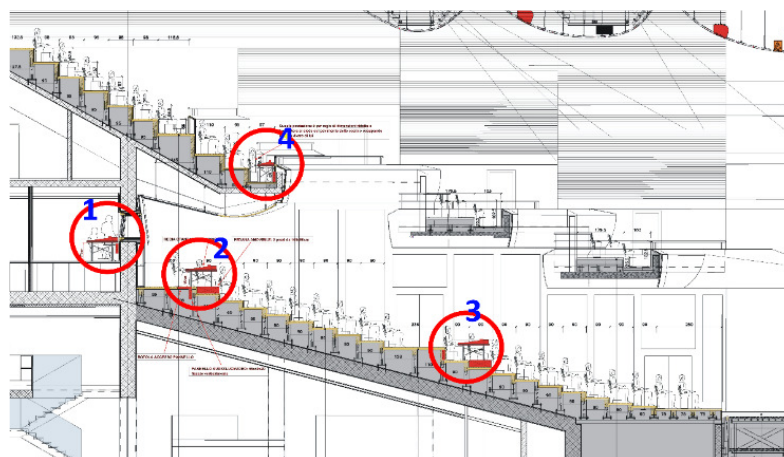
In case of Opera application with orchestras in the pit a wide kit of chairs, resonant, stands, lights for stand, is available but may be subdued to further costs. Please ask for rental price list.

4.5 Control Room and further FOH desk positions.

The main control room is a comfortable and wide closed room. A fixed glass windows insulates the room but despite these 2 lateral windows of 1.1meter width are openable. This guarantees an excellent visibility and a discrete listening.

Available Connection on Positions 1 and 2: Dmx, Analog sound, digital AV fiber, BNC, CAT5e point to point connections, intercom network.

- **Control Room (Isolated)**, POS 1. Best position for lighting operator, cue caller, video operator, surtitles operator
- **Auditorium** POS 2. Best position for sound operator.
- **Rehearsal only POS. 3 and Balcony POS.4 Will obstruct audience and reduce seating! are NOT available during shows. Connection must be settled and are not included in the contract.**



4.6 Loading docks, Side Stage.

LAC's technical staff does NOT load trucks (see Chpt.7). This service is organized under request from the Guest to the Head of planning and coordination, and provided from third-party company. This service is subduced to further costs. Please ask for rental price list.

The total distance from truck to stage gate is 45 meters; all this path is in plan, without steps. The loading dock area allows to load out up to 2 trucks in the meantime. Various dollies and facilities are available to quick up all cargo operations. An EGV Still 20 Electrical Forklift (2T loading) and 3 pallet trucks (loading 2T) are also available. **The loading dock cannot be used such a parking. As soon as the truck operation ends the truck has to leave the building.**

Alongside of the stage (Stage Right) a wide area (14 m x 8 m) is available for empties, sets, wardrobe, quick-changes area, or production area, this area has a minimal height of 6 m and has an access to stage through a gate of 6.6 x 6.5 m.

A small laboratory for minimal works of maintenance of iron, wood, electricity, is available in this area (not visible in the photo).



4.7 Rehearsal rooms.

The use of those areas, and their setup must be booked in wide advance and is subduced to further cost and a specific booking contract. Please refer to your booking agency, and or to the local promoter.

In the same building *Teatro Studio* and / or *Sala 4* offer some rehearsal facility.

- **Teatro Studio** is a 14 x 8.5 m venue and can be equipped on demand.
- **Sala 4** is a room of 17 x 5.5 m more and can be equipped on demand.

4.8 Dressing room, Laundry, Tailoring.

*The laundry and tailoring rooms are completely equipped, so that the use of washing, laundering, ironing machines is included in the contract, unlike **the service is not included**; it must be booked in wide advance and is subduced to further costs. Please ask for rental price list.*

The corridors of the dressing rooms are emergency routes. So that no cases, bags, and heavy and bulky element can be left. All the Guest costumes cases must stay inside the dressing room.

Dressing rooms are located very close to stage, the access from stage is right behind the upstage wall, and are distributed along four floors. 2 stairs and an elevator are available.

Each dressing room is equipped with audio video monitoring (see on Chpt.6)

Available Dressing Rooms:

- 4 x single or double dressing room (103, 104, M103, M104)
- 8 x dressing rooms for up to two or three persons (101, 102, 105, 106 M101, M102, M105, M106)
- 4 x collective dressing room, up to 10 – 12 persons each (201, 202, PM201, PM202)
- 2 x collective dressing room, up to 10 – 12 persons each for technical crew and or spares (001, 002)

Laundry (4 x 4 m area) on the M2 floor is equipped with.

- 2 x professional washing machine
- 2 x professional drying machine

Tailoring (4 x 4 m area) on the M2 floor is equipped with:

- 2 x iron (Miele Fashion Master)
- 2 x Singer Heavy Duty tailor machine is available.
- Some mobile stands

4.9 Stage's Notes, Green Room.

- Closest tap is 30 meters away from center stage by each side, in the closest toilet, at the same floor.
- 2 water dispensers (hot and cold) are available on stage.
- LAC has no Guest's dedicated production office. Accommodation will be found on request.
- A Green room is available at -1, with microwaves oven, refrigerator, and a snacks / drinks dispenser. In case of a large crew you are welcome to refer to your promoter.

4.10 Hall and common area.

*The Main entrance of LAC is a hall which hosts the audience of various LAC's activities like the museum, the private event area, and other shows maybe presented in the same day of the Guest. That is the reason why **any use of this space (as merchandise activity, additional performances, photographic show) must be agreed in advance with your promoter in order to be accepted.***

5. Sets, Masking and stage furniture.

5.1 Masking Equipment. Fixed and Temporary installations:

- **“Included”**: the use of the gear is included in the contract, and ready to use generally in a fixed position.
- **“May be subdued to further cost”**: the use of the gear is included in the contract but the installation could require additional staff and maybe generates further cost.
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MASKING				
QT	Type	Color	Width x High in m	Contract Notes
1	Main Curtain, Greek opening, without harlequin	dark red	16 x 11	Included
12	Legs, Flat	black	2.5 x 11	May be Subdued to further cost
1	Backdrop, Flat	black	16 x 12	May be Subdued to further cost
1	Black Arlequin, Flat	black	16 x 7	May be Subdued to further cost
9	Borders, Flat	black	16 x 3	May be Subdued to further cost
1	Backdrop, Fullness – 2 pieces	black	8 x 11 (per piece)	Subdued to further cost
8	Dance carpet rolls	B & W	2 x 17	Subdued to further cost
2	Dance carpet rolls	B & W	2 x 15	Subdued to further cost
1	Dance carpet rolls	B & W	2 x 16 for proscenium	Subdued to further cost
1	Dance carpet	grey and black		Subdued to further cost
2	Legs	black	3 x 11	Subdued to further cost
1	PVC – for color back lighting and or videoproj.	warm white	16 x 12	Subdued to further cost
1	PVC – for color back lighting and or videoproj.	grey	16 x 9.5	Subdued to further cost
few	Tulles, Scenic drapes, other blacks	various	various	Subdued to further cost
many	Risers Truss and Rigging accessories, see on Chpt.5.2 (below)			Subdued to further cost

5.1.1 Important notes about LAC’s Masking Equipment.

Dance Carpets, Black drapes, House Curtain, PVC, tulles, must not be pricked or soiled from Guest activity. In case of any relevant notable and proven damage, LAC is allowed to claim an economic compensation.

LAC’s black masking is generally in Velvet *Macbeth* from Peroni s.p.a. and / or *Ascona* from Gerriets. Both are 400 gr/ m2. The principal Dance carpet is a Peroni s.p.a. *Supersilvia* kit, Black and White in rolls of 17 m x 2 m.

- Laid along the depth it covers an area of 18 m width x 17 m depth starting from proscenium edge.
- Laid along the width it covers an area of 17 m width x 18 m depth starting from proscenium edge.

LAC does not provide for a sprung floor at all.

The Main Curtain is motor driven and played from the Fly Man with the Fly console. See please Chpt.3 for scheduling.

5.2 Various Furniture: Risers, trusses, rigging.

- Platforms:
 - 48 of 2 x 1 m
 - 24 of 1.2 x 1 m
 - 10 of 0.4 x 1 m
- A stock of not telescopic legs for platform (black aluminum 50mm x 50mm) of 20 – 40 – 60 – 80 – 100 – 120 – 140 cm is also available
- A wide stock of traditional trusses from FD series of *Eurotruss*
- Ropes, rigging parts, pulleys, and other small parts are available.

6. Sound, Video, and Intercom.

LAC auditorium has a natural reverberation time around 2.2s for a 60dB drop in SPL. This reverberation time can be reduced up to 1.7s with appropriate curtains located along the walls.

For Theatrical performances a voices amplification is mandatory. LAC's sound engineer will support Guests in order to get the best results about this issue.

6.1 Sound and Video Equipment. Fixed and Temporary installations:

- **Included: the use of the gear is included in the contract, and ready to use only in the fixed position.**
- May be subduced to further cost: the use of the gear is included in the contract but the installation / dismantling could require additional staff and further cost.
- *Subduced to further cost: the used of the gear and the installation / dismantling are not included in the contract and are subduced to further cost. Please ask for rental price list.*

SOUND SYSTEMS			
QTY	Make / Type	Description	Contract Notes
6	d&b Qi7	Integrated PA - 3 per side (with D12 Amp)	Included
2	d&b Qi10	Integrated PA 1 per side (with D12 Amp)	Included
8	d&b 4S	Integrated PA - Distributed Front Fills (with – D6 amp)	Included
4	d&b 8S	Integrated PA - Distributed Balcony Delay (with – D6 amp)	Included
1	Digico SD11	Sound mixer - with DMI cards: MADI B - C - OPTO	Included
	AD/DA	see Chpt.6.2	Included
1 kit	Green Go	Audio intercom system see Chpt.6.3	May be Subduced to further cost
4	d&b Y subs	Additional PA - 2 per side (with D12 amp)	May be Subduced to further cost
12	Y8 array modules	Additional PA - 6 per side (with D20 amps)	May be Subduced to further cost
4	d&b Max12	Stage monitors	May be Subduced to further cost
	Backline	See Chpt.6.4	May be Subduced to further cost
6	d&b 8S	Cabinets (+ rig frames)	Subduced to further cost
6	d&b 10S	Cabinets (+ rig frames)	Subduced to further cost
2	d&b Qi7	Cabinets (+ rig frames)	Subduced to further cost
2	d&b Q subs	Subs	Subduced to further cost
3	d&b D6 amp	Amps	Subduced to further cost
6	d&b t10	Small PA with 2x T Rig Z5373, 2x Rig Fly Z5371,	Subduced to further cost
1	Digico SD12	Sound mixer with DMI cards: MADI B – C – OPTO - DANTE	Subduced to further cost
many	Microphones	for speech, instruments	Subduced to further cost
many	Sound Accessories	Stands, cables, network, adapters	Subduced to further cost
many	Informatic Accessories	PCs, Player, converter	Subduced to further cost

VIDEO EQUIPMENT			
QTY	Make / Type	Description	Contract Notes
1	Christie CRIMSON WU31	31'000 Ansil, 3xDLP, Laser Phosphor, 16:10	Included
2	CRIMSON zoom lenses	1 x (2.8 – 4.5:1); 1 x (4.5 – 7.3:1)	Included
1	PT-Dz770 Panasonic Projector (A)	Video projector 7000 ANSI, DLP technology	Subduced to further cost
1	PT-ez770 Panasonic Projector (B)	Video projector 6500 ANSI, LCD technology	Subduced to further cost
3	PT-MZ770 WUXGA Projector (C)	Video projector 8000 ANSI, Laser	Subduced to further cost
1	ET DLE-055 (A)	0.8:1 fixed Lens	Subduced to further cost
1	ET DLE-250 (A)	(2.3 – 3.6) : 1 zoom Lens	Subduced to further cost
4	ET-ELS20 (C) (B) Standard lens	(1.6-2.8):1 short zoom Lens	Subduced to further cost
1	ET ELW22D (B) (C)	0.8 – 1.0 : 1 super short zoom Lens	Subduced to further cost
2	EL-ELW20 (C)	(1.3-1.7):1 short zoom Lens	Subduced to further cost
2	EL-ELW21 (C)	0.8:1 short fixed Lens Lens	Subduced to further cost
many	Blackmagic kit + other	Mobile Video monitoring See Chpt.6.6	Subduced to further cost
2	PVC backdrop available for videoproj.	See Chpt.5.1 Masking	Subduced to further cost
1	Screen 16:9 - Gerriets White PVC	7.5 m W x 4.3 m H – with invisible frame	Subduced to further cost
2	Screen 16:9 – Peroni Grey PVC	4.5 m W x 2.2 m H – with visible frame	Subduced to further cost
1	Overtile screen – Peroni Black	8.0 m W x 3 m H – without frame	Subduced to further cost

6.2 AD/DA.

All desks positions offer digital / analog audio connectivity. The digital connectivity is streamed via Open-loop MADI, which can be connected individually to reach mix positions. MADI is integrated in to the venue's main Fiber-Optic ring via Optocore DD4MR, DD2FX and DiGiCo Interfaces. Main AD/DA is provided by Optocore x6R and v3R modules.

6.3 Audio Intercom.

The fixed station position for Guest's Stage Manager is down stage right and is preconfigured to reach all the dressing room. This Intercom system from Green Go is completely digital and it can be programmed and can potentially reach all the theatre. (control room, stage, grid, balcony etc.)

The system is equipped as following:

- 1 x fixed main board for cue caller on downstage right
- 8 x wired bodypack
- 4 x wireless bodypack
- 12 x Headset available

Normally the system provides for A and B channel where each user can talk with A or with B only, or with both. Please refer in advance to the Head of planning and coordination, for custom configurations.

6.4 Backline.

The available backline of LAC consists in the following acoustic Pianos.

- 1 x Steinway D-274
- 1 x Steinway B-211
- 1 x Steinway K
- 1 x Yamaha U1

The tuning of the Piano is not included in the contract, and in charge of the Guest. Please refer in advance to the Head of planning and coordination to organize the tuning.

6.5 Fixed Video Monitoring.

An A/V monitoring from FOH is distributed in the dressing rooms (*see on CHPT 4.8 Dressing Rooms*). Fixed Installation consist in a steady video shooting from FOH, Pos. 1 (see 4.5), always working and sending signal to:

- Down stage left and down stage right monitors dedicated
- Each dressing room on a video monitor dedicated
- If needed on other video monitor spread around the building (main hall)

6.6 Mobile Video monitoring.

The system is wired in BNC. The delay is quite acceptable even for music application and consists in:

- 2 x small cameras
- Blackmagic matrix with 2 x cameras INs and 4 x camera OUTs + 2 x 21" screens.

7. Planning Safe Activities – Work in safe environment.

The main responsibility of the LAC's Technical Department is to plan all the activities, and the gear maintenance in order to preserve everybody from injuries and lassitude, and making LAC a leader in hosting all stakeholders.

LAC is also a public administration and strictly apply laws and regulation to preserve safety.

For all these reasons and due to the busy schedule presented at LAC the following 7.1, and 7.2 statements are mandatory.

7.1 Preproduction.

The Guest must send to the Head of planning and coordination the following documents at least with 3 month of advance from its arrival:

1. a complete description of the act / event / show presented, with cast, show duration, pauses, and all technical contacts.
2. a complete list of gear and service asked to LAC, and eventually provided from Guest.
3. installing drawn, DWG plans and section on LAC dwg's.

After receiving all this document the preproduction phase can start. The goal is to define all the detailed technical agreements about planning LAC's Crew, and LAC's temporary installation. The preproduction must be concluded with 45 days of advance from the Guest's arrival, with satisfaction of LAC's criteria of quality.

The Head of planning and coordination is there to help Guest for this. If Guest does not send further documents, or does not answer to emails or phone calls in time, LAC's Technical Department will organize those activities by its own without affecting the contract. The Guest accepts this responsibility and that conditions.

7.2 Technical support.

LAC's Technical Crew "included" for each day of stay is mentioned in the contract. These schedules can be renegotiated and rearranged only by a written agreement with the Head of planning and coordination and may causes further costs for the Guest.

Guest must schedule activities with the Head of Planning following the statements below:

- Days of set up or rehearsal without show: theatre opens not before 8:00 and close not after 22:00.
- Day of debut: theatre opens not before 8:00 to end of show.
- Day with further show: theatre opens not before 4 hours before beginning of the show. Theatre close 30 minutes after the end of the show.
- Strike out: Strike out is mandatory after end of last show. The theatre close not after 01:00 am.
- The LAC stage crew (machinists, lightings, sounds, video technicians) **does not load / unload trucks and / or clean stage; the Guest must schedule persons in order to respect the closing time.**

7.3 Internal Security Directives.

- LAC declines all responsibility related to amateur or unprofessional Guest's technicians on stage.
- LAC declines all responsibility related to not using of DPI systems from Guest (safety clothing such as helmet, glove, shoes, harness)
- Guest must be familiar with all applicable Swiss laws relevant to the activities proposed and implemented by him/her at the LAC (sound pressure, lasers, etc.)
- The using of some LAC's safety related equipment may require an official license (genie lift, EGV still, pallet trucks)
- Any fireproofing document, engineering licenses and/or other documents required from LAC and necessary to certify the safety of any Guest's stuff must be available at any moment, and not only in advance.
- The using of the Fly system is strictly prohibited to Guests.

- All building fire regulations must be constantly observed at all times. Guests must comply with these rules even if and when it may cause inconvenience or additional work. Emergency exit lights, emergency routes, all fire curtains, and access to fire extinguishers may not be obstructed or manipulated in any way at any time, even during performances.
- The air condition in the theatre and its stall is part of the fireproof system of the building. For this reason, the possible interaction with it is limited. The stage temperature may vary from 24 to 26 degrees. The stage air ventilation is always off during the show times (at the doors opening). Forcing the temperature inside the theatre and its stalls is impossible in the same day. Due to the volume of the building the time needed to experience a difference is about 12 hours. So that any change of temperature required must be asked before 09'00 AM in order to experience it for the evening of show.