

CLASSICAL BALLET

— MULTIMEDIA —

Technical Rider

THE NUTCRACKER MULTIMEDIA

The complete technical specification of the production — stage, LED video, lighting, sound, power and rigging.

Stage · LED Video · Lighting · Sound · Power · Rigging

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General Technical Principle

SECTION 01 · STAGE

Stage dimensions

MINIMUM WIDTH

20–25 m

MINIMUM DEPTH

9–11 m

Final stage dimensions are confirmed following approval of the venue-specific technical plan and the final configuration of the stage / tent structure. Dimensions must accommodate the full performance area, LED video system, lighting system, ballet floor and required performer access routes.

Ballet floor

Requirements

- Professional-grade vinyl dance floor
- (Ballet Vinyl / Linoleum)
- Must cover the entire performance area
- Completely flat, level and free from steps, gaps or damage
- All joints securely taped with professional stage/dance-floor tape
- Any colour, unless a specific colour is agreed in advance

Not acceptable

- Bare wooden stage decking
- Tiles
- Concrete
- Unfinished or untreated stage surfaces
- Any other surface not designed for professional ballet

No rehearsal or performance may take place without an approved professional ballet floor.

Stage truss structure

Equipment	Qty
KSP12 Base Plate FD-34	4
GLOBALTRUSS FD-34 Quadrolight, 29×29 cm, 2.0 m sections	12
GLOBALTRUSS FD-34 Quadrolight, 29×29 cm, 2.5 m sections	4

TOTAL TRUSS LENGTH

34 m

Final configuration is determined by the technical plan and actual venue conditions

Technical specification

LED TYPE

Black LED, outdoor-rated

PREFERRED PIXEL PITCH

2.60 mm

ACCEPTABLE RANGE

2.00–4.00 mm

MODULE COUNT

376 units

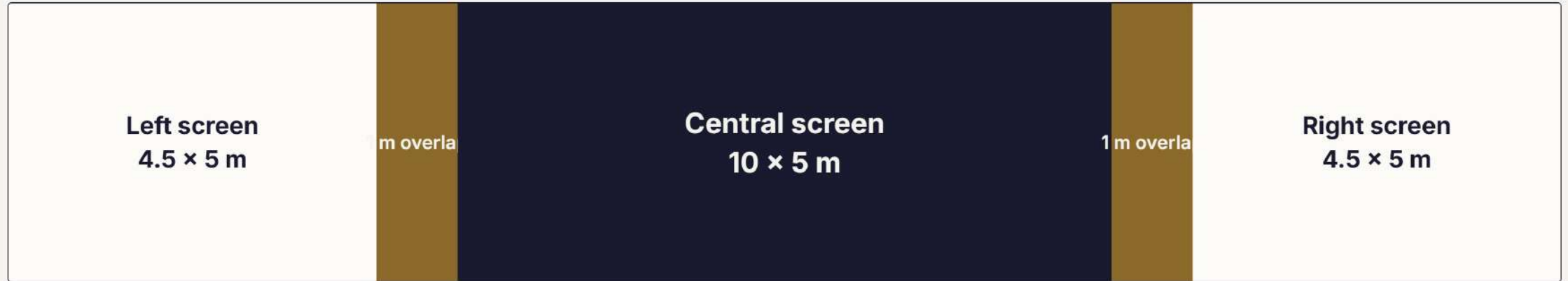
TOTAL LED SURFACE

≈ 94 m²

INCLUDED

**Complete rigging / suspension
and power distribution**

Screen architecture



The side screens overlapping the central screen eliminates visible technical gaps, maintains visual continuity of the content, and forms the required performer entrances and exits.

«Physical width 19 m – 2 overlaps × 1 m = Visible image width 17 m».

TOTAL PHYSICAL WIDTH	VISIBLE IMAGE WIDTH
19 m	17 m

«Rigging and suspension loads for Left / Central / Right screens — see Section 08»

Video equipment

Equipment	Qty
Black LED, 2.60 mm, outdoor	376 modules
Novastar 4K100 video processor	2
Dell Inspiron G5 5500 professional laptop with media software	1

All video equipment must be fully installed, connected, tested and operational before the technical rehearsal begins. The LED system, video processors, playback system and all signal paths are tested as a complete system.

Main lighting equipment

Equipment	Qty
HY B-Eye K10 — LED Wash / moving light	20
THE ONE BEAM230 — Beam moving light	8
Brighter Hybrid Sport 480 CMY — hybrid moving light	16
ETAN 2×100W LED Blinder	8
Stage Pixel Bar	16
GLP JDC1 Strobe	8

TOTAL FIXTURES

76

Exact positioning is determined during the lighting technical advance, per the venue's truss positions

Atmospheric effects & DMX control

Atmospheric effects

- Robe Faze FT850 (haze / fog machine) — 2 units
- Fan — 2 units

Use of haze/fog/atmospheric effects must comply with the venue's fire-safety regulations and be approved in advance.

DMX infrastructure

- ChamSys MagicQ PC Wing + laptop, 3276 DMX channels — 1 set
- HALO Art-Gate, 4-channel + routing — 1 unit
- DMX Splitter, 6-channel — 2 units

All lighting fixtures must be fully addressed, patched and tested before the technical rehearsal.

SECTION 04 · SOUND SYSTEM

PA system & monitoring

A professional concert/theatrical sound reinforcement system is required, providing full and even audience coverage, sufficient headroom, and consistent tonal balance throughout.

PREFERRED PA MANUFACTURERS

d&b audiotechnik

L-Acoustics

Meyer Sound

Adamson

NEXO

STAGE MONITORS

4 units

SIDE FILL SYSTEM

2 units

Main mixing console

FOH CONSOLE

Allen & Heath SQ-5

1 unit

FOH position requirements

- Directly opposite the stage, or a technically equivalent position with a clear view
- Preferably aligned with the stage's central axis or opposite a portal
- Not inside a closed room, under a balcony, or behind an obstruction
- Adequate space for the console, operator and required equipment

SECTION 06 · MICROPHONES & WIRELESS SYSTEMS

Sennheiser EW 500 G4

HANDHELD TRANSMITTERS

4

BODYPACK TRANSMITTERS

2

The wireless system must be fully coordinated and frequency-licensed in accordance with local regulations. RF spectrum use is checked in advance with the local RF coordinator and/or venue technical department. Receivers, antennas, antenna distribution, cabling, batteries and accessories are provided by the local production company.

Power & electrical distribution

System	Approx. load
LED / Video	30 kW
Lighting	29 kW
Sound / Audio	6 kW
TOTAL	65 kW

Requirements

- Three-phase electrical supply
- Dedicated, stable supply for each system
- Circuit overload protection
- Proper grounding per applicable regulations

65 kW is a preliminary estimated connected load, not the final power consumption. The final power distribution plan is confirmed following the detailed technical plan.

Total rigging requirements

«Application» → «Central LED screen», «Left LED screen», «Right LED screen»

Application	Hoists
Central LED screen	4 × 1,000 kg
Left LED screen	2 × 1,000 kg
Right LED screen	2 × 1,000 kg
Lighting Line 1	3 × 500 kg
Lighting Line 2	3 × 500 kg

SUSPENSION POINTS

14

MOTORISED HOISTS

14

SECTION 08 · CRITICAL REQUIREMENT

The rated lifting capacity of an individual hoist does not, by itself, confirm the venue structure can safely support the load.

The venue and/or local rigging contractor must confirm in advance:

- permissible load at each suspension point
- structural load-bearing capacity
- Working Load Limit (WLL) of each point
- compatibility of the proposed hoists and rigging equipment
- compliance with applicable safety regulations
- availability of all required inspection certificates and documentation

No rigging operation may commence until the required structural and rigging approvals have been obtained.

One unified technical system

**Ballet + Stage Design + LED Video + Lighting + Sound + Live Media Control
operate as one unified artistic and technical environment**

Any substitution of specified equipment is permitted only where the proposed alternative is technically equivalent to or superior to the specified equipment, fully compatible with all other production systems, and approved by the Technical Director of Classical Ballet Multimedia prior to final technical approval. No unilateral substitution or modification of the technical configuration is permitted without prior approval.

FINAL APPROVAL

The technical specification is an integral part of event preparation

The final technical specification must be agreed between Classical Ballet Multimedia, the Organiser, the Venue and the Local Production / Technical Supplier prior to commencement of load-in and installation.