

# SOUND

## PA System:

Immersive Hyperreal Sound: **L-Acoustics L-ISA**

Main system:

- L-Acoustics KIVAII 7 clusters x 6 pcs
- L-Acoustics SB15m 7 clusters x 1 pcs
- L-Acoustics KS28 2 clusters x 2 pcs (End-Fire)

Surround / Overhead:

- L-Acoustics X8 28 pcs

Fills:

- L-Acoustics 5XT, 17 pcs
- L-Acoustics X8 8 pcs

Amplification:

- x L-Acoustics LA12X 1 pcs
- x L-Acoustics LA4X 8 pcs
- x L-Acoustics LA2Xi 9 pcs

## Stage monitors:

Speakers:

- L-Acoustics X15HiQ 5 pcs
- L-Acoustics X12 10 pcs
- L-Acoustics X8 8 pcs

Amplification:

- L-Acoustics LA4X 8 pcs

## Wireless microphone system

- 24 wireless microphone channels
- Wisycom MRK980 (2ch receiver) 12 pcs
- Wisycom MTH400 (Handheld transmitter) 16 pcs
- Wisycom MTP40S (Bodypack transmitter) 16 pcs
- Electro-Voice RE-97Tx headworn microphone 16 pcs

## Mixing Consoles:

- Digico Quantum 338 opto + DMI Dante 2 pcs

## Signal distribution:

- Optocore X6R-FX (96 analog inputs, 16 analogue outputs)
- 2 x Auvitran AVBx7, 2 x Auvitran AVBx3 (MADI+DANTE+AES3 conversion)
- 2 x 48ch analogue splitter (Klotz)

## Tracking system:

- TTA Stagetracker system (real time tracking of 16 objects)
- TTA Stagetracker TAG (transmitter) 32 pcs
- Integration with L-Acoustics L-ISA and ChamSys MagicQ

## Stagemanager system:

- RTS Odin (Intercom main unit) 1 pcs
- RTS KP5032 1 pcs
- DKP3016 13 pcs
- KP3016 wired intercom stations 2 pcs
- RTS TR-1800 wireless intercom belt packs 8 pcs
- 8 announcement zones (dressing-rooms, entrance hall, Foyer, Roof patio, Studio)
- Stage action preview system

**Digital Signage:**

- Sony 65" monitor + BrightSign Digital Signage player 10 pcs

**Mobile PA System:**

## Speakers:

- L-Acoustics Syva 2 pcs
- L-Acoustics Syva Low 2 pcs
- L-Acoustics Syva Sub 2 pcs
- L-Acoustics X8 4 pcs

## Amplification:

- L-Acoustics LA4X 3 pcs

## Full list of available microphones:

Electro Voice	ND44	4 pcs
Electro Voice	ND46	4 pcs
Electro Voice	ND66	4 pcs
Electro Voice	ND76	2 pcs
Electro Voice	ND86	2 pcs
Electro Voice	ND68	2 pcs
Electro Voice	ND96	2 pcs
Electro Voice	RE320	2 pcs
Electro Voice	RE20	2 pcs
DPA	KIT-4099-DC-10C	2 set
DPA	ST4011C	2 set
DPA	ST4006C	2 set
Neuman	KM184	2 pcs
Neuman	U87	2 pcs
Audix	d4	3 pcs
Schoeps	ORTF indoor set	1 set
Schoeps	Stereo set MK 4	1 set
Schoeps	Stereo set MK 2	1 set

# LIGHTING & ELECTRICAL

## Lighting control protocols:

Art-NET/DMX512

## Power circuits:

- 3kW 0-230V Schuko - switchable (dim./on-off/const.) 278 pcs
- 16A 230V Schuko (const.) 22 pcs
- 32A 400V 3ph CEE 5P 4 pcs

## Control:

- XLR 5pin connectors (DMX) 34 pcs
- Ethernet connectors (Art-NET) 30 pcs

## Lighting consoles:

- ChamSys MQ500M with MQ500M Stadium WING + ChamSys B4 (backup) + iPad (remote control)
- Audience lighting control panel - PPO

## Additional control equipment:

- ETC Two-Port Gateway – Art-NET/DMX gateway 12 pcs
- CT Show BABY 6 – wireless DMX 2 pcs

## Lighting equipment:

Conventional fixtures:

- ETC MCM (750W) – PAR 60 pcs
- LDR NOTA PC 1200 PLUS (1000W) – PC 24 pcs

LED spotlights:

- Spotlight PC LED 450 Warm White – PC 18 pcs
- ETC Source Four LED S2 (25°-50°) – PROFILE 18 pcs
- ETC Source Four LED S2 (15°-30°) – PROFILE 18 pcs
- Spotlight PROFILE LED RGBW 450 (8°-19°) – PROFILE 6 pcs

Moving heads:

- Vari\*Lite VL1100S LED – PROFILE 24 pcs
- Vari\*Lite VLZ Profile – PROFILE 12 pcs
- Vari\*Lite VLZ Wash – WASH 18 pcs
- DTS Core – SPOT 8 pcs
- ACME Energy Hybrid – BEAM 6 pcs

Floodlights/effect spotlights:

- CLF ARES – architectural floodlight 12 pcs
- DTS KATANA – motorized LED bar 10 pcs
- PORTMAN P1 – RETRO lamp 6 pcs

Followspots:

- Spotlight Vedette LED 450 RGBW (local control + stand) 2 pcs

## Foggers/Hazers:

- Martin JEM Glaciator X-STREAM – low-fog machine 1 pcs
- HazeBase HAZER PRO – hazer 1 pcs

# DIGITAL CINEMA PROJECTION SYSTEM

## Screen

Roller screen system **MEGASCREEN** by **GERRIETS**

- control system standard operation: UP-DOWN positions and speed adjustment plus 3 intermediate stops preprogrammed
- visible screen width x height = **11,8 m x 8,5 m**
- (screen surface in total = 12,00 m x 8,50 m - included 10 cm black border on the sides)

Screen surface: **GERRIETS SCENE PERFORATED**

- manufacturer material number: 21131000
- front projection screen, perforated
- material: PVC,
- colour: white / rear side: black,
- width: 200 cm, weight: 560 g/m<sup>2</sup>,
- thickness: 0,40 mm.
- flameretardant standard: EN 13501-1 B-s3,d0.
- gain front projection: 0,88.
- finish: vertical seams
- top: reinforcement with eyelets at every 20 cm
- color of reinforcement: RAL 9016 - traffic white

## Projector & server

Digital Cinema projector **Barco SP4K-35** and server **ICMP-X** (Barco)

Both configured strictly for Digital Cinema content playback, so Digital Cinema Packages needed for proper playback.

Playback system features:

- DCI 4K 2D up to 60fps
- DCI 4K 3D (24 or 30 fps per eye)
- DCI High Frame Rates 2K 3D up to 120fps (60fps per eye)
- JPEG 2000 bit-rates up to 625Mbps

Signal inputs for alternative content playback:

- 2x HDMI 2.0a (up to 4K 2D 60fps)
- 2x 3G-SDI inputs

Projector capabilities:

Native brightness	35,000 lumens (typical)
Native contrast ratio	2000:1 (typical)
Native resolution	4K: 4096 x 2160
Light source	laser RGB
Color gamut	DCI P3 compliant (98.5% of Rec.2020)

Barco Web Commander for control and management.

# STAGE MECHANICS

## Fly system

Lighting truss:

- DUO-290 bars (length: 9,3m ÷ 15,35m) 6 pcs
- TRI-290 arched truss 1 pcs

## Rigging system

Electric chain hoists - BGV D8+, lifting capacity - 500kg 3 rows x 6 pcs

## Arch-shape stage platforms:

- Z1 - area: 11,80m<sup>2</sup>, max. lifting height: 0,4m 1 pcs
- Z2 - area: 13,65m<sup>2</sup>, max. lifting height: 0,8m 1 pcs
- Z3 - area: 15,60m<sup>2</sup>, max. lifting height: 1,2m 1 pcs