# TECHNICAL EQUIPMENT

Rooms to grow ideas.



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# SOUND

#### 1 | Microphones



vocal

instrumental

MODEL	Description
NEUMANN KMS 105	<ul><li>High acoustic resolution</li><li>Ideal crosstalk behaviour, free from colouration</li></ul>
SHURE BETA87 A/C	<ul> <li>Universal microphone for speaking and in particular for singing</li> </ul>
SENNHEISER ME 34NX, ME36NX	<ul><li>Microphones for session moderators and lecterns</li><li>Highest sound quality</li></ul>
SCHOEPS CMC6, MK 4	<ul> <li>Natural, faithful sound quality, especially for classical and jazz music</li> </ul>
DPA 4099	<ul> <li>Clear sound in all frequency ranges</li> <li>Suspension protects microphone from structure-borne noise</li> <li>Stable mounting for musical instruments thanks to special attachment</li> </ul>
AUDIX D2, D4, D6	<ul> <li>Faithful, natural sound reproduction especially for music</li> </ul>
DPA D:FINE	<ul> <li>Headset for maximum flexibility</li> <li>One or two earplugs</li> <li>Unobtrusive and comfortable to wear</li> </ul>

#### 2 | Wireless microphones



MODEL	Description
SENNHEISER D 9000	<ul><li>Digital transmission without loss of quality</li><li>Artefact-free sound and fantastic dynamics</li></ul>
SHURE ULX-D	<ul> <li>24 bit/48kHz digital radio</li> <li>High dynamic range</li> <li>High linearity</li> <li>AES-256 bit encryption possible</li> <li>Transmitter with rechargeable lithium-ion batteries</li> </ul>
SHURE ULXD2/B87	Digital handheld transmitter with Beta 87 capsule
SHURE ULXD1	Wireless bodypack transmitter
SHURE PSM900	In Ear Monitoring

#### 3 | Loudspeakers



MODEL	Description
MEYER SOUND LINA	<ul><li>Self-powered line array</li><li>Crystal clear sound from very compact loudspeaker</li></ul>
MEYER SOUND 750 LFC	<ul> <li>Self-powered deep bass performance extender for LINA line array</li> </ul>
MEYER SOUND UPM1	<ul> <li>Compact loudspeaker for amplified sound in small spaces, at exhibition stands, etc.</li> </ul>
MEYERSOUND ULTRA-X 20	<ul> <li>Compact loudspeaker for amplified sound in small spaces, at exhibition stands, etc.</li> </ul>
MEYERSOUND ULTRA-X 40	<ul> <li>Compact loudspeaker for amplified sound in small spaces, at exhibition stands, etc.</li> </ul>

# SOUND

#### 1 | DI-Box and press patch box

MODEL	Description
BSS AR-133, PALMER PAN 04 ARX USB	• e.g. for instruments and laptops
PALMER PB 10 XLR SPLITBOX	<ul> <li>Splits signals without interference to camera teams, reporters and TV-stations</li> </ul>
DRAWMER KICKBOX	<ul> <li>for disruptionfree transmitting of signals to</li> <li>XLR splitboxes, camerateams, journalists and tv-stations</li> </ul>

#### 2 | Digital sound mixing consoles



MODEL	Description
ALLEN & HEATH GLD80	<ul> <li>Audio-digital mixer</li> <li>48 input channels</li> <li>30 mix processing channels</li> <li>Automatic mix mixer integrated</li> <li>8,4 inch touchscreen</li> </ul>
ALLEN & HEATH QU 16	<ul> <li>Mobile digital audio mixer for meeting rooms</li> <li>16 mono inputs and 3 stereo inputs</li> <li>12 mix outputs</li> <li>Integrated automatic mic mixer</li> <li>5 inch touchscreen</li> </ul>
ALLEN & HEATH D LIVE	<ul><li>digital mixer for live events</li><li>128 input channels</li><li>64 busses</li></ul>
ALLEN & HEATH AVANTIS	<ul><li>digital mixer for live events</li><li>64 input channels</li><li>42 busses</li></ul>

#### 3 | Individual PA systems

MODEL	Description
MOBILE PA	<ul> <li>Small PA system with 16/8 mixing console</li> <li>For flexible, mobile applications</li> <li>Can also be used for small-scale musical performances</li> </ul>



### AMBIENCE, LIGHT, SPACE

Getting the lighting right can have a significant influence on concentration levels and help participants engage with your event. In Hall A one of the most advanced lighting systems in Europe was installed.

The hall's unusual architecture is an attraction in itself. Its domed ceiling reaches more than 15 metres at its highest point and raked seating provides ideal views from every seat. Its proportions and the materials used ensure excellent acoustics.

#### LIGHTING AND SPACE MODELLING SOLUTIONS

**The lighting** provides warm ambient tones in audience areas at conferences, meetings and gala events.

Used as **architectural lighting**, bright wall washers accentuate the walls and emphasise the dimensions of the hall. Lighting the dome extends the central part of the hall by drawing the eye upwards. Additional flexible controls can be used to create individual lighting groups and variable focuses within the space.

The **accent lighting** delivered by the RGB strips in the ceiling channels opens up individual design options for customers

Programmable **moving lights** (Gobo projectors) can be rotated 360° and are used to project graphic motives or logos onto the walls or the underside of the dome.

Powerful background lighting is available for events such as exhibitions which require higher overall light intensity.





#### LIGHTING SCENARIOS

A number of preset lighting scenarios can be selected directly, including:

#### FAIRS AND EXHIBITIONS

- Bright, uniform lighting
- accent lighting can be added on request

#### CONFERENCE

#### Admissions:

- A well-lit, friendly space to create an inviting first impression
- Mood lighting and architectural lighting: wall and dome illumination
- Colour accents in the ceiling channels possible

#### Focus: the stage

- Highlighting the stage area
- Dimmable mood lighting for audience areas, allowing speakers to remain in contact with listeners and promote interactive exchange
- Dimmable architectural lighting

#### Focus: audience area

- Uniform illumination of the entire space (stage area and audience areas)
- Ideal for podium discussions, readings and music events

#### GALAEVENTS

- Formal mood lighting directed at the various tables
- Gentle architectural lighting by wall and dome illumination
- Full range of design options thanks to effect lighting

#### HYBRID EVENT

- Scenic lightning for Hybrid event space
- highlighting of presenters

#### BALL

- Atmospheric setting thanks to muted lighting
- Lively distribution of mood lighting
- Gentle architectural lighting via wall illumination
- Full range of design options thanks to effect lighting



## PACKAGES

#### 1 | Stage lighting package



#### DESCRIPTION

White light for broad     the stage	l, clear and crisp illumination of
	Includes

AVAILABLE IN	Includes
HALL A	• 6 x 2000W spotlights
HALL B/C	• 4 x 2000Wspotlights
HALL D, E (E1/E2), F (F1/F2), G (G1, G2), K (K1, K2)	• 6 x 1000W spotlights

#### 2 | Camera lighting package



#### DESCRIPTION

- White light for broad, clear and crisp illumination of the stage
- Camera-optimised light for picture-in-picture projection, television broadcasting, etc.

AVAILABLE IN	Includes
HALL A	• 8 x 2000W spotlights
HALL B/C	• 6 x 2000W spotlights
HALL D, E (E1/E2), F (F1/F2), G (G1, G2), K (K1, K2)	• 8 x 1000W spotlights

#### 3 | Hall A lighting package



#### DESCRIPTION

Mood lighting for congresses, meetings and galasTailored design can include corporate identity colours,

logo displays and graphics	
AVAILABLE IN	Includes
HALL A	<ul> <li>Directional beams</li> <li>Wall washers</li> <li>Accent lighting</li> <li>Moving lights</li> <li>Background lighting</li> </ul>

# LIGHT

1   White light	
MODEL	Description
500W FRESNEL SPOTLIGHTS	White light for small stages
1000W PC AND FRESNEL SPOTLIGHTS	Broad, clear, sharp illumination
2000W PC AND FRESNEL SPOTLIGHTS	Broad, clear, sharp illumination
ARRI STUDIO 5000 (5000W)	Warm illumination across the whole stage
ADB WARP ZOOM PROFILE SPOTLIGHT (800W)	<ul> <li>Integrated blades with endless 360° rotation capability</li> <li>High light output</li> </ul>
SOURCE FOUR ZOOM PROFILE SPOTLIGHT (750W)	<ul><li>Very even light distribution</li><li>Outstanding projection qualities</li><li>Precise lighting</li></ul>
SCENA LED 150 FR SPOTLIGHT	<ul><li>Modern, flexible 150W LED light</li><li>Ideal for small stages and meeting rooms</li></ul>
DTS SCENA LED 80	<ul><li>Modern, flexible 80W LED projector</li><li>Ideal for small stages and meeting rooms</li></ul>

#### 2 | Show lighting

MODEL

CLAY PAKY ALPHA SPOT QWO 800 ST MOVING LIGHTS	<ul> <li>Clear, intense light</li> <li>Very wide zoom range</li> <li>Unique autofocus system</li> <li>Consistently sharp</li> <li>Projection of graphics and logos in corporate identity colours due to our GOBOs</li> </ul>
MARTIN MAC QUANTUM PROFILE	<ul> <li>Even light distribution</li> <li>High contrast and crisp projection</li> <li>Very fast movements and effects</li> <li>Projection of graphics and logos in corporate identity colours due to our GOBOs</li> </ul>
HIGH END SOLASPOT PRO 1500	<ul> <li>Unbeatable output</li> <li>Innovative, groundbreaking features, framing shutters, CMY colour mixing and animation effects</li> <li>Projection of graphics and logos in corporate identity colours due to our GOBOs</li> </ul>
CLAY PAKY B-EYE K20 MOVING LIGHTS	<ul> <li>Versatile range of effects and functions</li> <li>Extremely quiet, ideal for sound-sensitive applications</li> <li>Excellent projection of vivid, deep colours</li> </ul>
CLAY PAKY K-EYE HCR	<ul> <li>6-colour LED module</li> <li>Full linear zoom range</li> <li>High CRI value</li> <li>Total control over the quality of all forms of white or coloured light</li> </ul>
CLAY PAKY A.LEDA K10 MOVING LIGHTS	<ul> <li>Versatile range of effects and functions</li> <li>Extremely quiet, ideal for sound-sensitive applications</li> <li>Excellent projection of vivid, deep colours</li> </ul>
ELATION OPTI QA PAR LED SPOTLIGHTS	<ul><li>Light, compact, energy-saving</li><li>Powerful colours</li></ul>
DTS TITAN +	<ul><li>Uniform light beam without colour shadows</li><li>Stand-alone function</li></ul>
DTS FOS 100S FULL COLOUR LED BARS	<ul> <li>Wide, even light distribution</li> <li>LEDs can be controlled individually</li> <li>Uniform light beam without colour shadows</li> </ul>
SGM P-5 LED WASH LIGHT	<ul><li>Very bright light</li><li>Deep colours</li><li>Suitable for outdoor use</li></ul>
SHOWTEC EVENTSPOT 1900 MKII LED SPOTLIGHTS	<ul> <li>Rechargeable LED spot</li> <li>Ideally suited for quick lighting and architectural lighting</li> <li>Over 12 hours continuous RGB operation</li> </ul>
SMARTBAT +	<ul> <li>Rechargeable LED spot 4x8W, battery life of up to 12 hours, stand-alone function</li> </ul>

Description

• Recharchable tubular LED spot for lightning accents, bat-LED Lampe Astera TitanTube tery life of up to 12 hours

LED Lampe Astera LightDrop



MODEL	Description
ELATION LUMINA MATRIX	<ul> <li>Warm white smooth wash and blinder effects, individual pixel control, halogen look reflectors</li> <li>No heat generation</li> </ul>
SGM X-5 STROBE	<ul> <li>Revolutionary new LED strobe</li> <li>Slim aluminium body</li> <li>Road-ready and ultra robust</li> </ul>
400W UV LIGHT	<ul><li>High light output</li><li>Wide area illumination</li><li>Powerful UV lights</li></ul>
1200W FOLLOW SPOT	Direct moveable light on artists and speakers
2500W FOLLOW SPOT	Direct moveable light on artists and speakers
MDG ATMOSPHERE ATME HAZE GENERATOR	<ul> <li>Generates fine, invisible haze, making UV light shafts, laser lights and vivid colours come to life</li> <li>Very high performance</li> </ul>
SWEFOG XEON II INTELLAHAZER DMX	<ul> <li>Precise haze output to make UV light and laser beams visible</li> <li>Water-based haze</li> </ul>

#### 3 | Lighting consoles

MODEL	Description
GRANDMA3 FULL-SIZE	<ul> <li>Latest generation of light consoles</li> <li>Very powerful console</li> </ul>
GRANDMA2 FULL-SIZE	<ul><li>Very powerful console</li><li>Intuitive, fast controls</li><li>Flexible, convenient programming</li></ul>
GRANDMA2 LIGHT	<ul> <li>Very powerful console</li> <li>Intuitive, fast controls</li> <li>Suitable as a stand-alone console</li> <li>Ideal tool for controlling white light, moving lights, LEDs and media servers</li> </ul>
GRANDMA2 ON PC TOUR PACK INKL. FADER WING	<ul><li>Convenient programming</li><li>Ideal for flexible, mobile use</li><li>Flexible screen layouts</li></ul>
DOT2 XL-F	<ul><li>Compact lighting console for small to mid-size events</li><li>Flexible</li></ul>
DOT2 CORE	Compact lighting console for small to mid-size events



# PROJECTIONS

#### 1 | Projector

MODEL	Description
PANASONIC PT-RZ570	<ul> <li>1 Chip DLP, full HD laser projector, 5,400 ANSI lumens</li> <li>Natural, true to life image reproduction</li> <li>Ideal for presentations containing highly detailed images</li> </ul>
PANASONIC PT-VZ575	<ul> <li>LCD projector</li> <li>1920 x 1200 resolution</li> <li>4,500 ANSI lumen</li> <li>Outstanding performance and image quality</li> </ul>
PANASONIC PT-RZ12KEJ	<ul> <li>3 Chip DLP, full HD projector, 12,000 ANSI lumens</li> <li>Up to 5 metre wide image</li> <li>Class-leading brightness and vividness for events</li> <li>For improved colour perception in bright rooms</li> </ul>
PANASONIC PT-RZ21KEJ	<ul><li> 3 Chip DLP, full HD projector, 20,000 ANSI lumens</li><li> Up to 8 metre wide image</li></ul>
PANASONIC PT-RZ31KEJ	<ul> <li>3 Chip DLP, full HD projector, 30,000 ANSI lumens</li> <li>Used in halls and for widescreens (30 x 5.5m, curved) in Hall A</li> </ul>
PANASONIC PT-RQ50k	<ul><li>3 Chip DLP, 50,000 ANSI lumens, 4k</li><li>4096x2160 resolution</li></ul>

#### 2 | Projection screen

MODEL	Description
WIDESCREEN	<ul> <li>For use in Hall A</li> <li>Format: 30 x 5.5m, curved</li> <li>Display produced by 3 projectors with 30,000 ANSI lumens</li> <li>Control: Barco E2 master processor</li> </ul>
PROJECTION SCREEN FOR MEETING ROOMS	<ul> <li>Format 16:9</li> <li>Various sizes (240 x 135 cm, 286 x 170 cm, 345 x 203 cm)</li> </ul>
PROJECTION SCREEN HALL A	• Format 16:9, 910 x 520 cm
PROJECTION SCREEN HALL B/C	• Format 16:9, 752 x 431 cm
PROJECTION SCREEN HALL D (FRONT)	• Format 16:9, 508 x 294 cm
PROJECTION SCREEN HALL D (DELAY 3X)	• Format 16:9, 345 x 203 cm
HALL E1, E2, F1, F2	• Format 16:9, 569 x 329 cm
HALL G1, G2, K1, K2	• Format 16:9, 425 x 249 cm

#### 3 | Camera Set up

MODEL	Description
4K CAMERA SET-UPS AK-UC3000GSJ	<ul> <li>Fully equipped system for camera recordings (camera, tripod, cable)</li> <li>Incl. complete director's suite for producing broadcasts</li> <li>Projection with Panasonic PT-RQ50k laser projector</li> <li>Canon 4K DIGISUPER 90x lens</li> </ul>

#### 4 | Screens

MODEL	Description
LG 55SM5KD	• 55 inch Full-HD LED signage display, 24/7 usage
LG 86UH5C	• 86 inch UHD LED signage display, 24/7 usage

#### 5 | Miscellaneous

MODEL	Description
KRAMER VP-440	<ul> <li>HDMI/VGA Switcher/Scaler, 4x HDMI and 2x VGA input, audio inputs, HDBaseT and HDMI output</li> </ul>
BLACK MAGIC DESIGN	HDMI/SDI modifier, SDI/HDMI modifier





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