

**REPORT FOR**  
**YOUR NEW CHURCH, THEATRE OR**  
**UNIVERSITY LECTURE ROOM**

**PROPOSAL TO SUPPLY**  
**SOUND REINFORCEMENT SYSTEM**



# WORLD CLASS SOUND SYSTEM DESIGN

Based in Cambridge, England, PAXT Engineering specialises in the design, supply and commissioning of high performance audio systems for sports stadia, houses of worship, hotels, retail developments and other capital projects. With particular experience of operating in Africa, India, Eastern Europe and the Middle East, we provide a full package of services from system design, fully supported by acoustic performance modelling, through to equipment supply, installation, operator training and commissioning.

PAXT Engineering is a division of PAXT Professional Audio Exports, established in 1980.



# PAXT — PROFESSIONAL AUDIO ENGINEERING



Paxt Professional Audio Engineering exists to provide clients, architects, engineers and musicians with the tools to hear how different spaces perform acoustically, and how architectural form impacts upon sound quality. Paxt has engaged the services of respected experts in the field of Acoustics, with extensive experience in the design, evaluation and commissioning of distributed audio systems in acoustic spaces. These have included projects in large Houses of Worship, Universities, Nightclubs, Theatres, TV Stations, Restaurants and Sports Stadia.

## PROJECTS WE HAVE WORKED ON

City Concert Hall - Pace, Hungary

Mohammed Bin Abdul Wahab Mosque - Riyadh, Saudi Arabia

Jarcanda Hotel - Nairobi, Kenya

Tribe Hotel - Nairobi, Kenya

House on the Rock Church - Abuja, Nigeria

Ultima - Production Company - Lagos, Nigeria

Terminal 5 Club - Abuja, Nigeria

The Abuja Cultural Centre - Abuja, Nigeria

Otbaa Ski Stadium - Otbaa, Estonia

Culture House - Mustvees, Estonia

Our extensive product knowledge and specialist logistics expertise equip us to provide a comprehensive acoustic solution with precise project plans, drawings and Bills of Materials – on budget, and on time. Paxt Engineering examines the design of the area and, based on the client's budget and the understanding of the project's acoustic needs, we provide a turnkey solution from AC power distribution right through to clear audio matrix guides for ease of use by engineers and maintenance personnel.

Only by offering the highest quality of service at a reasonable cost can we be assured of success. With a proven track record in delivering innovative, cost effective and practical solutions for overcoming unique challenges in this field, Paxt Professional Audio Engineering ensures that clients achieve success in their acoustic projects.



# OVERVIEW OF SERVICE

## PAXT PROFESSIONAL AUDIO ENGINEERING

PAXT is a long established sales and marketing solution for the world's leading professional audio brands. Specialising in developing markets, we are a dedicated export office for manufacturers wishing to penetrate diverse emerging economies around the world.

PAXT is unique in the audio industry and is recognised for its ability to provide a complete solution based on an in depth market knowledge of emerging economies throughout the world. It is also widely acknowledged for its comprehensive shipping department which provides customers, wherever they are in the world, with confidence and knowledge that their shipments will arrive securely and with minimal delays or difficulties.

From its new office and warehouse complex situated in Cambridge UK, PAXT's sales and marketing specialists provide the Harman group of companies with a total marketing communications solution focused upon emerging economies.

PAXT Pro Audio Engineering is a division that specialises in developing audio system designs to meet performance requirements in the context of good architectural integration. Our Pro Audio Engineering capability can design and evaluate loudspeaker system solutions, using calculation models to assess expected audio performance levels and sound quality, matching performance value to system costs. See table below. Once the project has been confirmed then the system design can be detailed to account for cables, connectors and power distribution etc. Within the contract period, PAXT Pro Audio Engineering can also provide support to the installer to ensure adherence to the design requirements and intent. Final System Commissioning ('system tuning' and optimisation) and training can also be provided to ensure that the maximum performance is obtained from the system.

### PAXT PRO AUDIO ENGINEERING STRUCTURE - THREE STAGES

#### **ELECTRO ACOUSTIC DESIGN**

Detailed audio system design proposals and evaluations using computer calculation models, accounting for room geometry, loudspeaker models and locations and room acoustic conditions, where known.

#### **AUDIO SYSTEM DETAIL DESIGN**

Once an electro acoustic design has been established, the audio system design is worked up in detail, to account for connectors, power, equipment housing etc. This is a suitable level of design detail to allow the audio system to work upon its arrival 'out of the box'.

#### **AUDIO DESIGN FINAL COMMISSIONING**

After the system has been installed and tested for mechanical fixes and connections, we can provide Commissioning services to ensure correct operation and optimized system performance. We also would also provide demonstration and/or training on the system to the users and/or purchaser.