

SPECIFICATION

Venue Cymru Hall Lighting Upgrade

Project Reference: EC/VCHL/2025/06

INTRODUCTION – Venue Cymru (www.venuecymru.co.uk):

Venue Cymru is a large purpose built venue located on the promenade in Llandudno, Conwy, north Wales. It consists of a theatre, conference and events centre, arena, hall, restaurant, atrium, café and bars and is a leading entertainment and events venue in north Wales as well as the rest of the United Kingdom ('UK').

The theatre at Venue Cymru is a traditional proscenium arch theatre and has a 1,500 seat auditorium with one of the largest stages in the UK capable of receiving virtually any touring production. Audiences are drawn from a wide geographical area.

The theatre has gone from strength to strength since it was built in 1994 and attracts many high profile performers and productions. The programme is diverse and reflects the differing tastes and requirements of the community. The diverse range of shows staged in the theatre include: -

- Drama productions.
- Musicals.
- Opera.
- Music concerts.
- Ballet.
- Welsh Language Performances.
- Dance shows.
- Ice shows.
- Children and family shows.
- Variety shows.
- Comedy performances.
- Pantomime.
- Community performances and events.

Venue Cymru hosts many high profile events throughout the year and is the home for many smaller conferences and meetings for both local companies and those from further afield. Its key spaces are used for a varied mix of events encompassing both the arts and events market.

The Conference Centre is a modern conference facility for small, medium and large events. It hosts a full range of rooms and services available for events, meetings and conferences of all sizes, in person, virtual and hybrid, all available for hire.

The Conference Centre regularly hosts a range of political parties for their annual conferences, various religious groups and many private and public sector conferences. It is used for a full range of events including annual conferences, antiques fairs, trade and public exhibitions, training events and meetings for small groups up to several hundred. Venue Cymru generates valuable funds towards business tourism spend in the county.

The 1,550 square metre Arena is used for a variety of purposes including exhibition space, sporting events and a concert venue. The arena has capacity for up to 2,500 standing, 1,250 seated or banqueting for 1,000. The Hall offers a further major space for up to 1,500 standing or 700 seated. There is also a function room with capacity for 250, a lecture room and 18 meeting room spaces for between 10 to 150 delegates with a range of foyer and breakout spaces available.

The foyer area also contains Catlin's café bar on the ground floor and Y Review restaurant on the first floor which offers a stunning panoramic view of the coast of Llandudno bay and currently provides 65 covers.

The range of spaces and technical support services available also makes Venue Cymru popular for television broadcasts.

Venue Cymru is proudly owned and operated by Conwy County Borough Council ('the Authority') and is part of the Economy and Culture Service.

The theatre and the conference facilities play a vital role in the local economy and regeneration of north Wales, bringing leisure and business tourists to the area as well as providing an important service for the local residents.

BACKGROUND TO THE PROJECT

This project focuses on renewing and upgrading Venue Cymru's 'loose' conference and event lighting equipment, much of which has not been replaced for 20 years or more. Purchasing new equipment will allow us to operate more efficiently and effectively, improving our offer, reducing our negative environmental impact and decreasing both staff time and ongoing financial resources required.

The current lighting rig, although operational, uses all dimmed tungsten light sources of very high wattage, and so to become more efficient, the new lighting rig will need to be LED sourced with a much lower overall power consumption. The existing rig requires regular maintenance to keep it functional, resulting in considerable money spent on replacement lamps, colour gels and parts for maintenance.

The Venue Cymru Technical Team have conducted thorough research to investigate suitable lighting rig solutions for the Venue Cymru Hall set-up, including demonstrations from industry manufactures of various types of lighting equipment.

THE REQUIREMENTS

For the Venue Cymru Hall lighting upgrade, the Authority is seeking a suitable Supplier (the 'Supplier(s)') for the supply and delivery of new lighting fixtures, lighting control console and associated accessories ('products' / 'goods') to: -

- Venue Cymru, The Promenade, Llandudno, Conwy, LL30 1BB

To remind, the new lighting fixtures will need to be LED sourced to provide much lower overall power consumption than what is currently in place to assist Venue Cymru with efficiencies going forwards.

EQUIPMENT SPECIFICATION

The equipment specification is divided in to six (6) fixture types (Fixture Type A, B, C, D and E for lighting fixture equipment and Fixture Type F for the lighting console and control – all detailed below) with the quantity required of each type listed in the title of each Fixture Type.

Fixture Type A: -

LED conversion unit for ETC Source 4. Source 4Wrd 2 Full Colour, complete with True1 plug and RJ45 to DMX In / Out adaptor plate. This is a retrofit unit and converts tungsten ETC Source Four fixtures to an LED Source. Supply 26 of these units.

Fixture Type B: -

LED theatrical Fresnel with specification as below, for example, 'Elation ELA0146 KL Fresnel 8 FC' or equivalent. Supply 16 of these units.

General Requirements:

- High-output full-spectrum LED Fresnel fixture with RGBMA LED engine and a maximum field output of 18,000 lumens.
- Tunable white light and rich colour rendering.

Control and Connectivity:

- Operates via DMX and supports RDM.
- Manual control available & Should have LED display.

Optics and Effects:

- Motorized zoom range of 10° to 50°, with beam angles from 10.4° to 50.8° and field angles up to 66.1°.
- Variable CCT from 2,400 K to 8,500 K, CRI of 94.5, TLCI of 94, and green / magenta shift control.

Physical and Electrical Specifications:

- IP20-rated construction with included 8-leaf barn doors, gel frame, and junior pin adapter.
- Power consumption up to 514 W.

Warranty:

- Minimum 2 years fixture warranty.

Fixture Type C: -

LED moving wash with specification as below, for example, 'Chauvet Rogue R3X Wash' or equivalent. Supply 20 of these units.

General Requirements:

- Fully featured RGBW LED wash fixture with 37 LEDs (25 W each), offering up to 17,000 lumens of source output.
- Equipped with 9 zones of LED control for pixel mapping effects and smooth colour mixing through a unique lens design.

Control and Connectivity:

- Supports DMX and RDM protocols with 4 DMX channel modes (21, 62, 71, 107) for flexible programming.
- Includes 3- and 5-pin XLR data connections and Neutrik powerCON for power linking.

Optics and Effects:

- Motorized zoom with a range of 11.6° to 49.5°, and strobe effects up to 20 Hz.
- Adjustable colour temperature from 2,800 to 10,000 K with built-in dimming modes and automated programs.

Physical and Electrical Specifications:

- Compact, durable design weighing approximately 17.5 kg, with an IP20 rating for indoor use.
- Power consumption of 661 W, compatible with 100–240 VAC, and supports power linking up to 4 units at 230 V.

Warranty:

- Minimum 2 years fixture warranty.

Fixture Type D: -

LED moving spot with specification as below, for example, 'Chauvet Maverick Force S Spot' or equivalent. Supply 7 of these units.

General Requirements:

- Compact and lightweight moving LED spot fixture with a 350 W LED engine, outputting up to 14,407 lumens actual.
- Variable CMY colour mixing and a dedicated colour wheel.

Control and Connectivity:

- Compatible with DMX, RDM, Art-Net, sACN, and W-DMX control protocols.
- Two DMX personalities (22 and 29 channels) and feature RDM.

Optics and Effects:

- Motorized zoom from 3.8° to 43.4°, with electronic focus, frost, and iris control.
- Include 2 gobo wheels (1 rotating, 1 static), 5-facet rotating prism, and strobe (0–20 Hz), with high CRI filter support.

Physical and Electrical Specifications:

- IP20-rated enclosure.
- Power consumption up to 554 W, auto-ranging 100–240 VAC.

Warranty:

- Minimum 2 years fixture warranty.

Fixture Type E: -

LED Moving Profile Spot with the specification below, for example, 'Chauvet Maverick Force S Profile' or equivalent. Supply 4 of these units.

General Requirements:

- High-output 350 W LED yoke profile fixture with source output up to 20,000 lumens and actual output around 14,669 lumens.
- Include CMY colour mixing, a colour wheel, and full framing shutter functionality with 120° rotation for advanced beam shaping.

Control and Connectivity:

- Support DMX, RDM, Art-Net, sACN, and W-DMX control protocols.
- Two operational modes (31 or 47 channels).
- Include RDM for remote configuration and Seetronic Powerkon IP65.

3. Optics and Effects:

- Motorized zoom from 4.5° to 41.6°, plus focus, frost, iris, and rotating 5-facet prism.
- Equipped with two gobo wheels (one rotating, one static), split-colour functionality, and 16-bit dimming.

4. Physical and Electrical Specifications:

- IP20-rated housing.
- Power consumption up to 563 W.

Warranty:

- Minimum 2 years fixture warranty.

Fixture Type F: -**Lighting Console and Control**

Venue Cymru has invested heavily in the ETC EOS range of consoles and control systems. As part of this tender, we need to procure one additional console to ensure compatibility with the existing equipment. Please supply 1 x ION XE20 console unit complete with 2 x 22-24" (approximate size) compatible touchscreen monitors.

In addition, please include for 2 x response MK2 Gateways with 4 input ports and 3 x response MK2 Gateways with 4 output ports. Please also supply 8 x hanging frames (3 will be for our existing hardware).

ADDITIONAL INFORMATION

Proposed Product Information

Suppliers are requested to provide all manufacturer data information for the proposed lighting goods in order for the proposed goods to be directly compared with these Specification requirements. All manufacturer warranty periods will also need to be detailed in full.

Cost Options

In addition to the above requirements, Suppliers are also requested to supply cost options for the following goods in relation to this project: -

Cost Option Fixture Type 1: -

LED theatrical cyclorama light with specification as below, such as 'ETC Colorsource Cyc' or equivalent.

General Requirements:

- The fixture must utilize a five colour LED array (red, green, blue, indigo, lime) to provide smooth and rich cyclorama / wall washes.
- Fanless operation is required for silent performance environment.

Control and Connectivity:

- Must support DMX-512 with RDM configuration for seamless control and integration.
- Must include onboard pre-sets / sequences and local control.

Optics:

- Asymmetrical beam designed specifically for cyclorama or wall lighting, with built-in spill control accessories.

Physical and Electrical Specifications:

- Compact, lightweight design with die-cast aluminium construction and IP20 rating.
- Typical power consumption of approximately 133 W, operating within a 100–230 VAC range using powerCON connectors.

Warranty:

- Minimum 5-year warranty on the fixture and 10 years on the LED array.

Cost Option Fixture Type 2: -

LED PAR type fixture, with specification as below, for example 'Martin ELP Par' or equivalent.

General Requirements:

- High-performance static RGBW LED PAR fixture with a motorized zoom range of 4.2° to 38.7° for versatile washes and beam effects.
- Outputs up to 3,525 lumens with a full-gamut colour calibration system for consistent colour reproduction.

Control and Connectivity:

- Supports DMX and RDM protocols with 14 DMX channels and 16-bit fine control for dimming, RGB, and zoom adjustments.
- Equipped with Neutrik powerCON TRUE1 connectors for power input/output and 5-pin XLR data connections.

Optics and Effects:

- Advanced colour mixing with RGBW LEDs and variable colour temperature control from 2,800 to 10,000 K.
- Includes electronic dimming (0-100%), strobe, and pulse effects with four dimming curve options.

Physical and Electrical Specifications:

- Lightweight aluminium and composite housing (7.8 kg) with an IP20 rating for indoor use.
- Typical power consumption of 300 W, operating on 100–240 VAC with forced air cooling.

Warranty and Compliance:

- Minimum 2-year warranty on the fixture.

Other Cost Option include:

- Double Flightcase for tendered Fixture Type C – please also confirm size / dimensions / capacity of the case.
- Double Flightcase for tendered Fixture Type D – please also confirm size / dimensions / capacity of the case.
- Double Flightcase for tendered Fixture Type E – please also confirm size / dimensions / capacity of the case.
- 8 unit Flightcase for ETC Colorscape Cyc – please also confirm size / dimensions / capacity of the case.
- 4 Cell Full colour LED 'Blinder', for example, Chauvet STRIKE Array 4C or equivalent.
- LED 'Strobe', for example, Chauvet BOLT 1C or equivalent.

A full breakdown of costs should be provided within the Cost Options section of the Price Schedule in the Invitation to Tender document.

Supply and Delivery

Suppliers should be aware that this project will be for the supply and delivery of the new goods only. Installation, etc., will be undertaken in-house by Venue Cymru's Technical Team.

The date(s) for delivery will be agreed between the Authority and successful Supplier once the contract has been awarded and supply lead-in times identified.

Carbon Net Zero / Carbon Emission Data Reporting

As part of its Climate Challenge Programme, the Authority aims to be carbon net zero by 2030. To aid with achieving this target, the Authority will:

- Review its supply chain carbon emissions data to better understand Supplier carbon emissions resultant from delivering services / Contracts for the Authority.
- Work with Suppliers to reduce carbon emissions and decarbonise the Authority's supply chain.
- Improve how services are performed and delivered in a more carbon neutral environmentally friendly way.

The Authority's Suppliers will need to be proactive in working towards reducing their carbon emissions to demonstrate a commitment to combat this global issue and assist the Authority with its supply chain decarbonisation targets.

Suppliers will be required to provide information relating to carbon reduction plans and carbon emission data during the Contract period as part of the Authority's response to become carbon net zero by 2030.

For further information about the Authority's Climate Challenge Programme, please click the following link: <https://www.conwy.gov.uk/en/Council/Strategies-Plans-and-Policies/Climate-Change/Climate-Challenge-Programme.aspx>

Other Business, Policy and Legislative Information

Your Organisation will be required to provide information relating to business, other policy and legislative requirements to ensure compliance and lawfulness and for the Authority to undertake the identified risk assessments. The requirements from Suppliers are identified in the tender documentation for this Contract opportunity.