



Case Study

National Wallace Monument

Information

Client: Stirling District Tourism

Location: Stirling

Products Used: ColorReach and ColorBlast

Controller Used: Pharos

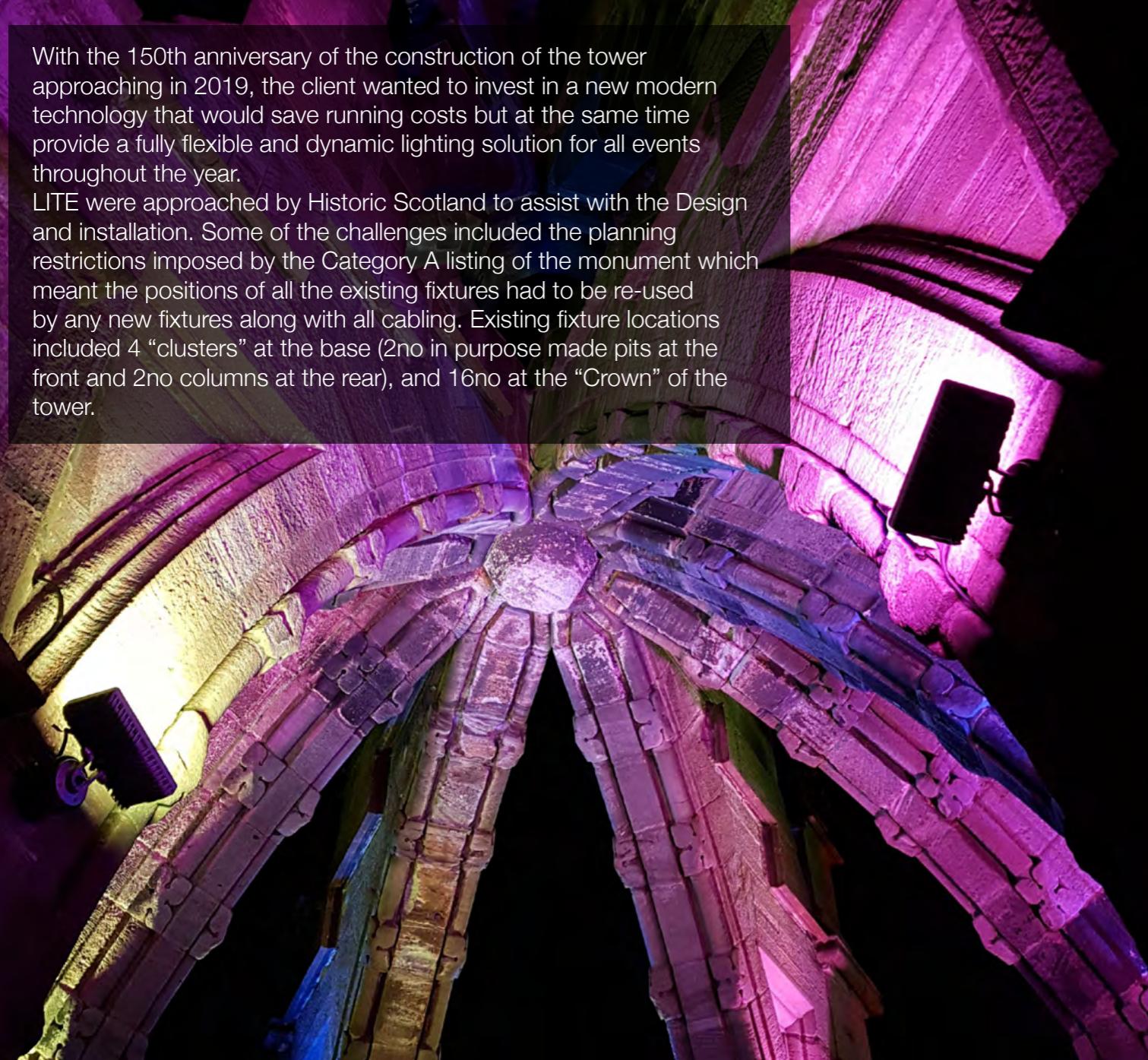
The National Wallace Monument (generally known as 'The Wallace Monument') is located on a volcanic crag which overlooks Stirling Castle and also Stirling Bridge (The site of one of the most famous battles in 1297). The monument was built between 1861 and 1869, and is one of more than 20 Wallace Monuments which are located throughout Scotland.

The tower is a Category A-Listed scheduled monument and one of Scotland's most celebrated landmarks. The stunning 67 metre tower is instantly recognisable, and attracts more than 100,000 visitors every year.

The existing lighting installation was outdated, expensive to maintain and operate Halogen/Son – with any events requiring the use of coloured gels.

With the 150th anniversary of the construction of the tower approaching in 2019, the client wanted to invest in a new modern technology that would save running costs but at the same time provide a fully flexible and dynamic lighting solution for all events throughout the year.

LITE were approached by Historic Scotland to assist with the Design and installation. Some of the challenges included the planning restrictions imposed by the Category A listing of the monument which meant the positions of all the existing fixtures had to be re-used by any new fixtures along with all cabling. Existing fixture locations included 4 "clusters" at the base (2no in purpose made pits at the front and 2no columns at the rear), and 16no at the "Crown" of the tower.



The final proposal would require a “Data over Power” solution to allow the re-use of the existing cables – a test was carried out to ensure Color Kinetics Intelli-power Technology would work, and all results were returned satisfactory.

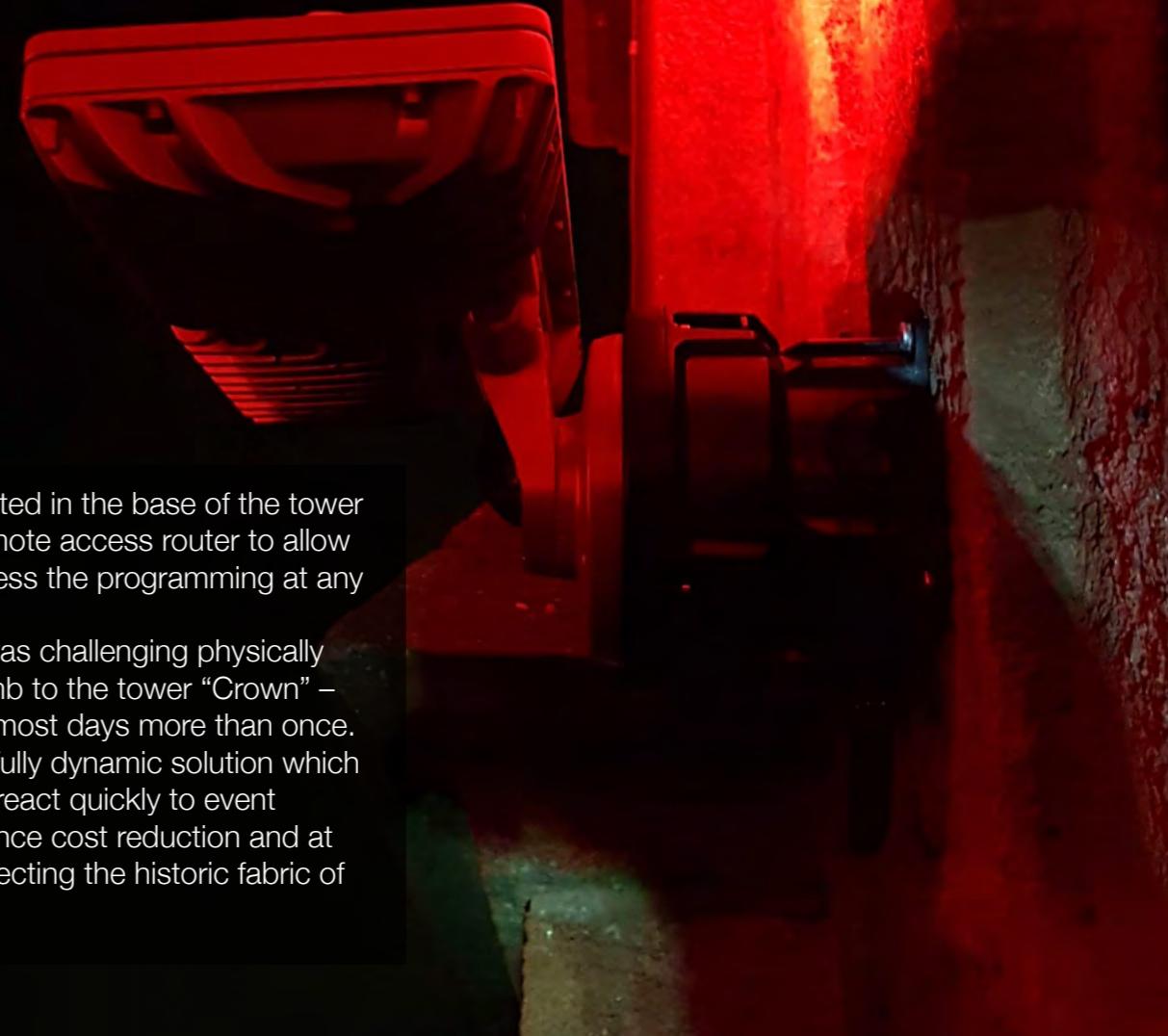
The fixtures at the base were replaced with 12no ColourReach RGBW (3no at each cluster). The columns at the rear were replaced with bespoke cages designed to accommodate 3no ColourReach RGBW, provide a level of security from potential damage both from vandalism and squirrels who live in the local habitat.

The ground mounted cages allowed for easier maintenance. The “Crown” fixtures were replaced with ColorBlast RGBA – this LED mix would ensure the “warm glow” as required by the client. An eW Blast was used to illuminate the Bronze sculpture of William Wallace located at the corner of the tower.



All controls are located in the base of the tower along with a 3G remote access router to allow the freedom to access the programming at any time.

Installation works was challenging physically due to the daily climb to the tower “Crown” – 246 steps, and on most days more than once. The end result is a fully dynamic solution which allows the client to react quickly to event requests, maintenance cost reduction and at the same time respecting the historic fabric of the building.





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