

## Case Study

### Houses of Parliament



### ELECTROSONIC

Electrosonic is an international audio-visual company that creates tailored, state-of-the-art solutions for a wide range of markets including theme parks, museums, control rooms, and corporate meeting rooms.

### Houses of Parliament turning heads with 360 degree projection

**Industry:** Education / Tourism

**Region:** London, UK

**Installation Company:**

Electrosonic

Tel: 01322 222 211

<http://www.electrosonic.com>

Email: [info@electrosonic.com](mailto:info@electrosonic.com)

**Type of solution:** 8x EH503 ProScene projectors with short throw lenses

**Challenge:** The Houses of Parliament wanted to bring Parliamentary history to life in its new Parliamentary Education Centre with a 360 degree projection experience.

**Solution:** International audio-visual experts Electrosonic installed eight EH503 ProScene projectors with short throw lenses to project the continuous 360 degree video around the walls. The imagery and sound from six Tannoy Di 5a powered speakers created an immersive experience giving students a feeling of actually being at the centre of political history.

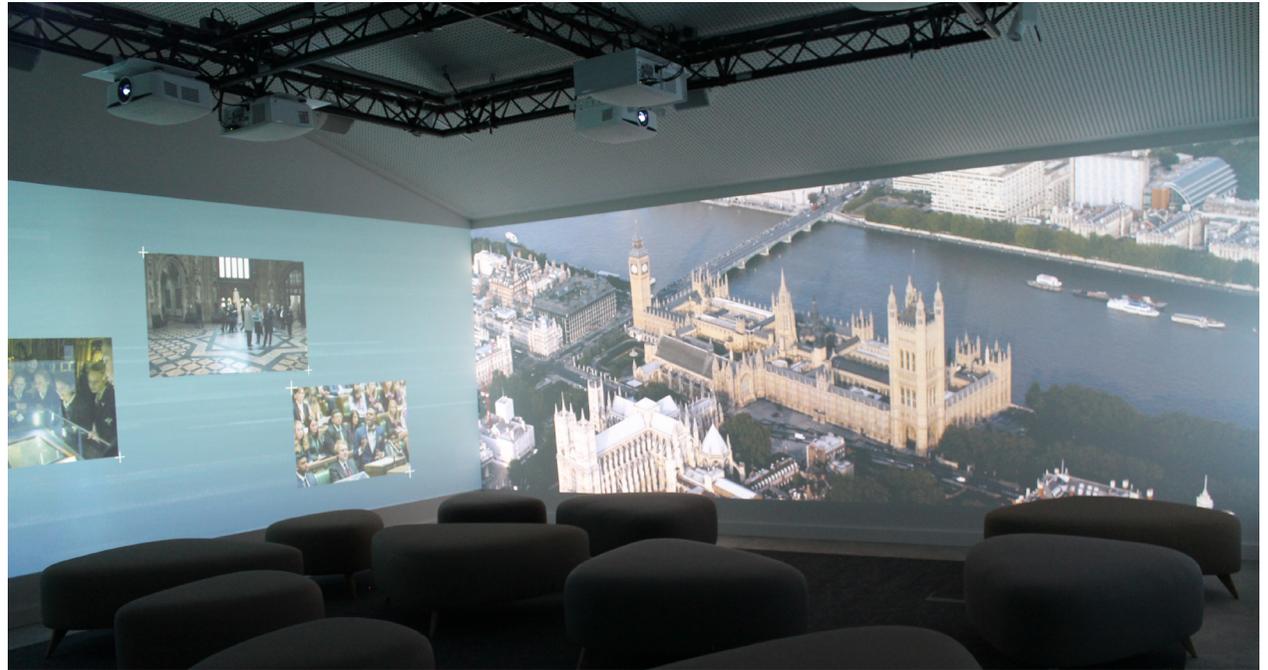
**Results:** “The Discovery Space is an outstanding visual experience that is the show piece of our new Education Centre,” said Dr. Emma-Jane Watchorn, Head of Education at the Houses of Parliament.

Since its founding in 1964, Electrosonic has built a strong reputation for working on complex projects, both large and small, and has developed lasting partnerships with customers and suppliers. Beyond complete integrated systems, Electrosonic provides a comprehensive scope of services including technical design, projector lamp sales, maintenance and operational support.

## Challenge

The Houses of Parliament wanted to engage and inspire young people by bringing Parliamentary history to life using audio-visual technology in its new Parliamentary Education Centre.

Electrosonic was appointed to oversee all AV design and systems integration for the 'Discovery Space'. This included 360 degree projection to immerse students in a fast-paced experience, blending engaging content with spectacular visuals.



## Solution

Eight EH503 ProScene projectors with short throw lenses were discreetly ceiling mounted to project the continuous 360 degree video around the walls, giving students a feeling of actually being at the centre of political history.

This projector was chosen due to its combination of zoom, lens shift and choice of five lenses including an off-axis short throw. This met the requirements of the 360 degree projection and ensured installation was flexible and straightforward.

## Equipment List

8x EH503 ProScene projectors with short throw lenses



6x Tannoy Di 5a powered speakers

iPad

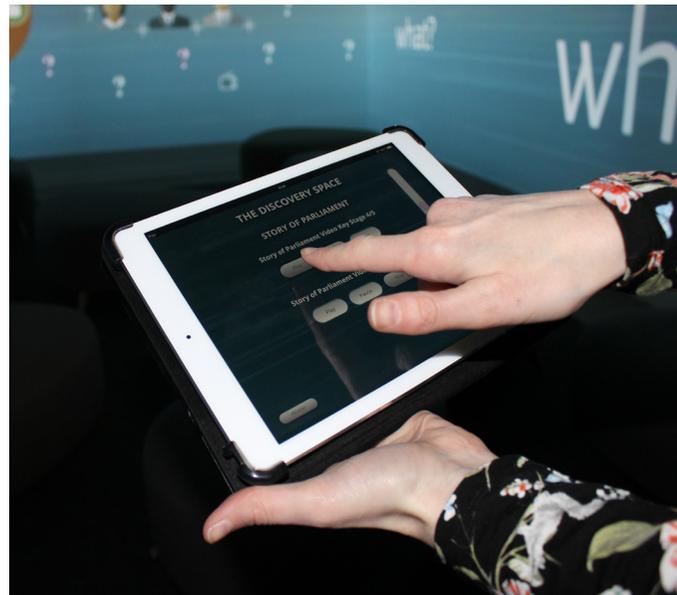
Electrosonic ESCAN remote monitoring solution

“The Discovery Space is an outstanding visual experience that is the show piece of our new Education Centre,” Dr. Emma-Jane Watchorn

This bright 5,200-lumen 1080p projector produces vivid colours and pin-sharp imagery. It also has powerful image blending tools with a 3-axis colour matching system and 10x lamp-power steps making it ideal for edge blending projects like this. With full support for Crestron, Extron, AMX, PJ-Link and Telnet LAN commands, the projector can be controlled and monitored remotely over a LAN.

Electrosonic worked alongside Centrescreen for the visual content, which included a memorable and visually vibrant 15-minute production where the story of Parliament is brought vividly to life.

Students also see recreated events connected to each debating chamber such as when the suffragettes fiercely protested in the House of Commons in 1908, and when the Duchess of Queensbury attempted to gain access to the House of Lords in 1739. The projection is accompanied by six Tannoy Di 5a powered speakers to create an immersive sound.



To ensure that all audiences ranging from key stage two to key stage five respond positively to the show's core messages, two versions of the film were created with differing levels of visual intensity and language used. When entering the room, the desired show can be selected simply via an iPad.

The Discovery Space is connected to the Electrosonic ESCAN remote monitoring service to support continuous operational reliability. In the event of a fault occurring with the AV systems, an alert will be created for the Electrosonic team to swiftly respond.

All Optoma projectors use DLP technology from Texas Instruments. This uses millions of mirrors to produce high quality imagery which does not suffer colour degradation over time. The dust-sealed, filter free design prevents dust and dirt from affecting the system ensuring optimal image quality with minimal maintenance.

## The Results

The new Education Centre, designed to connect young people with parliament and democracy, was officially opened by Professor Brian Cox in July 2015. It makes use of creative and immersive technology to create a unique learning experience that generates a sense of anticipation in groups entering the space, and from which groups depart feeling inspired and excited about their Parliament.



“The students are always transfixed during the Story of Parliament film and feel like they are genuinely in either the House of Commons or the House of Lords during the virtual Chamber experiences.” said Phil Johnson, Centre Manager, Houses of Parliament.

As a result of the new centre, Parliament's Education Service is expecting student visits to more than double in 2016 from 45,000 to 100,000.

“The Discovery Space is an outstanding visual experience that is the show piece of our new Education Centre,” commented Dr. Emma-Jane Watchorn, Head of Education at the Houses of Parliament. “We're passionate about engaging young people with democracy, and the Immersive Space enables us to do that in a unique and engaging way.”

To find out more about visits to Parliament: [www.parliament.uk/education](http://www.parliament.uk/education)



Optoma Europe Limited  
Registered Office at 42 Caxton Way, Watford Business Park, Watford, WD18 8QZ, United Kingdom  
Tel: +44 (0) 1923 691800  
Fax: +44 (0) 1923 691888

[www.optoma.com](http://www.optoma.com)

For more information on Optoma solutions, visit [www.optoma.com](http://www.optoma.com)

The above information regarding third party evaluation and recommendation provided in this document is for your information. Since third parties provide the information to Optoma Europe Limited ("Optoma") and Optoma relies on the information, Optoma makes no guarantee that such information is reliable.

Any third party products or services that are provided with any Optoma product are provided "as is". Optoma makes no representation, warranty or guarantee whatsoever in relation to the third party products or services and Optoma assumes no liability whatsoever in relation to the third party products and services.

Copyright © 2014, Optoma and its logo is a registered trademark of Optoma Corporation. Optoma Europe Limited is the licensee of the registered trademark. All other product names and company names used herein are for identification purposes only and may be trademarks or registered trademarks of their respective owners. Errors and omissions excepted, all specifications are subject to change without notice. DLP®, BrilliantColor™ and the DLP logo are registered trademarks of Texas Instruments. All images are for representation purposes only and may be simulated.

**Image copyright ©Electrosonic**