



Market segment:
Education

Location/Country:
Nottingham, United Kingdom

Year of Installation:
2021

End customer
Nottingham Trent University

Solutions:
Video Intercoms

Key products:
TCIV-2+

Client / Installer
Schröder

The Customer/End User

Nottingham Trent University (NTU), one of the UK's leading modern universities, has over 40,000 students across five campuses.

Known for blending tradition with innovation, NTU's campuses are designed to inspire learning while fostering a strong sense of community.

NTU is also committed to sustainability and biodiversity, with active efforts to protect local wildlife habitats.

NTU's Smart Campus: Powered by Schröder & Zenitel

Student and staff safety is a top priority for Nottingham Trent University. They wanted all pedestrian routes across their campuses to be well-lit, regularly patrolled by security, and closely monitored through a comprehensive CCTV network.

The Requirement

Nottingham Trent University (NTU) needed a comprehensive solution to improve campus security and safety, particularly after dark. Key to this was ensuring well-lit pedestrian routes that are closely monitored by security teams.

NTU also required a communication system to allow students and staff to contact security quickly, especially in emergencies.

In addition to security, sustainability was a priority. For areas near sensitive environments, like Clifton Woodland, NTU sought eco-friendly lighting solutions that wouldn't disrupt local wildlife.

The chosen system also needed to be customizable, allowing NTU to brand equipment and integrate it seamlessly into its existing infrastructure.

Finally, NTU wanted future-ready capabilities in its security infrastructure. The system had to be scalable to accommodate future upgrades and new services while being cost-effective with low-maintenance operations.

With these comprehensive requirements, NTU identified SHUFFLE smart poles as the perfect solution to meet its immediate and future needs.

The Solution

In 2021, NTU installed SHUFFLE multi-functional smart poles that are integrated lighting modules with Schröder's advanced optics to enhance visibility in targeted areas.

The lighting varies in color temperature depending on location, with neutral white LEDs (4,000K) installed in the city center and warmer tones (2,700K)

on the Clifton campus, near protected natural spaces such as bat roosting areas.

Additionally, the poles include 360° surveillance cameras for comprehensive coverage, and a two-way, audio-video intercom system from Zenitel. This allows students and staff to communicate directly with the University's security team in real-time, providing immediate assistance when needed.

Zenitel's audio and video intercoms were seamlessly integrated with the University's existing infrastructure, ensuring a smooth operational flow.

Additional customization came in the form of beacon lights to make the poles visible from a distance, and branding with NTU's logo and colors that reflect the institution's identity.

The Result

The SHUFFLE smart poles greatly improved campus security by offering a unified system for lighting, communication, and surveillance.

The poles with Zenitel's audio and video intercoms not only enhance the feeling of security for students and staff and provide clear communications, but also minimize the environmental impact through tailored lighting solutions that preserve nearby ecosystems, such as the Clifton Woodland area.

NTU's decision to integrate the poles with the Schröder EXEDRA lighting management system allows for real-time monitoring, quick detection of failures, and optimized maintenance costs.



The open, interoperable nature of the Schröder EXEDRA system also provides NTU with future scalability, enabling the potential integration of additional smart services as the University grows.

This comprehensive, customized solution ensures that NTU's investment meet both present and future safety needs, while also aligning with its environmental goals and sustainability efforts.

The integration of Zenitel's audio and video intercoms with Schröder's SHUFFLE multi-functional smart poles had an immediate effect on how safety is managed and experienced at NTU.

With direct, two-way communication between individuals on campus and the university's security team, response times to incidents were shortened, and the overall perception of safety improved.

Students and staff now have a clear, visible way to ask for help when needed - whether in an emergency or just for reassurance.

Why Zenitel?

Zenitel is well positioned to drive the future of intelligent critical communication solutions. Through our portfolio of IP products and solutions, with built-in intelligence and a focus on cybersecurity, we provide organisations with superior, scalable security and flexibility. Zenitel is the proven, preferred choice for environments requiring crystal-clear audio to ensure the protection of human life, property, assets and the management of critical activities. With interoperability at all levels, we seamlessly integrate with access control, video management and security platforms-