D-Link
Building Networks for People

D-Link IP Surveillance protecting Baroque art in one of the oldest universities in Italy
The University for Foreign Students in Perugia

Università per Stranieri di Perugia

DCS-7110 Outdoor HD PoE Day/Night Fixed Bullet Network Camera

DCS-2230 Full HD Wireless Day/Night Network Camera

DNR-322L Cloud Network Video Recorder

DGS-1008P 8-Port Gigabit PoE Unmanaged Desktop Switch

DGS-1008D 8-Port Gigabit PoE Unmanaged Desktop Switch

D-Link's IP Surveillance system installed by Adalab Snc. at the University for Foreign Students in Perugia guarantees better control of all parts of the Palazzo Gallenga, the main headquarters, and of the surrounding areas, as well as better control of the whole organisation by public authorities and security within the building with real-time monitoring and video playback if required. Public authorities, security within the building, real-time monitoring and video playback if required. A system that has not endangered or damaged any infrastructure, frescos or Baroque architectural elements of the building; a system that can protect the University's heritage and guarantee people's safety, preventing and discouraging crimes and acts of vandalism in areas that cannot be monitored by staff and that can provide video proof when criminal activities are reported.

The Client

The University for Foreign Students in Perugia is the oldest and most prestigious Italian institution dedicated to education, research and raising the profile of Italian language and culture in all their expressions. Founded in 1921 by the lawyer, Astorre Lupattelli, in the form of Courses on High Culture for foreign students, it was given the title of Regia Università Italiana per Stranieri in 1925 and officially became a national university in 1992.

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Initially housed at the premises of the University of Perugia, in 1927, the University for Foreign Students in Perugia moved to the Palazzo Gallenga, and in the 1990s, took over four more buildings, the Prosciutti, Lupattelli, Orvieto and Valitutti buildings; a base in the historic centre of Perugia dedicated to education and research.

The Partner

Adalab Snc. is an IT company offering consultancy, procurement and maintenance services for software and hardware solutions for businesses and private individuals who need onsite technical support. Adalab's team of technical experts provides support for PCs, servers and networks.

The University, made up of the central headquarters - Palazzo Gallenga, on Piazza Fortebraccio - and four separate buildings on Via XIV settembre, 950m away from the headquarters, needed a video surveillance system that could guarantee better, more timely access control.

Developed to protect tangible and intangible assets, as well as the safety of individuals working inside and outside the university premises, D-Link's IP Surveillance solution was installed by Adalab Snc. to fulfil institutional purposes, in accordance with data protection requirements, not as a tool to remotely monitor professors, students or technical and administrative staff.

The Solution

An IP Surveillance system by D-Link to monitor all the entrances to the headquarters, an eight-floor 18th century building of particular historic and artistic interest.

A system made up of 22 cloud cameras, 3 network video recorders (NVR) and 7 switches for integration with existing networks, capable of monitoring and protecting the architectural value of the Palazzo Gallenga Stuart.

"Fantastic support throughout the project; great quality products with costs kept under control."

Andrea Carnevali (systems analyst-IT consultant) from Adalab Snc.

D-Link's DCS-7110 cloud cameras were installed at the former Palazzo Antinori are equipped with PoE Technology (Power over Ethernet), which allows the video cameras to be powered directly by the Ethernet cable connected to a PoE switch, perfect for non-invasive installation, reducing cables and as a result, the amount of marks needed to be made on the walls.

To monitor the entrances from outside and not alter the facade, D-Link's Outdoor HD PoE Day/Night Fixed Bullet Network Cameras were installed. They are discrete and also have an enclosure that is specifically certified (IP66) for outdoor environments, offering protection from bad weather and temperatures between -20° and 50°.

These cloud cameras were also used for the inside areas including the hallway and the entrance stairway. These cloud cameras were then set up to send email alerts and snapshots in high definition when movements are detected, even in total darkness, as they are fitted with LED infrared lights, CMOS progressive sensors and ICR technology. Thanks to the tamper detection function, this camera can alert the head of security, even if redirected, out of focus, or blocked.

In areas where even more discrete cameras needed to be installed, so as not to compromise the beauty of the cornices and decor, the DCS-2230 cloud cameras were chosen due to their compact design. Fitted with CPU, they are also easy to install, with an intuitive interface and slots for microSD cards to save images locally.

Thanks to the ePTZ function and high video resolution, these small but powerful cameras are capable of offering a panoramic HD view of a very large area and any portion of the video selected in greater detail thanks to the electronic Zoom; a solution comparable to a motorised video camera, but less susceptible to mechanical problems as it does not have mobile parts; it also means that the number of cameras installed could be reduced thanks to high-definition. For the installation of the video surveillance system, the pre-existing network needed to be integrated with

a number of D-Link Green Gigabit switches; number of D-Link Green Gigabit switches; the DGS-1008P PoE (Power over Ethernet) to power the cameras to be connected and able to guarantee energy saving when not in use and when not in use and the DGS-1008D, an unmanaged switch that is easy to set up and allows you to increase the bandwidth, improve response times and satisfy heavy workloads and HD traffic. These two silent solutions are perfect for libraries and classrooms or meeting rooms, as they have no fans.

Complete control of public and archive areas for video flows required the installation of three DNR-322L network video recorders (NVR) capable of recording simultaneously from a up to 9 cloud cameras each, 24 hours a day, for defined periods (for example,
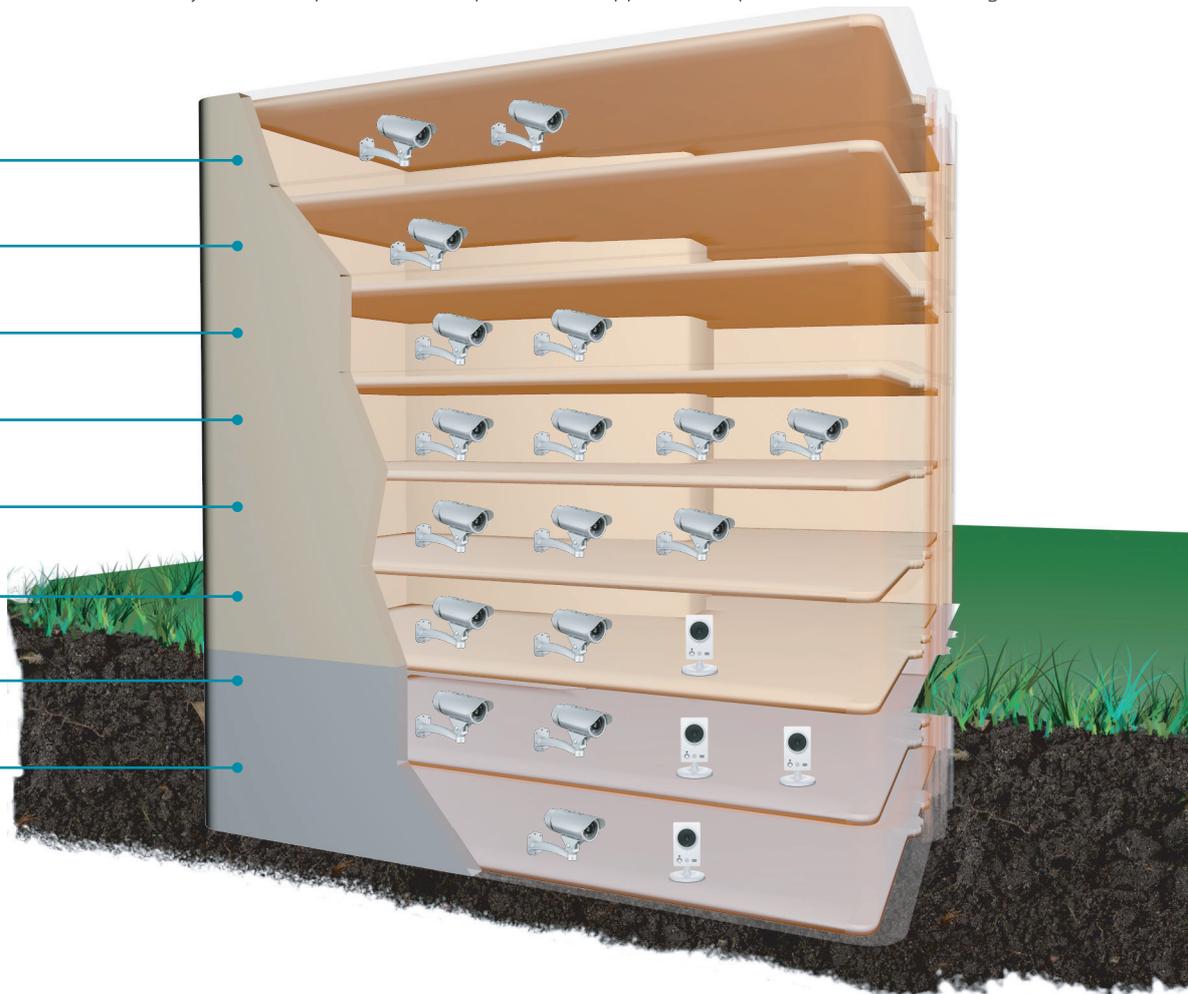
at night or during the weekend), or on the basis of events, such as movement detection.
It is also possible to create user accounts with different access privileges, specifying the cameras for which they are authorised, limiting access to the NVR and recording, and guaranteeing respect for privacy regulations in force.

The DNR-322L Network Video Recorder also offers the option of protecting data, even if the hard disks are damaged, using a RAID 1 configuration, which allows for the duplication of recorded videos on two separate disk units. All the cameras' live feeds can be accessed remotely by logging into the secure mydlink™ account via mydlink.com or by downloading the free mydlink™ app to a Smartphone or tablet and viewing from there.

Arrangement of cameras

Piano V
2x DCS-7110

Piano IV
1x DCS-7110

Piano III
3x DCS-7110

Piano II
4x DCS-7110

Piano I
3x DCS-7110

Piano terra
2x DCS-7110, 1x DCS-2230

Piano -1
2x DCS-7110, 2x DCS-2230

Piano -2
1x DCS-7110, 1x DCS-2230

For more information: www.dlink.com

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