

Healthcare at the innovation clinic relies on Axis network cameras. Axis solution protects the facility and enhances and optimizes services provided.



Organization:
MediClinic

Location:
Pozzonovo, Italy

Industry segment:
Healthcare

Application:
Medical clinic safety
and security

Axis partners:
Lan & Wan Solutions
S.r.l., Openview

Mission

MediClinic is a new, cutting-edge international healthcare facility offering a wide range of services related to prevention, diagnosis and therapy. The problem faced was to create an effective and efficient installation that would protect the massive technological investment that the facility represented and at the same time promote the more effective use of resources with a view to offering patients higher quality services; the latter objective was a top priority for Openview, the healthcare technical consulting company that supervised the entire project.

Solution

The system requested by Openview and designed with technical support from Lan & Wan Solutions provides full coverage of the building both externally and internally, with the exception of areas protected by privacy laws. Altogether, 60 Axis network cameras have been used, 18 of which are outdoor cameras. The interior cameras allow personnel to monitor the condition of patients remotely and respond as needed.

Result

The system installed at MediClinic represents a useful innovation for the healthcare industry, because it introduces a new application for video surveillance benefiting clinical personnel. System operators can simultaneously monitor patient status and activities in more places within the clinic. Continuous monitoring by clinical personnel improves logistics and patient safety by reducing the time required for personnel to respond. The result is the optimization of available resources and improved health care quality.

"In protecting the facility we set our primary objective to be the creation of a shared environment for all devices installed. Ease of integration is one of Axis' strong points."

Luigi Pedrotta, General Manager of Lan Et Wan Solutions Ltd.

MediClinic is a facility equipped with the most advanced clinical and diagnostic technology, and an adjacent outpatient services department offers day surgery as well as physiotherapy and rehabilitation (both gym and aquatic) and psychophysical recovery.

The video surveillance system that was adopted makes use of Axis cameras with HDTV resolution for on-site security and at the same time it is utilized to improve healthcare services. Outdoor perimeter protection was one of the fundamental requirements considering the isolated location of the clinic and the need to control access to areas housing essential equipment and utilities for the facility such as power, HVAC and medical gas systems.

This task is performed by two fixed AXIS Q1604-E Network Cameras, two AXIS P3367-VE fixed domes and 14 AXIS P3364-VE Network Cameras, also fixed domes. The main characteristic of AXIS Q1604-E is the Wide Dynamic Range feature, which provides clear images of people and objects even under conditions where there are highly variable lighting conditions, for example, where backlight or intense contrasts is an issue. The AXIS P33 Series chosen come with the P-Iris system for precision diaphragm control so as to provide the best images under any lighting conditions. AXIS P3364-VE, in addition to the P-Iris, also includes Lightfinder technology, which maintains colors even under very poor lighting conditions.

The indoor cameras are dedicated primarily to assisting personnel in hospital operations and patient monitoring, management of which is made more effective by the system, whether under conditions for normal procedures or in emergency situations.

For example, using pan and tilt it is possible to check the status of postoperative patients: in addition to staff normally assigned to monitor patients after procedures or during hospitalization, camera operators in the clinic can also monitor patients and initiate any medical procedures required in the event of an emergency or immediate need. Consequently, the overall safety of patients at the clinic is enhanced. In this case, the system takes advantage of ultra-compact mini dome cameras including 13 AXIS M3004-V and 24 AXIS M3005-V Network Cameras, in addition to five AXIS M5014 mini PTZ Network Cameras.

AXIS M3004-V and AXIS M3005-V offer horizontal viewing angles, respectively, of 80° and 118°, and support the Corridor Format for vertically oriented video streams to cover corridors, entrances or passageways.

AXIS M5014, on the other hand, is a special PTZ dome camera that is exceptionally discrete: it is actually only 13 cm wide and 5.6 cm tall. When ceiling-mounted, it permits flexible coverage of an area greater than 400 m², with ± 180° pan, 90° tilt and 3x digital zoom.

Pre-sales support provided by Axis technicians, together with Lan Et Wan Solutions and directed by Openview, made it possible to identify the most appropriate solutions and the ideal positioning to guarantee the best performance.

"We conducted a thorough study of the products of various brands, from economic as well as technological standpoints. Axis came out on top, and were first rate as well in the level of professionalism in the pre-sales support they provided us", said Marco Cappellini, CEO of Openview, and project manager for ICT outsourcing at MediClinic, Ltd.

