Video surveillance in the air.

Axis solution keeps travelers safe and secure in the largest cable car system in the South Tyrol region.

Organization:
Cable Car Merano 2000

Location:
Merano, Italy

Industry segment:
Transportation

Application:
Cable car surveillance, onboard and in stations

Axis partner:
Itel di Locatelli

Mission

Cable Car Merano 2000, the company managing the cable car that connects Merano to the ski resort with the same name, needed to equip the new facility that opened at the end of 2010 with a surveillance system that would enable reliable, quality monitoring of the 3 stations, the cabins and the path. The solution needed to be rugged and reliable, given the difficult installation conditions of some system components.

Solution

Itel di Locatelli, a firm from Bolzano who installs and manages video surveillance, telephone and cable systems, chose to equip the facility with 13 fixed dome AXIS P3344-VE Network Cameras. The cameras were installed along the path of the cable car, inside the stations and the two cabins.

Result

The solution adopted proved to be completely satisfactory for the client. Thanks to continuous monitoring of the stations, cabins and the exterior, users are able to enjoy a safe, cutting-edge transportation system.

AXIS
COMMUNICATIONS

"In a very short time and at a nominal cost we were able to equip the new cable cars with a video surveillance system which has proved from the outset to be extremely efficient and reliable. Thanks to Axis and its partner Itel di Locatelli, we are able to offer our guests safety and tranquility when traveling for work and pleasure."

Karin Tscholl, Cable Car Merano 2000.

Easy installation in a harsh environment

The Merano 2000 ski resort, with over 40 kilometers of slopes for every skill level, offers perfect conditions for ski enthusiasts.

Merano 2000, the largest cable car system in South Tyrol opened on December 20, 2010, replacing the old facility that closed 10 months earlier. Capable of transporting up to 120 people in 7 minutes from Merano to the "PiffingerKöpfl," the new cable car includes 2 cars with capacity for 120 passengers each and operates 365 days a year. The departure station is 650 meters above sea level, the upstream one is at 1,899 meters, for a total distance of 3,642 meters. Something new is the Intermedia Gsteier station, where the cable car only stops at the request of the travelers.

The video surveillance needs for Cable Car Merano 2000 varied: to monitor the situation in the moving cabins, monitor the 3 stations and verify the presence of any clients waiting at the intermediate one. The system had to meet some important technical requirements: use a Wi-fi transmission system to send the images recorded, be highly resistant to low temperatures and offer extreme technical reliability, to avoid extraordinary maintenance as much as possible, given the particular difficulties of installation and access.

Already ready for outdoor installation, easy to install, capable of tolerating extreme temperatures, HDTV video quality, ability to manage multiple H.264 streams: these are the main characteristics that guided the choice by Itel di Locatelli for the AXIS P3344-VE Network Cameras.

The housing that encloses this camera, resistant to weather conditions and vandalism, and able to tolerate temperatures as low as -40°C, is particularly indicated in harsh environments. The remote zoom optimizes the viewing angle depending on the scene and required pixel resolution at installation, while the remote focus function allows for sharp images every time, without needing to physically visit the installation site to manually change the settings. the power supply exclusively by Power over Ethernet standard (IEEE 802.3af) greatly simplified installation, which is not an insignificant issue in harsh environments.

HDTV video resolution, the support for Wide Dynamic Range and day/night functions contribute to the production of clear images in any lighting, which is of strategic importance in outdoor environments dimly lit by artificial light. And finally, two-way audio support is useful for communicating with the passengers of the cabins, when the conductors or the staff present in the stations need to provide guidance in critical situations.

The data transmission from the cameras installed inside the cabins and on the central control pillars is done through Wi-fi technology that is very useful for this type of installation, as it avoids costly and inconvenient wiring; Wi-fi coverage is provided by towers installed on the pillars, the three stations on the other hand are wired fiber-optically.

"Cutting-edge technology that is durable, reliable and above all provides an image of unequaled quality: these are the characteristics of Axis products. The high definition makes it possible to obtain very detailed images, the sturdiness of the housing permits installation even under harsh environmental conditions," states David Locatelli from Itel di Locatelli.