



Virtual Sentinel

Video surveillance architecture



Virtual Sentinel goes beyond the concept of a solution, it is a complete **architecture for surveillance. It is an innovative, reliable, and versatile system** providing for **total interoperability between technologies and solutions.**

Devised and developed by AD Consulting, Virtual Sentinel provides remote video surveillance to manage unattended locations such as offices, branches, or other facilities that need to interact with the public, in order to allow access to buildings or monitor offices with two-way video and audio links.



With video surveillance equipment, hardware, and software installed, whatever happens at the work stations can be controlled remotely (in full respect of privacy regulations) and the police or other emergency services can be alerted if necessary.

This solution also allows the workstation operator to make an emergency call.

How Virtual Sentinel works

Workstation

Each workstation is equipped with a device featuring an Android operating system and a 10" monitor, which can be customised to include the company logo. The device frames both the workstation operator and the guest and a full HD camera featuring lens that provides a 180° viewing angle (known as a 'fisheye') so as to provide a complete view of the area, even where there is little depth. This ensures a sufficiently broad view even when the subjects to be recorded are sitting or standing near the device.

In the event of a robbery, assault, or accident, the workstation access area can also have context cameras installed, which can provide accurate information which is useful in the reconstruction of events. The cameras can be set to record certain events or if activated by the workstation operator, who can press an emergency button normally located under the desk.



Reception – Welcome Desk. A reception workstation can be set up in offices or at customer desks with a different set-up from the standard workstations. This field device can be equipped with a separate monitor, camera, and desktop microphone/speaker.



Surveillance company - Control Room. The surveillance company or the control room can access the system through a specific customer station installed on their premises.



Context cameras. Cameras with different features can be installed, including vandal-proof devices with a transparent cover and variable lenses, to make sure the view is optimal in all conditions.



Security. The database that contains the records can be configured to encrypt recordings in two different ways, i.e. light and strong. The system ensures data integrity protection because the video cannot be decoded without the information contained in the encrypted header.



Privacy. Virtual Sentinel and relative services are provided in compliance with laws in force; total flexibility means the system can be adapted to meet future requirements. The image recording, management, and storage procedures meet both in legal requirements and internal company policy.



Pre-event. When necessary for police investigations, a pre-event recording can be provided, with freely programmable time limits.



Data preservation, extraction, and processing. Upon expiry of the stated storage time limit, the system is programmed to automatically delete recorded images from all storage media; the files are deleted in such a way as to ensure deleted data can not be reused.



Video surveillance functions. The system's centralised management allows efficient management of larger surveillance installations spread over a wide area. Wizards and the management of large numbers of devices, users, and system settings considerably increase ease of use.



Navigation panel. The user-friendly navigation panel provides a clear overview of and access to system configuration data.



Italian multi utility provider works with Virtual Sentinel. One of Italy's leading local utility providers has chosen Virtual Sentinel. The company's core operations focus on the environment (waste collection and treatment), power (electricity and gas distribution and sale) and water (water pipelines, sewerage, and water treatment). The Group employs over 8,500 employees, who work every day to meet the multiple needs of over 3.5 million people. Virtual Sentinel has been introduced in over seven branches of the multi utility provider, with a total of approximately 100 workstations monitored. With Virtual Sentinel, the company that maintains a philosophy of "useful and possible" innovation has brought about a substantial improvement in the safety of its offices and branches, with an optimisation of its financial and technological resources.

AD Consulting

We focus on designing solutions and services that develop and enhance ICT facilities. With a wealth of technical and consultancy expertise to our name, we offer our clients a complete and integrated range of products and solutions. Our innovation-led approach, together with our operating methods and technical certifications, make us a partner you can count on. We always work directly with our clients, to devise and design sturdy solutions that can evolve and adapt as they grow. Banking and financial institutions, manufacturers, service companies, utilities and communications firms, large-scale retailers, and public authorities are just some of the clients who use AD Consulting for their IT governance, security, and software engineering needs.

We can help you pinpoint potential threats and critical areas which leave your company's facilities and resources vulnerable to attacks. We can help you to identify potential threats and critical areas which leave your company's facilities and resources vulnerable to attacks. We devise and create solutions in line with available budgets, integrating systems and technology of the moment. We implement video surveillance and video analysis projects by combining new technologies with reliability criteria and ease of system management. We are there every step of the way, from design to construction and maintenance



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