AIPHONE SOLUTION SHOWCASE

Adding Security and Communication to a Power Plant

THE SCENARIO

In a certain power plant, access control gates were installed to manage personnel entry and exit. The facility administrators were considering implementing additional security measures in place. In addition to the existing methods of confirming identities through audio intercom communication and ID card checks at each access control gate, they were considering the introduction of an additional security layer, such as security guards in the security office visually verify individuals before granting access. Given the access control gates' frequent use by numerous personnel, user-friendliness was crucial.

Some of these access control gates were located in noisy areas due to turbines and other sources. This noise made it difficult for both parties to hear during communication. Consequently, the facility administrators requested a system that would enable clear voice confirmation even in such noisy environments.

Furthermore, within the power plant, numerous access control gates were positioned. When security guards received calls from these access control gates, they often couldn't easily identify the call source from the displayed video. Therefore, the administrators desired a feature to promptly identify the source access control gate for any incoming call.

The vast scale of the power plant, with its extensive area and large buildings spread throughout the premises, an intercom system with no communication distance limitations was required.

The facility administrator of the power plant selected an IP video intercom system that can confirm faces in order to strictly manage the entry and exit of personnel.

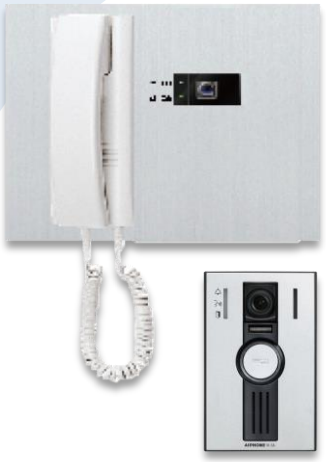
THE SOLUTION

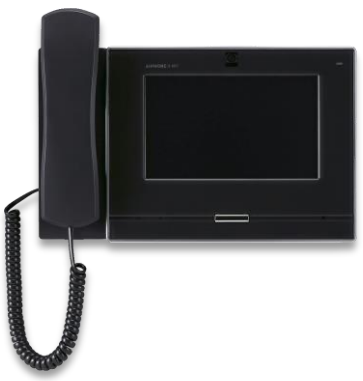
The facility administrators selected the IP video intercom system. User-friendly video door stations were installed at the gates, allowing visual and voice verifications from the security office. Furthermore, the IP video intercom system was equipped with automatic recording features, archiving audio and video records of gate visitors, enhancing preparedness for unexpected situations.

Since the door station utilized an open voice communication method, it picked up ambient noise, making conversation difficult in noisy environments. To address this, a custom-made product was adapted, incorporating a handset into the video door station for communication via the handset instead of open voice, allowing clear communication even in noisy conditions.

To easily identify from which gate a call was made, the IP video intercom system was integrated with a display device from a different company. When a call was made, the intercom's master station rang, and the display device showed the gate number. The interactive map of the power plant on the PC also indicated the calling gate, providing immediate visual information for security guards.

An IP-based intercom system can be deployed regardless of physical distance. The system operates without concerns about communication distance limitations.





AIPHONE SOLUTION SHOWCASE

Access Control Gate

The IP video intercom system allowed a security guard to verify personnel on visual before granting access with confidence.

Central Security Office

Turbine Building

THE BENEFITS

- User-friendly video intercom system provided simple operation, ensuring easy access control for all users.
- Incorporating a handset with the video door station enables clear communication through the handset even in noisy conditions
- Integration with different companies' IP systems was available. Calls initiated at the access control gates could be noticed by the gate number on the monitor and also illuminating on the interactive map on the PC
- IP intercom system eliminated wiring constraints and distances

System configuration Example