

VIVOTEK's Panoramic PTZ and IP8365H Provide Security for the Turkish Soil and Water Conservation Bureau, Covering Wide Open Spaces in Fine Detail, Day and Night

The Turkish Soil and Water Conservation Bureau: Protecting Turkey's Most Precious Resources

The Turkish playwright and novelist, Mehmet Murat ildan once said "Sand is for fun; soil is for life." Well, Mehmet's respect for the natural resources of Turkey is shared by people of the Turkish Soil and Water Conservation Bureau, who work tirelessly to protect and preserve these vital natural treasures for future generations of Turkish people. The Bureau's work is considered fundamental to the health and security of the great country of Turkey, as well as important for its ongoing development as a nation.

The Challenge: The Establishment of a New Plant-Monitoring Office.

In 2015 the Turkish Soil and Water Conservation Bureau realized the need to provide surveillance and thus security to its office site. To fulfill this important task, the bureau decided to establish a purpose-built central monitoring office from which the entire area could be monitored and secured. The central monitoring office would face a serious challenge however as the office site broad open spaces not only needed to be covered in wide angle views, but individual areas of interest would also need to be studied closely and in fine detail. To make the challenge even greater, the office site outdoor areas were subject to high contrast lighting conditions during the day and very low light over nights. With these requirements in hand, the Bureau reached out to system integrators Fibercom and distributors ONCU to help them find the perfect surveillance system for their office site.



The Solution: VIVOTEK – Far and Wide or Up Close, Panoramic PTZ Had the Plant Covered.

Fibercom and ONCU had a simple answer to this complex challenge – VIVOTEK. Having years of experience dealing with diverse surveillance demands, VIVOTEK has developed an impressive toolkit for any challenge. To provide both wide coverage and close detail, VIVOTEK developed the Panoramic PTZ solution, combining the wide range of a fisheye network camera and the high speed zoom and fine detail of a speed dome network camera. Panoramic PTZ combines these two unique cameras into one powerful, all-seeing surveillance system.

At the monitoring station, this synergy was realized through the combination of the VIVOTEK FE8174V 5MP fisheye network camera and the VIVOTEK speed dome network camera SD8364E. Working in tandem, the two cameras allow users to simultaneously monitor an area overview from a fisheye model while providing the capability for a detailed regional view from a speed dome. The VIVOTEK megapixel fisheye camera provides 360° surround view without blind spots, while the VIVOTEK speed dome provides fast, precise pan/tilt/zoom movement through its robust design and captures details with precise quality from extreme distances. With this perfect pairing of hi-tech cameras, every inch of the office site could be tightly monitored and recorded.

Securing Turkey's Water is a 24/7 Task – VIVOTEK's IP8365H Sees the Right Light, All Day, All Night

Not only did the office site's grounds need to be monitored both broadly and in fine detail, they also needed to be protected no matter what the lighting conditions, no matter what time of day or night. To provide superb image quality in any light, Fibercom and ONCU reached for VIVOTEK's IP8365H Bullet Network Camera.



The IP8365H features Wide Dynamic Range (WDR) technology, which improves a camera's image quality under high-contrast lighting conditions where both dimly and brightly lit areas are present in the field of view. It enables the camera to capture details clearly in both the poorly and strongly illuminated areas of the video. Thus WDR allowed the monitoring office to view clear and vivid imagery even in the harshest glaring light.

When the sun goes down on the plant, the IP8365H keeps working. A professional day/night camera, the IP8365H is armed with 30 meter IR and Smart IR technology which prevents overexposure by adjusting the IR lighting intensity instantaneously based on the changes of light in the ambient environment. To add to this, the camera is also equipped with 3D Noise Reduction Technology, which enables the IP8365H to capture clear, polished video under low-light conditions and reduce bandwidth from sensor noise.

Finally, tying the whole system together, VAST - VIVOTEK's professional video / central management software - manages all 100 VIVOTEK IP surveillance cameras installed at the office site. VAST's intuitive operating system allows the team at the monitoring station to seamlessly manage both the Panoramic PTZ system and the IP8365H and perform remote management of all of the cameras. Of course, to the security staff monitoring the office site for the people of Turkey, all of these details simply mean crystal clear images, all day, all night.