

Top-Class Apartments Chose Digital Surveillance in Digital Era

Site Name	I-Ping Garden (一品花園)
Country/ City	Taipei, Taiwan
Industry	Residential Areas
Solution	DTV FHD Digital Surveillance System DVR *1 CAM *16
Solution Provider	Ubiquity Smart Technology Inc.
Reasons of Adoption	■ Retrofit without recabling ■ Full HD video quality



CUSTOMER NEEDS AND PROBLEMS

Built by one of Taiwan's top construction corporations – Continental Engineering Corp. in Oct 2007, the I-Ping Garden is located at Chang-An East Road, Taipei City, close to Regent Hotel business district and the Huashan 1914 Creative Park. It is a residential building with hotel-style management and has 14 stories above and 3 below ground level. The property management of the building is entrusted to the CEC Property Management Corp., part of the CEC Security Group. CEC, founded in 1989, combines the resources of its security and property management departments to provide professional security services, systems, and equipment not only for individuals, but also for office buildings, commercial buildings, apartments, and so on. To offer better security services, since 2015, CEC starts to work with UST and third-party security contractors to conduct field surveys and security checkups at their clients' sites, and I-Ping Garden is one of them.

The I-Ping Garden had a 960H analog surveillance system with three 16-channel video servers. Despite that the 48 cameras and the 24-hour hotel-style management and security guards have combined to provide very high-level protection for the tenants and their properties, some of the tenants were still concerned about the 460-kilopixel definition 960H cameras which their security depended on, considering the TVs at their home had already featured 1080P (2-megapixel) or even 4K (8-megapixel) definition. The management committee saw during the security checkup that, although 960H video was much clearer than CCTV or even D1 videos, when zoomed in, the images were still not clear enough to tell personal characteristics or license plates. When disputes or accidents happen, the video may not be able to provide clarification or evidences. After discussions, the management committee decided to upgrade the cameras from 460-kilopixel to 2-megapixel definition at important areas such as front gate and underground parking lot.

CUSTOMER BENEFITS

“Everything is connected to the Internet in the era of Internet of Things.” Some of the tenants in this building are executives of high-tech companies or big names in the investment business. They know very well that “digitalization” is the inevitable trend. Governments around the world all consider IoT as the next driving force for the economic growth, and promote “digital life” in which everything is connected to the Internet, including cars, industrial machinery, household appliances, and even clothing. When selecting which surveillance system to use, although there were plenty analog surveillance systems available in the market, such as AHD/TVI/CVI, at very competitive price, none of them was approved by the forward-looking tenants. Another well-known option was the IP system. It was ruled out because the existing coaxial cables had to be replaced with network cables and because it was unable to be mixed with the existing 960H analog coaxial system. At the end there were only two candidates left, SDI and DTV. Both are digital and can work on coaxial cables. Both provide images with similarly good quality, but SDI requires 5C2V high-quality coaxial cables, whereas DTV works properly with the existing 3C2V or RG58/RG59 cables. In addition, should there be additional surveillance hot spots to cover, new cameras can be installed along the existing cables with readily-available TV signal splitters, thus easily eliminating surveillance blind spots. With above considerations, the committee finally chose DTV for the upgrade.

The system upgrade took less than one day to finish. Since no cable change was required, what left to do was to replace the 16 960H cameras with DTV digital cameras, and the 960H video servers with DTV video servers at the security room. It was easier than imagined to upgrade the system and to gain better protection.