

## Low Budget to benefit from FHD Surveillance by Leasing

Site Name	Sampu Commercial Building
Country/ City	Taipei, Taiwan
Industry	Commercial Building
Solution	DTV FHD Digital Surveillance System
Solution Provider	Ubiquity Smart Technology Inc. (UST)
Reasons of Adoption	<ul style="list-style-type: none"><li>■ Retrofit without recabling</li><li>■ Retrofit with existing worn-out cable</li><li>■ Full HD video quality</li><li>■ Other (leasing service)</li></ul>



### CUSTOMER NEEDS AND PROBLEMS

Completed in January 1995, Sampu Tower is a commercial/office building in the Xinyi Business District with 12 floors above the ground and 4 below. The security services are provided by Kiulok Security Co., Ltd., a company founded in 1995 specialized in property security and management. In addition, Kiulok is ISO 9001:2000 certified.

A part of Kiulok's clients are buildings completed more than 10 years ago. Their surveillance systems as well as cables are old, which leads to faded colors and loss of identification in the videos. To protect themselves from possible liability issues and provide clients with security service at a higher level, since 2015 Kiulok partners with a third party and sends security technicians to check up their clients' security systems. The results of the check-up are provided to their clients as a report. Both check-up and report are free of charge.

The report shows the surveillance system in Sampu Tower is relatively good with only one out of 16 cameras losing image. However, because the existing system is CCTV, the video quality of the rest of the cameras is relatively poor. One can only see blur figures on the screen but can neither recognize their characteristics, nor tell the numbers on the license plates. These video recordings help nothing should an accident occurs. Reading the report, the tenants realized it is a time for changes, and they unanimously agreed on upgrading to a 1080P HD surveillance system.

When it comes to HD surveillance systems, the first thought is naturally the popular IP-based systems. However, in order to use IP-based systems, all of the coaxial cables installed for the old CCTV cameras have to be replaced with the network cables for IP cameras. This replacement requires a full-scale installation project that will inevitably affect the business. The bank and KTV owners at the first floor were against the idea very much. If no cable change and HD system are both requirements, there are two options: analog HD and DTV digital HD systems. The security company sent technician to do on-site inspection and field test, and they

found that at the server end, the image is sharper from DTV digital HD cameras than from analog HD ones, despite that both are 2-megapixel cameras. This is because analog signal is more sensitive to the cable quality, while the digital signal is less susceptible to cable deterioration. After some discussions, the building's management board decided to choose the DTV solution.

## BENEFITS

The installation of DTV is very straightforward and does not affect the business of the tenants. The technician in charge said: "All we have to do is to remove the old cameras, replace the connectors if required, hook up the new cameras, and we are done. If there is a need to add new cameras, just use the T-connector and that's all. One last step is to set up the DVR channels to the corresponding cameras and the system is ready to go. There is no need of cable change, and there is no need of hubs when the transmission distance is long, like IP cameras. In comparison, DTV is much easier in terms of installation and maintenance in the long run."

Mr. Chen, the security guard of the building, also pointed out: "the video is much sharper after the system upgrade. It is easier for me to tell the people and cars coming in and out. If something happens, there won't be anything like 'I don't see jack!'"

In addition, the residents of the building include property owners and lease tenants; therefore, the equipment provider, Ubiquity Smart Technology Inc. (UST), offers the residents to either buyout or lease the cameras and servers to address for different customer needs. UST also works with the security company to provide customers with full range of hardware and software maintenance. UST's service allows Sampu Tower to gain clear video signal in the shortest possible time and at minimum budgets.

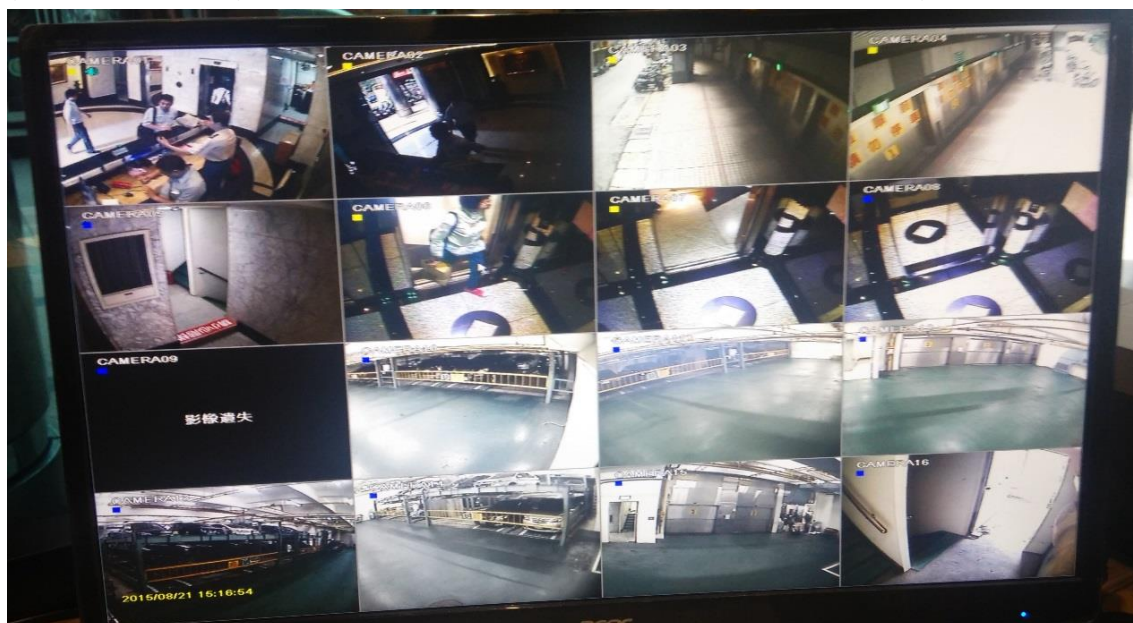


Figure 1. Before system upgrade: the signals were fading and the footage was blurry and dark.



Figure 2. After system upgrade: the footage is clearer and more identifiable than the old system. The license plates are very visible.