

DTV : to Protect the People Living on Offshore Islands

Site Name	Offshore Islands
Country/City	Kinmen & Matsu, Taiwan
Industry	Public Facilities
Solution	DTV Full-HD Surveillance System
Solution Provider	A-Tec Subsystem Inc.
Reasons of Adoption	<input checked="" type="checkbox"/> Full-HD Video <input checked="" type="checkbox"/> Others



CUSTOMER NEEDS AND PROBLEMS

The maintenance of cases located a distance away is a common nightmare of system integrators. In Taiwan (the main island), the longest distance from north to south is around 394-kilometer. Most of the time the transportation is not a problem if one has a car. However, if the case is located on offshore islands such as Kinmen, Matsu, Penhu, etc., even there are regular flights, the time and expense in transportation still significantly increase the maintenance costs. In addition, the salty sea wind may erode the equipment and cables, resulting in accelerated aging and frequent maintenance requests. Due to the above-mentioned issues, in general, system integrators are not willing to handle cases on offshore islands.

The customer in this case is a system integrator (SI) in Miaoli, who receives requests from Kinmen and Matsu. The following is a brief introduction to the locations of the two requests.

(1) The first case is located near the entrance of Qionglin Tunnel, Kinmen, and is about 500-meter to the seashore. The request is an outdoor, 16-channel DTV Full-HD surveillance system.

(2) The second case is from Matsu Campus of National Taiwan Ocean University (NTOU). The campus is located in Banli Villiage, Beigan Township. It is opened on September 19th, 2019 and is both the first offshore campus of NTOU and the first university of Matsu[i]. The request includes three sets of 16-channel DTV Full-HD surveillance system.

As mentioned above, because the cases are located a distance away and the environments are adverse, they are exactly the cases that most system integrators do not want to touch.

CUSTOMER BENEFITS

The Miaoli SI is not “most system integrators” because they have been working with A-Tec for years and understand DTV products very well. The following features explain why they are very confident that DTV could be used in offshore islands.

1. Ultra long-distance cable deployment: The distance of one-segment without repeater can be up to 1000 m, while that of other system can be at most 200 m. This is beneficial for cases in remote areas or offshore Islands.

2. Durable and reliable: DTV system uses digital TV technology and components, so they are both durable and reliable. In addition, DTV is less sensitive to cable aging problem, reducing the efforts for maintenance.

3. High-quality video: DTV’s video quality is clear and stable. It is not interfered by low-frequency noise, and neither by AM or FM signals from nearby radio stations.

Because of the above features, although the two cases fall in the not-easy-to-handle category, the SI is confident of DTV and willing to take the risk to serve the residents on offshore islands.

[i] Central News Agency: <https://www.cna.com.tw/news/ahel/201909190116.aspx>