

Early wildfire detection for Big Tree Animal Sanctuary and Adoption Center.

24-hour wildfire detection solution keeps animals safe and secure.



Organization:
Big Tree Animal Sanctuary
and Adoption Center

Location:
Hong Kong

Application:
Safety and security, fire
detection

Axis partners:
Robotics Cats Ltd.
Armada Intl. Ltd.

Mission

Big Tree Animal Sanctuary and Adoption Center (Big Tree) is located in Kam Tin, a remote rural area in Hong Kong. The Center operates one of the largest animal sanctuaries in the city with more than 180 dogs and cats living in the center. Their mission is to advocate animal rights by protecting abandoned animals with shelters and care. The center is surrounded by hills and trees which faces high risks of wildfire especially during the period of Ching Ming Festival and Chung Yeung Festival.

On the late evening of 25 October 2020, a wildfire ignited the day before was spreading out and was just meters away from the center. Nearly 300 people heeded an online call for volunteers and rushed to rescue the animals in the center. Luckily, all animals were rescued and kept safe during the evacuation. but it highlighted for the need to have a solution to avoid this kind of incident from happening again in the future.

Solution

An early wildfire detection solution had been suggested to Big Tree. It included AXIS Q6215-LE PTZ Network Camera and AXIS P1378-LE Network Camera together with RoboticsCats AI-Cloud wildfire detection SaaS (Software-as-a-Service). Alerts with smoke images are automatically sent to the Big Tree staff members if there is a potential risk of wildfire. The staff can take timely action to save the animals if there is wildfire nearby.

Result

Big Tree can now be monitored remotely and more efficiently detect the potential risk of wildfire 24 hours a day, 365 days a year, keeping the animals safe and secure in the center.

“This early wildfire detection solution acts like a virtual security guard which provides non-stop surveillance for the center around the clock. The network cameras provide 24-hour patrol around the center. Although we cannot stay in the center throughout the day, we can still feel safe and secure by this remote and proactive monitoring solution.”

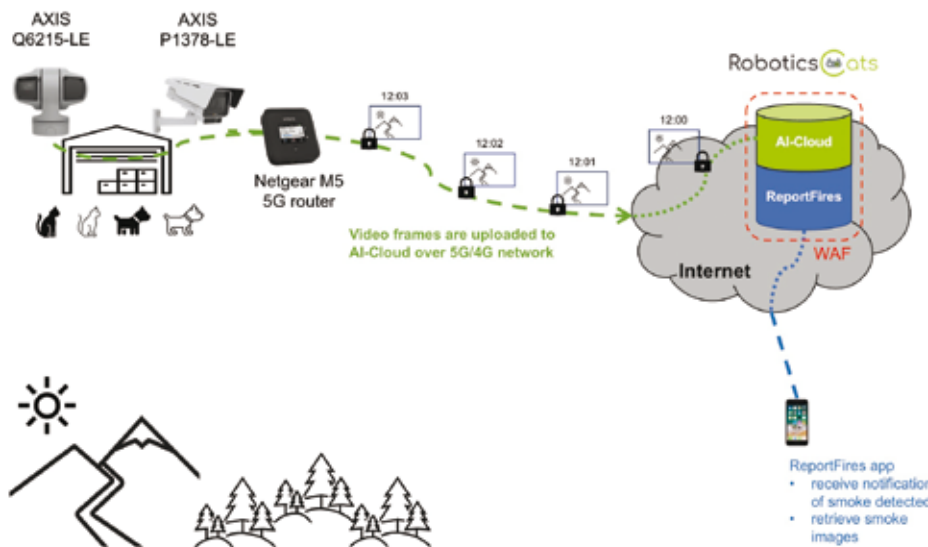
Jojo Chan – Volunteer, Big Tree Animal Sanctuary and Adoption Center.

Reliable surveillance around the clock

AXIS Q6215-LE PTZ Network Camera is a reliable and robust network camera specially designed with high precision 360° pan, -/+90° tilt and long-range IR to cover wide and long-distance surveillance which is perfect to perform the 7/24 patrol monitoring 1 km surrounding the center. Guard tour can be performed or it can remotely control the direction and angle of the network camera according to the needs of the center. AXIS P1378-LE Network Camera provides 4K image quality surveillance around the clock on specific high-risk area. The smoke can be detected as far as 7 km away from the center.

Automatic and efficient wildfire alert to staff for timely action

By setting the action rules in the two network cameras, the videos are transmitted to RoboticsCats AI-Cloud via 5G router regularly. If AI-Cloud detects potential wildfires, alerts and smoke images will be automatically sent to the Big Tree staff members with the ReportFires mobile app. The staff can take timely action to save the animals if there is wildfire nearby.



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Robust operation under extreme weather conditions

Since both network cameras were installed in a remote outdoor area, it was important to minimize the maintenance need. AXIS Q6215-LE PTZ Network Camera is a heavy-duty network camera which can withstand winds up to 245 km/h. The vandal-resistant IK10-rated casing and IP66/IP68 ratings will protect the camera from harsh weather conditions and impacts. With built-in wiper, the staff can remotely clean the network camera to ensure that useful images can be obtained even in heavy rain.

Excellent image quality regardless of light conditions

Big Tree is surrounded by hills and trees and rarely has light during the night time. Both network cameras feature Axis Lightfinder technology which can deliver high-resolution, full color video even in near darkness. This technology can help recognize and identify potential wildfires in large open areas even in poor light or complete darkness.

