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## CASE STUDY

### ACER RESORT

INTRUSION DETECTION

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# BACKGROUND

- Acer's Aspire Resort Park
- Businesses, hotels and residential units
- 400,000 sq. meter smart city park
- 200+ CCTV surveillance cameras
- 2 solar farms





## CHALLENGE

#### Too Many False Positives

#### Legacy 'Virtual Fence'

Detected objects based on movement, size, position, and object temperature

Could not determine specific object types

Triggered false alarms on:

Leaves

Branches

□ Noisy video

- □ Moving shadows
- □ Faint objects



Legacy infrared sensor

# SOLUTION

Increased accuracy With AI-Enabled Intrusion Detection



#### Vaidio Video Intelligence Platform

- Intelligent object and person detection
- Accurately detect small and partial objects
- Al filters out irrelevant objects even in difficult and complex environments
- □ Customizable detection conditions
- □ Single FOV supports multiple ROIs
- Set condition time, object type, quantity, color
- □ Supports irregular (polygon) ROI
- □ Significantly reduced false alarms



Reduced False Positives by **Orders of Magnitude** 

## SYSTEM DIAGRAM



VAIDIO

#### SYSTEM ARCHITECTURE & CAMERA





#### **CAMERA DISTRIBUTION**



## **INSTALLATION OVERVIEW**





Camera Distribution



Satellite view









### SAMPLE DETECTION RESULTS

Resolution: 1080p Focal length: 13 mm PPM: 69.4 **Imager: 4.8"** HFoV**: 21"** Distance: 75 m

Width: 27.7 m





#### **REDUCING FALSE ALARMS**



- Legacy systems often generate 10-20 false alarms per day per camera
- Even 5-10 false alarms per camera across 200 cameras renders the system unusable and ineffective
- The Vaidio Video Intelligence
  Platform reduces false alarms to ....
  - Single Digits. Across all cameras. Per month.





#### **SUMMARY**

# ACER RESORT

- Legacy system produced too many false alarms
- Vaidio reduced false alarms across 200 cameras to single digits per month
- Increased accuracy reduced administrative overhead
- Vaidio works with any ONVIF IP camera and most 3<sup>rd</sup> party VMS's
- IronYun helps optimize project planning to decrease cost and maximize coverage and security



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#### ACCURATE VIDEO ANALYTICS

- □ 4<sup>th</sup> gen Al video analytics
- □ Object-specific engines
- **Tunable** parameters
- □ More processing power



#### REDUCE FALSE POSITIVES BY ORDERS OF MAGNITUDE

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