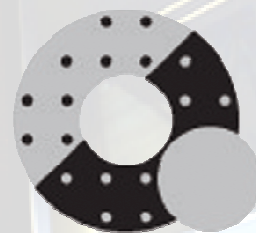
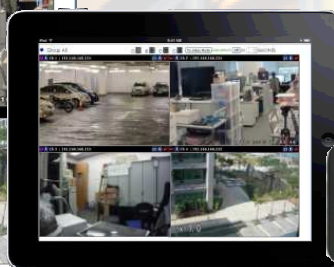
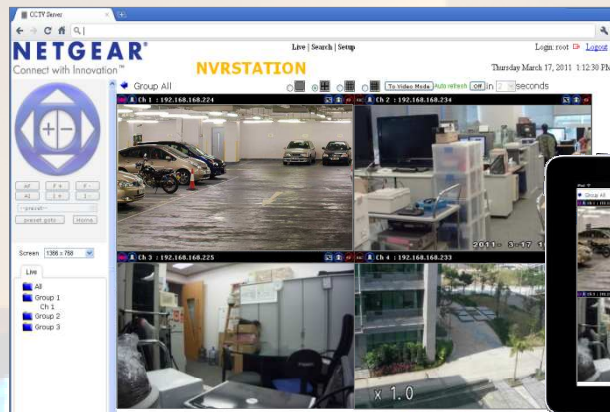




HIS HD Surveillance System



2012
香港工商業獎
HONG KONG AWARDS
FOR INDUSTRIES



NETGEAR®
Connect with Innovation™



Full HD
Recording



Audio
Recording



Smart Search



Live Monitoring



Various Display
Modes



Remote Access



Intelligent Video
Analytics



Failover



Alarm
Recording



Support Smart
Phone



Automation
Backup



USB Storage



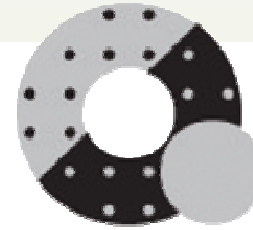
Timeline Search



E-map

HIS Technologies Limited

Awards for Industries



2012

香港工商業獎

HONG KONG AWARDS
FOR INDUSTRIES

Machinery and Machine Tools Design Certificate of Merit – HIS HD Video Management System

- utilizes advanced technologies to capture videos at **High Definition (HD) quality (1920x1080P@30fps)** ;
- coverage is almost 4 times higher than that of the traditional ones;
- supports two-way HD video communications between multiple locations with low latency;
- enables remote access for real-time display and playback



Applications of the HD Video Management System:



HD V-comm System



HD Surveillance System



HD Broadcasting System

HD Surveillance System

1. HD Camera

- Full HD 1920 x 1080P (30 fps)
- 10x optical zoom
- Motion detection



Fixed Cam



10x Zoom Cam



Dome Cam



Speed Dome

2. Network

- Cat5e Cable
- Optical Fibre
- Wireless Access Point (AP)
- Coaxial Cable



*COFDM Wireless AP
(5.8GHz)*



Network over Coaxial



CWDM SFP Transceiver

3. NVR

- HD Recording
- Playback



Live Video on TV Wall



*CODEC Card
for TV Wall*



NVR – Recording & VMS

High Definition NVR



Complete Recording Features:

- Supports 4/ 12/ 24/ 48 Full HD Channels (1080P Recording)
- WAN-based Recording
- Multi-resolution Live Playback
- E-map

Easy-to-use:

- Timeline Search
- Various Display Modes
- Smart Phone Apps Support

Secure Solutions:

- NVR Failover Automation
- Storage Failover Automation
- Multi-level Stacked Recording
- External Alarm Box Support
- Automatic Storage Backup

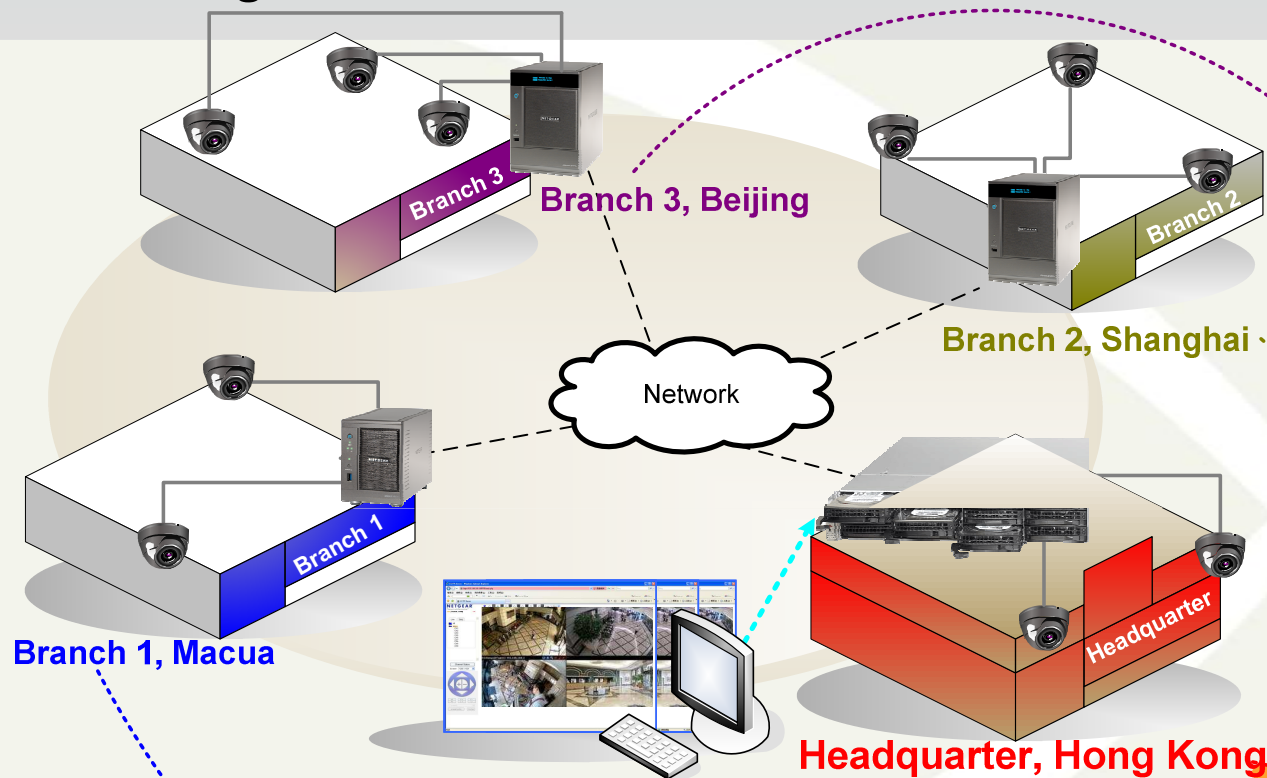
Intelligent Video Analysis (IVA):

- IVA Search including Motion, Missing Objects, Invasion and Foreign Object Detections
- License Plate (LP) Search



Deployment : Company with multiple branches

HD Remote Monitoring

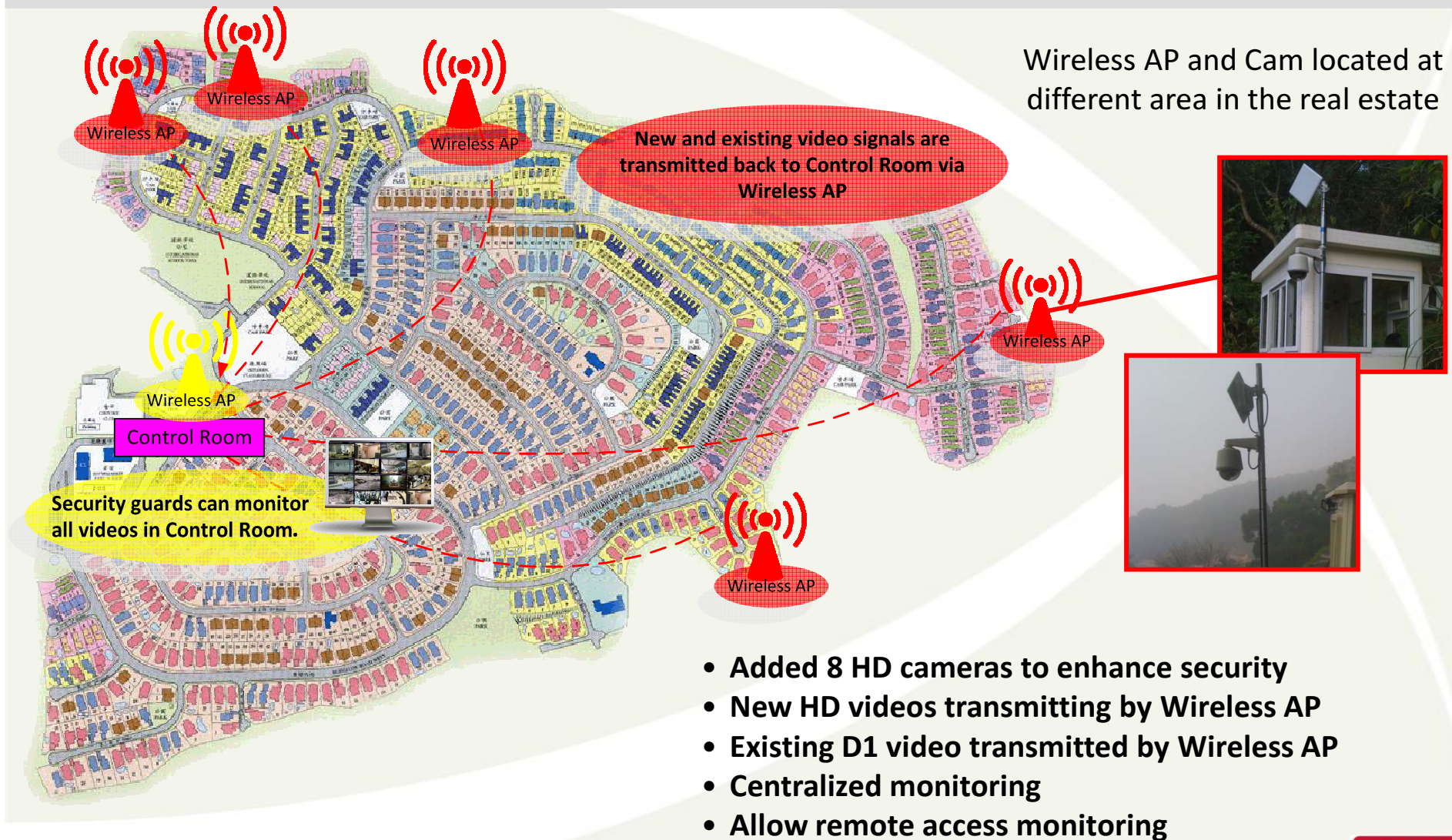


Live or playback by Remote PC
to monitor all branches and
headquarter.

Remote Monitoring by LAN or WAN

Deployment: Low-rise Real Estate (1 of 2)

HD Surveillance System with Wireless Infrastructure



Deployment: Low-rise Real Estate (2 of 2)

HD Surveillance System with Wireless Infrastructure



WirelessAP.20 km



WirelessAP.5 km

- Max. 20km long distance
- IP67 / IP65 Protection (Weatherproof & dust proof)
- Point-to-point or multi-points wireless transmission
- Secure data transmission (128bit AES Encryption)
- HK OFTA regulation compliant
- License-exempt 5.8 GHz frequency

Before Installation:



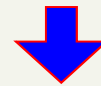
After Installation:



Deployment: Real Estate

HD Surveillance System with Fiber Infrastructure

Before Installation



After Installation



Control Room

- Re-arranged existing SD video display and recording
- Allows remote access: log-in to system via computer

New TV Wall

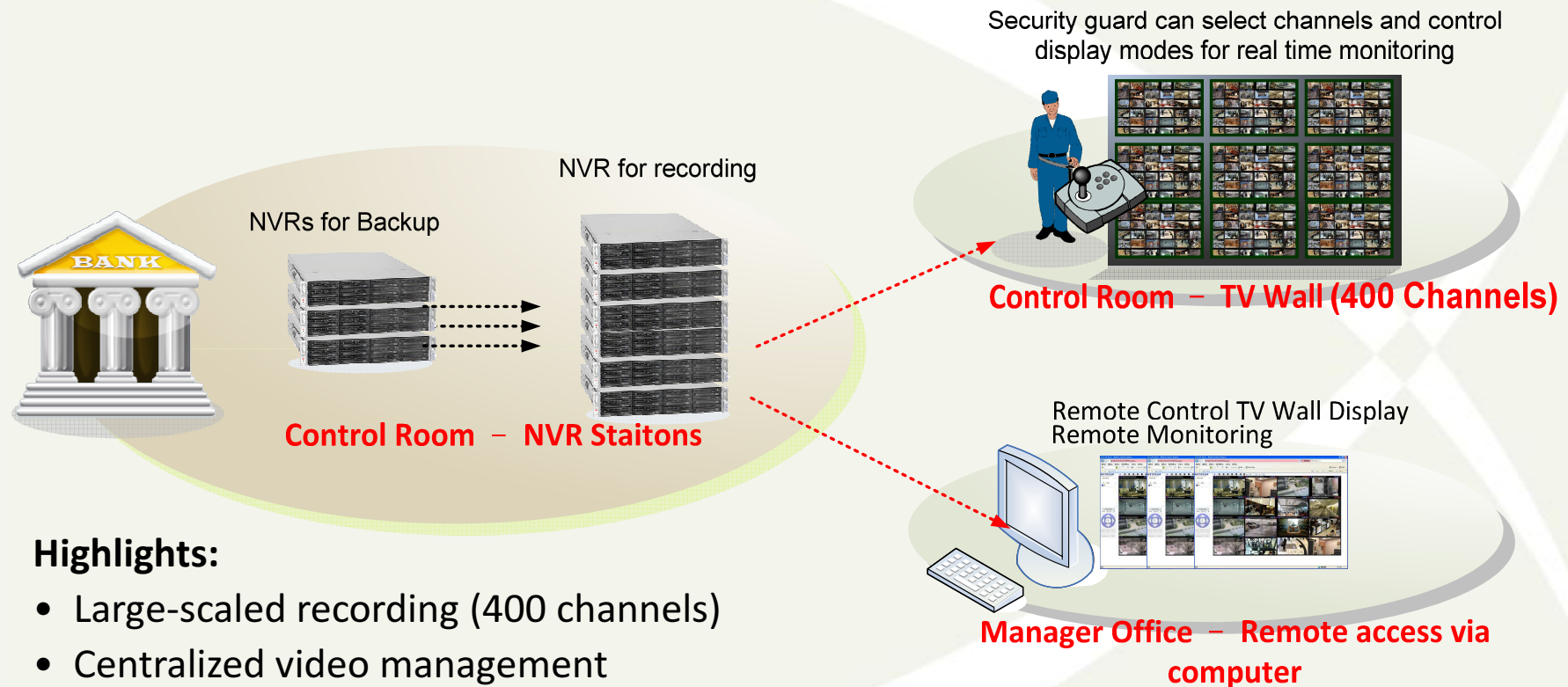
- Newly added HD Cam x 25

12-bay NVR

- Outdoor Fiber Cable
- Outdoor Cat5e Cable

Deployment: Banking Industry

D1 & HD surveillance system high security, stability, scalability and reliability



Highlights:

- Large-scaled recording (400 channels)
- Centralized video management
- Automatic failover system
- Bank level security
- Allows remote monitoring and remote control TV wall display
- Compatible with various IP cameras

Compatible with Various HD Camera



HIS NVR Features Overview

Real-Time Monitoring

- Diversified modes for live monitoring
- Multi-server monitoring (Multi-RTSP)
- PTZ & speed dome
- Preset position
- Digital zoom
- Event notification by on screen display (OSD)
- Video snapshot
- E-map
- Instant action - snapshot, play audio

Recording Features

- Continuous recording, manual recording & schedule recording
- Alarm recording
- Alarm recording schedule
- User-defined action recording (e.g. motion detection, tampering etc.)
- Pre-alarm, and post-alarm recordings
- Codec: H.264 / MPEG4 / MJPEG
- Audio recording

Event Overview

- Motion detection
- Alarm input
- Connection failure
- Recording failure
- User-defined event

User Notification

- SMS
- Email
- Buzzer
- User-defined Action

Security Control

- Authority management (Define User Roles & Authority)
- Auto logoff
- Host access control
- On-line user list
- Detailed event and system logs (include users' networking services and recording data access record)

Search Features

- Data search by timeline
- Data search by event
- Data search by intelligent Video Analytics (IVA)
- Playback control – fast forward and back forward
- Schedule remote replication to NAS for video backup
- Backup to external USB storage

Backup

- Scheduled backup
- Secured remote backup with compression & encryption
- External USB storage

Others

- Intelligent auto power on after power recovery
- Support UPS
- Advanced RAID
- Online RAID capacity expansion
- Online RAID level migration
- Easy configuration and management
- Smart search of IP cameras for quick configuration
- Quick links to network cameras

Reference Cases

Singapore Civil Defense Force (SCDF)



- Distance between Jurong Island (裕廊島) and the Headquarters: about **25km**
- The Headquarters of SCDF in the Eastern part of Singapore controls the Pan/Tilt/Zoom of the cameras in Jurong Island
- The real-time HD videos captured at Jurong Island are transmitted through the optical network to the Headquarters.

Civil Defence Academy, Singapore



- Civil Defence Academy (CDA) provides training to Global Partners
- All training are recorded in HD quality video
- Real-time HD live videos can be transmitted to the SCDF Headquarters (Virtual Classroom in HD)

NSTI, Singapore



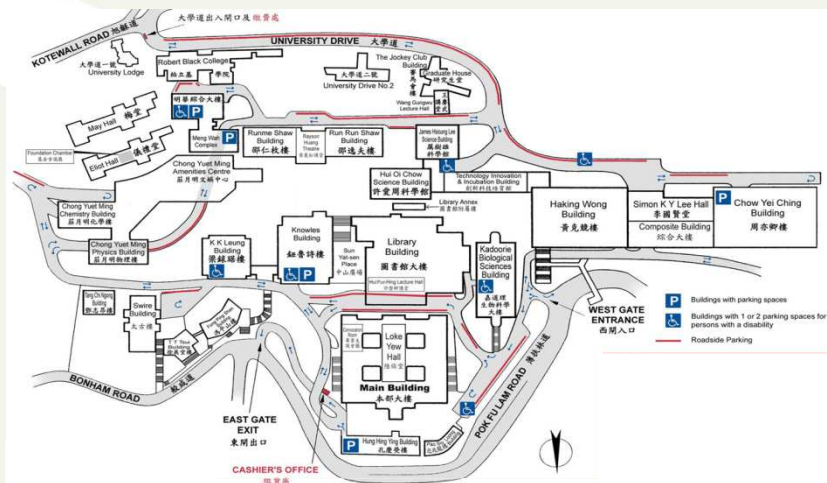
- National Service Training Institute (NSTI) offers UN approved rescue training
- All training are recorded in HD quality video
- Real-time HD live videos can be transmitted to the SCDF Headquarters (Virtual Classroom in HD)



The University of Hong Kong

Highlights

- 150 cameras among main campus
- SD & HD Camera with Night-vision
- Network Infrastructure by Optical Fiber
- Over 150 Videos on TV wall
- Digitalized Video storage
- Easy-to-use Video Management Software
- Scalable upto 500 cameras



Hong Lok Yuen, Taipo, HK



- Added 8 HD cameras to enhance security
- HD videos transmitting by Wireless AP
- Existing D1 video transmitted by Wireless AP
- Centralized monitoring
- Allow remote access monitoring

Before Installation:



After Installation:



Villa Rhapsody, Saikung, HK



Villa Rhapsody is a middle low-rise real estate located at Sai Kung.
Project: 26 HD Cameras with Fiber Infrastructure.

Before: Installation



Equipments include:

- Full HD Cam (1920x1080p)x 26
- NVR x 1
- HD Codec Card x 25
- Network Switch
- Outdoor Fiber
- Outdoor Cat5e Cable

After Installation



Beach Village, Discovery Bay

Beach Village of Discovery Bay is a middle low-rise real estate located at Lantau Island.

Project: 10 HD Cameras with COFDM wireless Infrastructure.



Neo Horizon, Discovery Bay



Neo Horizon of Discovery Bay is a high-rise real estate located at Lantau Island.

Project: 15 HD Cameras with COFDM wireless Infrastructure.



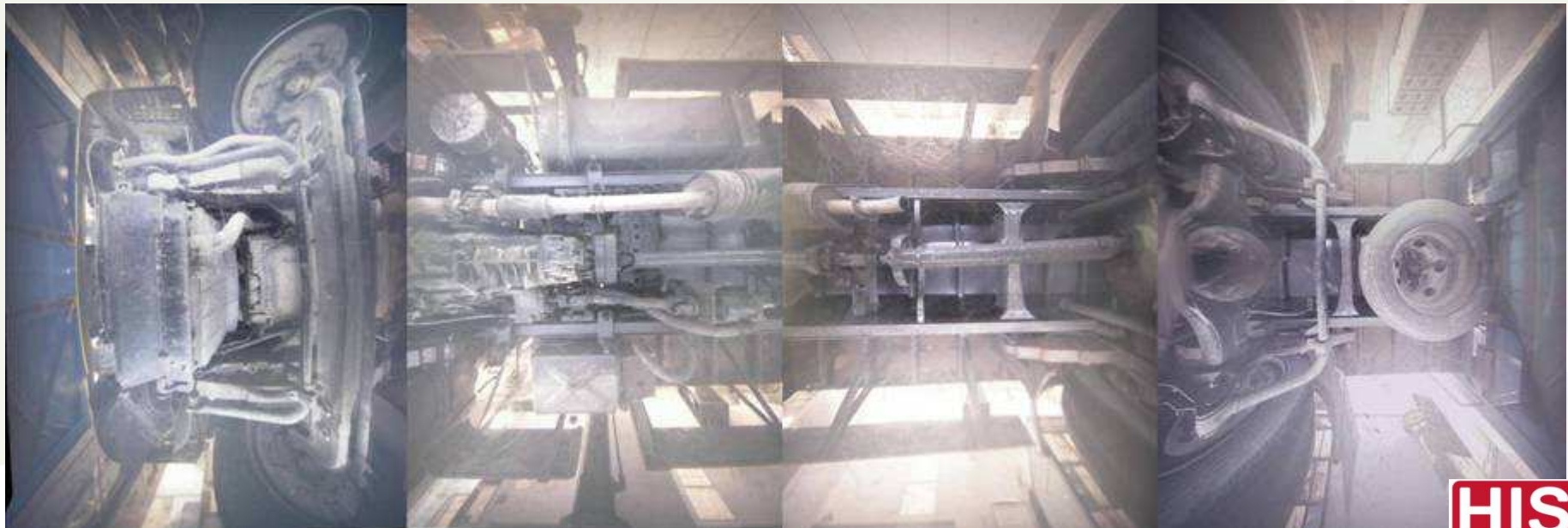
Correctional Services Department



Under Vehicle Surveillance System (UVSS) specialized for CSD

Objective:

Scans, monitors and digitally records HD video images of the undercarriage of vehicles for explosive, attached packages and/or forbidden objects



Project References in HK



- **HSBC**
(Coaxial-based, High-Secured CCTV System)



- **Correctional Services Dept (CSD),
Government of HKSAR**



- **University of Hong Kong**
(Large Scale, High-Secured CCTV System)
- **Robert Black College of HKU**
(Campus-wide Surveillance System)



- **Discovery Bay**
(Low-density real estate)



- **Chi Fu Fa Yuen**
(High-rise real estate)



- **Eastern Harbor Tunnel**
(Public transports facility)

HIS Professional Technical Team

Professor Chinlon Lin

Scientific Advisor

- Inventor of tunable infrared fiber Raman lasers, dispersion-shifted fibers (DSF) and dispersion-compensating fibers (DCF).
- Ex-Director of Broadband Lightwave Systems Research at Bellcore (Bell Communications Research)
- Fellow Member of IEEE Photonics Society and OSA (Optical Society of America)

Mr. Boris Chan

Founder & CTO

- Doctor of Philosophy (Cand.) in Computer Science
- Master of Philosophy in Computer Science
- Professional Member of ACM

Dr. Jacob Sun

Senior System Engineer

- Doctor of Philosophy in Electronic Engineering
- Over 10 years' experience in engineering industry



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