

Central Kowloon Route (CKR) Newsletter





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當過高的車輛意外通過建造中的橋樑時,可能會對臨時支撐和工作平台造成損壞,導致嚴重後果,例如道路損 壞、工地設施及車輛損毀,甚至可能引發人命傷亡。這些意外也可能導致道路需要封閉和嚴重交通擁堵。使用 智能超高車輛偵測系統可以有效減少因封路而對交通的影響。

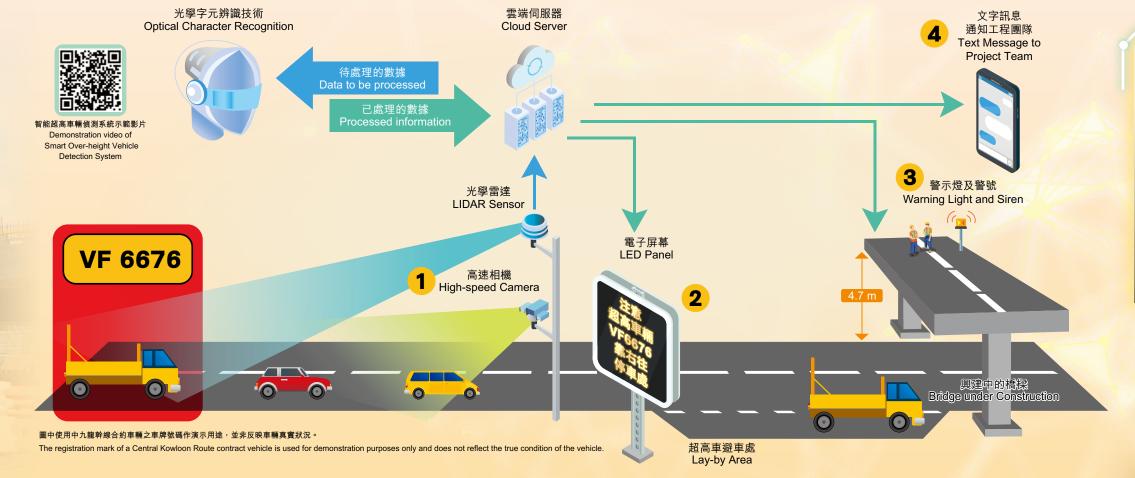
When over-height vehicles accidentally pass under a bridge under construction, they may cause damage to the temporary structure and working platform, leading to serious consequences such as damage to road, construction facilities and vehicles, and even possible casualties. Such accidents can also lead to road closures and significant traffic congestion. The implementation of Smart Over-height Vehicle Detection System can effectively reduce the traffic impact of road closures.

中九龍幹線油麻地西工程團隊成立的一個專項小組,成功在香港研發了首套「智 能超高車輛偵測系統」。這套系統採用先進技術,全天候偵測道路上的超高車輛。 系統檢測到超高車輛後會於3秒內顯示包括車牌號碼在內的警告信息,以提醒駕 駛者將超高車輛於天橋前的避車處停下,從而保障道路使用者和橋上工人的安全。 油麻地西工程於 2022 年 4 月開始應用「智能超高車輛偵測系統」,系統在提前 攔截超高車輛方面取得了非常成功的效果,使用後沒有發生超高車輛撞橋事故。 這個系統亦推展到中九龍幹線啟德東工程合約,以進一步提高工地安全。

The Central Kowloon Route Yau Ma Tei West project team established a task force and successfully developed the first "Smart Over-height Vehicle Detection System" (Smart OVDS) in Hong Kong. The system adopts advanced technology to detect over-height vehicles on the road round the clock. When an over-height vehicle is detected, the system will display a warning message within 3 seconds, including the vehicle's registration number, to alert the driver to move the overheight vehicle to the lay-by area in front of the bridge, ensuring the safety of both road users and workers on the bridge. The Yau Ma Tei West Contract implemented the Smart OVDS in April 2022. The system has been proven very successful in soft-stopping over-height vehicles and there has no bridge collision incidents. The system has also been extended to the Central Kowloon Route Kai Tak East Contract to further enhance site safety.



位於油麻地的光學雷達和高速相機正在掃瞄車輛高度和車輛號碼 The LiDAR sensor and high-speed camera at Yau Ma Tei are scanning the vehicle height and the registration mark



系統設有光學雷達及高速相機,能準確偵測駛經車輛的高度,並利用人工 智能實時分析車牌號碼。

The system is equipped with LiDAR sensor and high-speed camera which can precisely detect the height of passing vehicles and leverages artificial intelligence (AI) to identify vehicle registration marks in real time.

一旦發現超高車輛,路旁的電子屏幕會顯示警告訊息及超高車輛車牌號碼 提醒司機將超高車輛駛至避車處。

啟德東工程合約應用「智能超高車輛偵測系統 | 之路段

Upon detecting an over-height vehicle, a warning message which includes the over-height vehicle registration mark, is displayed on the LED panel at the roadside to alert the driver to move the over-height vehicle to the lay-by area.

同時,施工範圍旁邊的警示燈會亮起及發出警號,提醒橋上工人盡快疏散。 Warning lights and sirens positioned at the works site are activated simultaneously to ensure swift evacuation of workers from the bridge.

雲端伺服器亦會即時發送訊息通知工程團隊協助超高車輛離開。 The cloud server also promptly sends a message to notify the project team to assist in the departure of over-height vehicles.

電子屏幕顯示警告訊息及超高 車輛車牌號碼

he Government of the Hong Kond

《專利條例》(第514章)

CERTIFICATE OF GRANT OF SHORT-TERM PATENT

Patents Ordinance (Chapter 514)

茲證明下述短期專利在今日批予:

I hereby certify that a short-term patent with the following particulars has been granted today:

惠利編號 Patent No.: HK30081506 由請編號 Application No.: 32023068467.4

專利所有人姓名或名稱及地址 Name and Address of Proprietor

香港特別行政區政府

6th Floor, Ho Man Tin Government Offices, 88 Chung Hau Street, Ho Man Tin, Kowloon

Suite 3005, 30/F, AIA Kowloon Tower, 100 How Ming Street, Kwun Tong, Kowloon Hong Kong

發明名稱 Title of Invention:

OVER-HEIGHT VEHICLE DETECTION SYSTEM AND METHOD

短期專利有效期 (在符合續期的規定下) Term of Short-term Patent (subject to renewal): 由 16.02.2023 起計 8 年 Eight years commencing on 16.02.2023

系統獲得知識產權署批予短期專利予香港特 別行政區政府和服務供應商。

The system has been granted a short-term patent to the Government of Hong Kong SAR and the service provider by the Intellectual Property Department.



工程團隊一直積極推廣「智能超高車輛偵測系統」在建造業的應用 旨在為所有工人創造更安全的工作環境。

The project team actively promotes the application of Smart OVDS within the construction industry, aiming to create a safer working environment for all workers.



The project team was awarded the Innovation Organization Award

- Excellence Award (Large Organizations) in the HKMA/HKT Global ovation Award 2022/23 for the Smart OVDS.

工程進度

Works Progress





油麻地

Yau Ma Tei







cut-and-cover tunnel

Tunnel near the Kai Tak runway





何文田 Ho Man Tin









九龍灣

Kowloon Bay



利是封回收重用大行動 2024 Red Packets Reuse & Recycle Program 2024

高級文憑學生參觀社區聯絡中心

龍年賀歲 Lunar New Year Greetings to Community

矚目活動 (2024年1月至3月) Event Highlights (January to March 2024)

中九龍幹線 - 龍年揮毫迎新歲 Central Kowloon Route Fai Chun Writing Workshop for the Year of the Dragon





如對工程有任何疑問及意見,可透過以下方法聯絡我們

馬頭角社區聯絡中心

Central Tunnel

Buildings, Electrical and Mechanical Works

Should you have any enquiries or comments on the project, please contact us via the following channels

路政署 - 中九龍幹線

Yau Ma Tei West 5331 5330

24 小時熱線電話 24-hour Hotline **Highways Department - Central Kowloon Route Project**

Kai Tak West

Highways Department
Central Kowloon Route Project

電話 Telephone : 2762 3601 電郵 E-mail : enquiry@ckr-hyd.hk 细址 Website : www.ckr-hyd.hk

Ma Tau Kok Community Liaison Centre 電話 Telephone : 3793 3493

電郵 E-mail : pro@ckr-ktw.com 地址 Address

:土瓜灣朗月街 12 號(偉恒昌新邨 星期六 - 早上 9 時至下午 1 時 偉景閣 H 座對面) 星期日及公眾假期 - 休息 12 Long Yuet Street, To Kwa Opening Hours:

開放時間: 星期一至五 - 下午 1 時至下午 6 時

Wan (Opposite to Wei Chien Monday to Friday - 1:00p.m. — 6:00p.m. Court, Block H, Wyler Gardens) Saturday - 9:00a.m. — 1:00p.m. Sunday & Public Holidays - Closed

中九龍幹線通訊一意見表 CKR Newsletter Suggestion Form















Structural works of Kai Tak Ventilation Building at Yau Ma Tei Interchange Building and Administration Building at

Buildings, Electrical and Mechanical Works