



# ADVANTECH

## Mission

Enabling an Intelligent Planet

## Revenue

USD \$1.76 Billion (2019)

## Market Cap

USD \$7.4 Billion (Sep 24, 2020)

## Service Field

Industry 4.0, Industry IoT,

Embedded Computing,

Smart City (Medical, Retail, Logistics)

Serve Worldwide IoT Solution Integrators



# Worldwide Presence

**3** Manufacturing Sites

**4** Logistics Centers

**14** Service Centers

**27** Countries

America  
540pp

Europe  
530pp

China  
3,400pp

Taiwan  
3,100pp

N. Asia & SAP  
670pp



# Advantech Business Group

## Embedded Core & IoT Modules

- Computer on Modules
- Single Board Computers
- Industrial Motherboards
- ARM-based Computing
- Embedded Box Computers
- E2I/Connected Appliances
- Edge AI Solutions
- DeviceON Software Modules

## Embedded-IoT

- Industrial Display Solutions
- Industrial Flash Storage (SQFlash)
- Embedded Wireless Modules
- Gaming Platform Solutions

## Applied Computing DMS

- Medical Equipment Builder
- Panel Computing & Automation
- IoT Appliance Services
- ARM & Portable Computing
- Modular Board Design Services
- Region DMS: ATJ/Japan, AKTC/China

**WISE-PaaS & WP.SENSE**  
IoT Edge Intelligence PaaS &  
Solution Enabling Services

**ADVANTECH**

Enabling an Intelligent Planet

## Allied Procurement Services

- Industrial Display
- Industrial Power Solutions
- System Core

## Global & Regional Services

- Customization & CTOS Services
- Technical Support & Repair Services

## Industrial-IoT

### Industrial Automation

- Industrial I/O & Controllers
- Automation Computing & HMI
- Motion Controls & Machine Vision
- Remote IoT Devices (WISE)
- WebAccess+ Software
- iFactory (Industry 4.0) Solutions
- Energy & Environment Solutions

### Intelligent Systems

- Industrial Computers
- Industrial Servers & Storage
- Transportation Solutions

### iConnectivity

- Industrial Switches
- Industrial Wireless Devices
- Industrial Cellular Routers

## Cloud-IoT

- Industrial Private Cloud
- Industrial Blade Platforms
- Enterprise Network Platforms
- Medical Video & Image Solutions
- Broadcasting & IP Video Solutions
- Data Center Video Solutions

## Service-IoT

### Intelligent Healthcare

- Medical Computing & Medical Imaging
- Intelligent Hospital & Mobility Solutions

### Intelligent City Service

- AIO Edge Touch Computer
- Self-service Kiosk & POS solution

### Intelligent Logistics

- Fleet Safety & Cold Chain Management Solutions
- In-Vehicle & Rugged Computing Solutions

### AIM Industrial Mobile Computers



# Best Taiwan Global Brands 2019

## Interbrand

01



-4% 1,549 \$m

02



+3% 1,532 \$m

03



+5% 937 \$m

04



+0% 604 \$m

05



+11% 556 \$m

06



+7% 481 \$m

07



-3% 446 \$m

08



+6% 428 \$m

09



-3% 405 \$m

10



+7% 379 \$m

11



+8% 354 \$m

12



+2% 312 \$m

13



+16% 304 \$m

14



+12% 297 \$m

15



-4% 288 \$m

16



+3% 229 \$m

17



+5% 147 \$m

18



-9% 125 \$m

19



+18% 115 \$m

20



New 100 \$m

Year	Rank	Brand Value (USD M)
2003	11	N/A
2004	10	195
2005	11	N/A
2006	12	N/A
2007	13	232
2008	10	299
2009	12	204
2010	12	197
2011	10	241
2012	11	260
2013	12	260
2014	10	323
2015	7	386
2016	6	436
2017	6	484
2018	5	500
2019	5	556



# World Market Share Industrial PCs

Supplier	Ranking	%
Advantech	1	34.0%
Siemens	2	9.0%
Beckhoff	3	6.0%
IEI Technology	4	4.0%
Kontron	5	3.5%
Other Suppliers		43.5%

Advantech IPC WW Market Share

34%



# Nikkei Asia 300 Company

- Asia300実力企業ランキング(2018年7月)  
全体：25位  
うち、台湾企業：5位



	COMPANY (Country)		
1	Largan Precision (Taiwan)	21	CK Asset Holdings (China/Hong Kong)
2	HCL Technologies (India)	22	ITC (India)
3	Bumi Serpong Damai (Indonesia)	23	China Overseas Land & Investment (China/Hong Kong)
4	Tencent Holdings (China/Hong Kong)	24	Eclat Textile (Taiwan)
4	Taiwan Semiconductor Manufacturing Co. (TSMC) (Taiwan)	25	Advantech (Taiwan)
6	Kweichow Moutai (China/Hong Kong)	26	Baidu (China/Hong Kong)
7	Celltrion (South Korea)	27	SK Hynix (South Korea)
8	Alibaba Group Holding (China/Hong Kong)	28	Naver (South Korea)
9	Tata Consultancy Services (India)	29	Dabur India (India)
10	Airports of Thailand (Thailand)	30	Henderson Land Development (China/Hong Kong)
11	Hartalega Holdings (Malaysia)	31	Telekomunikasi Indonesia (Indonesia)
12	Guangzhou Automobile Group (China/Hong Kong)	32	Asian Paints (India)
13	Infosys (India)	33	Vedanta (India)
14	Zee Entertainment Enterprises (India)	33	Godrej Consumer Products (India)
15	Catcher Technology (Taiwan)	35	LG Household & Health Care (South Korea)
16	Vietnam Dairy Products (Vinamilk) (Vietnam)	36	Hero MotoCorp (India)
17	Anhui Conch Cement (China/Hong Kong)	37	Nanya Technology (Taiwan)
18	Central Pattana (Thailand)	38	Gudang Garam (Indonesia)
19	Tambang Batubara Bukit Asam (Indonesia)	39	AirAsia (Malaysia)
20	Maruti Suzuki India (India)	40	Chongqing Changan Automobile (China/Hong Kong)



# 2019 Top Industrial IoT Companies



## IoT ONE 2019 Top 500 Industrial IoT Companies

01 <b>SIEMENS</b>	02 <b>ptc</b> <small>Company Name Year Founded</small>	03 <b>ABB</b> <small>1888</small>	04 <b>intel</b>	05 <b>Schneider Electric</b>
06 <b>Honeywell</b>	07 <b>HUAWEI</b>	08 <b>SAP</b>	09 <b>ADVANTECH</b> <small>Leading an Intelligent Planet</small>	10 <b>BOSCH</b>

## IoT ONE Embedded Computing 10 (2019)

01 <b>intel</b>	02 <b>ADVANTECH</b> <small>Leading an Intelligent Planet</small>	03 <b>NXP</b>	04 <b>M</b>	05 <b>MITSUBISHI ELECTRIC</b> <small>Changes for the Better</small>
06 <b>arm</b>	07 <b>SILICON LABS</b>	08 <b>MICROCHIP</b>	09 <b>AMD</b>	10 <b>DELL</b>



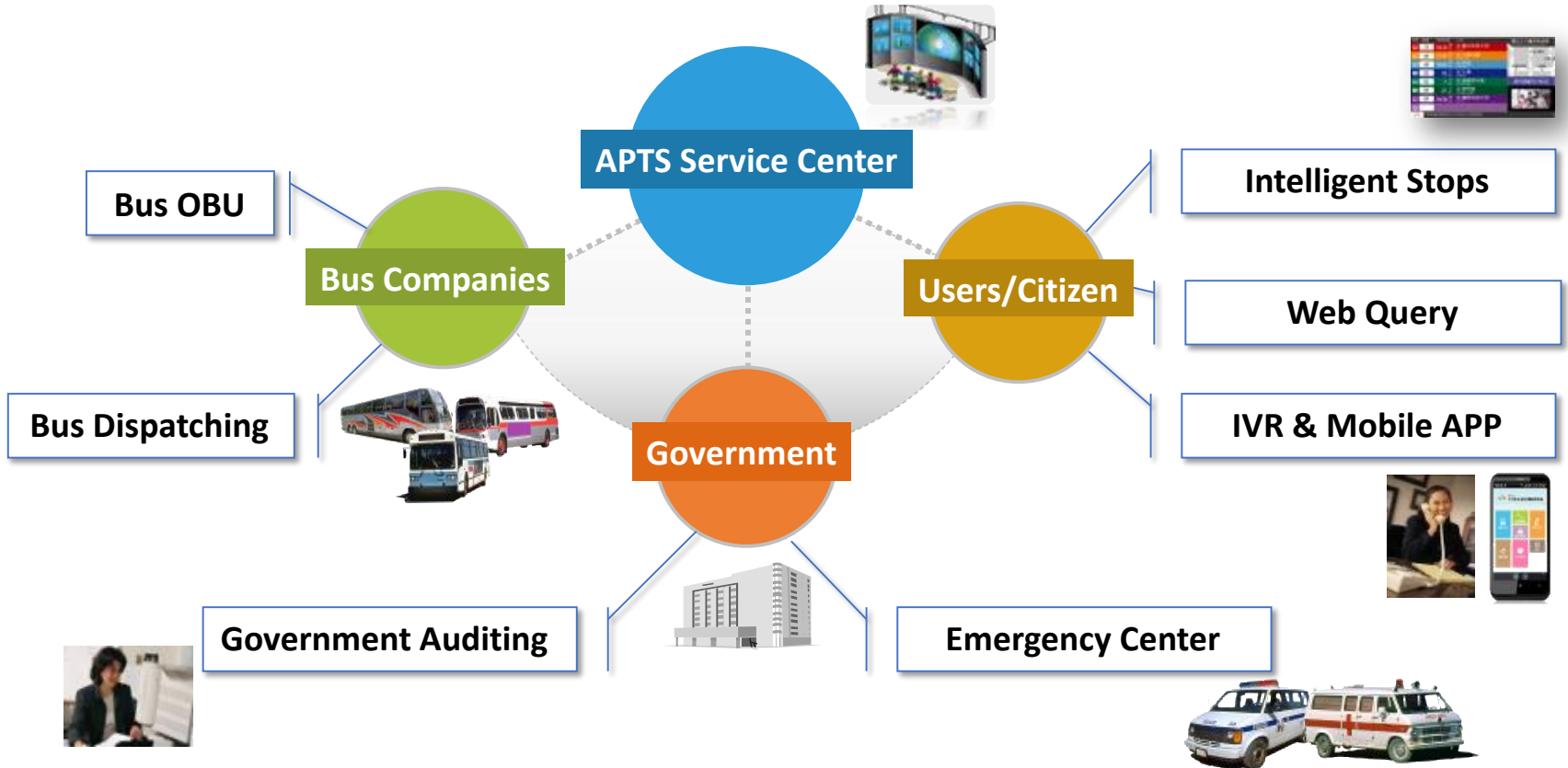
Source: IoTONE.com (2019)

Only the Top 25 Industrial IoT companies are shown in the IoT ONE Leaderboard Chart

# Advanced Public Transportation Service (APTS)



# Advanced Public Transportation Service (APTS)



# Fleet Management Service (FMS)

## Fleet Management System

- Vehicle Monitoring
- Vehicle Group Monitoring
- Vehicle Driving History & Playback
- Route Operation & Business Planning
- Estimated Arrival Time
- Bus Utilization And Punctuality Rate Analysis
- Travel Planner

## Stop Monitor & Management

- Power Supply Status And Duration Of Disconnection
- Multimedia Info. Push Management
- Stop/Station Type And Location
- Stop Communication Status Report
- Setup Status Inquiry
- Efficiency Report

## Data Report System

- Event Statistics
- Abnormal Stay Statistics
- Arrivals And Departures Statistics
- Vehicle Registration Statistics
- Qualified Trip Statistics
- Driving man-hour statistics
- Other Report

## Energy Analysis

- Vehicle Comprehensive Event Access Service
- Grasp Driver's Driving Behavior
- Safety & Abnormal Events Warnings Reports
- Smart Energy-saving Analysis And Grouping

- OTA Service (Recipe、S/W、Firmware Download Over The Air)
- Station Information Updated Synchronously

- System Integration Interface Verification And Certification Services
- Real-time Dynamic Computing And Distribution Services

## APTS Service Platform

# Vehicle Tracking System-Monitor The Position, Speed, And Status Of Buses With Integrated Panels

Vehicle Favourite Playback Driving history Analysis Data Configuration Update time:13:18:27 mwRoger Logout

中興巴士(新北) 指南客運(新北) 首都客運(新北) 基隆客運(新北) 淡水客運(新北) 新北客運(新北) 新店客運(新北) 臺北客運(新北) maxwin 三福氣體LB

Quick Search

Fleet grouping

Passenger	Car id	Connect	Duty	Vehicle type	Last gps time	Value	Location
1	262-FZ	●	●	General large bus	2020-02-14 13:18:23	左前:30.9°C;acc off;前門關閉;後門...	新北市板橋區挹秀...
2	KKA-8058	●	●	General large bus	2020-02-14 13:18:23	左前:21.4°C;	新北市泰山區黎明...
3	FAB-708	●	●	General large bus	2020-02-14 13:18:13	左前:28.4°C;	臺北市信義區西村...
4	KKA-8038	●	●	General large bus	2020-02-14 13:18:21	左前:25.0°C;	新北市板橋區聯翠...
5	285-U5	●	●	General large bus	2020-02-14 12:34:39	左前:27.5°C;	948 Back 新北市林口區南勢里
6	KKA-8019	●	●	General large bus	2020-02-14 09:39:19	左前:22.0°C;	910 Back 新北市三峽區嵩山里
7	KKA-8020	●	●	General large bus	2020-02-14 11:05:35	左前:18.4°C;	Back 新北市三峽區嵩山...
8	280-U5	●	●	General large bus	2020-02-14 11:54:31	左前:24.0°C;	948 Go 新北市林口區南勢里
9	KKA-8037	●	●	General large bus	2020-02-14 10:14:28	左後:20.4°C;	939 Back 新北市三峽區龍埔里
10	KKA-8037	●	●	General large bus	2020-02-14 13:11:22	左前:17.7°C;	920 Back 新北市林口區南勢里
11	KKA-8059	●	●	General large bus	2020-02-14 09:00:32	左前:37.2°C;	Back 新北市蘆洲區正義里

Monitor Vehicle Status

Vehicle Basic Information

Car id: KKA-8058  
Speed: 2054Tran  
Speed: 46Km/h  
Whether it exists: Yes

Dynamic Event Log

Car id	Event	Start time	Location	End time	Value
1	rear blind zone	2020-02-14 13:18:23	新北市板橋區挹秀里府中路	2020-02-14 13:18:23	rear,unReversing
2	left blind spot warning	2020-02-14 13:18:23	新北市板橋區挹秀里府中路	2020-02-14 13:18:23	00011,Light Off
3	right inner wheel warning	2020-02-14 13:18:23	新北市板橋區挹秀里府中路	2020-02-14 13:18:23	2,0
4	left inner wheel warning	2020-02-14 13:18:23	新北市板橋區挹秀里府中路	2020-02-14 13:18:23	3,0
5	left inner wheel warning	2020-02-14 13:18:23	新北市泰山區黎明里中山...	2020-02-14 13:18:23	5,0
6	left blind spot warning	2020-02-14 13:18:23	新北市泰山區黎明里中山...	2020-02-14 13:18:23	00101,Light Off
7	video signal loss	2020-02-14 13:17:23	新北市板橋區聯翠里民生...	2020-02-14 13:17:23	Channel list:unKnow
8	right inner wheel warning	2020-02-14 13:18:22	新北市泰山區黎明里中山...	2020-02-14 13:18:22	3,1
9	right inner wheel warning	2020-02-14 13:18:21	新北市板橋區聯翠里民生...	2020-02-14 13:18:21	2,0

Vehicle OBDII Information

Mileage: 83017.00Km  
Travel time: 2Hour19Minutes  
Voltage: 27.8Volts  
Water tank temperature: 85.0°C  
Temperature/Humidity: 左前 21.4°C / 65.8%

# Vehicle Real-time Monitoring Screen

Vehicle Favourite Playback Driving history Analysis Data Configuration

山立通運 三重客運(新北) 大都會客運(新北) 中興巴士(新北) 指南客運(新北) 首都客運(新北) 基隆客運(新北) 淡水客

Passenger	Car id	Connect	Duty	Vehicle type	Last gps time	Value
1	三重客運(...)	063-U5	●	General large bus	2020-02-14 11:11:16	左前:21.9°C;
2	三重客運(...)	112-FZ	●	General large bus	2020-02-14 13:29:23	左前:17.4°C;
3	三重客運(...)	FAB-733	●	General large bus	2020-02-14 13:12:00	左前:29.5°C;
4	三重客運(...)	FAB-732	●	General large bus	2020-02-14 13:24:30	左前:19.0°C;acc off;前門關閉;後門...
5	三重客運(...)	065-U5	●	General large		0.9°C;
6	三重客運(...)	893-U5	●	General large		5.5°C;
7	三重客運(...)	892-U5	●	General large		8.8°C;
8	三重客運(...)	093-U5	●	General large		9.3°C;
9	三重客運(...)	093-U5	●	General large		2.3°C;

Focus on tracking  
**Tracking selected vehicles**  
 Only monitor the connected car  
 Monitor all cars  
 Show map  
**Instant image** **Front four-way image**  
 Send information to the car  
 Open the intercom

4 13:29:46 新北市蘆洲區中路里光華...  
 4 13:29:46 桃園市龜山區文化里復興...  
 4 13:29:45 新北市林口區中湖里  
 4 13:29:44 新北市林口區中湖里  
 4 13:29:41 桃園市龜山區文化里復興...  
 4 13:29:40 桃園市龜山區大湖里復興...  
 7 065-U5 left inner wheel warning 2020-02-14 13:29:39  
 8 112-FZ right blind spot warning 2020-02-14 13:29:36  
 9 093-U5 rear blind zone 2020-02-14 13:29:33

Bus Position On The Map

Front four-way image 車牌:KKA-8038

Regional Network External network

00000000 2020-02-14 13:36:00 00000000 2020-02-14 13:36:00

0.0000 E 0.0000 N 0km/H 0.0000 E 0.0000 N 0km/H

00000000 2020-02-14 13:36:00 00000000 2020-02-14 13:36:00

0.0000 E 0.0000 N 0km/H 0.0000 E 0.0000 N 0km/H

## Live/Recording Video

Top display Reserved event 10Minutes

OBDDII

Mileage: 418692.98Km  
 Travel time: 2Hour4Minutes  
 Voltage: 27.4Volts  
 Water tank temperature: 77.0°C

Temperature/Humidity

左前 20.9°C / 61.9%

Channel1  
 Channel2  
 Channel3  
 Channel4  
 Channel5  
 Channel6  
 Channel7  
 Channel8  
 Re-login

Value  
 3,0  
 10000,Light Off  
 3.26m/s³,Unsuccessful car  
 disappear,reversing  
 2.96m/s³,brakes  
 2,0  
 2,0  
 11000,Light Off  
 rear.unReversing

# Various Fleet Management Monitoring Services

**Fleet Overview**

車牌號碼	車種	狀態	設備	最後GPS紀錄	位置	備註	出廠年份	出廠廠牌
1 043-NH	轎車	●	●	2016-07-10 10:06:47	臺南市	●	2016-07-10 10:07:27	豐盛
2 041-NH	轎車	●	●	2016-07-10 10:06:35	臺南市	●		豐盛
3 775-FF	轎車	●	●	2016-07-10 10:06:35	臺南市	●		豐盛

Additional data shown below the table:

車牌號碼	車種	狀態	設備	最後GPS紀錄	位置	備註	出廠年份	出廠廠牌
1 043-NH	轎車	●	●	2016-07-10 10:06:47	臺南市	●	2016-07-10 10:07:27	豐盛
2 041-NH	轎車	●	●	2016-07-10 10:06:35	臺南市	●		豐盛
3 775-FF	轎車	●	●	2016-07-10 10:06:35	臺南市	●		豐盛

**Selected Car Monitoring**

Map showing a selected car's monitoring path (blue line) on a street map. The path starts at the top left and moves through several streets, ending at the bottom right. The map includes street names like Xuanhua St, Zhonghua St, and others.

**Multi-Vehicle Monitoring**

Map showing multiple vehicle monitoring points (red dots) scattered across a city area, likely Kaohsiung City. The map includes street names and district names like Zuoyue District and Dasha District.

**Multi-Window Monitoring**

Multi-window monitoring interface showing multiple maps of different areas, each displaying vehicle monitoring points. The windows are arranged in a grid, showing different geographical locations.

# Details Of Vehicle Driving History

車牌: 756-U8    時間: 2015-11-27 00:00 - 2015-11-28 07:28    地圖上路線:    去程 回程

Bus Quick Search

From-to-date

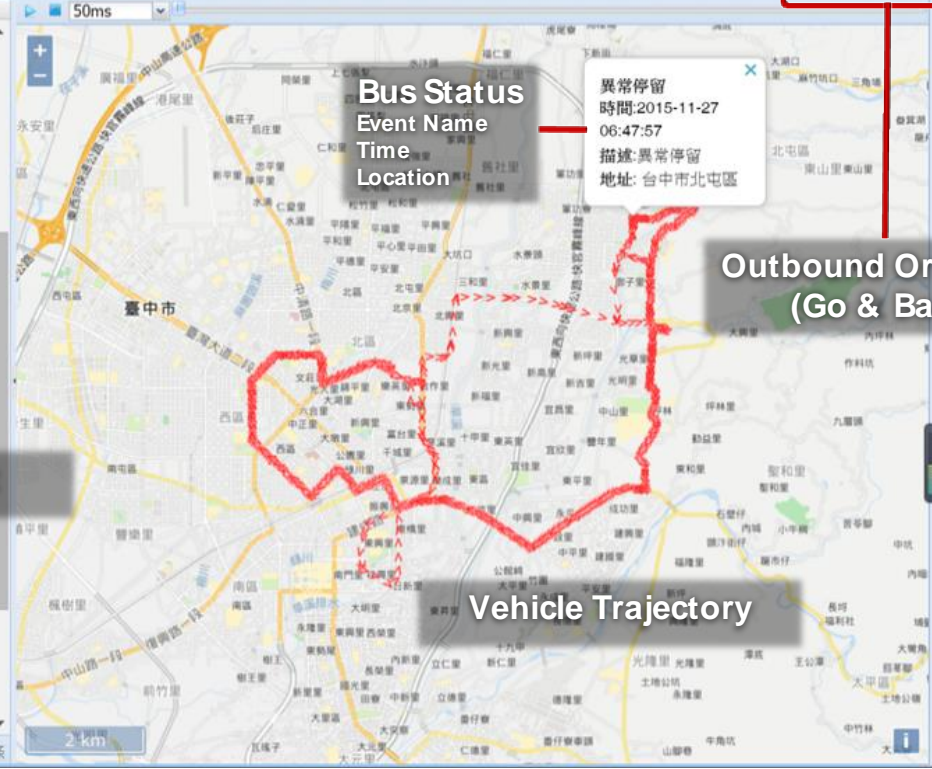
Bus Status  
Event Name  
Time  
Location

異常停留  
時間: 2015-11-27  
06:47:57  
描述: 異常停留  
地址: 台中市北屯區

Outbound Or Return  
(Go & Back)

Driving GPS & Event Log List

名稱	時間	描述
15 gps	2015-11-27 06:...	勤務: on; 速度: 0; 路線: 51; 方向: 回程; 行駛狀態: 0; gps...
16 gps	2015-11-27 06:...	勤務: on; 速度: 0; 路線: 51; 方向: 回程; 行駛狀態: 0; gps...
17 gps	2015-11-27 06:...	勤務: on; 速度: 0; 路線: 51; 方向: 回程; 行駛狀態: 0; gps...
19 gps	2015-11-27 06:...	勤務: on; 速度: 11; 路線: 51; 方向: 回程; 行駛狀態: 0; gps...
20 gps	2015-11-27 06:...	勤務: on; 速度: 15; 路線: 51; 方向: 回程; 行駛狀態: 0; gps...
21 gps	2015-11-27 06:...	勤務: on; 速度: 10; 路線: 51; 方向: 回程; 行駛狀態: 0; gps...
22 gps	2015-11-27 06:...	勤務: on; 速度: 0; 路線: 51; 方向: 回程; 行駛狀態: 0; gps...
23 切換路線	2015-11-27 06:...	輸入代碼: 51; 初始路線: 51; 新路線: 51; 方向: 未知; errc...
24 gps	2015-11-27 06:...	勤務: on; 速度: 0; 路線: 51; 方向: 回程; 行駛狀態: 0; gps...
25 gps	2015-11-27 06:...	勤務: on; 速度: 14; 路線: 51; 方向: 回程; 行駛狀態: 0; gps...
26 gps	2015-11-27 06:...	勤務: on; 速度: 0; 路線: 51; 方向: 回程; 行駛狀態: 0; gps...
27 gps	2015-11-27 06:...	勤務: on; 速度: 20; 路線: 51; 方向: 回程; 行駛狀態: 0; gps...
28 gps	2015-11-27 06:...	勤務: on; 速度: 30; 路線: 51; 方向: 回程; 行駛狀態: 0; gps...
29 gps	2015-11-27 06:...	勤務: on; 速度: 39; 路線: 51; 方向: 回程; 行駛狀態: 0; gps...
30 gps	2015-11-27 06:...	勤務: on; 速度: 23; 路線: 51; 方向: 回程; 行駛狀態: 0; gps...
31 gps	2015-11-27 06:...	勤務: on; 速度: 0; 路線: 51; 方向: 回程; 行駛狀態: 0; gps...
32 gps	2015-11-27 06:...	勤務: on; 速度: 33; 路線: 51; 方向: 回程; 行駛狀態: 0; gps...
33 gps	2015-11-27 06:...	勤務: on; 速度: 30; 路線: 51; 方向: 回程; 行駛狀態: 0; gps...
34 gps	2015-11-27 06:...	勤務: on; 速度: 33; 路線: 51; 方向: 回程; 行駛狀態: 0; gps...
35 gps	2015-11-27 06:...	勤務: on; 速度: 43; 路線: 51; 方向: 回程; 行駛狀態: 0; gps...
36 偏移路線	2015-11-27 06:...	偏移路線
37 gps	2015-11-27 06:...	勤務: on; 速度: 22; 路線: 51; 方向: 回程; 行駛狀態: 0; gps...
38 gps	2015-11-27 06:...	勤務: on; 速度: 45; 路線: 51; 方向: 回程; 行駛狀態: 0; gps...
39 gps	2015-11-27 06:...	勤務: on; 速度: 36; 路線: 51; 方向: 回程; 行駛狀態: 0; gps...
40 gps	2015-11-27 06:...	勤務: on; 速度: 23; 路線: 51; 方向: 回程; 行駛狀態: 0; gps...
41 異常停留	2015-11-27 06:...	異常停留
42 gps	2015-11-27 06:...	勤務: on; 速度: 0; 路線: 51; 方向: 回程; 行駛狀態: 0; gps...



Vehicle Trajectory



# Vehicle Group Monitoring

Update time: 14:35:52 mwRoger Logout

Fleet: All teams Connected: 73

Vehicle My favorite

Car id	Conn	Duty	Last gps time	
1 049-FV	●	●	2020-02-14 14:35:43	Not monitored
2 058-S5	●	●	2020-02-14 14:35:50	Not monitored
3 083-U6	●	●	2020-02-14 14:35:51	Not monitored
4 101-U3	●	●	2020-02-14 14:35:5	
5 103-U3	●	●	2020-02-14 14:35:4	
6 112-FZ	●	●	2020-02-14 14:35:2	
7 219-S5	●	●	2020-02-14 14:35:3	

Vehicle

Users Can Group and Track The Teams They Want To Observe

Focus on tracking  
Cancel Tracking  
Only monitor the connected car  
Monitor all cars  
Release all

車牌ID	Esc取消_Enter取消	事件	所有的事件	置頂顯示	保留的事件	10分鐘
1 090-VM		車道偏離	2017-08-22 13:27:59			
2 311-S5		輕微超速(GPS)	2017-08-22 13:27:24			
3 949-BV		車道偏離	2017-08-22 13:23:55			

轉速: 0轉/分  
速度: 22公里/小時  
是否存在: 是

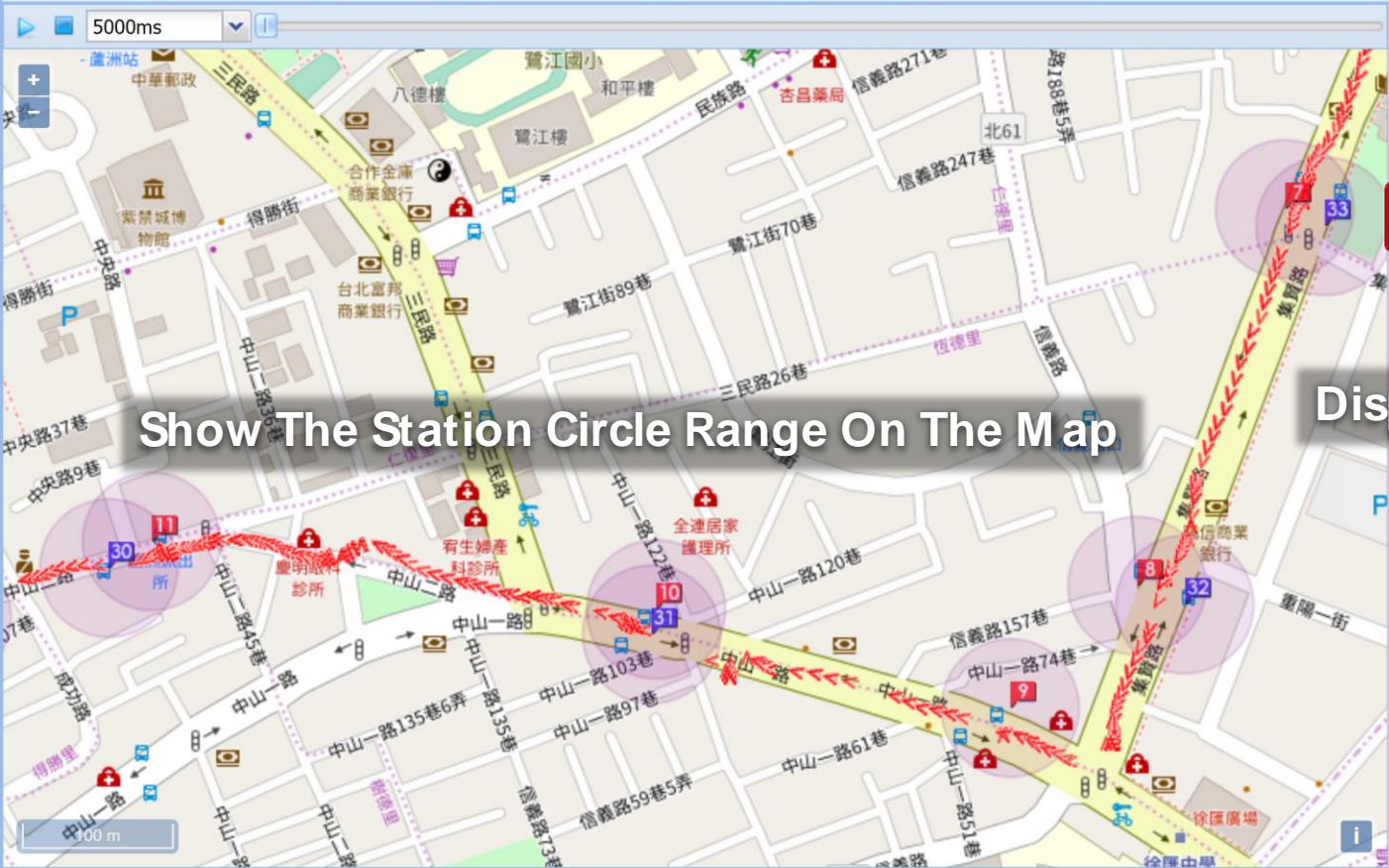
Event Alert

事件提醒

- 949-BV 車道偏離 2017-08-22 13:23:55
- 090-VM 車道偏離 2017-08-22 13:27:59

Power By: MAXWIN 版本:v3.2.3

Passenger	Car id	Connect	Duty	Vehicle	Event	Time	Temp	Speed	Location
1 捷順交通	049-FV	●	●	General large bus	2020-02-14 11:11:16	左前:21.9°C;	0公里/小時		新北市林口區中湖里
19 交通局試辦...	049-FX	●	●	General large bus	2019-11-19 02:17:49		0公里/小時		新北市林口區中湖里



Show The Station Circle Range On The Map

Display Site Range

Route: 927\_17536

Show route on map:  
 Go  Back

Do you display site range

查詢軌跡

112-FZ

Start time: 2020-02-14 10:24:27

End time: 2020-02-14 14:24:27

Query Track

Focus route Print

Clear all information boxes on the map

ROUTE GROUP

# Route Group Or Bus Provider

[300]天意大學-台中站-天意大學

Provider : Taichung Bus Ubus Geyabus

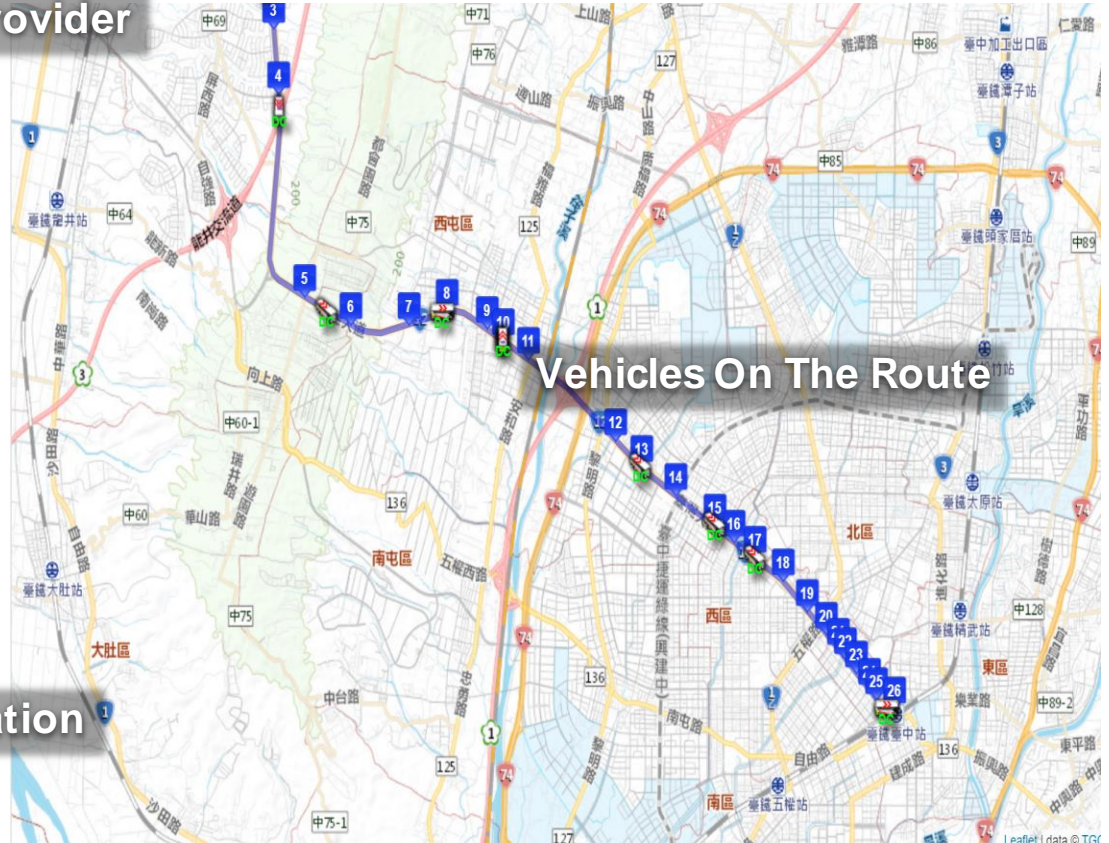
To Taichung Station To Providence University

Route ID	Stop Name	Status
1	4147 Providence University(Dedicated Road)	14:45
2	442 Jinjiangliao(Dedicated Road)	Approaching
3	4386 Hungkuang University (Dedicated Road)	Approaching
4	435 Zhengying Rd.(Dedicated Road)	Approaching
5	2325 Pingding(Dedicated Road)	4 min.
6	240 Donghai Villa(Dedicated Road)	Approaching
7	444 Taichung Veterans General Hospital/Tunghai Uni.(Dedicated Road)	Approaching
8	439 Yumen Rd.(Dedicated Road)	Approaching
9	7 Cheng Ching Hospital(Dedicated Road)	Approaching
10	8 Zhonggang Community(Dedicated Road)	Approaching
11	445 Fu-an(Dedicated Road)	Approaching
12	441 Maple Garden(Dedicated Road)	4 min.
13	467 Shin Kong Mitsukoshi/Top City Dept. Store(Dedicated Road)	Approaching
14	431... Hall(Dedicated Road)	Approaching
15	86 Dinghecuo(Dedicated Road)	Approaching
16	87 Chungming Elementary School(Dedicated Road)	Approaching

## Route ID

## Bus Real-Time Information

Update before 0



## Vehicles On The Route

# Schedule Management

## Multiple Route Schedule – Planned/Actual Departure Schedule

**Upload Schedules Made With Excel**

**Schedule Modification**

**Setup Control Station**

2018-08-14 14:52:31  
獲取資料  
獲取資料失敗通信(http error code)錯誤  
代碼:0

說明:  
1:資料格式:(路線名,去回程,車輛,駕駛代碼,排班日期,開始時間,班表ID)  
2:已發班和即將發班(十分鐘內)的班表不能上

Provider:\* 桃園客運(6in1) Route:\* 101 桃園 - 果菜市場 Holiday:\* Normal day  
Train:\* Go check Return check  
CSVDocument: Upload file (\*.csv) Download file (\*.csv) Control site

編號	路線班表時間	星期							干城站	忠義里(中科)
		一	二	三	四	五	六	日		
1	06:05	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	06:05	06:05
2	06:15	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	06:15	06:15
3	06:40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	06:40	06:40
4	07:00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	07:00	07:00
5	07:20	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	07:20	07:20
6	07:30	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	07:30	07:30
7	07:40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	07:40	07:40
8	08:00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	08:00	08:00
9	08:15	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	08:15	08:15
10	08:30	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	08:30	08:30
11	08:45	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	08:45	08:45

# Ticket Price Management And Maintenance

Upload Ticket Price Excel File

**Price Modification**

**XML Price Data Export**

站名	站名	站名	站名	站名	站名	站名	站名
1 北陽中陽路口	北陽中...						
2 豐原大道中陽503巷口	20	豐原大...					
3 豐原大道中陽路口							
4 廣福宮	20	20	20		廣福宮		
5 南陽新村	20	20	20	20	南陽新村		
6 圓環東南陽路口	20	20	20	20	20	圓環東...	
7 圓環東安康路口(陽...	20	20	20	20	20	20	20
8 圓環東康康路口	20	20	20	20	20	20	20
9 圓環東田心路口	20	20	20	20	20	20	20
10 圓環東自強南街口	20	20	20	20	20	20	20
11 豐原分局	20	20	20	20	20	20	20
12 輸配電	20	20	20	20	20	20	20
13 文化新村	20	20	20	20	20	20	20
14 菸廠	20	20	20	20	20	20	20
15 永豐蠶絲	20	20	20	20	20	20	20
16 校果林	20	20	20	20	20	20	20
17 中山祥和路口	20	20	20	20	20	20	20
18 弘文中學	20	20	20	20	20	20	20
19 776口 4466街	20	20	20	20	20	20	20

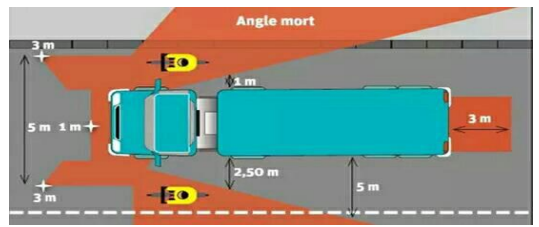
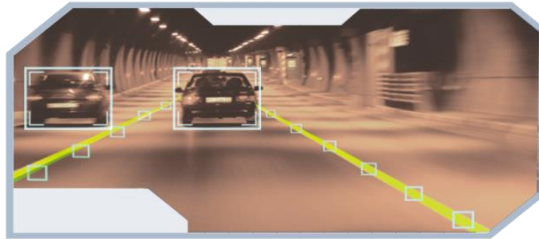
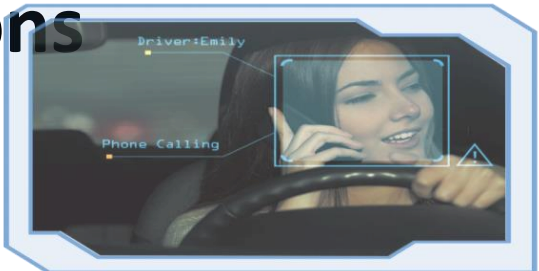
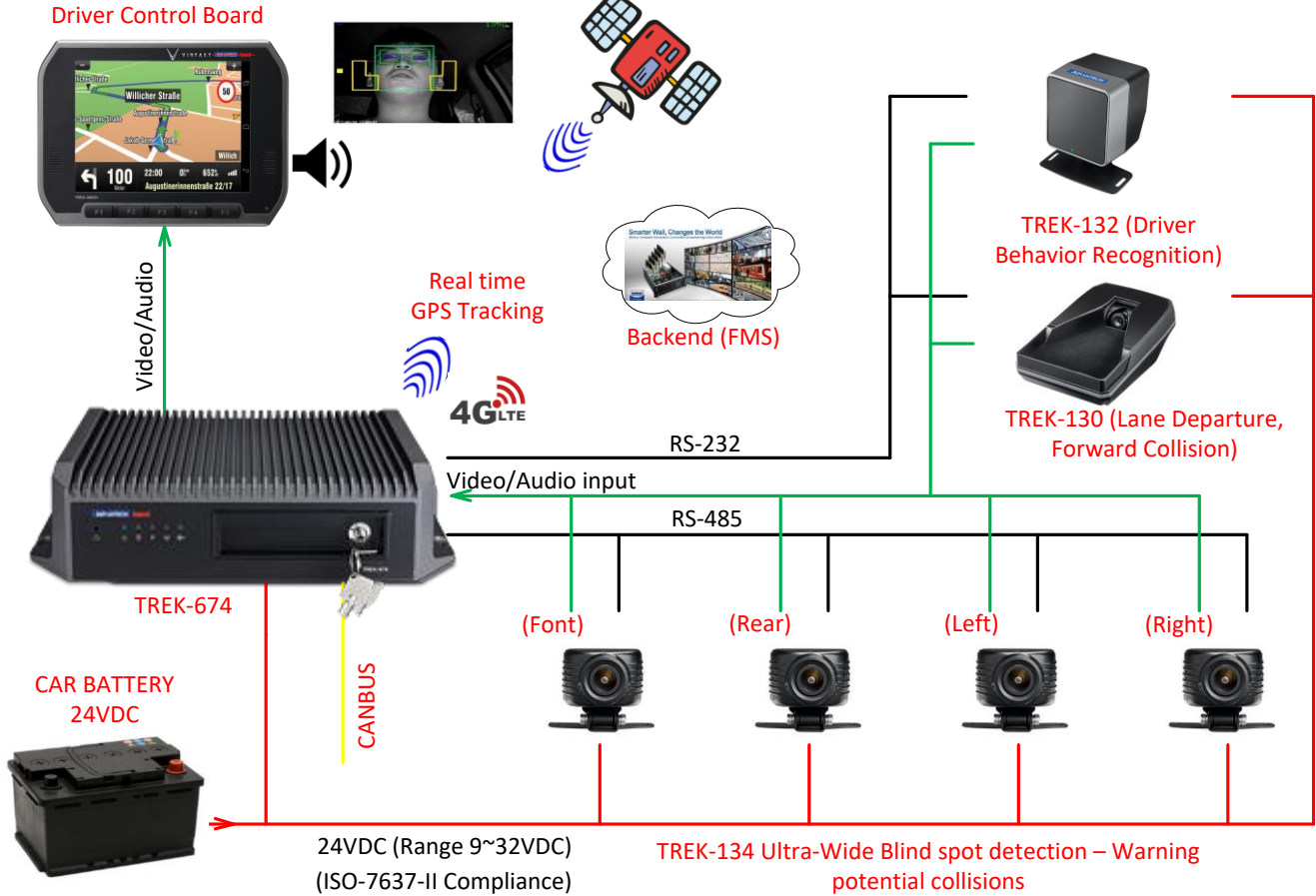
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    <td>豐原大道中陽503巷口</td>
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    <td>20</td>
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  <tr>
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  <tr>
    <td>18</td>
    <td>弘文中學</td>
    <td>20</td>
    <td>20</td>
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  <tr>
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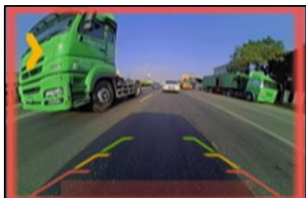
# Advantech Advanced Driver Assistance Systems (ADAS)



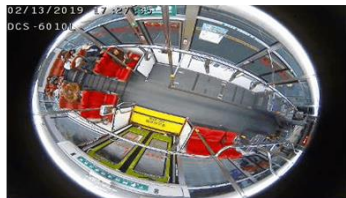
# DBR-ADAS-Blind spot, warning collisions



# Vehicle Image Illustrate devices



 TREK-134-B  
Back BSD



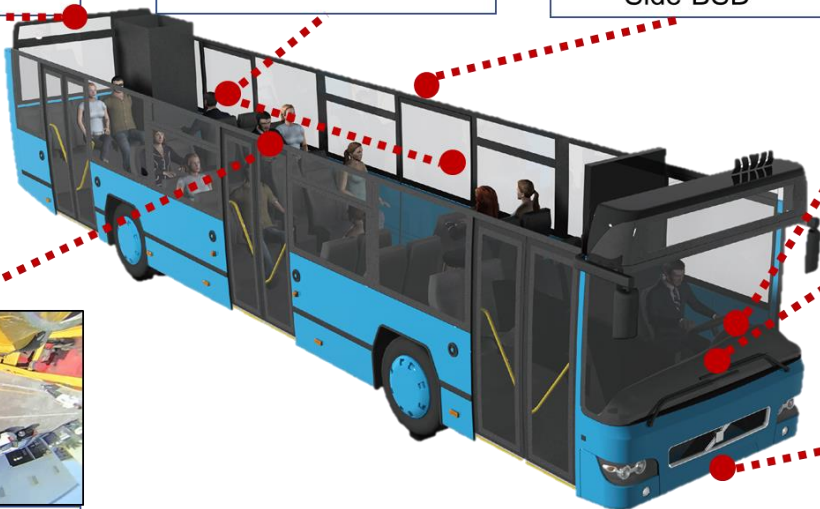
 Passenger Crowded



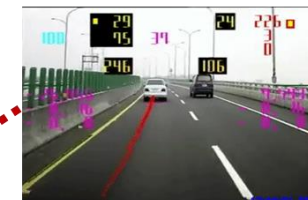
 TREK-134-L  
Side BSD



 TREK-132  
DBR



 TREK-134-R  
Side BSD



 TREK-130 FWR



 TREK-134-F  
Front BSD



# TREK-132 DBR

- ❖ TREK-132 measures changes in drivers' eye and body movement patterns to detect drowsiness and/or distraction, and
- ❖ Warning the driver with visual and audio alerts with vehicle computer.
- ❖ Through real-time driver behaviour management, this intelligent safety solution can effectively prevent vehicle collisions



## TREK-132 Multifunctional Driver Behavior Recognition Module

Real-Time Driver Monitoring Enhances Driving Safety

[Learn More](#)

- Video**  
Video Monitoring  
Enables monitoring of event data and synchronized video outputs
- RS-232**  
Easy Integration  
Standard RS-232 communication enables easy integration and ADAS customization
- High Compatibility**  
Easily paired with Advantech's TREK series and other in-vehicle computers
- Flexible Support for Diverse Vehicles**  
The adjustable parameters are compatible with diverse vehicle types
- Value-Added Software Development Kit (SDK)**  
Advantech's software development kit enables cost-effective fleet management

### Detection Conditions Supported



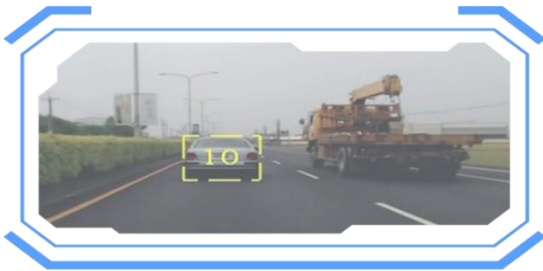
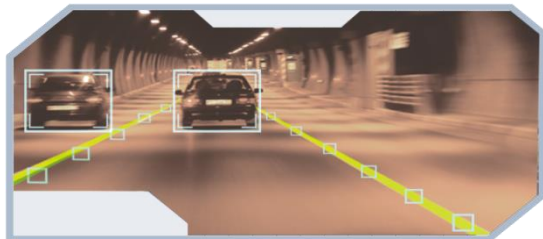
Night/Poorly Lit Environments



Sunglasses/Glasses Wearing



Diverse Driver Characteristics and Ethnicities



## TREK-130 Front Collision Avoidance ADAS Module

Simple, Flexible, and Truly Active Video-Based Safety Solution

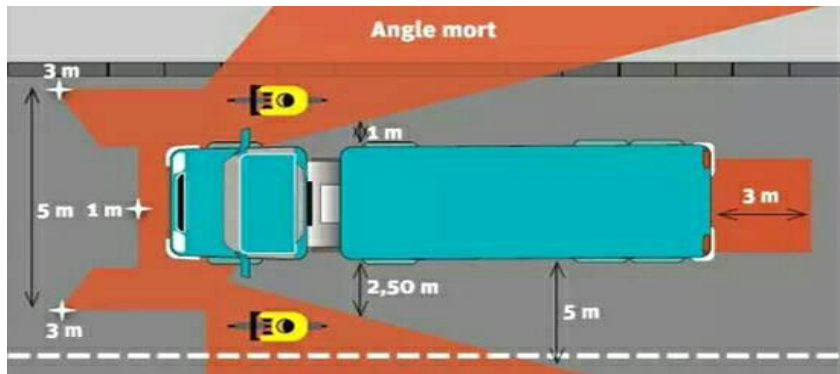


Lane Departure Warning System  
(LDWS)

Forward Collision Warning System  
(FCWS)

For LDWS applications, the camera sensor monitors lane markings to detect if the vehicle drifts into another lane. If the system detects that the vehicle has drifted, visual and audio alerts are emitted to warn the driver.

For FCWS applications, the camera sensor processes the images captured by the front camera to detect vehicles ahead and potential collision risks. If a vehicle is detected within a dangerously close proximity, visual and audio alerts are emitted to warn the driver.



**TREK-134**

[View More](#)



## TREK-134 Ultra-Wide (180°) Blind Spot Detection

Real-time alarm prevents collisions

The TREK-134 blind spot detection module is an in-vehicle vision-based safety solution that uses image recognition technologies and algorithms as well as real-time visual and audio alarm notifications to warn of potential collisions. Designed for installation in trucks, buses, and heavy-duty vehicle fleets, TREK-134 features an AHD 720 camera with a 180° ultra-wide viewing angle that can detect various moving objects, including pedestrians, cyclists, motorcycles, vehicles, and medium-sized animals. Moreover, the AHD 720 camera supports high dynamic range (HDR) imaging to ensure clear and accurate imaging even in direct sunlight or poorly lit environments.

High-definition resolution  
(1280x960)



Traditional

TREK-134

High Dynamic Range  
(more than 130 dB)



Traditional

TREK-134



Smaller

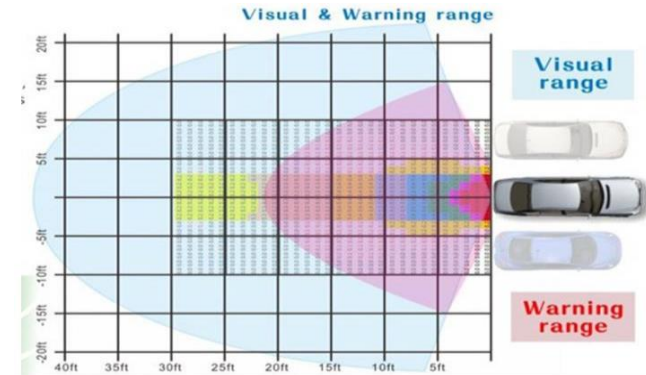
Traditional

TREK-134

Independent Blind Spots Detecting  
Camera



TREK-134 Smart reversing camera support HDR with a 180° ultra-wide viewing angle that can detect various moving objects, including pedestrians, cyclists, motorcycles, vehicles, and medium-sized animals



# Co-Creating the Future of the IoT World



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