







I. VanJee Intoduction

VanJee Introduction

- VanJee Technology is a publicly traded company at Shenzhen Stock

 Exchange (SZSE:300552) and has four major product lines: 1. LiDAR, 2

 Weigh-In-Motion, 3. Electronic Toll Collection (ETC), 4. V2X.
- VanJee has been making great efforts and dedication in ITS industry over 25
 years and has becoming the market leader in ITS industry.
- 3. WanJi has distributed more than 16 thousand WIM equipment, 16 million ETC OBUs and 4000 LiDAR sensors to the ITS industry as well as has obtained more than 100 intellectual property rights in the WIM industry.





Company introduction

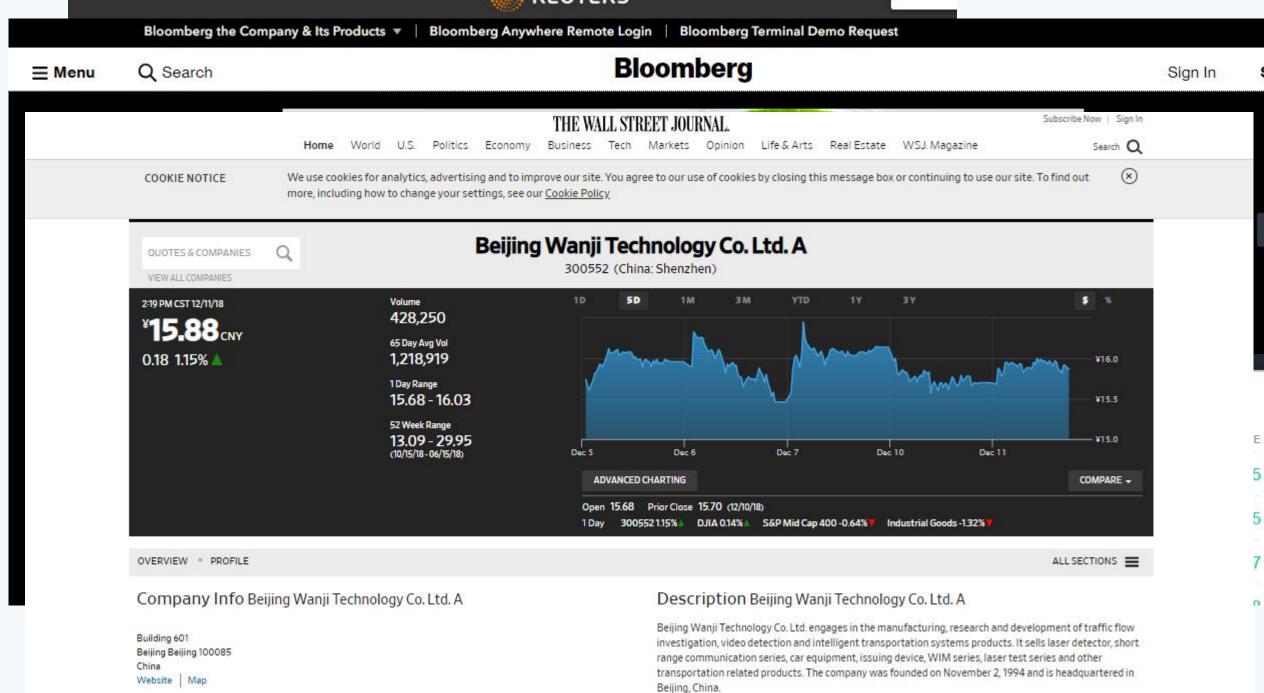








EDITION: UNITED STATES ~





VanJee History

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1999

Established Local Branches all over China including Shanghai, Wuhan, Chongqing, Zhengzhou.

Finished First WIM POC

1996

Promoted WIM all over China in traffic system

VanJeeis Founded

1994

2006

2001

Passed ISO9000

Certification

VanJee Finished Shareholding Reform

2011

2008

Passed ETC Protocol and Interaction test. Introduced to Market

2012

WanJi Introduced LiDAR to market

2014

Shunyi manufacturing ase being use

2015

Passed ISO TS16949 Quality Management system

WanJi became Public-Traded company

2016

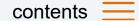
2017 WanJi moved

headquarter to ZhongGuanCun Software



股票简称: 万集科技 股票代码: 300552

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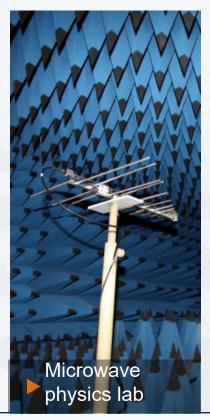


R&D strength

Laboratories and equipment

















Sales and service network

VanJee has 9 marketing centers and 32 technical service centers to provide the best customer service for everywhere in China.







VanJee remarkable projects

Hong Kong-Macow-Zhuhai Bridge



WanJi ETC in Hong Kong-Zhuhal-Macau Bridge

WanJi ETC

PRODUCTS:



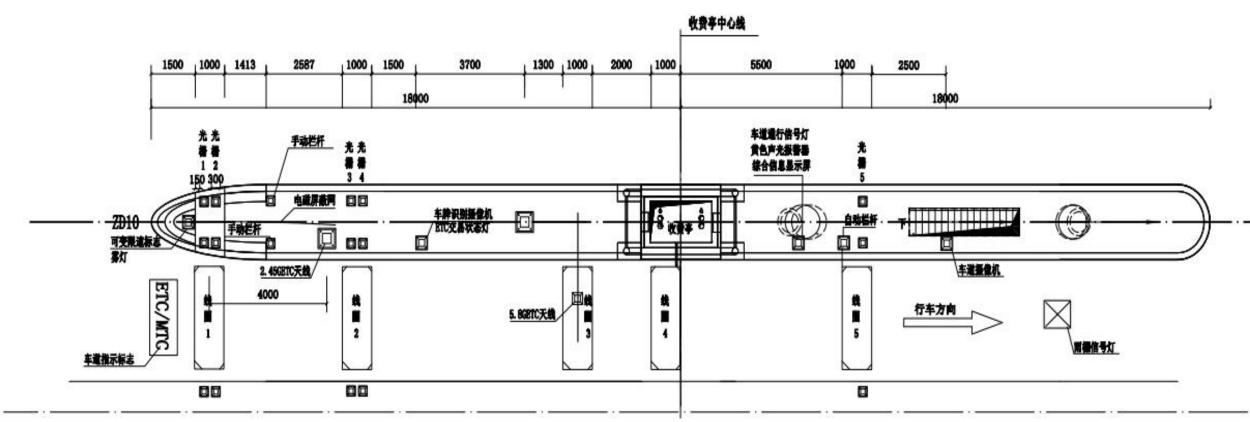




Hong Kong-Zhuhai-Macau Bridge

VanJee overcomes two major technical difficulties in the bridge:

- 1. The bridge has three tolling methods which are VanJee ETC DSRC, Auto-toll and Manuel-toll.
- 2. The bridge has 22 lanes with two directions. VanJee RSU has two great features which are anti-interference for signals as well as high accurate positioning method to deal with a large amount of traffic flow.



*the bridge ETC layout: first one is Auto-toll, second one is WanJi RSU, third one is manel toll







Wuhan Multi-lane Free Flow in Yingwuzhou Yangtze River Bridge.

- 1. Wuhan Yingwuzhou Yangtze River Bridge is a twoway eight-lane road with a total length of 3.42 kilometers and a main span of 850 meters.
- 2. VanJee finished the first ETC Multi-lane Free flow project in China
 - 1. Handled vehicle speed up to: 180 km/hr
 - The system has been running successfully since 2010
- 3. In Wuhan province alone, VanJee integrated 407,600 OBUs, 114 RSUs, plate number identification system and traffic data processing system.
- 4. The accuracy obtained in 2017 is 99.99%





02 ETC series

Productdisplay

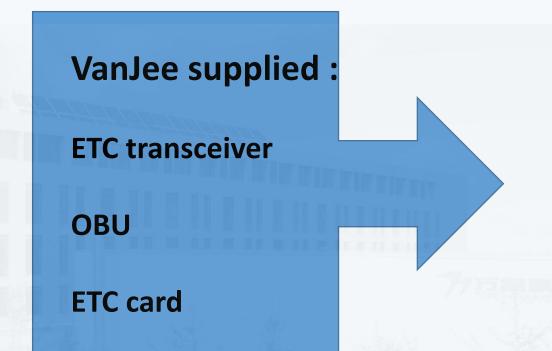


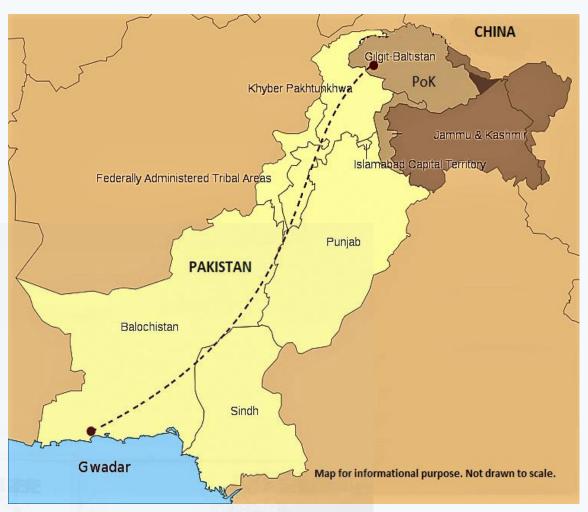


OBU

1. VanJee ETC in Pakistan PKM Project

VanJee is the exclusive ETC supplier to supply all ETC equipment in Pakistan PKM project which is known as One Belt One Road flagship project





1. VanJee ETC in Pakistan PKM Project









2. CRBC-VanJee Togo WIM project











1 Weigh-In-Motion

- 1. VanJee WIM would guarantee highway maintenance and quality.
- 2. To save highway maintenance cost in long run.



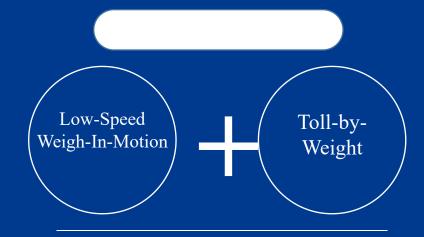
Toll-by-weight system structure



Product Introduction



WanJi Low-Speed Weigh-In-Motion in Ningxia Wuzhong



DCS-30KII is the cost-effective low-speed Weigh-In-Motion scale. The scale would achieve weighing accuracy 98% under the speed 30 km/hour to protect road as well as can perform continuous truck passing measurement.



VanJee Direct Enforcement Enforcement System



1. VanJee front data collection system

- axle weight, axle number, gross vehicle weight, vehicle image, license plate number and the short video for violated trucks.

2. WIM data management platform

- Process and store truck information, the rule of evidence and violation confirmation.

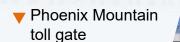




Yantian toll gate, ▼ Guangdong Province Cases

Hebei-Liaoning main road toll gate, Chengde-

Chaoyang Expressway, Hebei Province





Aobaoliang toll gate, Inner Mongolia ▲ Ruyuan toll gate, Guangdong Province ▲ Jiayu Pass toll gate, Gansu Province





02 ETC series

Productdisplay





OBU



MLFF system: is an information exchange system

● 契相模域 事態等予約器 交易区域

▶ MLFF system demo

ETC Multi-Lane Free Flow

MLFF system in Wuhan

Traffic capacity rate up by 23%, exhaust emission down by 60%, accident rate down by 15%



► MLFF system in Wuhan

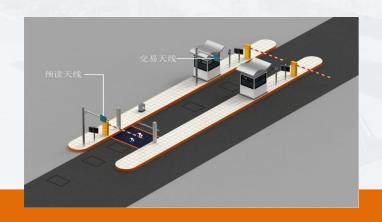


Congestion control in Beijing



ETC by DSRC method

- All model ETC system: supports ETC for all vehicle models.
- **Background of all model ETC system:**



► All model ETC structure

- Pre-read antenna+ transaction antenna
- Multiple sense coil
- Double information screen
- Front barrier
- Dual weighing platform





All model ETC pilot project





Intelligent parking lot management system:

ETC DSRC



► Guangzhou ETC intelligent parking lot



Wuhan ETC intelligent parking lot

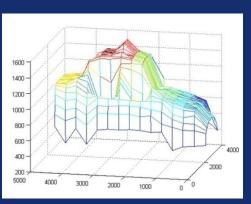


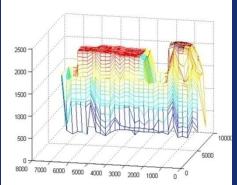
Demo of intelligent parking lot management system

03 LIDAR series

VanJee LiDAR is applied in ITS

VanJee LiDAR would perform three major functions:1. Vehicle classification 2. Vehicle counting, 3. Vehicle dimension measurement, 4. Vehicle speed enforcement







VanJee LiDAR would classify the outline of vehicles.

Cases





➤ Traffic statistics accuracy ➤ Average model error

► Average speed detection accuracy



Long-lasting cast aluminum alloy shell with firm structures;

Protection grade as IP68, water and dust proof, and able to be comfortably accommodated to complicated environment;

Measurement distance as 40 meters with strong detection capacity and easy scanning of 8 lanes.

Reliable timing circuit for accurate timing and high precision within short distance;

Multi-pulse echo, multiple collections, strong anti-interference capability;

Angular resolution as 0.25° with subtle partition and subtle feature recognition.





Special design of optical structures, direct reshaping through micro lens, detection distance of reflecting surface as 70 meters;

High precision timing and pulse width correction algorithm with the precision as ±17mm.



Adopting multi-level signal proposal technology, high-frequency pulse occur-rence technology, and multi-pulse echo technology;

Wide range of detection, high frequency of measurement destinations, strong environment suitability, availability to be used in large-angled scenarios;

Compact structure and small size.

8L-LiDAR (8 layers LiDAR), industrial-level electric and structural design, meeting applications at the level of car regulations;

Beam reshaping by micro lens, multi-circuit high precision timing circuit, and high-frequency laser pulse occurrence technology,

Amount of point cloud output per second reaching 144,000 points for accurate recovery of the 3D image of the measured subjects.









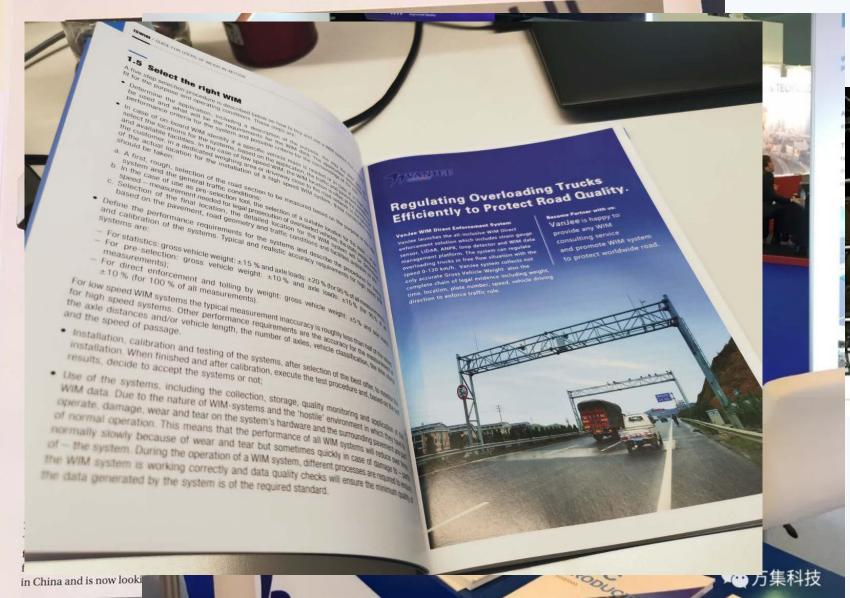
LiDAR Application



IV. VanJee Globalization Efforts









V. Conclusion

VanJee has been in ITS history for 25 years including ETC, WIM, LiDAR and V2X. VanJee is dedicated to provide the best ITS solution including developing better sensors, communication methods and methodology. VanJee is confident to use her experience and expertise to protect worldwide road, guarantee traffic safety and improve traffic efficiency.



Thank you!

Stock name: VanJee technology stock code:300552