GEOFIX

JPS CS100 Vehicle-Mounted Mobile Scanner

JPS CS100 mobile measurement system consists of four parts: lidar scanning system, power supply system, mounting bracket, dataprocessing software. The system can aquire massive point cloud data and high-definition panoramic camera data easily andsmoothly,Which is light-weight designed and can be assembled easilyIt is widely used in highway surveying,high-precisionmapping,etc.

Product features
- Highly Integration
- Easy to OperateHigh-Precision
- Multi Echo

SPECIFICATIONS

INTEGRATED SYSTEM	
System Accuracy	5cm@100m
System Weight	Scanning System:18KG Control Unit:8.5KG Bracket:19KG
Dimensions	0.54mX0.52mX0.57m
Power Consumption	Max:150W

POWER SUPPLY SYSTEM	
Operation Temperature	-20C~+50C
Working Relative humidity	20%-80%
Storage Temperature	-30℃ - 55℃
Storage Relative Humidity	20% - 80%
Protecation Class	IP67

LIDAR SCANNER	
Laser Safety	Class 1
Laser Emission Frequency	Max 2MHz
Ranging Distance	1.5m-220m
Echo Times	5 Times(Customizable Unlimited Echoes)
Field of View Distance	360 degree
Scanning Line Speed	Max: 200 lines/s

GNSS INERTIAL NAVIGATION SYSTEM	
X、Y Position	0.01m+ippm
Z Position	0.02m+lppm
Roll Angle And Pitch Angle	0.005°(RMS)
Heading Angle	0.01°(RMS)
GNSS	GPS、GLONASS、BEIDOU、GALILEO
Update Frequency	600Hz

CAMERA SYSTEM (LADYBUG5+)	
Number of Lenses	6
Camera Effective Pixels	30MP(5MPX6)
Focal Length	4.4mm
Resolution Ratio	2048 x 2448
Exposure Time	0.02ms-2s
Capture Time	Triggered by distance or time, Max:10 frames/s

DATA STORAGE	
Storage Method	Hard Disk
Storage Capacity	2TB + 5%

| COMMUNICATION	
WIFI	802.11 b/g/n,2.4GHz
Ethernet	10Mbps/100Mbps10Mbps/100Mbps/1Gbps

Data Processing

- KData software, used for data acquisition, can display the status of acquisition routes and equipment status simultaneously,
- KMeta software, can perform point cloud fusion and coloring by one-click, It can also display massive point-cloud data.
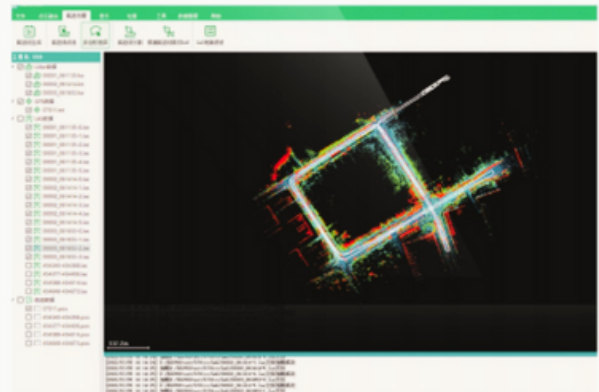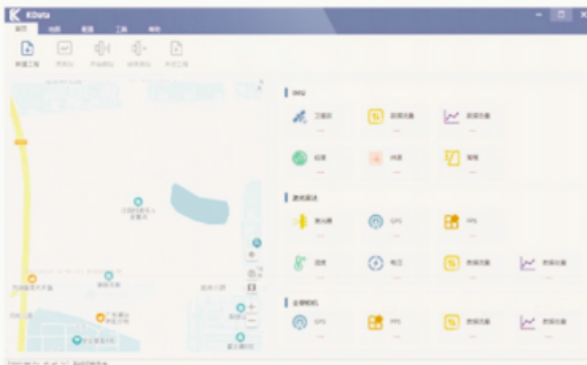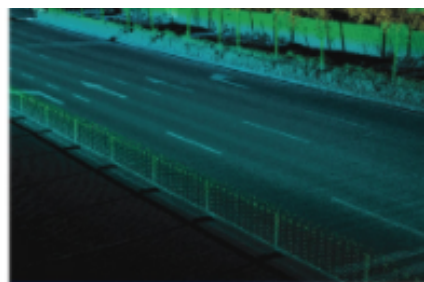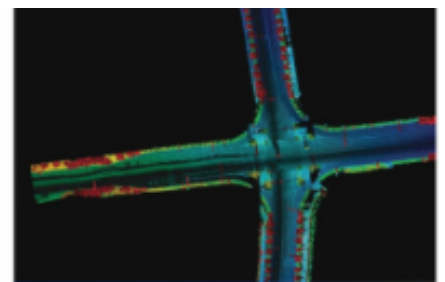

Applications

The system is widely used in fields such as highway design, highway inspection, asset inventory, and high-accuracy maps
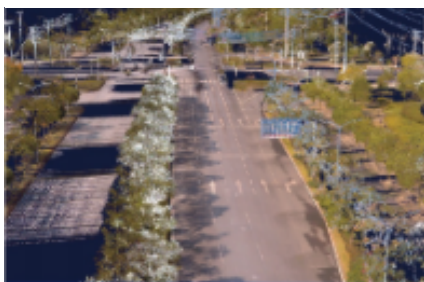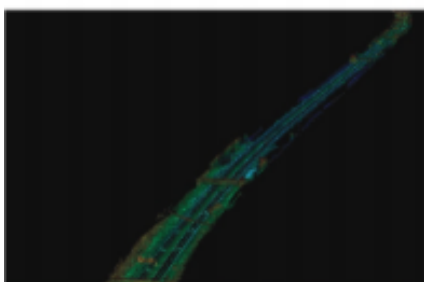

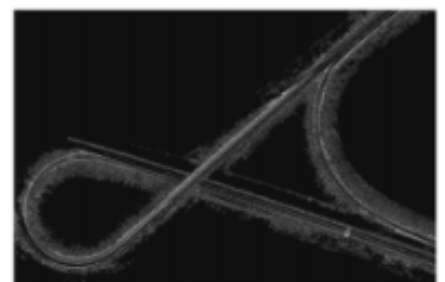
Identification Extraction

Road Scanning

High Precision Map

Highway Design

Highway Inspection

Vehicle Mounted High-speed Detection