Specification of Passenger Counter

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1.Passenger Counter System

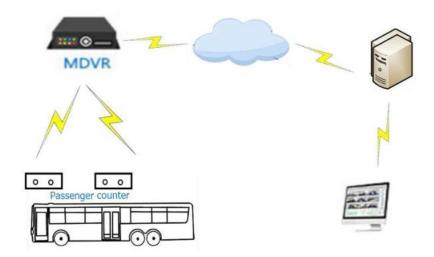
1.1 Introduction

This product can be used for buses, subways, trains, ships, shopping malls, and building passages, etc. Capture video images through passenger flow detection cameras, analyze the height, shape and direction of all objects passing through the image, so as to accurately judge the number of people and direction of entry and exit, and generate an entry and exit record.

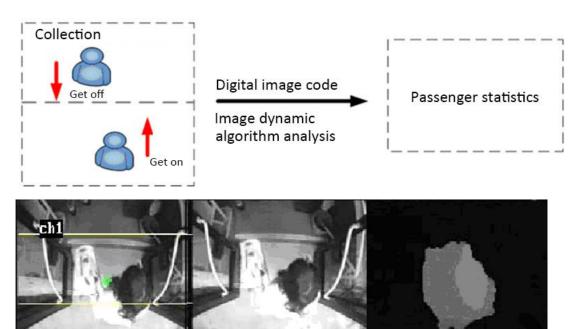
The passenger counter camera with the infrared light illumination can adapt to the environment with any light, even if in completely black environment. Integrated independent digital I/O port can be connected to other devices or the devices for opening and closing the door. The number of entries in and out can be transmitted in real time via wired network and 3G/4G network. Collecting up and down passenger flow data of each site in real time, and transfer to the passenger flow collection system then transfer to the traffic integrated information platform.



1.2 System structure



System schematic:



1.3 Features

- Strong environmental adaptability, not affected by the two-way, side-by-side, distance of the passengers, different clothing colors, different hair colors, wearing hats and luggage.
- ➢ 95% up accurate. High accuracy despite crowded group.

- Can accurately adjust the lens angle of the installed video passenger flow collection device. Autofocus, allowing a certain angle tilt with the horizontal direction;
- The passenger counter is triggered by the state of the bus switch door. Counting starts when the door is opened, real-time statistics, and upload data after the door is closed.
- Count all kinds of time-sharing traffic and produce various statistical reports;
- Adjust the brightness automatically and is not affected by external light;
- ➢ Easy installation .

1.4 Parameter

Table1 Technical parameters of Main device

Term	Parameter	Performance
System	Operation	Chinese/English
	Language	
	Operation	C/S Operation configuration
	interface	
	Password	Two-level management of user password and
	security	administrator password
	Accuracy	About 95%
Power input	+9~+36V	$9V \sim 36V$, Before use, please make sure that the
		vehicle power supply is within this range
Power output	12V	12V (+/-0.2V), Maximum current:2A
Video	Video input	4ch video input,support
		CIF/D1/960H/720PAHD video input
	Video output	1ch video output
	Video	1~4 Screen display
	display	

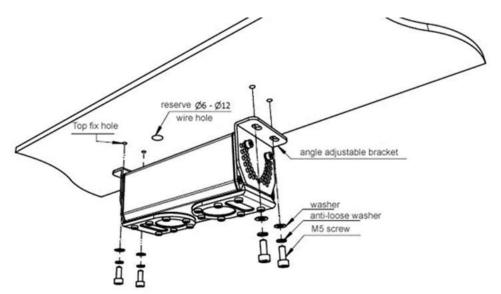
standard Alarm Alarm input 4ch alarm input, configurable low level alarm below 1V or high level alarm above 5V Storage SD Support double SD card(256GB) RAM 4GB Communication RS485 Support 1 RS485 interface interface interface RS232 RJ45 1 RJ45 interface,can be used to test and backup passenger data (In TXT and EXCEL format),se parameters, etc. Wireless 3G Built in 3G(HSDPA/EVDO/TD-CDMA)module (Optional) WiFi Built in 4G Module (FDD-LTE/TDD-LTH Optional) WiFi Built in WiFi module Operating -35°C ~70°C In a well-ventilated environment temperature In a well-ventilated environment Powe							
Alarm Alarm input 4ch alarm input, configurable low level alarm below IV or high level alarm above 5V Storage SD Support double SD card(256GB) RAM 4GB Communication RS485 Support 1 RS485 interface interface interface RJ45 Support 1 RS232 interface interface RJ45 RJ45 1 RJ45 interface,can be used to test and backup passenger data (In TXT and EXCEL format),see parameters, etc. Wireless 3G Built in 3G(HSDPA/EVDO/TD-CDMA)module (Optional) communication		Video	PAL/NTSC				
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height	Installation						
	height						
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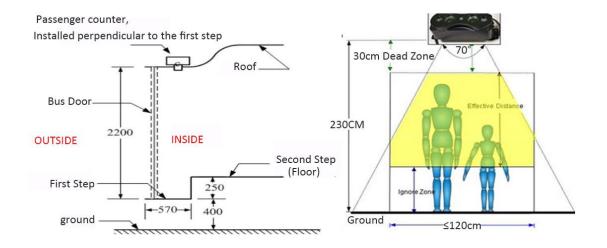
	environmental illuminance.
Positioning	Support GPS and BDS, GPS coordinate, GPS speed can write to
	encoded stream, at the same time can be uploaded wirelessly
	(Optional)
Fire protection	The sensor uses non-combustible materials such as metal housing
requirements	

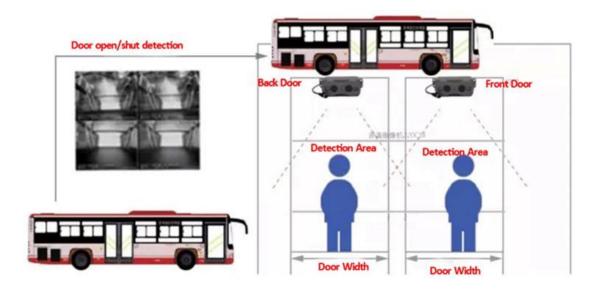
Table 2 Technical parameters of passenger detection cameras

Specification	Parameter	Specification	Parameter
Image Sensor	PAL	Gain	Automatic gain control
Video standard	700 TV Lines	S/N	> 48db
Connector	4Pin Aviation	Power	DC12 Voltage input;
			≤1W
Horizontal	700 TV Lines	Shutter	1/50-1/80000 (s)
Resolution			1/60-1/80000 (s)
Image output	Synchronous sampling	Weight	≤0.6kg
	output		
Lens	2.8mm/3.6cm	Relative	10%~90%
		humidity	
Lens pixels	648×488	Radiating	Passive
	(Choose according to		structure cooling
	detection range)		
White balance	Automatic white balance	Dimension	180×64×55mm
			(L×W×H)
Video output	Composite video		
interface	output,75Ω 1Vp-p		

1.5 Installation

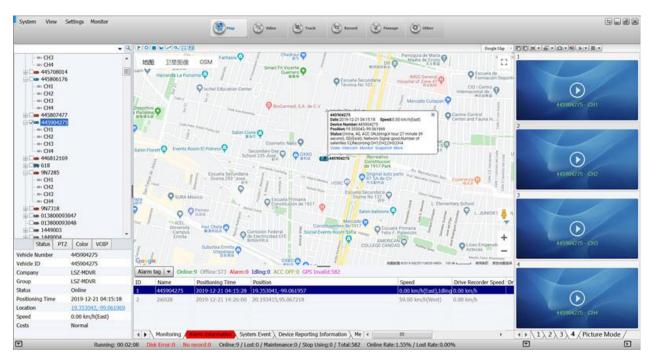






2.CMSV6 Software

View all the data dynamics and videos of any online vehicle in real time



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260 Monitor Centeri 2 Pase 112012010	1/4)		1112 - CHI - 4G - 111	KB/5 / 274 KB		1112 - CH2 - 4G - 21 KB/	5/ 292 KB		Field State
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Passenger Detail

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Driving Behavior RPT	ADA	S envide × F	Passenger S ×	Passenger D.	×									
G-Sensor Report														
▲ Driver Report	Pas	ssenger Det	ail(External)											
1 OL OFL REPORT		Sel Time: Custo	im Time	- Start T	ime:2019-08-30 00:00:00		End Time: 2019-12-30 23:5	-59 💼	Query	EXP File Forms				
Alarm RPT		Vehicle: 4459	10465											
Mileage RPT	Index	Plate No.	Plate Colo	Department	Time		Current Position	The Number	The Number O	Of The Middle Door Num	it Middle Door Numt Ba	k Door On The The Nu	mber Of Bai Number	Of Passen
() Mileage KP1	46	445910465	Yellow Car	LSZ-DVR	2019-10-25 16:09:06	广东省深圳	市宝安区工业路26号荣鸿奏工	29	30	-1	-1			9
P Driving RPT	47	445910465	Yellow Car	LSZ-DVR	2019-10-25 16:09:36	广东曾深圳	市室安区工业路26号荣鸿奏工	<u>w</u> 30	30	-1	-1		1	10
Electronic Fence RPT	48	445910465	Yellow Car	LSZ-DVR	2019-10-25 16:10:01	广东曾深圳	前宝安区工业路26号荣鸿奏工	2 32	30	-1	-1		1	12
Fuel RPT	49	445910465	Yellow Car	LSZ-DVR	2019-10-25 16:10:44	广东曾深圳	1市宝安区工业路26号荣鸿赛工	32	31	-1	-1		1	1
	50	445910465	Yellow Car	LSZ-DVR	2019-10-25 16:12:28	广东曾深圳	市宝安区工业路26号荣鸿泰工	2 32	32	-1	-1		1	10
Fault Alarm RPT	51	445910465	Yellow Car	LSZ-DVR	2019-10-25 16:12:29	广东曾深圳	市宝安区工业路26号荣鸿泰工	2 33	32	-1	-1		1	1
Video Alarm RPT	52	445910465	Yellow Car	LSZ-DVR	2019-10-25 16:12:34	广东省深圳	市宝安区工业路26号荣鸿奏工	2 33	33	-1	-1		1	10
O IO Alarm	53	445910465	Yellow Car	LSZ-DVR	2019-10-25 16:12:43		市宝安区工业路26号荣鸿奏工		33	-1	-1		1	1
-	54	445910465	Yellow Car	LSZ-DVR	2019-10-25 16:14:04	广东省深圳	市宝安区工业路26号荣鸿赛工	2 35	33	-1	-1		1	2
Storage Media RPT	55	445910465	Yellow Car	LSZ-DVR	2019-10-25 16:14:14	广东曾深圳	市宝安区工业路26号荣鸿泰工	35	34	-1	-1		1	1
Device UPG RPT	56	445910465	Yellow Car	LSZ-DVR	2019-10-25 16:14:16	广东曾深圳	市宝安区工业路26号荣鸿寨工	2 35	35	-1	-1		1	10
12. Multimedia	57	445910465	Yellow Car	LSZ-DVR	2019-10-25 16:14:42	广东曾深圳	市宝安区工业路26号荣鸿泰工	2 36	35	-1	-1		1	1
	58	445910465	Yellow Car	LSZ-DVR	2019-10-25 16:14:51	广东畲深圳	市宝安区工业路26号荣鸿奏工	2 36	36	-1	-1		1	LO
👿 Data Query	59	445910465	Yellow Car	LSZ-DVR	2019-10-25 16:14:59	广东畲深圳	前室安区工业路26号荣鸿奏工	2 36	37	-1	-1			9
Q User Behavior RPT	60	445910465	Yellow Car	LSZ-DVR	2019-10-25 16:15:40	广东省深圳	前室安区工业路26号荣鸿奏工	2 37	37	-1	-1		1	10
2 Passenger Statistics	61	445910465	Yellow Car	LSZ-DVR	2019-10-25 16:15:54	广东曾深圳	1市宝安区工业路26号荣鸿赛工	38	37	-1	-1		3	1
	62	445910465	Yellow Car	LSZ-DVR	2019-10-25 16:16:37	广东曾深圳	市宝安区工业路26号荣鸿泰工	<u>e</u> 40	37	-1	-1		1	3
 Passenger Summary(External) 	63	445910465	Yellow Car	LSZ-DVR	2019-10-25 16:16:46	广东曾深圳	市宝安区工业路26号荣鸿泰工	41	37	-1	-1		1	4
Passenger Detail(External)	64	445910465	Yellow Car	LSZ-DVR	2019-10-25 16:16:47	广东曾深圳	市宝安区工业路26号荣鸿奏工	41	38	-1	-1			13
8 Temperature RPT	65	445910465	Yellow Car	LSZ-DVR	2019-10-25 16:17:00	广东省深圳	市宝安区工业路26号荣鸿奏工	41	39	-1	-1		1	2
 Positioning Analysis RPT 	66	445910465	Yellow Car	LSZ-DVR	2019-10-25 16:17:05	广东省深圳	市主安区工业路26号荣鸿奏工	<u>w</u> 42	39	-1	-1		1	13
Muck Truck Report	67	445910465	Yellow Car	LSZ-DVR	2019-10-25 16:17:28	广东曾深圳	市宝安区工业路26号荣鸿赛工	43	39	-1	-1		1	4
AL MUCK HUCK Report	68	445910465	Yellow Car	LSZ-DVR	2019-10-25 16:17:59	广东曾深圳	市宇安区工1/路26号要地募工	9 44	39	-1	-1		1	5

Index	
Plate No.	
Plate Color	
Department	
Time	
Current Position	
The Number On The Car Door	
The Number Of The Front Door Off	
Middle Door Number Up	
Middle Door Number Down	
Back Door On The Car Number	
The Number Of Back Door Off	
Number Of Passengers	
Incremental Staff	
	Above information can be collected

3. Cases

This product can be used for <u>buses</u>, <u>subways</u>, <u>trains</u>, <u>ships</u>, <u>shopping malls</u>, <u>and building passages</u>, etc



