SoooGuard INC

Model No.: TVSD030

JPEG Compression Dome VGA Camera UART Serial Interface

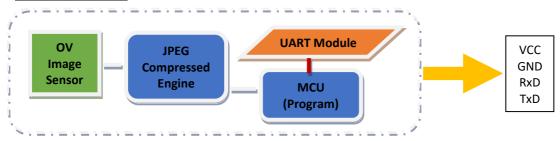
General Description

The TVSD030 is a high integrated indoor dome camera that performs as a JPEG compressed still camera, which also provides a standard UART port for communication. Users can request a full pixel dimension single-frame still picture by sending out a snapshot command from host. The picture is then compressed by the JPEG engine and transferred to the host via UART port.

Application

It supports Standard RS-232 / RS-485 / TTL interface. Now it is widely used Vehicle GPS tracking system, Robert Vision System, Industrial Process Control, Safety Protection etc.;

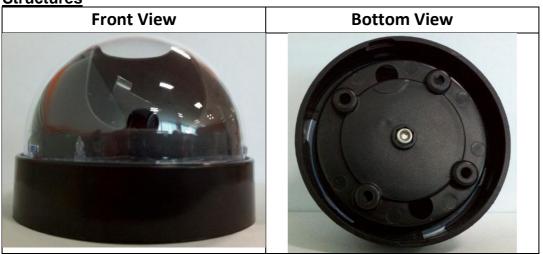
Block Diagram

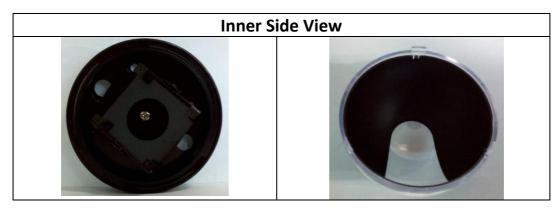


Atlas



Structures





Features

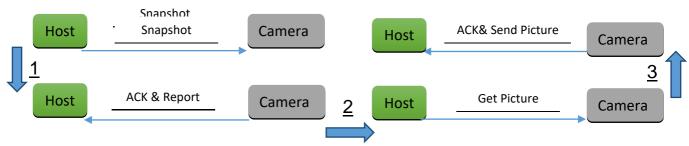
- Cost Effective: Low-cost & low-powered solution for a image acquisition system;
- Various Pixel Dimension: VGA / QVGA / QQVGA for different requirements;
- Low Image Data: JPEG compressed with 4-compression ratio configuration;
- Multiple UART Ports: RS-232, RS-485, TTL for different hosts;
- Different Baud Rate: Support Max 115200bps;
- Application Environment: Daytime Mode or Day / Night Mode;
- Various Lens Option: 2.8mm/3.6mm

Packing list

Camera 1
Self-Drilling Screw 3
Certificate of Approval 1

Command Summary

No.	Function	Description
1	Snapshot	Request camera to snapshot a specific size picture & divide it into packages.
2	Report	Camera report picture size & number of packages of the snapshot to host deice
3	Get Picture	Host device sends to get the specified picture data package
4	Send Picture	Camera transmits the specified data package to host device
5	Change ID No.	The host sends this command to change the camera ID NO
6	Alter Compression Rate	Host sends this to set new picture compression rate to adjust picture quality.
7	Change Baud Rate	Setting a new Baud Rate for Camera



Datasheet

Туре	D/ N Type-850	D/ N Type-940	
Sensor			
Туре	1/4 OV CMOS Progressive Sensor		
S/N Ratio	50dB		
Dynamic Range	60dB		
AEC	Yes		
AGC	Yes		
AWB	Yes		
Electronic Shutter	Automatic from 1/60(1/50)~1/100,000 Sec.		

Lens				
Туре	Double-peak 850-IR Lens	Double-peak 940-IR Lens		
Mount	M	M12		
Focal Length (mm)	2.8 / 3.6			
F.O.V (D.H.V)	120°, 90°, 75° (2.8mm L	ens F.O.V. for reference)		
Iris	Fixed			
Infrared Led				
IR Led	18pcs-850 IR Led	18pcs-940 IR Led		
Minimum Illumination	1 Lux (IR ON)			
willimum mummation	5 Lux (IR OFF)			
Night Vision	5 Meter - 6 Meter			
Day/Night Switch	Auto / Light Resister			
Image				
Resolution	VGA / QVGA / QQVGA			
Pixels	0.3 Mega Pixels			
Compression	JPEG Format			
Video	No	ne		
Day Mode	Fraction Color Cast I mage	Little Color Cast Image		
Night Mode		Black & White Image		
Mirror	Erect image with normal installation / flip installation			
OSD Display	No			
SD Card Storage	No	None		
Communication				
UART Interface	RS232 / RS485 / TTL			
ID No.	Default "0"			
Data Frame Type	8+n+1			
Baud Rate (bps)	2400 / 9600 / 14400 / 19200 / 38400 / 57600 / 115200			
Protocol	TV Protocol / OV528 / VC0706			
Testing Software	ZMCapture / ZMTOOLS			
Power				
Power Supply	5V / 9V-36V			
Standby Current	70mA @ 5V			
Working Current	IR Off: 110-130mA @ 5V			
5 .	IR On: 350-360mA @ 5V			
Environment		(, , , , , , , , , , , , , , , , , , ,		
Operate Temp.	-20°C~70°C (-4°F~158°F)			
Operate Hum.	10%~85% Non-condensing			
Storage Temp.	-25°C~75°C (-13°F~167°F)			
Storage Hum.	0%~90% Non	i-condensing		
Cable				
Cable Type	Shielded Line / N			
Cable Length	0.5 Meter			
Power Converter	None / 9V-36V Power Input None / TBD			
Converter Place	None	/ IBD		
Connector				
Connector	Wire Lead Only / DB9 Fer	·		
	PIN 1: VCC (Red Wire)			
Standard Pin Des.	PIN 2: TXD (Green Wire)			
	PIN 3: RXD (Yellow Wire)			
Discosional Involu	PIN 5: GND (Black Wire)			
Physical Index				
Net Weight (kg)	0.3 (for Re	,		
Product Size (mm)	Ф78			
Packing Method	Gift Box			