SoooGuard INC

Model No.: TVDS030

JPEG Compression UART Serial Interface Analog & Digital Camera

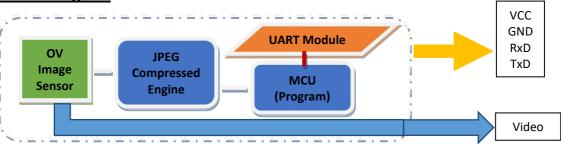
General Description

The TVDS030 is a high integrated indoor camera that performs as a JPEG compressed still picture & video camera, which also provides a standard serial 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. Or view the video from the monitor.

Application

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

Block Diagram



Atlas

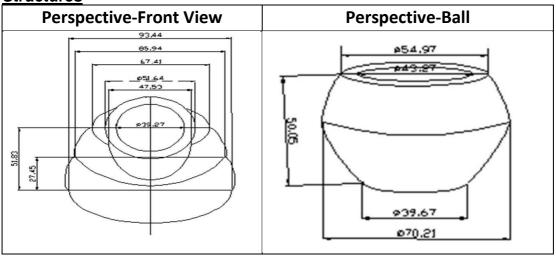


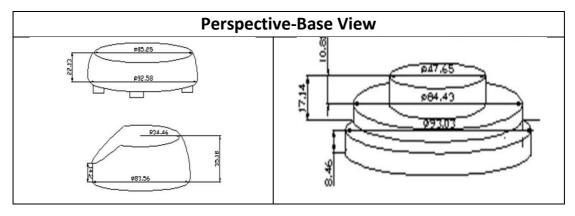
D/ N Type-850



D/ N Type-940

Structures





Features

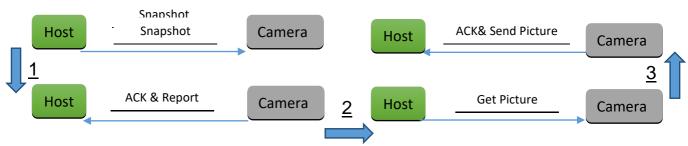
- Cost Effective: Low-cost & low-powered solution for a image acquisition system;
- Various Pixel Dimension: VGA / QVGA / QQVGA for different requirements;
- Low Image Data: JPEG compressed with 4-compression ratio configuration;
- Multiple UART Ports: RS-232, RS-485, TTL for different hosts;
- Different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

Packing list

•	Camera	1
ullet	Self-Drilling Screw	3
ullet	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	M1	M12		
Focal Length (mm)	2.8 / 3	.6 / 6		
F.O.V (D.H.V)	120°, 90°, 75° (2.8mm Le	ens F.O.V. for reference)		
Iris	Fixed			
Infrared Led				
IR Led	18pcs-850 IR Led	18pcs-940 IR Led		
Minimum Illumination	1 Lux (I	R ON)		
Minimum mummation	5 Lux (IR OFF)			
Night Vision	5 Meter - 6 Meter			
Day/Night Switch	Auto / Ligh	Auto / Light Resister		
Image				
Resolution	VGA / QVGA / QQVGA			
Pixels	0.3 Mega Pixels			
Compression	JPEG Format			
Video	PAL/I	NTSC		
Day Mode	Fraction Color Cast I mage	Little Color Cast Image		
Night Mode		Black & White Image		
Mirror	Erect image with normal in			
OSD Display	Nor			
SD Card Storage	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	511/01			
Power Supply	5V / 9V-36V			
Standby Current	70mA @ 5V			
Working Current	IR Off: 110-130mA @ 5V			
Environment	IR On: 350-360mA @ 5V			
Environment	2010:170 0	495245095)		
Operate Temp.	-20°C~70°C (-4°F~158°F) 10%~85% Non-condensing			
Operate Hum.				
Storage Temp.	-25°C~75°C (-			
Storage Hum.	0%~90% Non	-condensing		
Cable	Chiable drive / N			
Cable Type	Shielded Line / No			
Cable Length		0.5 Meter		
Power Converter Converter Place	None / 9V-36V Power Input None / TBD			
	None	del		
Connector	Wire Load Only / DRO Female	Connector / Others L CVP		
Connector	Wire Lead Only / DB9 Female	· · · · · · · · · · · · · · · · · · ·		
	PIN 1: VCC (Red Wire)			
Standard Pin Des.	PIN 2: TXD (Green Wire) PIN 3: RXD (Yellow Wire)			
	PIN 3: RXD (Yellow Wire) PIN 5: GND (Black Wire)			
Physical Index] I IIV 3. GIVD (DIGGRESS TO STATE OF THE STATE		
Net Weight (kg)	O 2E Ifor D	eference)		
Product Size (mm)	0.25 (for Reference) Φ92* 66			
Packing Method	Gift Box			
racking intertion	GIII ROX			