SoooGuard INC

Model No.: TVMS030

JPEG Compression UART Serial Interface Vandal-proof VGA Camera

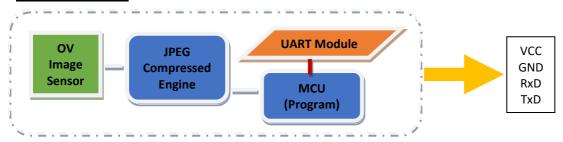
General Description

The TVMS030 is a high integrated Vandal-proof camera that performs as a JPEG compressed still 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.

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

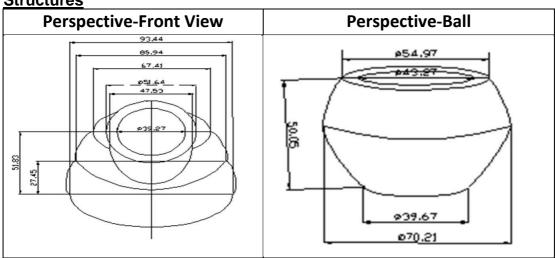


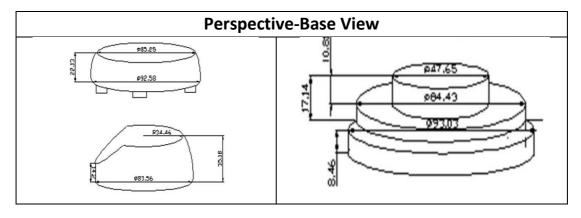
D/ N Type-850



D/ N Type-940

Structures





Features

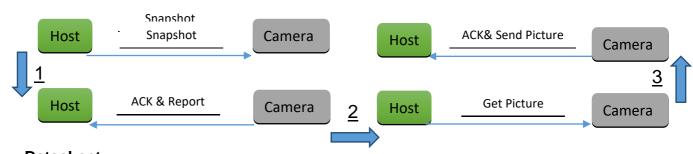
- Cost Effective: Low-cost & low-powered solution for a image acquisition system;
- Various Pixel Dimension: VGA / QVGA / QQVGA for different requirements;
- Low Image Data: JPEG compressed with 4-compression ratio configuration;
- Multiple UART Ports: RS-232, RS-485, TTL for different hosts;
- Different Baud Rate: Support Max 115200bps;
- Application Environment: Daytime Mode or Day / Night Mode;
- Various Lens Option: 2.8mm/3.6mm/6mm

Packing list

lacktriangle	Camera	1
lacktriangle	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	M12			
Focal Length (mm)	2.8 / 3.6 /	6/8/12		
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)		
Millimum mummation	5 Lux (IR OFF)			
Night Vision	5 Meter - 6 Meter			
Day/Night Switch	Auto / Light Resister			
lmage				
Resolution	VGA / QVGA / QQVGA			
Pixels	0.3 Mega Pixels			
Compression	JPEG Format			
Video	Nor	ne		
Day Mode	Fraction Color Cast I mage	Little Color Cast Image		
Night Mode	Black & Wh			
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	51/ /0	1261		
Power Supply	5V / 9V-36V			
Standby Current	70mA	_		
Working Current	IR Off: 110-130mA @ 5V			
Environment	IR On: 350-360mA @ 5V			
Environment	20°Cv70°C /	495045095)		
Operate Temp. Operate Hum.	-20°C~70°C (-4°F~158°F) 10%~85% Non-condensing			
Storage Temp.	-25°C~75°C (-			
Storage Hum.	-23 C 73 C (- 0%~90% Non-	·		
Cable	0% 90% NOTE	-condensing		
	Chielded Line / No	an ahialdad Lina		
Cable Type	Shielded Line / No			
Cable Length Power Converter	0.5 Meter			
Converter Place	None / 9V-36V Power Input None / TBD			
Connector	None /			
Connector	Wire Lead Only / DB9 Fen	aala Cannactar / Others		
Connector		·		
	PIN 1: VCC (Red Wire) PIN 2: TXD (Green Wire)			
Standard Pin Des.	PIN 2: TXD (Green Wire) PIN 3: RXD (Yellow Wire)			
	PIN 5: KXD (Yellow Wire) PIN 5: GND (Black Wire)			
Physical Index	1 117 3. 3170 (
Net Weight (kg)	1.0 (for Re	eference)		
Product Size (mm)		,		
Packing Method	Φ92* 66 Gift Box			
racking iviethor	GIII ROX			