

Model No.: TVSS030

JPEG Compression Indoor VGA Camera UART Serial Interface

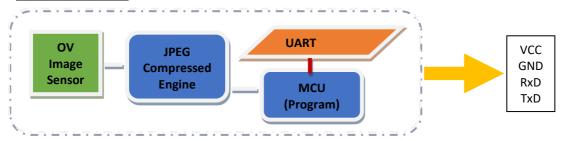
General Description

The TVBS030 is a high integrated indoor 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-940

Features

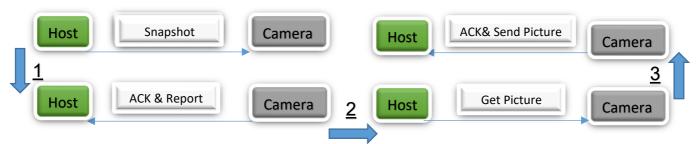
- Cost Effective: Low-cost & low-powered solution for a image acquisition system;
- Various Pixel Dimension: VGA / QVGA / QQVGA for different requirements;
- Low Image Data: JPEG compressed with 4-compression ratio configuration;
- Multiple UART Ports: RS-232, RS-485, TTL for different hosts;
- Different 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
Glue Cushion	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

Type D/ N Type-850 D/ N Type-940 Sensor Type 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 Double-peak 850-IR Lens Double-peak 940-IR Lens Mount M12 Focal Length (mm) 2.8 / 3.6 F.O.V (D.H.V) 120°, 90°, 75° (2.8mm Lens F.O.V. for reference) Iris Fixed Infrared Led IR Led 18pcs-940 IR Led Minimum Illumination 5 Lux (IR ON) S Lux (IR OFF) Night Vision 5 Meter- 6 Meter Day/Night Switch Auto / Light Resister Image VGA / QVGA / QQVGA Pixels O.3 Mega Pixels	Batasnect			
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Infrared Led	F.O.V (D.H.V)	120°, 90°, 75° (2.8mm Lens F.O.V. for reference)		
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S Lux (IR OFF) Night Vision	Minimum Illumination	1 Lux (IR ON)	
Day/Night SwitchAuto / Light ResisterImageVGA / QVGA / QQVGAPixels0.3 Mega Pixels	Williman manination	5 Lux (IR OFF)		
Image Resolution VGA / QVGA / QQVGA Pixels 0.3 Mega Pixels	Night Vision	5 Meter- 6 Meter		
Resolution VGA / QVGA / QQVGA Pixels 0.3 Mega Pixels	Day/Night Switch	Auto / Light Resister		
Pixels 0.3 Mega Pixels	Image			
	Resolution	VGA / QVGA / QQVGA		
	Pixels			
Compression JPEG Format	Compression	JPEG Format		
Video None	Video	None		
Day Mode Fraction Color Cast I mage Little Color Cast Image	Day Mode	Fraction Color Cast I mage	Little Color Cast Image	
Night Mode Black & White Image	Night Mode	Black & White Image		
Mirror Erect image with normal installation / flip installation	Mirror	Erect image with normal installation / flip installation		
OSD Display None	OSD Display	None		
SD Card Storage None	SD Card Storage	None		
Communication	Communication			
UART Interface RS232 / RS485 / TTL	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		
Working Current	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-condensing		
Cable			
Cable Type	Shielded Line / Non-shielded Line		
Cable Length	0.5 Meter		
Power Converter	None / 9V-36V Power Input		
Converter Place	None / TBD		
Connector			
Connector	Wire Lead Only / DB9 Female Connector / Others		
	PIN 1: VCC (Red Wire)		
Standard Pin Des.	PIN 2: TXD (Green Wire)		
Standard Fin Des.	PIN 3: RXD (Yellow Wire)		
	PIN 5: GND (Black Wire)		
Physical Index			
Net Weight (kg)	0.2 (for Reference)		
Product Size (mm)	Ф 68* 60		
Packing Method	Gift Box		