# **SoooGuard INC**

# Model No.: TVBF030

JPEG Compression Indoor VGA Camera UART Serial Interface

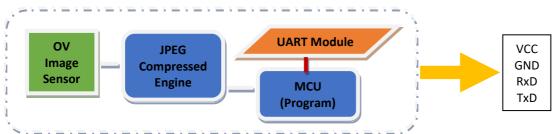
#### **General Description**

The TVBF030 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**



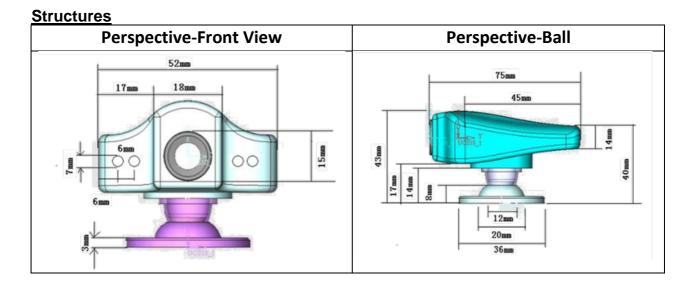
<u>Atlas</u>



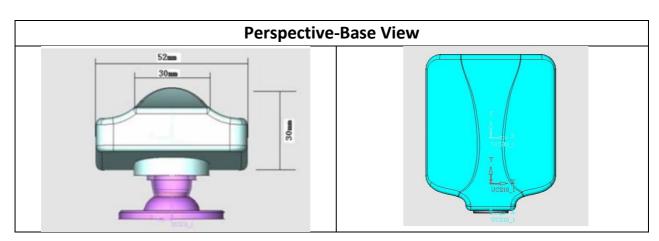
D/ N Type-850



D/ N Type-940



Bldg B, Macao Ind Park, Zhangge Community, Guanlan Town, Longhua New District, Shenzhen, China. 518110.Tel: (86) 135 4423 2861Email: sales@soooguard.comWeb: <a href="https://www.soooguard.com">https://www.soooguard.com</a>



## **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

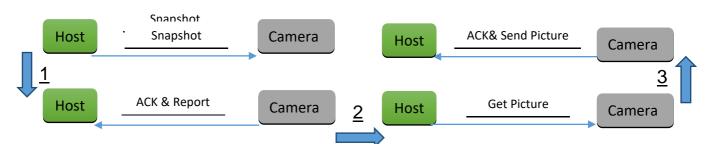
#### Packing list

- Camera 1Self-Drilling Screw 3
- Certificate of Approval

# **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	

1



#### **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		

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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		
F.O.V (D.H.V)	120°, 90°, 75° (2.8mm Lens 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)		
	5 Lux (IR OFF)		
Night Vision	5 Meter - 6 Meter		
Day/Night Switch	Auto		
Image			
Resolution	VGA / QVGA / QQVGA		
Pixels	0.3 Mega Pixels		
Compression	JPEG Format		
Video	None		
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	None		
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 Testing Software	TV Protocol / OV528 / VC0706 ZMCapture / ZMTOOLS		
Power			
Power Supply Standby Current	5V / 9V-36V 70mA @ 5V		
	IR Off: 110-130mA @ 5V		
Working Current	IR On: 350-360mA @ 5V		
Environment			
Operate Temp.	-20°C~70℃ (-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 Dia Dea	PIN 2: TXD (Green Wire)		
Standard Pin Des.	PIN 3: RXD (Yellow Wire)		
	PIN 5: GND (Black Wire)		
Physical Index			
Net Weight (kg)	0.25 (for Reference)		
Product Size (mm)	52 * 57 * 74		
Packing Method	Gift Box		

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