

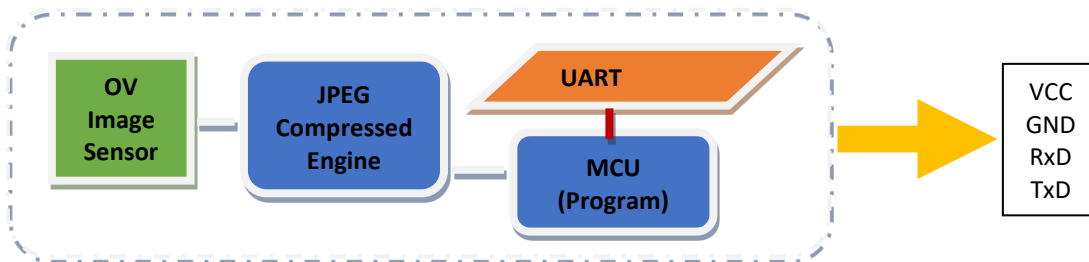
**General Description**

The TVMI030-I6 is a high integrated Mini 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**



**Features**

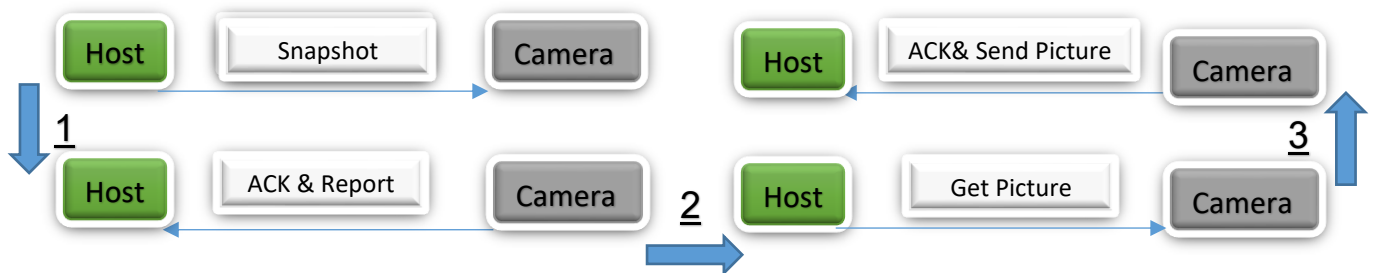
- **Cost Effective:** Low-cost & low-powered solution for a image acquisition system;
- **Various Pixel Dimension:** VGA / QVGA / QQVGA for different requirements;
- **Low Image Data:** JPEG compressed with 4-compression ratio configuration;
- **Multiple UART Ports:** RS-232, RS-485, TTL for different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

**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 device
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
<b>Sensor</b>		
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.	
<b>Lens</b>		
Type	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	
<b>Infrared Led</b>		
IR Led	6pcs-850 IR Led	6pcs-940 IR Led
Minimum Illumination	1 Lux (IR ON)	
	5 Lux (IR OFF)	
Night Vision	3 Meter- 4 Meter	
Day/Night Switch	Auto	
<b>Image</b>		
Resolution	VGA / QVGA / QQVGA	
Pixels	0.3 Mega Pixels	
Compression	JPEG Format	
Video	None	
Day Mode	Fraction Color Cast Image	Little Color Cast Image
Night Mode	Black & White Image	
Mirror	Erect image with normal installation / flip installation	
OSD Display	None	
SD Card Storage	None	
<b>Communication</b>		

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
<b>Power</b>	
Power Supply	5V / 9V-36V
Standby Current	70mA @ 5V
Working Current	IR Off: 110-130mA @ 5V
	IR On: 200-230mA @ 5V
<b>Environment</b>	
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
<b>Cable</b>	
Cable Type	Shielded Line / Non-shielded Line
Cable Length	0.5 Meter
Power Converter	None / 9V-36V Power Input
Converter Place	None / TBD
<b>Connector</b>	
Connector	Wire Lead Only / DB9 Female Connector / Others
Standard Pin Des.	PIN 1: VCC (Red Wire)
	PIN 2: TXD (Green Wire)
	PIN 3: RXD (Yellow Wire)
	PIN 5: GND (Black Wire)
<b>Physical Index</b>	
Net Weight (kg)	0.15 (for Reference)
Product Size (mm)	50*56*30
Packing Method	Gift Box