



RS Serial Port JPEG CMOS Camera

Roadsay develops and produces serial JPEG video cameras, as a kind of accessories of RS video vehicle tracking units to implement vehicle picture monitoring or interior surveillance.

The CMOS Camera, with JPEG compression module, performs as a video camera or a JPEG compressed still camera and can be attached to RS2100C via RS232/RS485. RS2100C/C1 will send out a snapshot command to the camera according the center downlink message or when predefined alarm initiated, in order to capture a full resolution single-frame still picture. As soon as the camera take a photo, it will compressed the photo by the JPEG engine and send the picture index and data to RS2100C/C1 automatically. Then RS2100C/C1 upload the picture data via TCP/UDP(GPRS). Also RS2100C/C1 can read any part of the picture data by sending a command.

One RS2100 RS232 serial port can take eight cameras (rs485) simultaneously via connecting bus converter.

Specification

- Power Supply: DC 5V/0.1A (standby) 0. 5A (camera and infrared light up).
- Operational Temp. -20°C to +60°C , Storage Temp. -45°C to +75°C
- Resolution: 300,000 pixels, high-performance color CMOS image sensor, similar to CCD effect, with good cost performance.
- Visual angle:90°
- Output video:PAL,50Hz
- Picture format: Each image format VGA (640x480), QVGA (320x240), QQVGA (160x120) correspond to four kinds of compression quality: A: General, B: good, C: better, D: best
- Built-in infrared camera light panels. Multiple small current, long-term aging. E.g.,low light when the camera automatically open within 30 infrared LED lighting Φ5mm for plastic conch shell camera.
- Size: Plastic conch Shell or aluminum conch shell Φ93mm x 75mm. Hemispherical shell, Φ102 x 70 mm. mini Plastic conch ShellΦ70mm x 50mm,mini plastic Hemispherical shell, Φ87 x 65 mm
- Optional Extra Single-BNC plug for adjusting the output video when installed.
- Communication interface: full-duplex asynchronous serial, baud rate 9600 ~ 38400
- Cable length:3meters.

There many kinds of cameras with different size to meet your requirement, ordinary plastic conch shell camera, aluminum conch shell camera with water proof, plastic hemisphere shell camera and special mini-size camera(square or mini size conch shell and hemisphere shell) for taxi or car.

Universal RS JPEG Camera



Plastic conch Shell
Packed size:10*10*9cm
Mimi size:7*7*6cm

Plastic hemisphere shell
Packed size:12*12*10cm
Mini size:9*9*7cm

Waterproof cast aluminum conch shell
Packed size:10*10*9cm

- plastic conch Shell, waterproof cast aluminum conch shell, plastic shell hemisphere are available. And mini-size modes are applicable to taxi and sedan.
- serial interface output JPEG image data, optional video connector in installation and debugging output TV signal, on-site construction advantages.
- 300,000-pixel CMOS color image sensor, similar CCD effect with low-light
- 485,232 optional serial interface means to provide a dedicated serial interface converter, 232 Bus interface can also work, may realize one trailer 8.
- have a sleep / wake-up function, dormant state communications, the inquiry job as usual, only a dozen or so 20 mA current.
- With IR, inadequate lighting up when the camera auto-infrared light.
- Can read the existing image, number of bytes for each picture, downloadable memory, reading the image photographing date and time.
- Optional photograph store on camera. M-type can store lots of photos, brown-out does not lose data, the largest storage volume 255, QVGA photos typical storage 120, VGA photos typical storage 60. Cycle storage method, storage life is extended more times.

Special camera for taxi or sedan



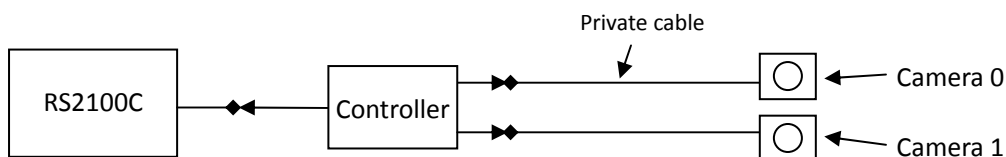
Set



camera



controller



- Compact structure, three installation options, easy to install on headliner and adjust.
- serial interface output JPEG image data, optional video connector in installation and

debugging output TV signal, on-site construction advantages.

- 300,000-pixel CMOS color image sensor, similar CCD effect at low-light.
- CAMV36 can cache a photograph.
- One RS2100 support one controller and every Controller can be connected with two Cameras at the same time.
- have a sleep / wake-up function, dormant state communications, the inquiry job as usual, only a dozen or so mA current.
- inadequate lighting up when the camera auto-infrared light.
- Can read the existing image, number of bytes for each picture, downloadable memory, reading the image photographing date and time.
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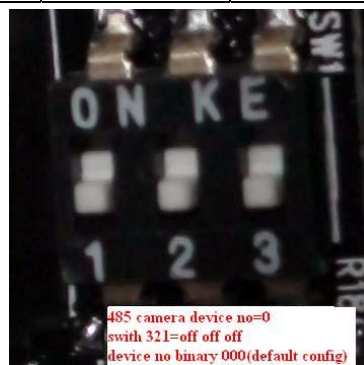
Converter for serial interface(RS232/RS485)

dedicated serial interface converter to convert RS-232(non-bus-type interface) to RS-485(bus interface), in order to connect more RS485 cameras(8 at most)with one RS232 equipped.

RS485 device number setting

RS485 is bus interface to support more than one device with different device no(One RS2100 can support more than one cameras,at most 8 RS cameras, at the same time via RS232/485 converter). There are three switches in RS485 camera. PLS use the 3 switches to set every RS485 camera's device number. Otherwise the camera does not work.

	Switch 3	Swith 2	Switch 1	Binary No	Decimal device no
state	off	off	off	000	0
	off	off	on	001	1
	off	on	off	010	2
	off	on	on	011	3
	on	off	off	100	4
	on	off	on	101	5
	on	on	off	110	6
	on	on	on	111	7



RS485 camera Device No setting

Mini-size LCD display

Dedicated RS JPEG camera installation adjustment. There are two different frame size with the same technical parameters.



Technical parameters:

- a) Screen Size 3.5 inches
- b) standard PAL / NTSC
- c) Pixels RGB, 640 (W) × 480 (H)
- d) Power Supply DC 9-32V, white line of plug is the cathode
- e) Power consumption 1.0W
- f) Temperature -15 °C ~ +50 °C