RS232 Camera User Guide
For GVxxx-Series Devices

ACCEACR100UG001

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http://www.queclink.com
sales@queclink.com

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Contents

0. Revision History

Revision	Date	Author	Description of change
1.00	2013-12-05	Ricker Liu	Initial

1. General Description

RS232 Camera is a 300K pixel camera with RS232 logic level output, which could directly connect with GVxxx-Series device (with RS232 port) of Queclink.

2. Product Specification

2.1. Appearance

Camera

Power Adapter

2.2. Parts List

Name	Picture	Remark
Camera		RS232 Camera
Power Adapter (Optional)		Wide input voltage is from 10V to 24V; output voltage is 5V

2.3. Camera Specification

1	Operating Temperature	-20℃ to 70℃
2	Pixel	300K
3	Resolution	160×120, 320×240, 640×480
4	Output Format	JPEG
5	Operating Voltage	5V
6	Communication Baud Rate	115200
7	Operating Current	Below 100 mA
8	Illumination (Min)	1 lux
9	Colour Balance	Auto
10	Camera Lens	2.8 MM infrared R940 light
11	Exposure	Auto
12	Angle of View	110°
Night Vision Parameters		
13	Opening Night Vision Illumination	5 lux
14	Image of Night Vision	Black and white
15	Night Vision Distance	2M to 3M
16	Output Model	RS232
17	Wire Length	2M
18	Humidity	20% to 80%

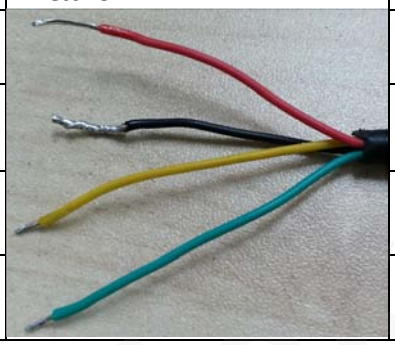
3. Installation

3.1. Interface Description

There is 4-wire interface on Camera, and 2-wire input interface (wide input range: 10V-24V) and 2-wire output interface (the output voltage is 5V and the output current is 1.5A) on Power Adapter. The description of the wires and sample connection between Camera, Power Adapter and GV200/GV300 are shown as follows.

3.2. Interface Definition

1. Camera Interface Definition

PIN Name	Color	Picture	Description
VDD	RED		Power supply
GND	BLACK		Ground
RXD	YELLOW		RS232 logic level, receive data
TXD	GREEN		RS232 logic level, transmit data

2. Power Adapter Interface Definition

PIN Name	Color	Picture	Description
VIN	RED		Input voltage range: 10V to 24V
GND	BLACK		Ground
VOUT_5V	RED		Output voltage is 5V with output current 1.5A
GND	BLACK		Ground

3.3. Camera Interface

Camera Connects to the GVXXX

Camera	PIN Name	Color	Description	Connect to GV300	Connect to GV200
4-wire Interface	**VDD**	RED	5V input	/	/
	GND	BLACK	Ground	/	/
	TXD	GREEN	RS232 logic level, receive data, connect to TXD of GV300/GV200 devices	PIN5 TXD	PIN11 TXD2
	RXD	YELLOW	RS232 logic level, transmit data, connect to RXD of GV300/GV200 devices	PIN4 RXD	PIN9 RXD2

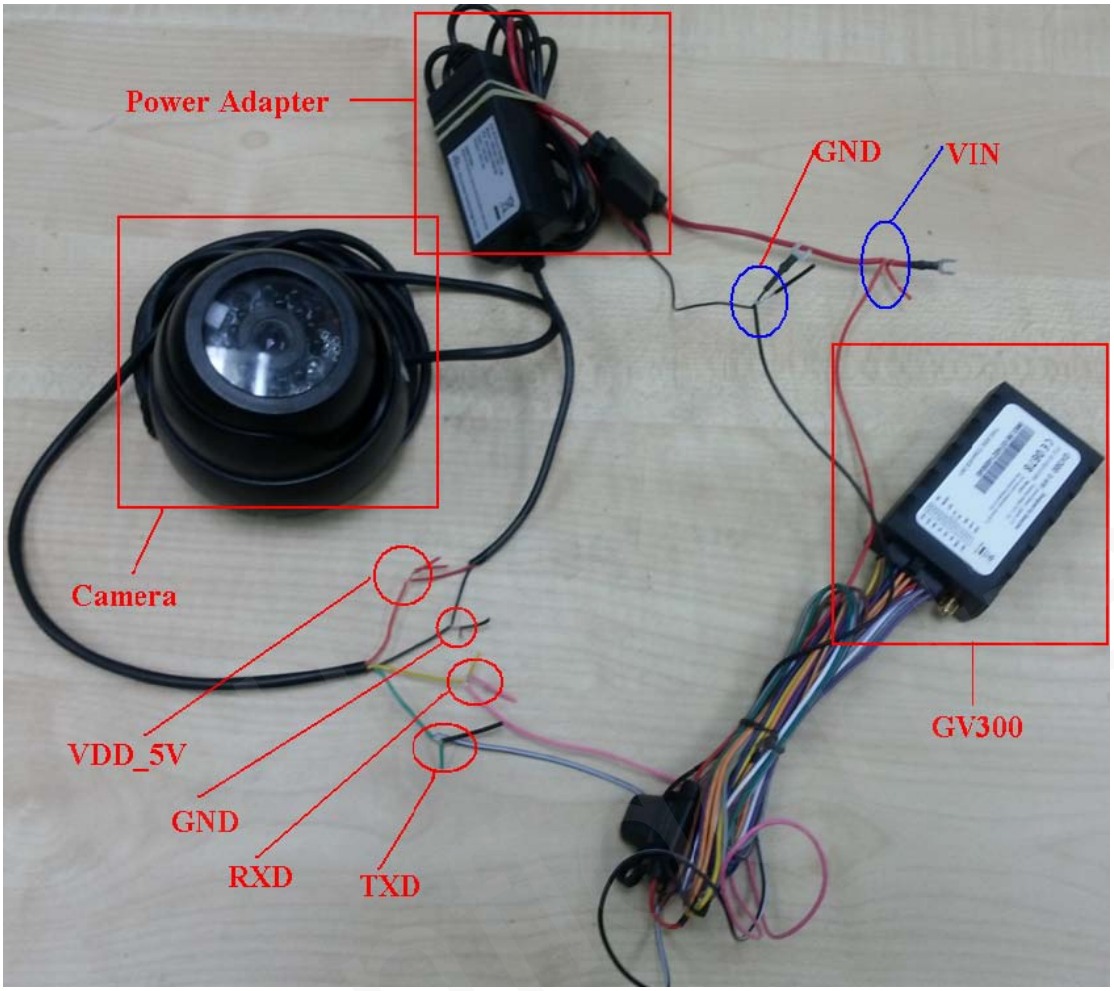
3.4. Power Adapter Interface

Power Adapter Interface Connects to Camera

POWER ADAPTER	PIN Name	Color	Description	Camera
Input Interface	**VIN**	RED	Power input. Input range: DC 10V-24V	/
	GND	BLACK	Ground	/
Output Interface	**VOUT_5V**	RED	The output voltage is 5V with current 1.5A	VDD (RED)
	GND	BLACK	Ground	BLACK

3.5. Connection Sample

Camera connection with GV300 device as follows:



4. Message Format and Operation

Reference GVxxx @Track Air Interface Protocol.