



ACCEACR100UG001

Revision: 1.00



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ACCEACR100UG001 -1-



## **Contents**

Contents	2
0. Revision History	3
1. General Description	4
2. Product Specification	5
2.1. Appearance	
2.2. Parts List	
2.3. Camera Specification	
3. Installation	
3.1. Interface Description	8
3.2. Interface Definition	9
3.3. Camera Interface	10
3.4. Power Adapter Interface	11
3.5. Connection Sample	
4. Message Format and Operation	



# 0. Revision History

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

ACCEACR100UG001 - 3 -



# 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.

ACCEACR100UG001 - 4 -



## 2. Product Specification

## 2.1. Appearance



Camera



**Power Adapter** 

ACCEACR100UG001 -5-



#### 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

ACCEACR100UG001 - 6 -



## 2.3. Camera Specification

1	Operating Temperature	-20°C to 70°C	
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°	
Nigh	nt 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%	

ACCEACR100UG001 -7-



### 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.

ACCEACR100UG001 -8-



### 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

ACCEACR100UG001 -9-



### 3.3. Camera Interface

### **Camera Connects to the GVXXX**

Camera	PIN Name	Color	Description	Connect to GV300	Connect to GV200
	VDD	RED	5V input	/	/
	GND	BLACK	Ground	/	/
4-wire Interface	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

ACCEACR100UG001 - 10 -



## 3.4. Power Adapter Interface

**Power Adapter Interface Connects to Camera** 

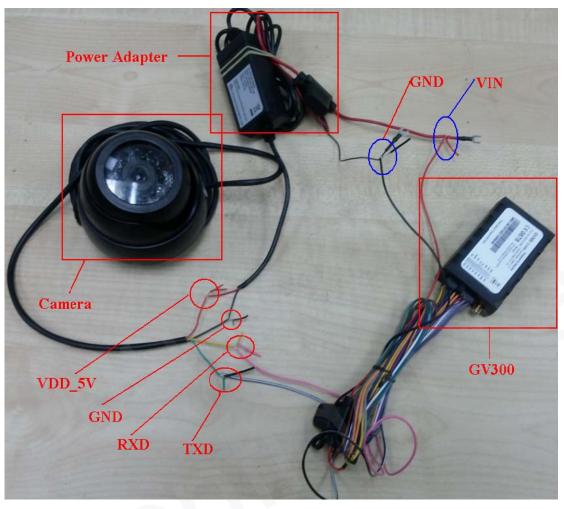
POWER ADAPTER	PIN Name	Color	Description	Camera
Input	VIN	RED	Power input. Input range: DC 10V-24V	/
Interface GND BL		BLACK	Ground	/
Output Interface	VOUT_5V	RED	The output voltage is 5V with current 1.5A	VDD (RED)
interface	GND	BLACK	Ground	BLACK

ACCEACR100UG001 -11-



### 3.5. Connection Sample

Camera connection with GV300 device as follows:



ACCEACR100UG001 - 12 -



## 4. Message Format and Operation

Reference GVxxx @Track Air Interface Protocol.

ACCEACR100UG001 - 13 -