LinkSprite

Step-by-Step Tutorial for Using LinkSprite JPEG Color Camera Serial UART Interface Model LS-Y201

Hardware needed

1. The camera itself
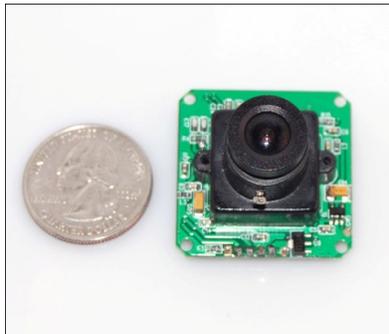
2. 5V power supply
3. RS232 Cable with DB9 female connector

Hardware connection
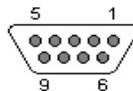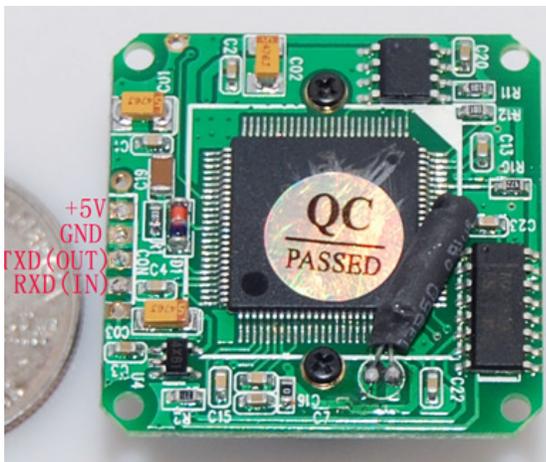
9 PIN DE-9 FEMALE at the Cable.

Pin	Name	RS232	V.24	Dir	Description
1	(D)CD	CF	109	←	(Data) Carrier Detect
2	RXD	BB	104	←	Receive Data
3	TXD	BA	103	→	Transmit Data
4	DTR	CD	108.2	→	Data Terminal Ready
5	GND	AB	102	—	System Ground
6	DSR	CC	107	←	Data Set Ready
7	RTS	CA	105	→	Request to Send
8	CTS	CB	106	←	Clear to Send
9	RI	CE	125	←	Ring Indicator

*TXD(out) of camera is connected to pin 2 (RXD) of the DE-9 FEMALE.*
RXD(in) of camera is connected to pin 3 (TXD) of the DE-9 FEMALE.
GND of camera is connected to pin 5 (GND) of the DE-9 FEMALE, and also connected to GND of Power.
+5V of camera is connected to power.

A photo of setup:
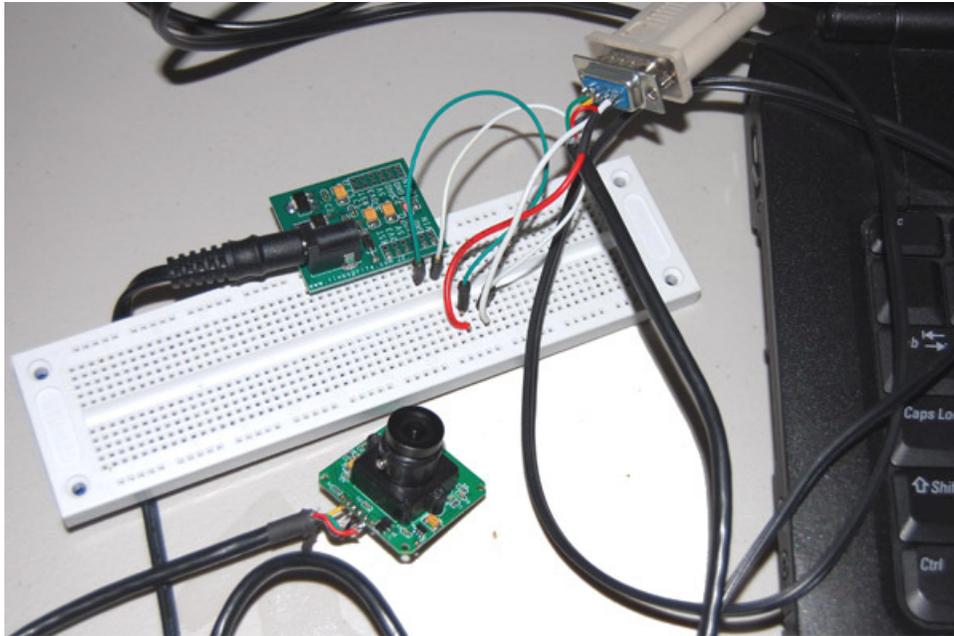
Software Needed

X-CTU from digi.com
Evaluation Utility: http://www.linksprite.com/download/showdownload.php?id=36&lang=en

Test Procedure

## Step 1: Sanity Check

Power On Reset.

X-CTU shows reset message:
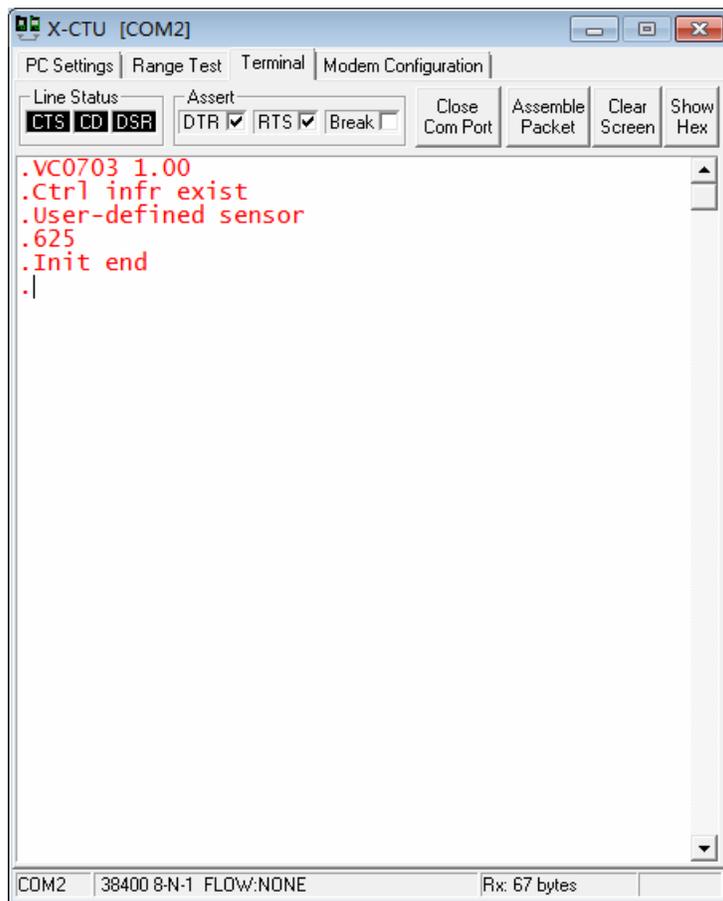
Step 2: Launch the evaluation GUI
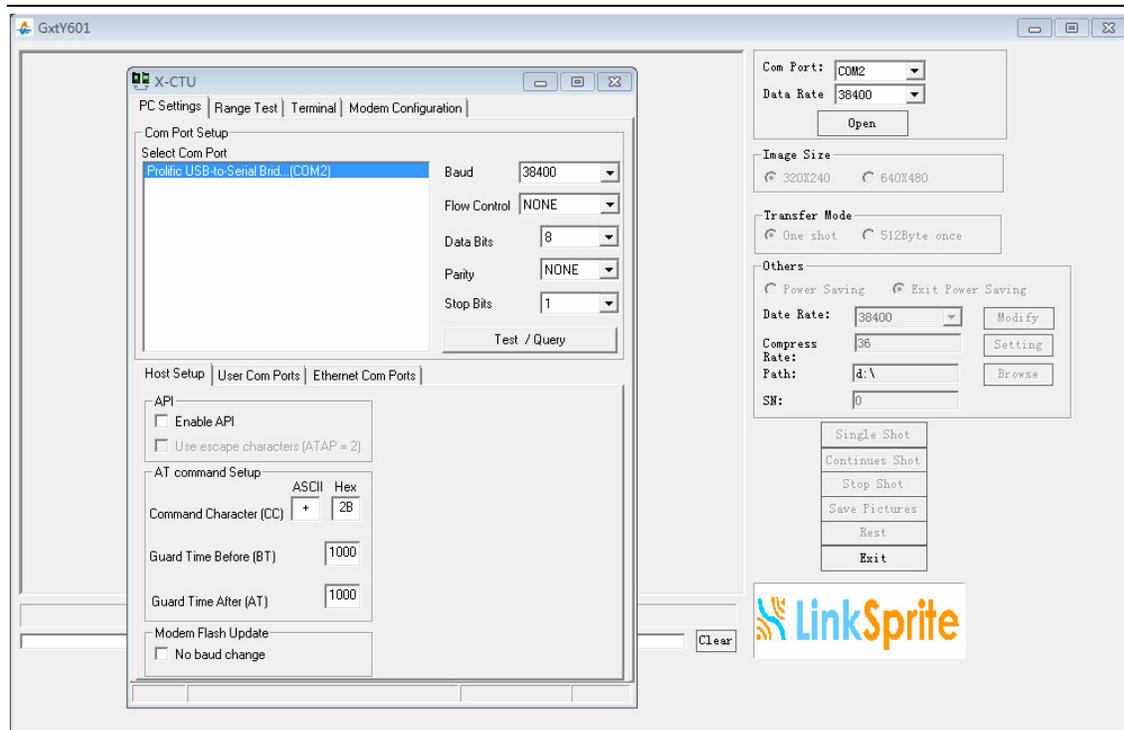
Click "Open" under the COM/Data Rate Section.

Modify the path for capture files. Note: this is a must. If the path is pointing to an invalid or unwritable location, the program may crash.

## Step 3-a: Take picture with the evaluation GUI
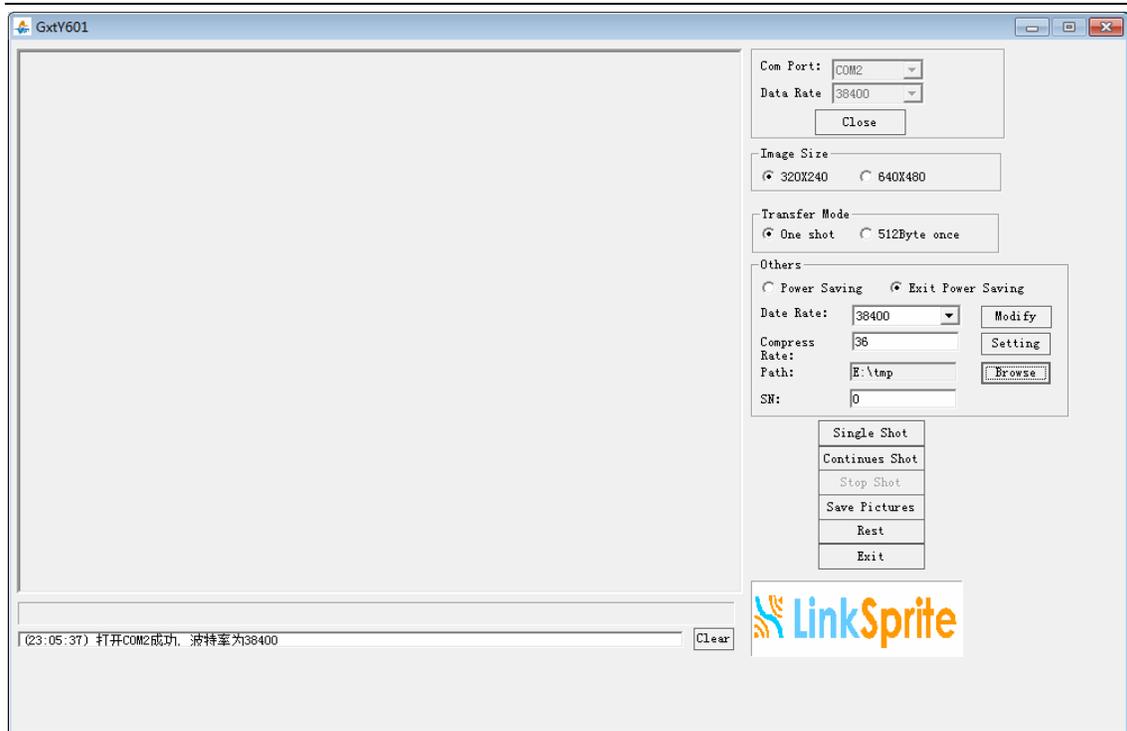
Click "Single Shot":
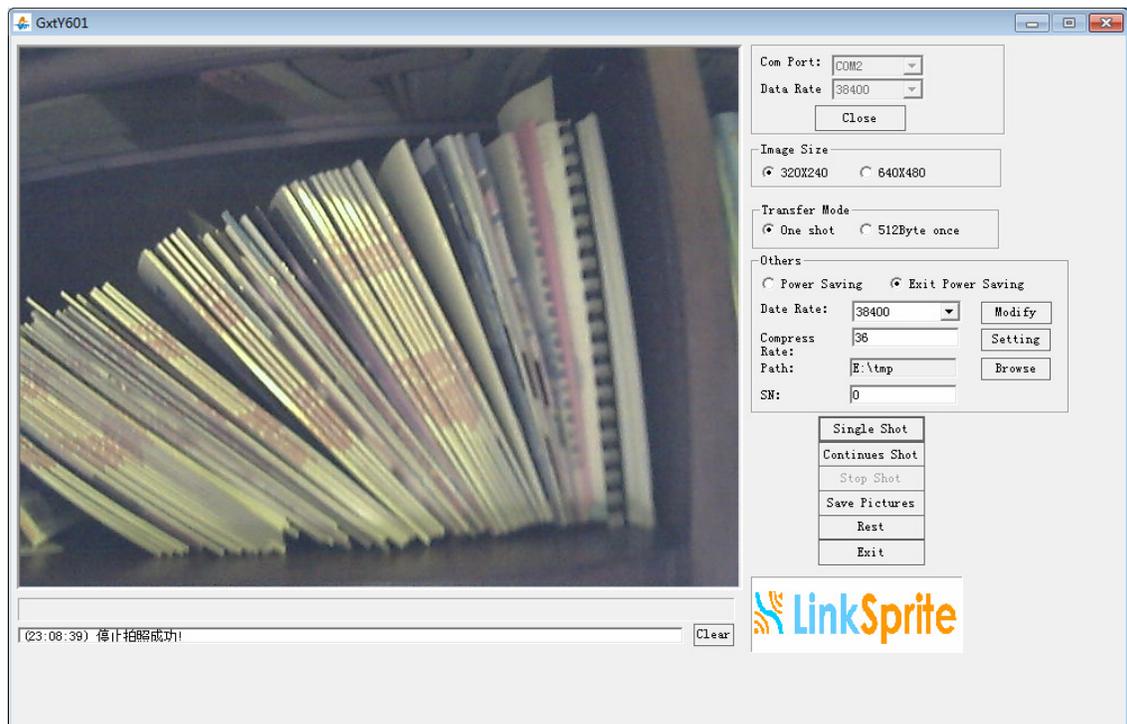
Step 3-b: Take picture with X-CTU

Compose command in HEX (refer to use manual) and Send data. X-CTU will show the command you just send and the Camera's returned message.

Take Picture command:
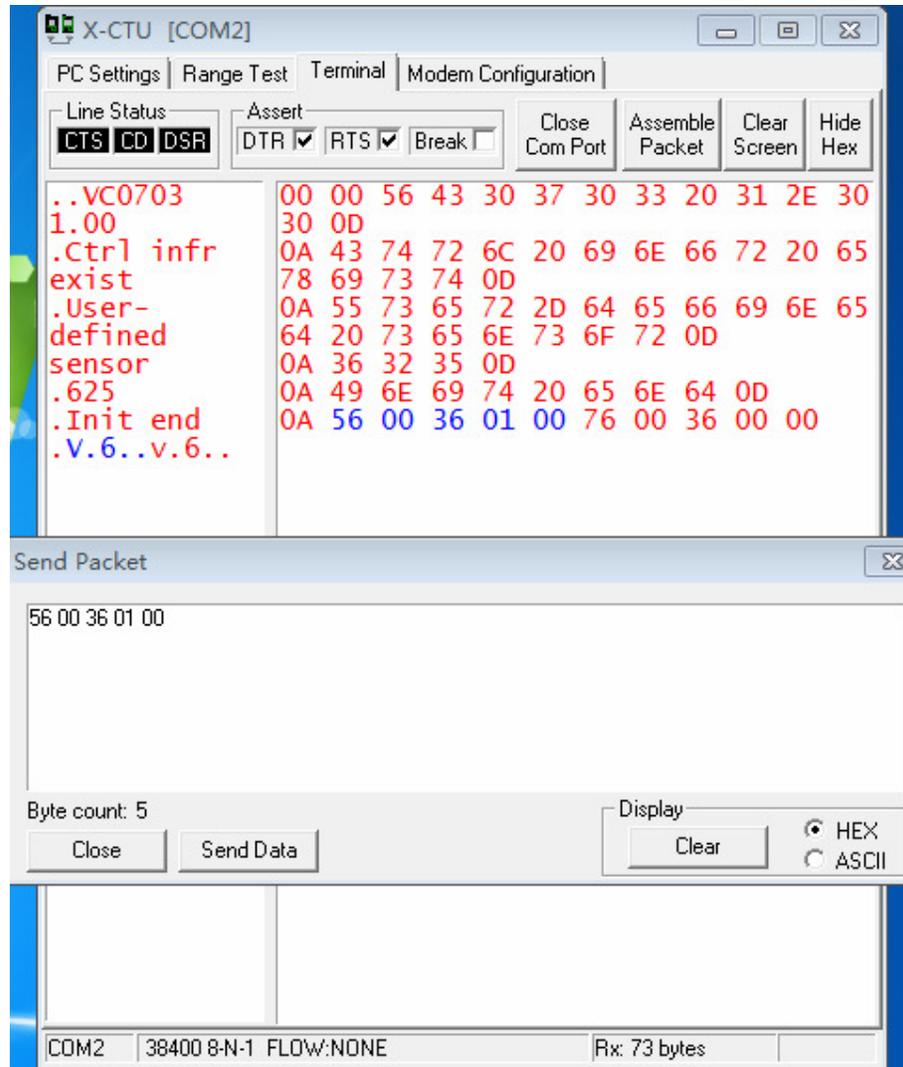
LinkSprite Technologies, Inc.

Add: 1410 Cannon Mountain Dr, Longmont, CO 80503

Tel: 720-204-8599

Email: sales@linksprite.com

Technical support: support@linksprite.com

Web: www.linksprite.com