



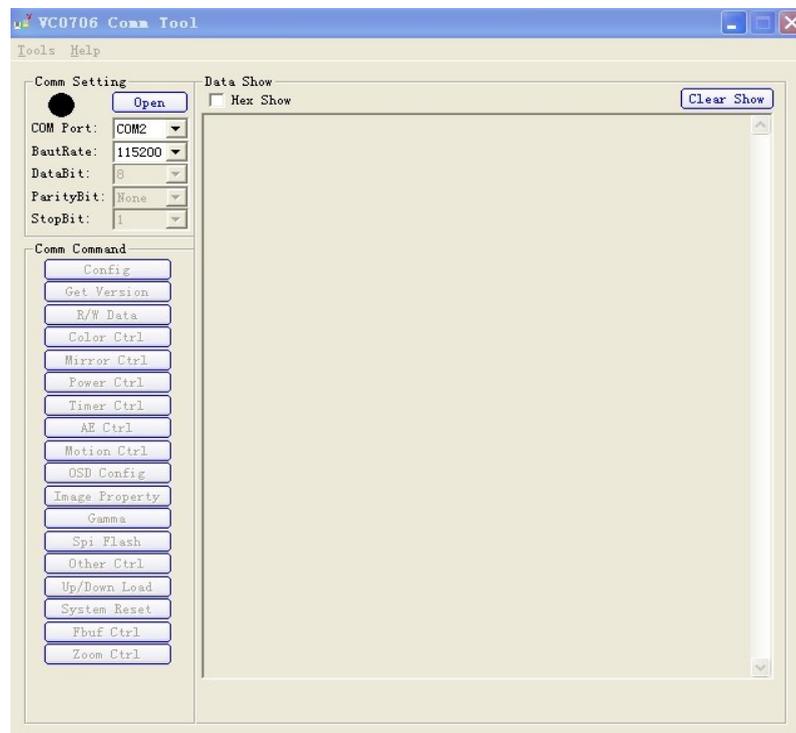
## VC070X Series Software Manual

### A. Ready

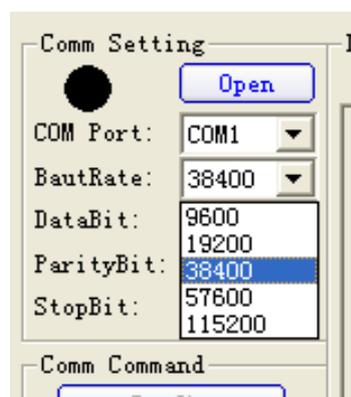
1<sup>st</sup> step: Install the software “VC0706CommTool(EN) Setup V1.00”.

2<sup>nd</sup> step: Connect module to COM port of computer via EV-board JC0706E and power ON. (We advise to connect the COM port directly, not use USB converter, because it is instable! The length of RS232 cable<3 m)

3<sup>rd</sup> step: Double click “VC0706CommTool(EN) Setup V1.00”.You will get the below window.

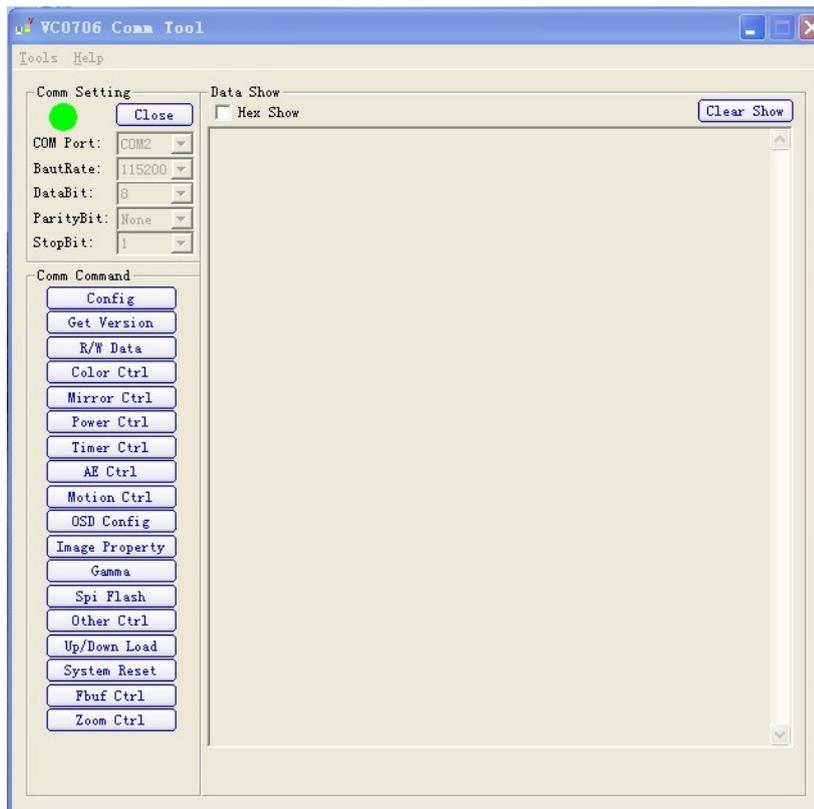


4<sup>th</sup> step: Choose correct “COM port” and “Baudrate” (You can consult supplier to get initial Baudrate) , then click “Open” button.

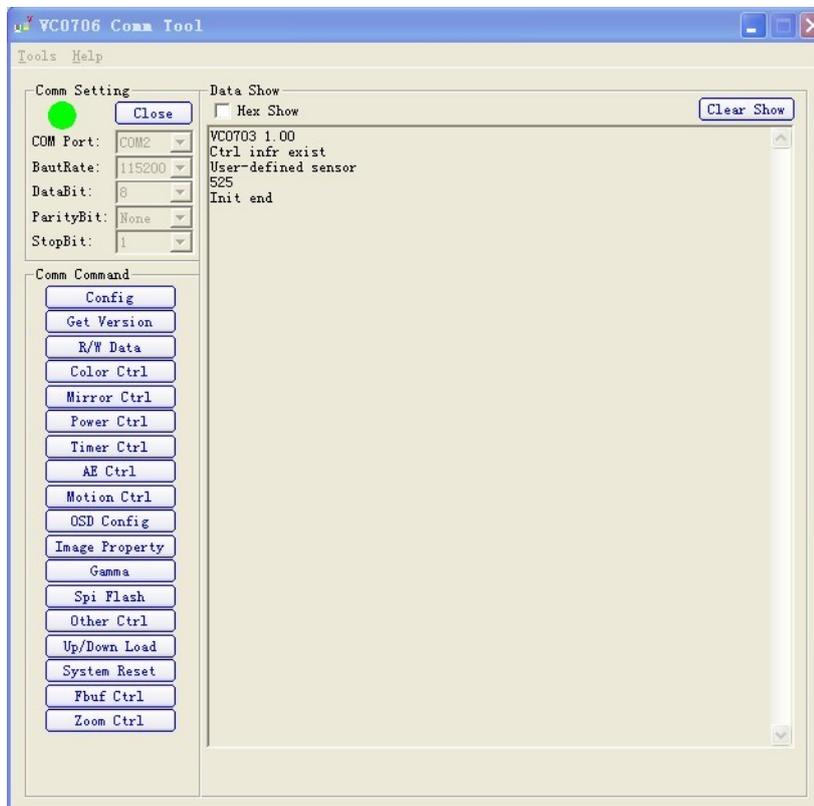




5<sup>th</sup> step: You will get below window.

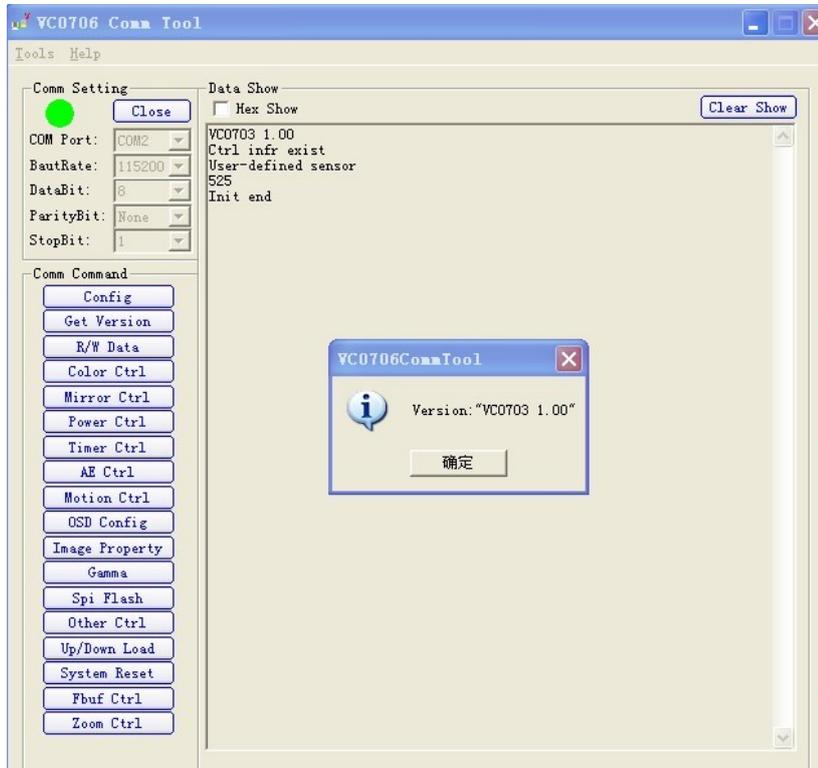


6<sup>th</sup> step: Then click "System Reset" button, you will get below window.

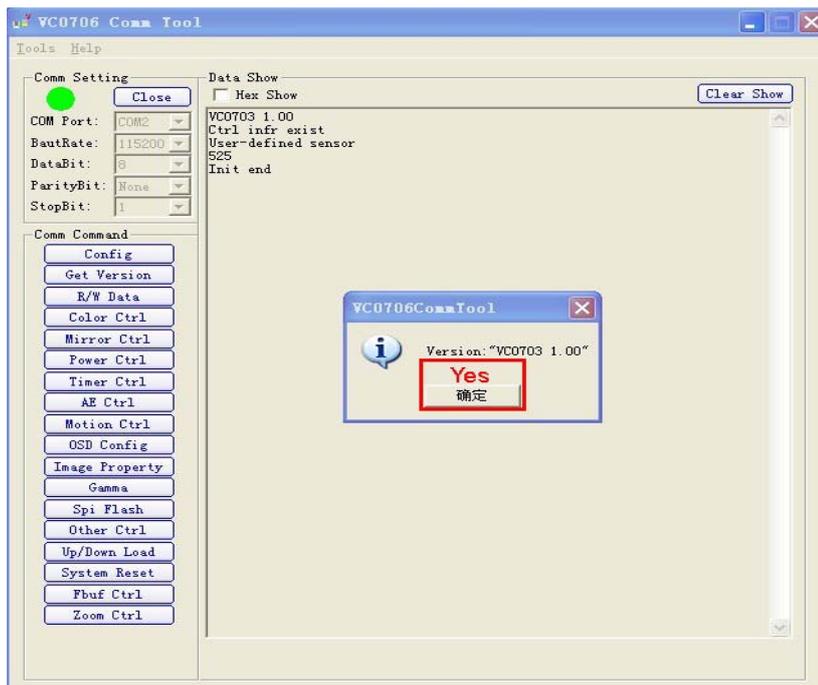




7<sup>th</sup> step: Click “Get Version” button. You should get below window, it means the connection between module and computer is correct.

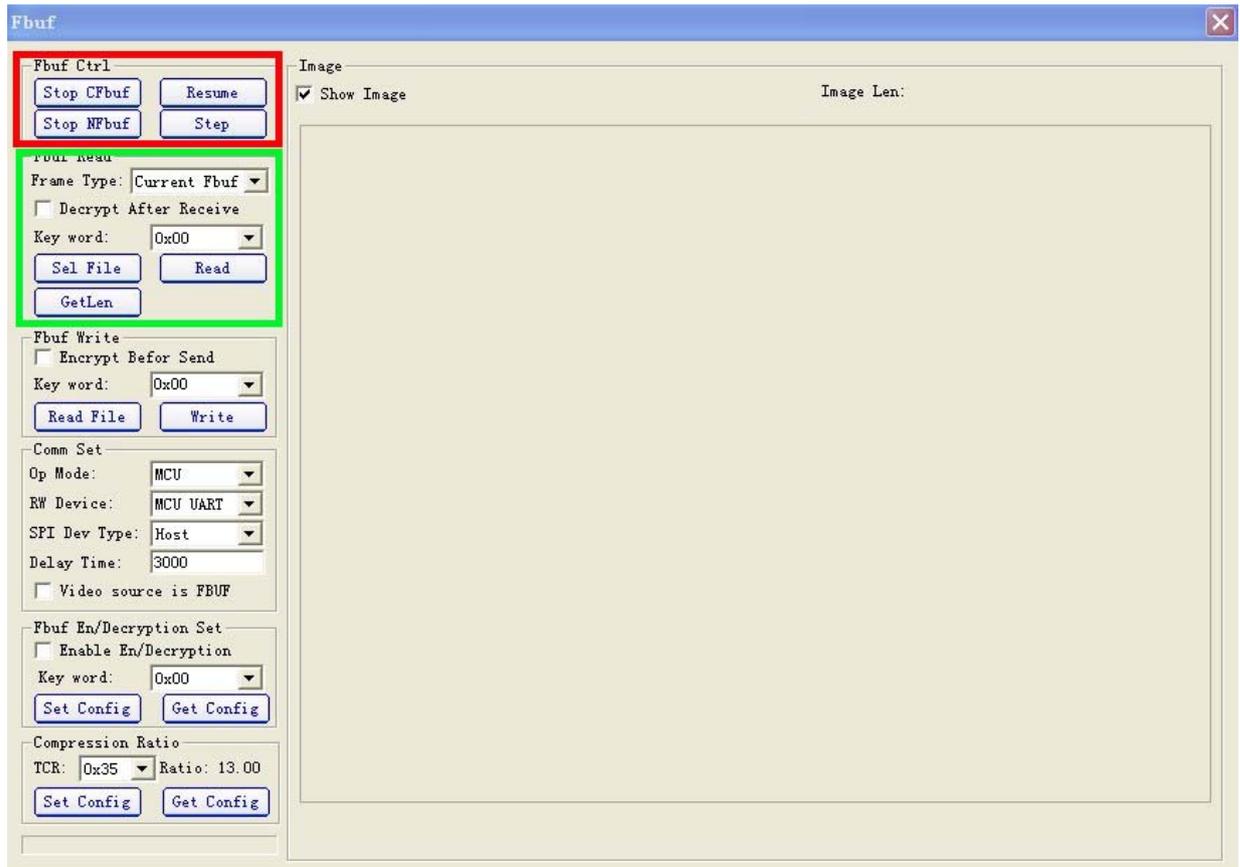


8<sup>th</sup> step: Click red frame, it means “YES”. Now you have finished all preparative before taking photo.



## B. Take photo

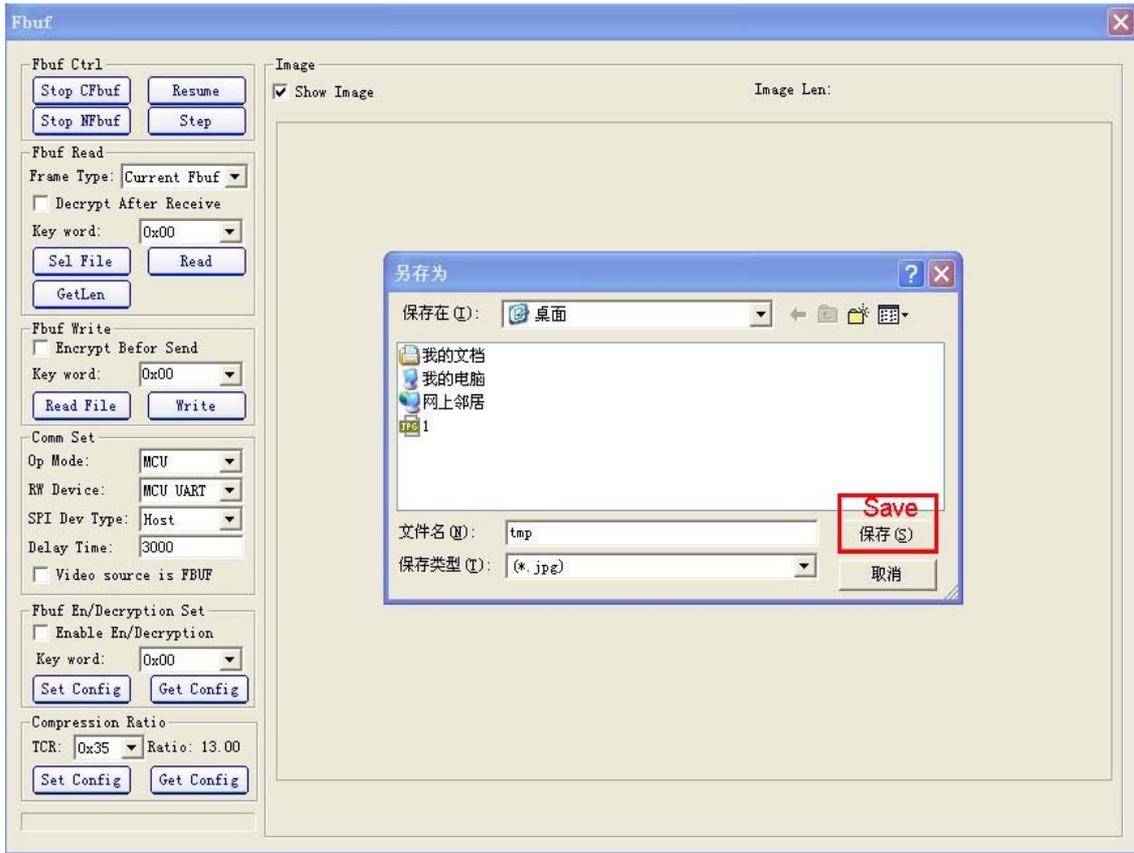
9<sup>th</sup> step: Click “System Reset” button (**important !**), then click “Fbuf Ctrl” button, you will get below window. Please click “Stop CFbuf” button in red frame, then click “Sel File” button in green frame.



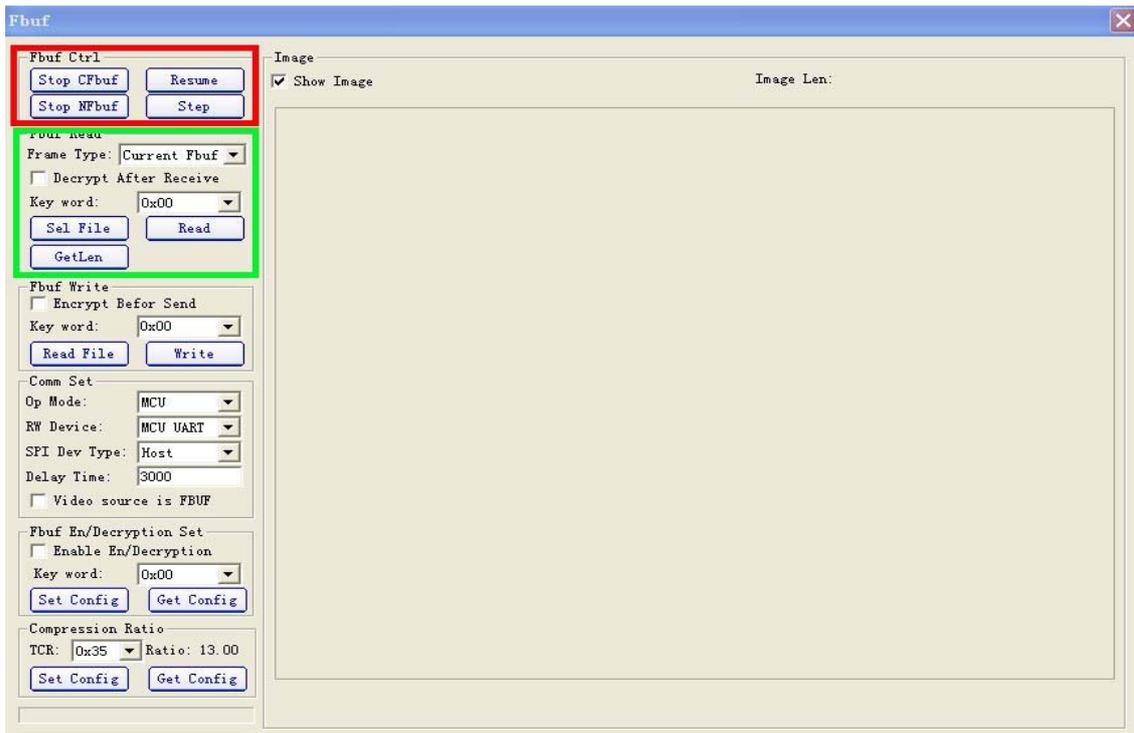
**Remark:** When you click “Stop CFbuf” button, the camera module have taken the scene into Non-volatile memory.

10<sup>th</sup> step: You will get below window. Please click “Save” button to save the picture into your computer.

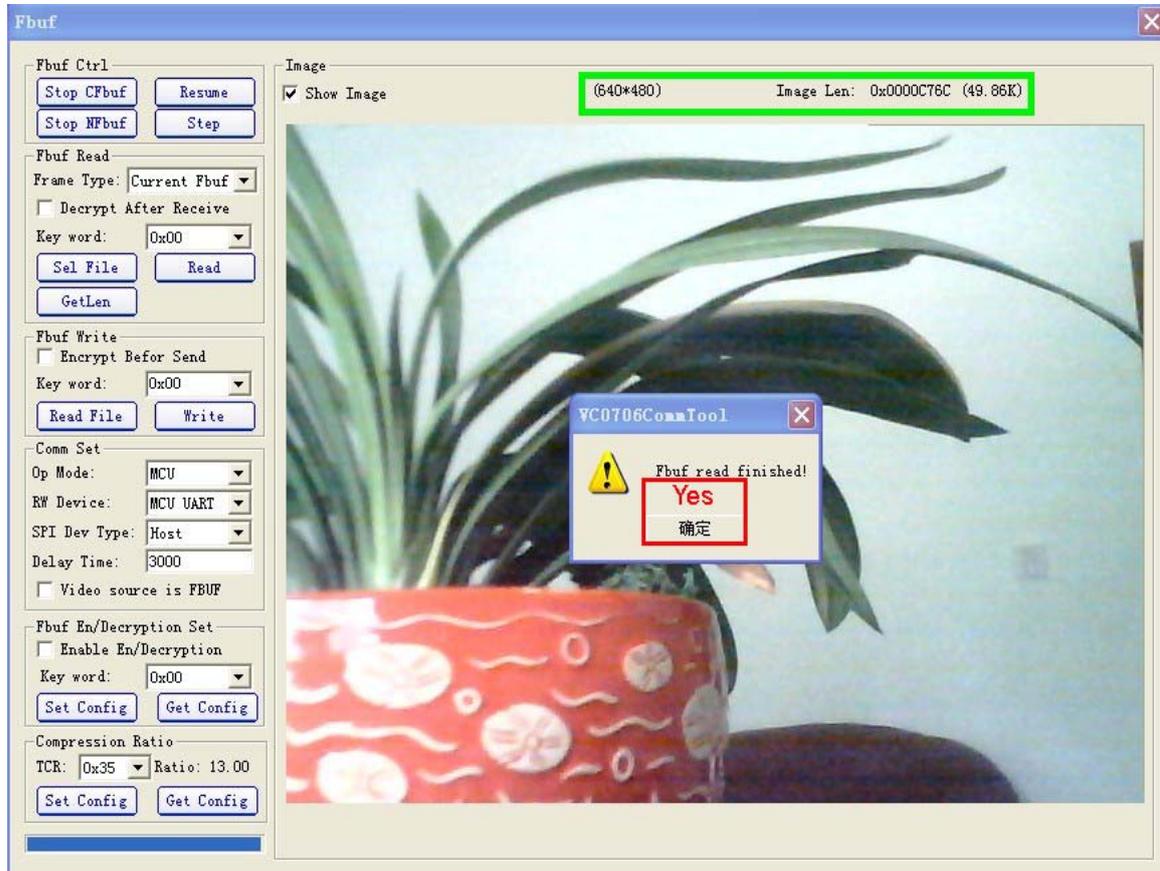
**Remark:** You can choose the path when saving, because my computer is Chinese operation system, it displays Chinese window, and please do it according to your actual window.



11<sup>th</sup> step: Click “read” button in green frame. This is very important, don't click wrong button!!! The picture is transferred into your computer.



12<sup>th</sup> step: You will get below window. You can find real resolution and image size information in green frame.



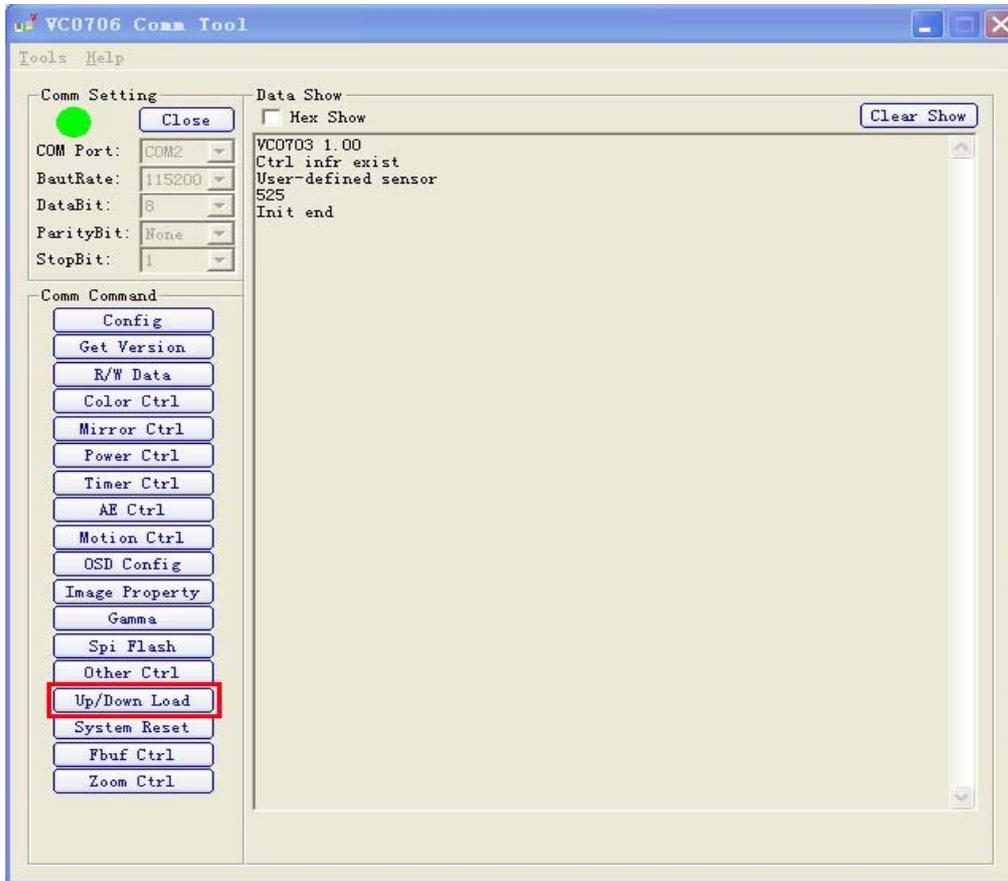
14<sup>th</sup> step: Please click red frame above picture, it means “Yes”. Now taking photo and saving it into your computer are over.

15<sup>th</sup> step: If you need take new picture, please repeat 9<sup>th</sup> to 14<sup>th</sup> steps.

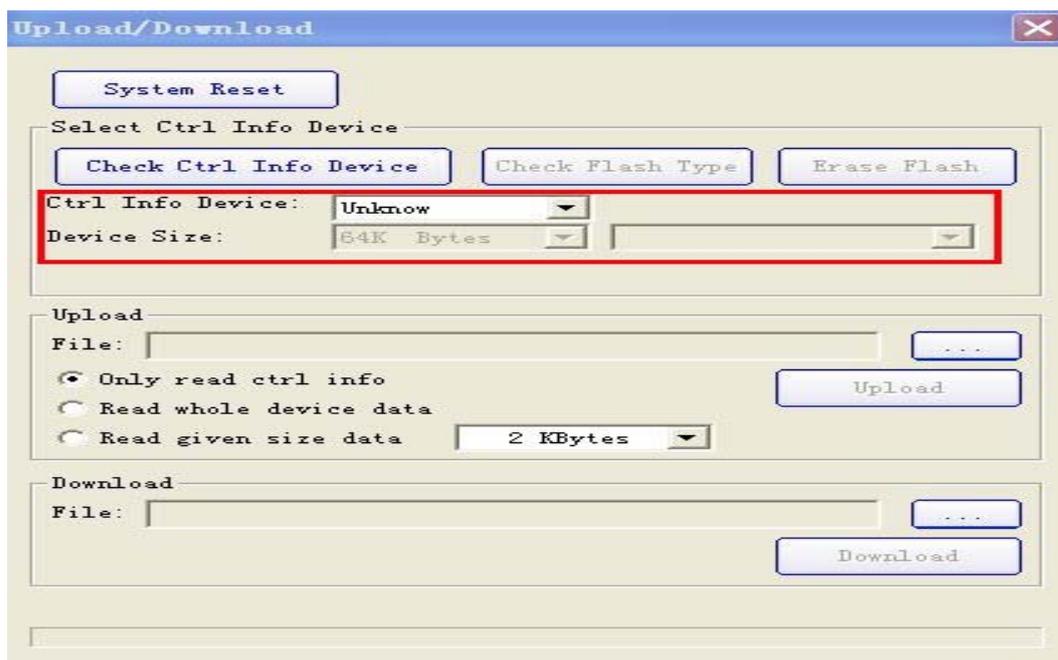
**Don't forget to click “System Reset” firstly!!!**

### C. Modify Baudrate and Resolution

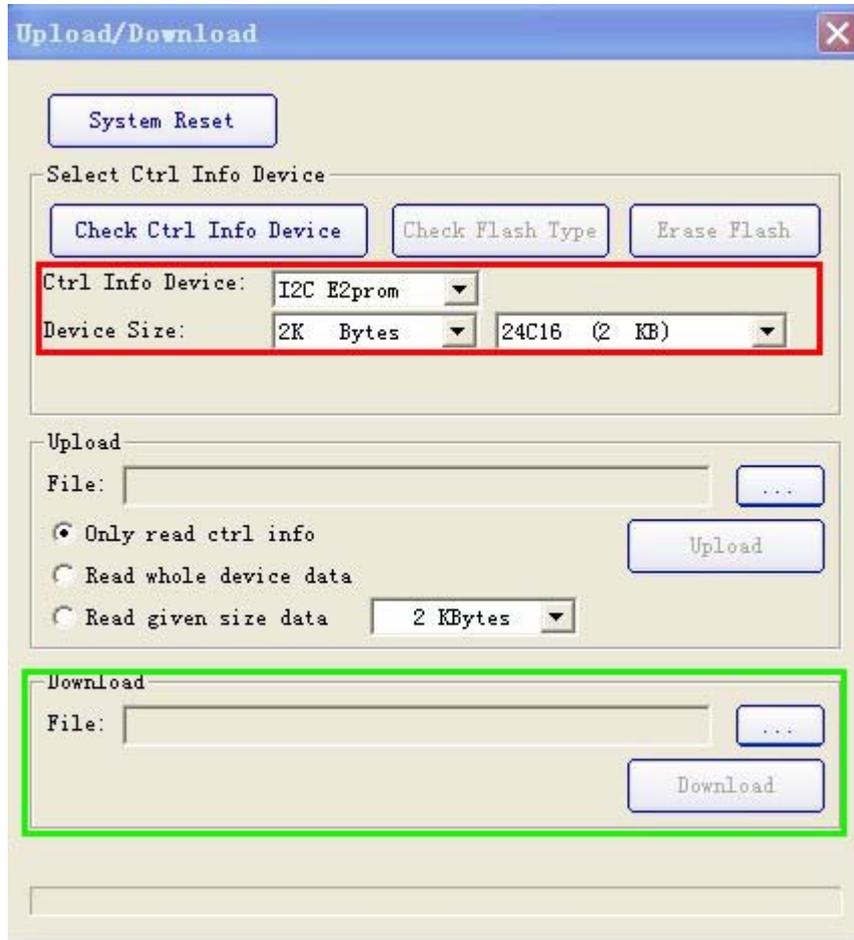
16<sup>th</sup> step: Click “Up/Down Load” button in red frame.



17<sup>th</sup> step: You will get below window. Please modify the items in red frame.



18<sup>th</sup> step: Please set all items in red frame like as below window, and then click the button  in green frame.



19<sup>th</sup> step: You can download the file you need from your computer into module, please choose correct file and click “Open” button

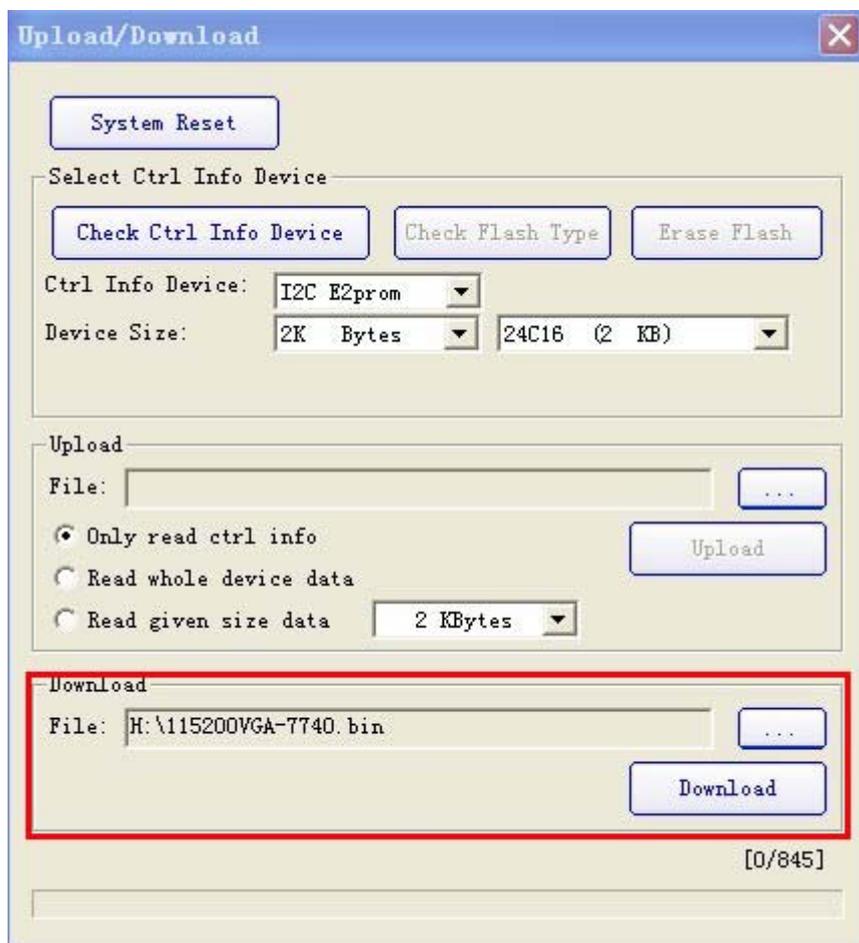


Remark: We have edited Baudrate and resolution as “.bin” file to use easily.

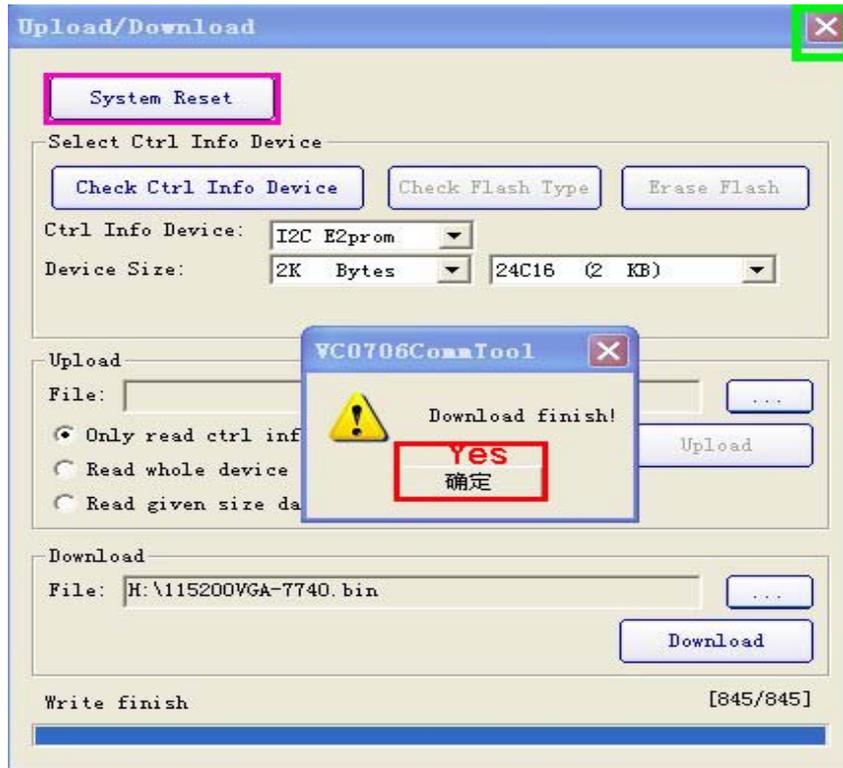


For file name, the foremost figures mean baud rate, like 9600 means 9600bps.  
VGA means 640x480, QVGA means 320x240, 7740 means ov7740 sensor.  
File name 115200QVGA-7740 means the baud rate is 115200bps and resolution is 320x240.  
File name 115200VGA-7740 means the baud rate is 115200bps and resolution is 640x480.  
Please choose the file you need.

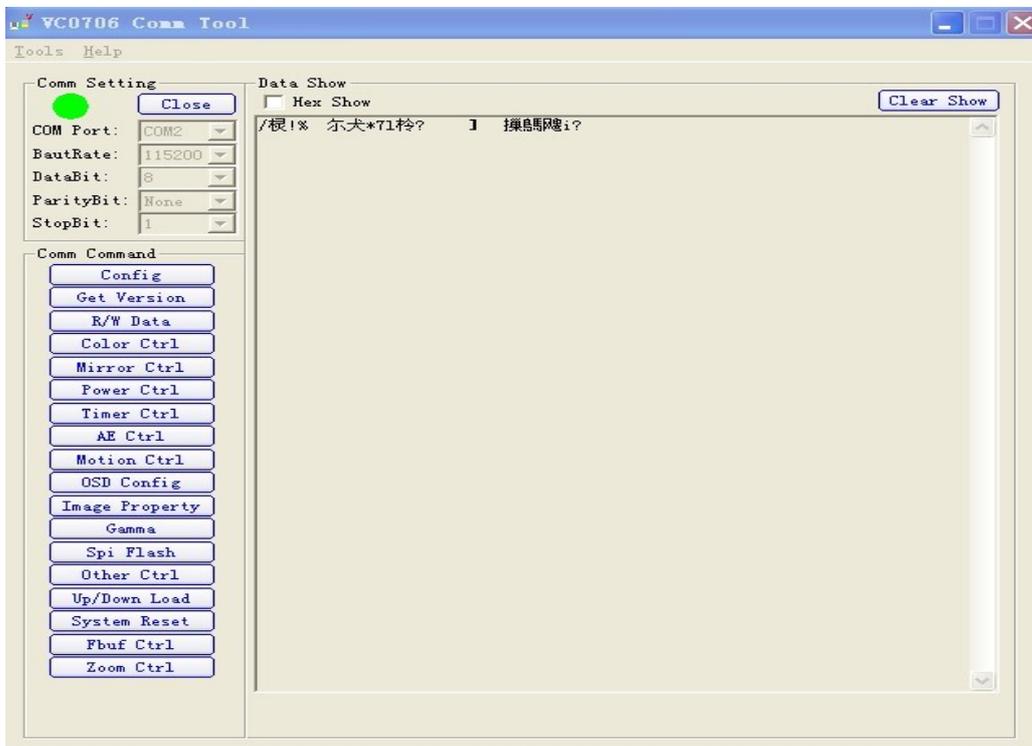
20<sup>th</sup> step: Click “Download” button in red frame, **wait!!!**



21<sup>st</sup> step: When you get below window, it means you have updated Baudrate and resolution, please click “Yes” button in red frame and “System Reset” button in purple frame and  button in green frame.



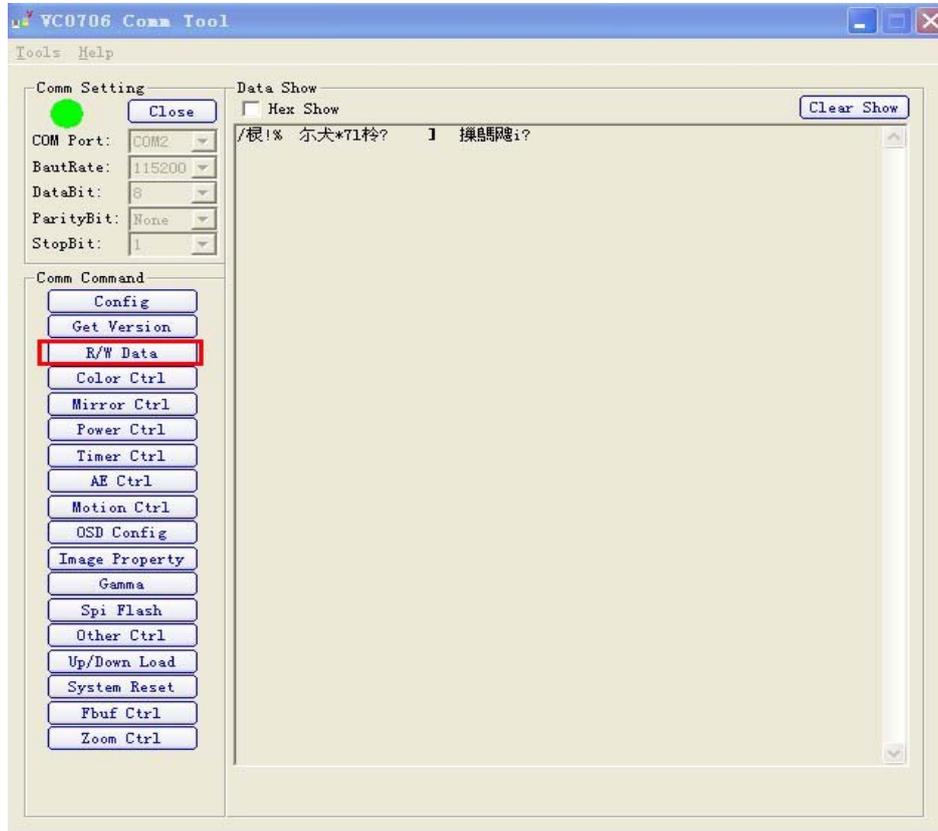
22<sup>nd</sup> step: You will get below window. Now you have modified Baudrate and resolution successfully.



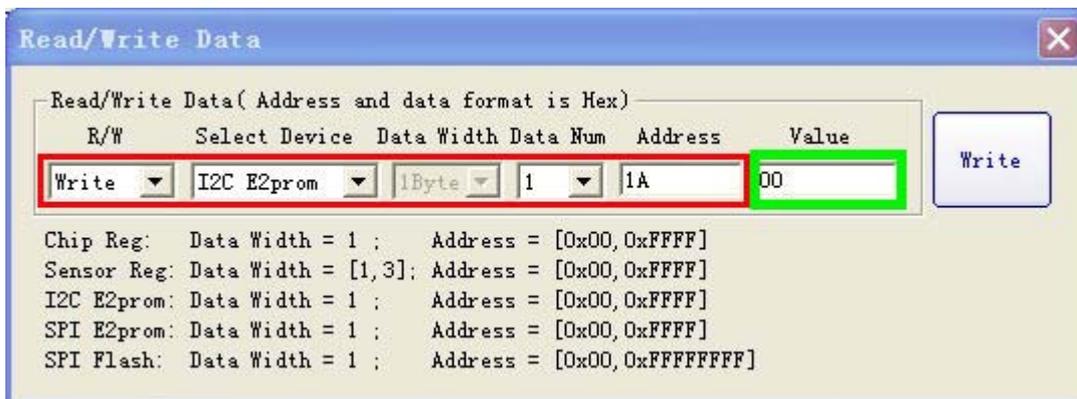
23<sup>rd</sup> step: You can repeat 4<sup>th</sup> to 14<sup>th</sup> steps to take new photo.

## D. Modify Compression Rate

24<sup>th</sup> step: Check 1<sup>st</sup> to 8<sup>th</sup> steps, if correct, click “R/W Data” button in red frame



25<sup>th</sup> step: You will get below window. Please set the items in red frame like as below picture. The value in green frame is the code of compression ratio, please refer table and input the code you need, click “Write” button, then close this window.



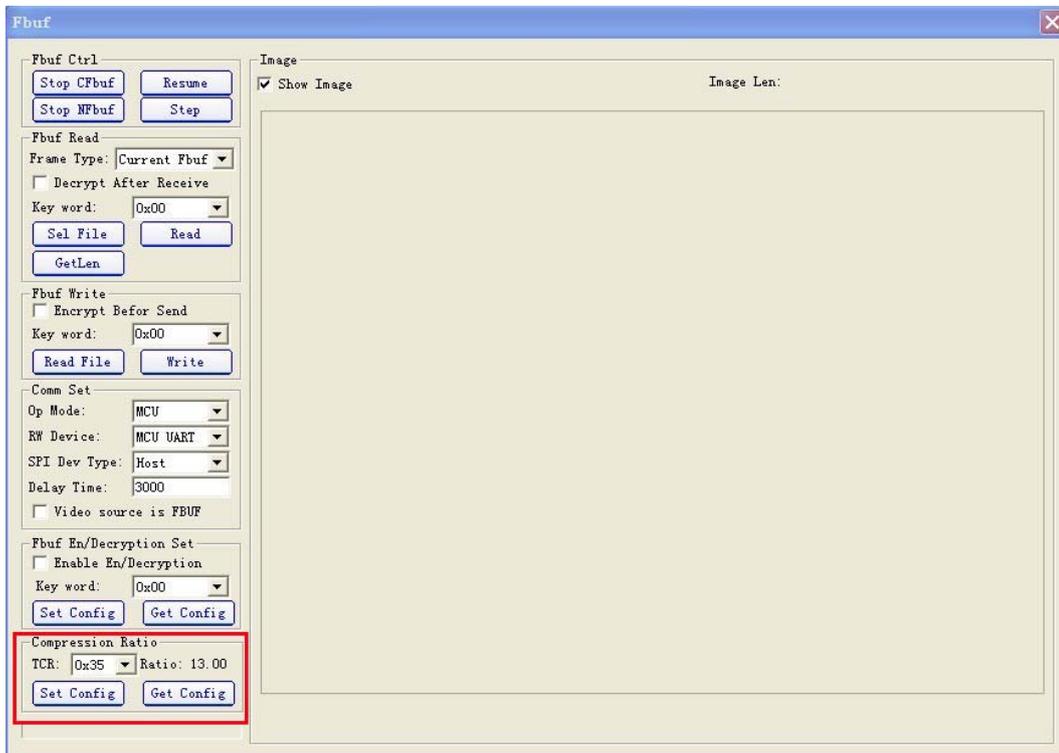


Code	Ratio										
00	/	30	11.75	60	23.75	90	35.75	C0	47.75	F0	59.75
01	/	31	12.00	61	24.00	91	36.00	C1	48.00	F1	60.00
02	0.25	32	12.25	62	24.25	92	36.25	C2	48.25	F2	60.25
03	0.50	33	12.50	63	24.50	93	36.50	C3	48.50	F3	60.50
04	0.75	34	12.75	64	24.75	94	36.75	C4	48.75	F4	60.75
05	1.00	35	13.00	65	25.00	95	37.00	C5	49.00	F5	61.00
06	1.25	36	13.25	66	25.25	96	37.25	C6	49.25	F6	61.25
07	1.50	37	13.50	67	25.50	97	37.50	C7	49.50	F7	61.50
08	1.75	38	13.75	68	25.75	98	37.75	C8	49.75	F8	61.75
09	2.00	39	14.00	69	26.00	99	38.00	C9	50.00	F9	62.00
0A	2.25	3A	14.25	6A	26.25	9A	38.25	CA	50.25	FA	62.25
0B	2.50	3B	14.50	6B	26.50	9B	38.50	CB	50.50	FB	62.50
0C	2.75	3C	14.75	6C	26.75	9C	38.75	CC	50.75	FC	62.75
0D	3.00	3D	15.00	6D	27.00	9D	39.00	CD	51.00	FD	63.00
0E	3.25	3E	15.25	6E	27.25	9E	39.25	CE	51.25	FE	63.25
0F	3.50	3F	15.50	6F	27.50	9F	39.50	CF	51.50	FF	63.50
10	3.75	40	15.75	70	27.75	A0	39.75	D0	51.75		
11	4.00	41	16.00	71	28.00	A1	40.00	D1	52.00		
12	4.25	42	16.25	72	28.25	A2	40.25	D2	52.25		
13	4.50	43	16.50	73	28.50	A3	40.50	D3	52.50		
14	4.75	44	16.75	74	28.75	A4	40.75	D4	52.75		
15	5.00	45	17.00	75	29.00	A5	41.00	D5	53.00		
16	5.25	46	17.25	76	29.25	A6	41.25	D6	53.25		
17	5.50	47	17.50	77	29.50	A7	41.50	D7	53.50		
18	5.75	48	17.75	78	29.75	A8	41.75	D8	53.75		
19	6.00	49	18.00	79	30.00	A9	42.00	D9	54.00		
1A	6.25	4A	18.25	7A	30.25	AA	42.25	DA	54.25		
1B	6.50	4B	18.50	7B	30.50	AB	42.50	DB	54.50		
1C	6.75	4C	18.75	7C	30.75	AC	42.75	DC	54.75		
1D	7.00	4D	19.00	7D	31.00	AD	43.00	DD	55.00		
1E	7.25	4E	19.25	7E	31.25	AE	43.25	DE	55.25		
1F	7.50	4F	19.50	7F	31.50	AF	43.50	DF	55.50		
20	7.75	50	19.75	80	31.75	B0	43.75	E0	55.75		
21	8.00	51	20.00	81	32.00	B1	44.00	E1	56.00		
22	8.25	52	20.25	82	32.25	B2	44.25	E2	56.25		
23	8.50	53	20.50	83	32.50	B3	44.50	E3	56.50		
24	8.75	54	20.75	84	32.75	B4	44.75	E4	56.75		
25	9.00	55	21.00	85	33.00	B5	45.00	E5	57.00		
26	9.25	56	21.25	86	33.25	B6	45.25	E6	57.25		
27	9.50	57	21.50	87	33.50	B7	45.50	E7	57.50		
28	9.75	58	21.75	88	33.75	B8	45.75	E8	57.75		
29	10.00	59	22.00	89	34	B9	46.00	E9	58.00		

2A	10.25	5A	22.25	8A	34.25	BA	46.25	EA	58.25		
2B	10.50	5B	22.50	8B	34.5	BB	46.50	EB	58.50		
2C	10.75	5C	22.75	8C	34.75	BC	46.75	EC	58.75		
2D	11.00	5D	23.00	8D	35	BD	47.00	ED	59.00		
2E	11.25	5E	23.25	8E	35.25	BE	47.25	EE	59.25		
2F	11.50	5F	23.50	8F	35.5	BF	47.50	EF	59.50		

26<sup>th</sup> step: Click “System Reset” button to initialize system, you have modified compression rate successfully. (important!!!)

27<sup>th</sup> step: If you need view the real value of compression ratio, please click “Fbuf Ctrl” button, you will get below window. Click “Get Config” button in red frame, you will get the real value you are using.



28<sup>th</sup> step: Finished and thank you!

Notice: This manual only describe how to test our camera module by using VC070x software and EV-kit JC0706E. As a rule, when you integrate this module into your system, you have to use logic commands to control it. For command protocol, please refer our data sheet.