



Dress: 2/F, Building H, Zhixuanhan Industrial Park, Yuanling Village, Shiyao Town, Baoan District, Shenzhen

APPROVAL SHEET

客户名称: _____
CUSTOMER

品 名: USB output camera module
PART NAME

规 格: JSK-SE075-V1.0
SPECIFICATION

版 本 号: 第 1 版
VERSION

日 期: 2021-4-02
DATE :

深圳市金视康科技有限公司 ShenZhen jinshikang Technology Co.,Ltd			客户(CUSTOMER)		
APPROVAL			APPROVAL		
拟制 (DESIGNER)	审核 (CHECKER)	批准 (APPROVER)	拟制 (DESIGNER)	审核 (CHECKER)	批准 (APPROVER)

1. General description

High quality color photo imaging at 4K resolution and video capability can now be easily embedded into the next generation of products with low power consumption and low noise requirements with the new module jsk-se075-v1.0 high speed USB 2.0 interface for image data output by camera module. With high-performance packaging technology, it realizes the compression size of this module with high reliability. It also has a wide dynamic range by implementing high sensitivity and low noise. This product can output images of different sizes, such as 3864 * 2218, 1080p, 720p, VGA, CIF and QVGA. Equal resolution

2. Characteristics

- compliance with USB specifications
- USB 2 and 1.1 compliance
- USB video v1 1 compliance (UVC)
- USB high speed, full speed automatic switching
- support 8 megapixel output in 3864 * 2218, 1080p, 720p, VGA, QVGA, CIF, QVGA and QCIF formats
- automatic white balance (AWB)
- automatic flicker correction.
- color correction
- γ correcting
- dark compensation

Automatic edge enhancement

3. Key specifications and parameters

Parameter		Specifications																				
Optical size		1/3.2"inch COMS sensor																				
Sensor resolution		3864 (H) x 2218(V)																				
Unit pixel size		1.4um																				
colour filter		RGB Bayer patten																				
Shutter type		Electronic rolling shutter																				
Maximum frame rate		15fps@3864*2218																				
angle of view		Diagonal 86 ° horizontal 73 ° vertical 59 °																				
aperture		2.7																				
AEC / Gain / White balance		Auto																				
focusing distance		Fixed 50-150cm																				
Interface		USB 2.0																				
Power		DC 5V																				
Size (mm)		38mm x 38mm x 18/-0.3mm																				
working temperature		-10°C — +60°C																				
Operating system requirements		Windows XP, Windows Vista, Windows 7,android.																				
Lens EFL		2.88																				
power dissipation	Standby	30mA ± 5mA																				
	operate	130mA ± 5mA @ 1920x1080 /30fps																				
Video output (输出格式)		MJPG / YUY2																				
Video output (输出格式)		<table border="0"> <tr> <td>3864*2218 at 15fps</td> <td>3864*2218 at 2fps</td> </tr> <tr> <td>2592*1944 at 20fps</td> <td>2592*1944 at 2ps</td> </tr> <tr> <td>1920x1080 at 30fps</td> <td>1920x1080 at 5fps</td> </tr> <tr> <td>1280x960 at 30fps</td> <td>1280x960 at 5fps</td> </tr> <tr> <td>1280x720 at 30fps</td> <td>1280x720 at 10fps</td> </tr> <tr> <td>1024x768 at 30fps</td> <td>1024x768 at 10fps</td> </tr> <tr> <td>800x600 at 30fps</td> <td>800x600 at 20fps</td> </tr> <tr> <td>640x480 at 30 fps</td> <td>640x480 at 30 fps</td> </tr> <tr> <td>352x288 at 30fps</td> <td>352x288 at 30fps</td> </tr> <tr> <td>320x240 at 30fps</td> <td>320x240 at 30fps</td> </tr> </table>	3864*2218 at 15fps	3864*2218 at 2fps	2592*1944 at 20fps	2592*1944 at 2ps	1920x1080 at 30fps	1920x1080 at 5fps	1280x960 at 30fps	1280x960 at 5fps	1280x720 at 30fps	1280x720 at 10fps	1024x768 at 30fps	1024x768 at 10fps	800x600 at 30fps	800x600 at 20fps	640x480 at 30 fps	640x480 at 30 fps	352x288 at 30fps	352x288 at 30fps	320x240 at 30fps	320x240 at 30fps
3864*2218 at 15fps	3864*2218 at 2fps																					
2592*1944 at 20fps	2592*1944 at 2ps																					
1920x1080 at 30fps	1920x1080 at 5fps																					
1280x960 at 30fps	1280x960 at 5fps																					
1280x720 at 30fps	1280x720 at 10fps																					
1024x768 at 30fps	1024x768 at 10fps																					
800x600 at 30fps	800x600 at 20fps																					
640x480 at 30 fps	640x480 at 30 fps																					
352x288 at 30fps	352x288 at 30fps																					
320x240 at 30fps	320x240 at 30fps																					

5. Reliability test

No	Items	Test Co ndition
1	high temperature (High temperature.storage test)	65°C ±2°C , 72 hrs
2	low temperature (low temperature.storage test)	-20°C s 2°C, 72 hrs
3	HTHT (high temperature.High humidity storage test)	60°C s 2°C, 90%RH, 120hrs
4	TCT (Temperature cycle test)	-10°C Sergeant 3°C (30min) ~65°C Sergeant 3°C (30mi n), 100c ycle
5	vibration test	Sinusoidal vibration at a frequency of 10-2000hz Maximum acceleration: 1.5mm, 2G X, Y, Z time: 20min / each (45hrs)
6	fall-down test	100cm High free fall Surface: concrete or steel Number of drops: 3 times

6. Image specification

test item	Test environment		Try the goal	standard
	pigment temperature	light		Pass
Resolution Test (MTF)	D65	indeterminate	test pattern	$\geq 40\%$
centrality				$\geq 30\%$
horn				$\geq 30\%$
distortion	D65	indeterminate	test pattern	$\leq 3\%$
Gray Test	D65	indeterminate	test pattern	≥ 5
Vi (i = 1)				≥ 10
ΔYi (i= 2~6)				≥ 10
shadow	D50+/-270	indetermin	Imaging chip	$\leq 30\%$
Image test	D50+/-270	indetermin	Imaging chip	
Dead area pixel				0
Injury pixel				24
Particle (group)				0
Weak defects				0
line defect				0
White pixels in dark mode		30+/-10	dark field	0
Line defects in dark mode		30+/-10	dark field	0

