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APPROVAL SHEET

客户名称: _____
CUSTOMER

品 名: USB output camera module
PART NAME

规 格: JSK-LA073-V1.0(G05)
SPECIFICATION

版 本 号: 第 2 版
VERSION

日 期: 2020-6-15
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 (CHECCKER)	批准 (APPROVER)

1. General description

High quality color photo imaging with 1920 * 1080 resolution and video capability can now be easily embedded into the next generation of products with low power consumption and low noise requirements and the new module jsk-la073-v1 0 high speed USB 2 interface for image data output by camera module. With high-performance packaging technology (special patent), it realizes the compression size of this module with high reliability. It also has a wide dynamic range through the implementation of high sensitivity and low noise.

2. Characteristics

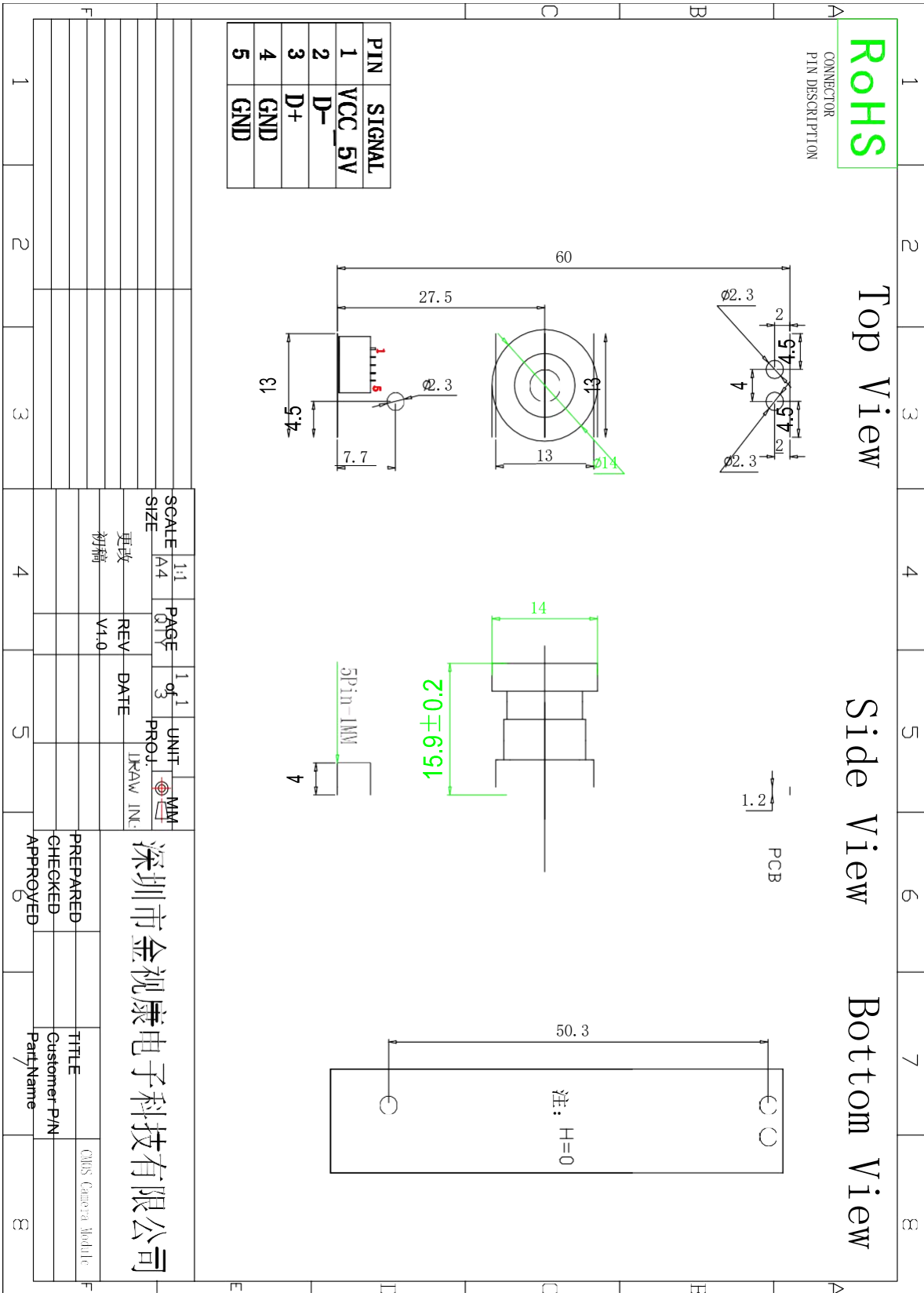
- compliance with USB specifications
- USB 2 and 1.1 compliance
- USB video v1 1 compliance (UVC)
- USB high speed, full speed automatic switching
- support 2K resolution, 1080p, 720p, VGA, QVGA, CIF, QVGA and QCIF format output.
- auto exposure (exposure)
- support wide dynamic range 105dB
- automatic white balance (AWB)
- automatic flicker correction.
- color correction.
- γ correcting
- dark compensation

Automatic edge enhancement

3. Key specifications and parameters

Parameter		Specifications
Optical size		1/2.7"inch COMS sensor
Sensor resolution		1920 (H) x 1080 (V),
Unit pixel size		3.0*3.0um
colour filter		RGB Bayer pattem
Shutter type		Electronic Rolling Shutter
Maximum frame rate		30fps@2K
angle of view		D65° H52° V39°
aperture		2.4MM
AEC / Gain / White balance		Auto
focusing distance		Fixed 50-150cm
interface		USB 2.0
power		DC 5V ± 5%
Size (mm)		60mm x 13mm x 10±0.2mm
working temperature		-10°C — +65°C
Operating system requirements		Windows XP, Windows Vista, Windows 7, android. So on
focal distance		5mm
power dissipation	Standby	30mA ± 5mA
	operate	165mA ± 5mA @ 1920x1080 /30fps

4.Mechanical drawing



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				$\leq 3\%$
distortion	D65	indeterminate	test pattern	$\leq 3\%$
Gray Test	D65	indeterminate	test pattern	≥ 5
$V_i (i = 1)$				≥ 10
$\Delta Y_i (i = 2 \sim 6)$				$\leq 30\%$
shadow	D50+/-270	indeterminate	Imaging chip	$\leq 30\%$
Image test	D50+/-270	indeterminate	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

