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# APPROVAL SHEET

客户名称: \_\_\_\_\_  
CUSTOMER

品 名: USB camera module  
PART NAME

规 格: JSK-LC082-V1.0  
SPECIFICATION

版 本 号: 第 2 版  
VERSION

日 期: 2021-3-19  
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

JSK-LC082-V1.0 this camera module is developed by our company for video conference camera module, which is widely used in enterprise video conference, remote teaching, telemedicine, remote training, remote recruitment, remote cooperation and other conference occasions. It adopts 4056 (H) x 3046 (V) resolution and supports 11 megapixels, 4K, 2K, 1080p, 720p, etc. the HD resolution image is more realistic and natural.

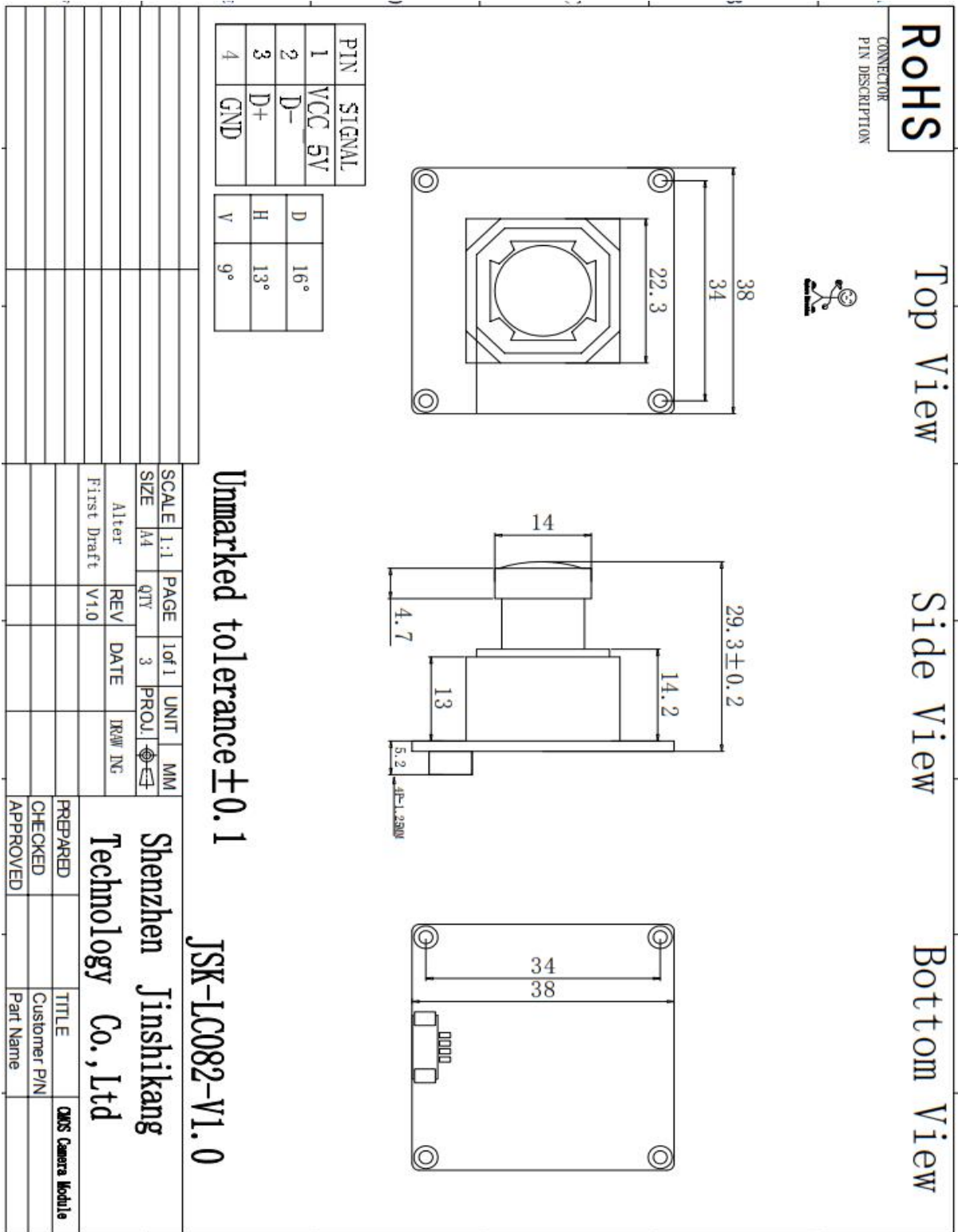
## 2. Characteristics

- compliance with USB specifications
- USB 2 and 1.1 compliance
- USB video v1.1 compliance (UVC)
- USB high speed, full speed automatic switching
- support 11 megapixel, 4K, 2K, 1080p, 720p, VGA, QVGA, CIF, QVGA and QCIF format output.
- auto exposure (exposure).
- automatic white balance (AWB)
- automatic flicker correction.
- color correction.
- $\gamma$  correcting
- dark compensation. Automatic edge enhancement.

### 3. Key specifications and parameters

Parameter		Specifications
Optical size		1 / 2.0 " Inch COMS sensor
Sensor resolution		4056 (H) x 3046 (V)
Unit pixel size		1.55um x 1.55um
colour filter		RGB Bayer patterm
Shutter type		Electronic rolling shutter
Maximum frame rate		20fps @ 3840*2880
angle of view		56°
aperture		2.4
AEC / Gain / White balance		Auto
Interface		USB 2.0 & USB1.1
power		DC 5V Sergeant 5%
Dimensions (mm) (L)		38mm x 38mm x 29.3 Sergeant 0.2mm
working temperature		-10°C — +60° C
Operating system requirements		Windows XP , Windows Vista , Windows 7,android.
focal distance		100cm
power dissipation	Standby	30mA Sergeant 5mA
	operate	350mA Sergeant 5mA @ 1920x 1080 /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 Sergeant 2 °C,72 hrs
3	HTHT (high temperature.High humidity storage test)	60 °C Sergeant 2 °C,90%RH,120hrs
4	TCT (Temperature cycle test)	-10 °C 3 °C (30min) ~65 °C °C 3 °C (30mi n), 100c ycle
5	vibration test	sinusoidal vibration at frequency of 10-2000hz Maximum acceleration: 1.5mm, 2G X, Y, Z time: 20min / each (45hrs)
6	fall-down test	150cm height free fall Surface: concrete or steel Number of drops: 3 times

### 6. Image specification

test item	Test environment		Test objectives	standard
	pigment temperature	light		Pass
Resolution Test (MTF)	D65	indeterminate	test pattern	$\geq 40\%$
centrality				$\geq 30\%$
Angle				
distortion	D65	indeterminate	test pattern	$\leq 3\%$
Gray Test	D65	indeterminate	test pattern	$\geq 5$
Vi (i = 1)				$\geq 10$
$\Delta Yi$ (i= 2~6)				
shadow	D50+/-270	indeterminate	Imaging chip	$\leq 30\%$
Image test	D50+/-270	indeterminate	Imaging chip	
Dead zone pixels				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



