深圳市金视康科技有限公司
ShenZhen jinshikang Technology Co.,Ltd
Address: 2/F, Building H, Yuanling Zhixuanhan Industrial Park, Shiyan Street Office, Bao'an District, Shenzhen

APPROVAL SHEET

客户名称：
CUSTOMER

品　　名：
PART NAME　USB output camera module

规　　格：
SPECIFICATION　JSK-L81A30-V2.0　(P01)

版 本 号：
VERSION　第 1 版

日　　期：
DATE　:　2019-8-31

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 at 2K resolution and video capability can now be easily embedded into the next generation of low-power, low-noise products with the new module jsk-l81a30-v2 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, high sensitivity and low noise. This product can output images of different sizes, such as 2K resolution, 1080p, 720p, VGA, CIF, QVGA, etc.

2. Characteristics

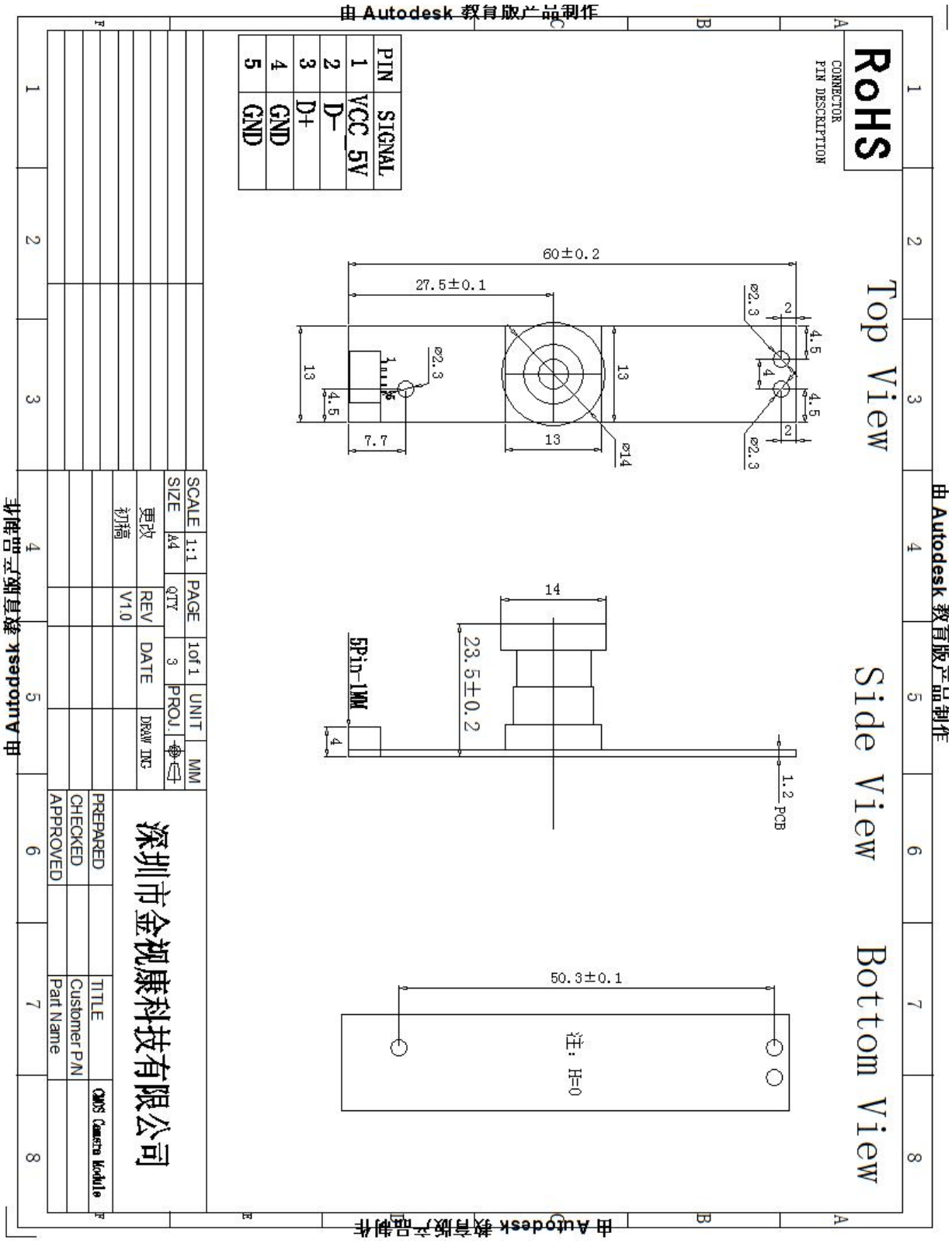
- compliance with USB specifications
- USB 2 and 1.1 compliance
- USB video v1 1 compliance (UVC)
- USB high speed, full speed automatic switching
- support 2K resolution, 1080p, 720p, VGA, QVGA, CIF, QVGA and QCIF format output.
- support wide dynamic, wide dynamic range 105dB
- auto exposure (exposure).
- 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		1/2.5”inch COMS sensor
Sensor resolution		2592(H) x 1944(V)
Unit pixel size		2.0um*2.0um
colour filter		RGB Bayer pattem
Shutter type		Electronic Rolling Shutter
Maximum frame rate		30fps@ 2K
angle of view		Diagonal = 73 ° horizontal = 58 ° vertical = 31 °
aperture		2.3
AEC / Gain / White balance		Auto
focusing distance		Fixed 50-150cm
interface		USB 2.0 & USB 1.1
power		USB 5V 士 5%
Size (mm)		60mm x 13mm x 23.5 士 0.2mm
working temperature		-10℃ — +65°C
Operating system requirements		Windows XP, Windows Vista, Windows 7,android.
Wide dynamic range		105DB
focal length		6mm
power dissipation	Standby	30mA 士 5mA
	operate	175mA 士 5mA @ 1920x1080 /30fps

4. Mechanical drawing of module



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	≧40%
centrality				
horn				≧30%
distortion	D65	indeterminate	test pattern	≦3%
Gray Test	D65	indeterminate	test pattern	≧5
Vi (i = 1)				
△Yi (i= 2～6)				≧10
shadow	D50+/-270	indetermi	Imaging chip	≦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

