Shenzhen Jinshikang Techn- ology Co., Ltd.

Address: 3rd Floor, Building 4, Lehua Xing Industrial Zone, No.37 Kengwei Avenue, Shangwu Community, Shiyan Street, Bao'an District, Shenzhen

APPROVAL SHEET

Customer Name: _____

name of a part ： USB Output Camera Module

Specifications: JSK-S8130-V3.0 (A11)

version number ： Version 1

date ： 2025-6-27

Shenzhen Jinshikang Technology Co., Ltd.			Customer (CUSTOMER)		
APPROVAL			APPROVAL		
Fiction (DESIGNER)	Examine and verify (CHECKER)	Ratify (APPROVER)	Fiction (DESIGNER)	Examine and verify (CHECCKER)	Ratify (APPROVER)

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Catalog Listing

1. general description 3
2. characteristic 3
3. Key Specification Parameters 4
4. machine drawing 5
5. reliability trial 6
6. Image Specifications 7

1. General Description

High-quality color imaging at 2K resolution and video capabilities can now be seamlessly integrated into next-generation products requiring low power consumption and low noise, utilizing the high-speed USB 2 interface for image data output from the JSK-S8l30-V3.0 camera module. Featuring advanced packaging technology (with proprietary patents), this module achieves highly reliable performance with compact size. It also offers extensive dynamic range through enhanced sensitivity and low noise levels. The product supports outputting images in various resolutions, including 5 MP, l080p,720p, VGA, CIF, and QVGA.

2. Feature

•Compliance with USB Specifications

•Compliant with USB 2 and l.l standards

•Compliance with USB Video Vl.l (UVC)

•USB High-Speed, Full-Speed Automatic Switching

•Supports output in 2K resolution and formats including l080P,720P, VGA, QVGA, CIF, QVGA, and QCIF

•Auto Exposure (Exposure)

•Supports wide dynamic range of ll0 dB

•Automatic White Balance (AWB)

•Automatic Flash Correction

•Color Correction

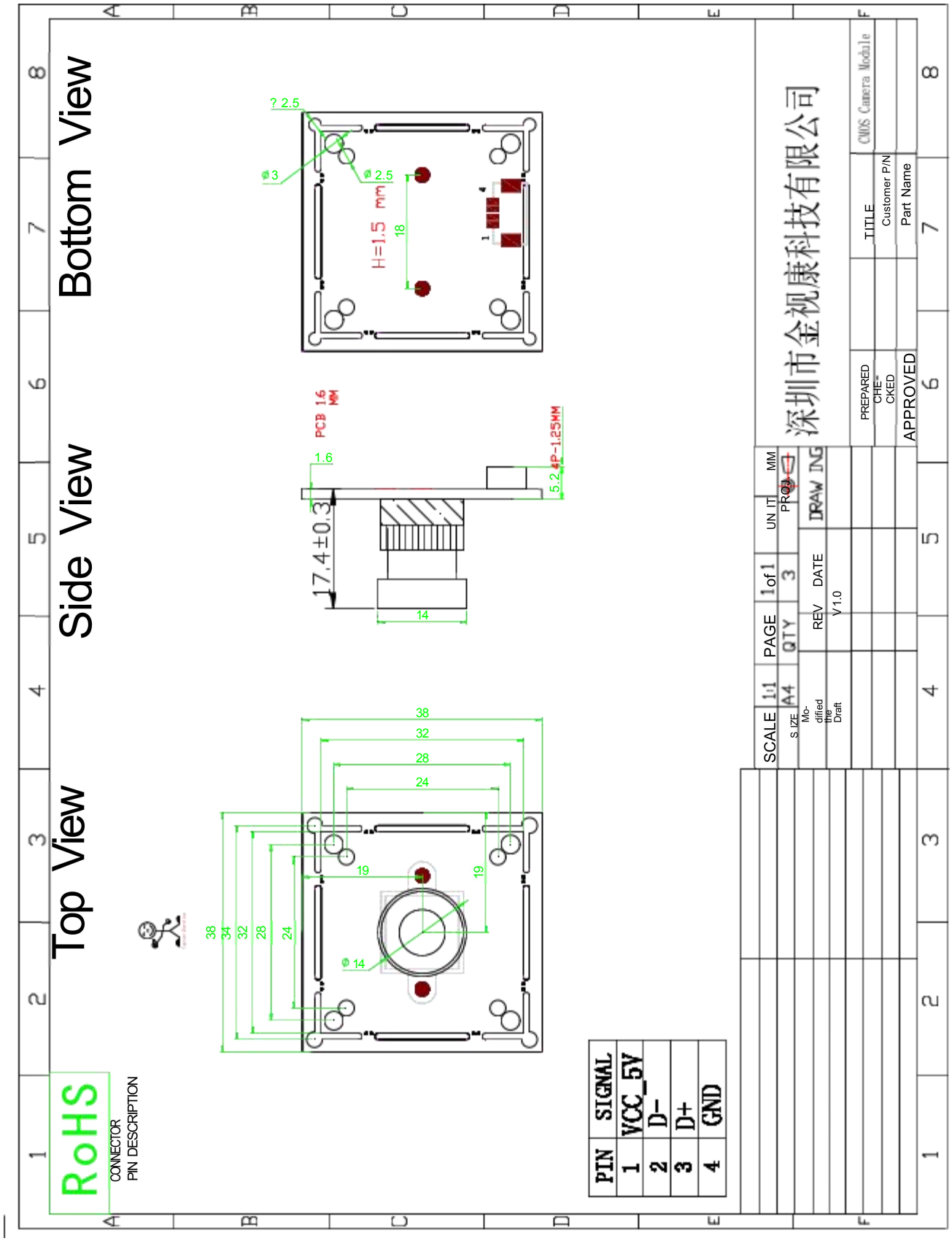
• γ check

•Dark Compensation • Automatic Edge Enhancement

3. Key Specification Parameters

Parameter		Specifications
Optical Size		1/2.5-inch COMS sensor
Sensor Resolution		2592(H) x 1944(V)
Unit Pixel Size		2.0*2.0um
Colour filter		RGB Bayer pattem
Shutter Type		Electronic Rolling Shutter
Maximum Frame Rate		30fps@2592*1944
Angle of view		D102° H87° V69°
Iris diaphragm		F2.5
AEC / Gain / White Balance		Voluntarily
Focusing distance		Fixed at 50—150 cm
Interface		USB 2.0
Source DC		DC 5V ± 5%
Size (mm)		38mm x 38mm x 17.4±0.3mm
Working temperature		-10℃ — +60° C
Operating System Requirements		Windows XP, Windows Vista, Windows 7, Android, etc.
Focal distance		2.95mm
Power dissipation	Await the opportune moment	30 mA — 5 mA
	Operate	160 mA, 10 mA @ 2592×1944 / 30 fps

4. Machine Drawing



5. Reliability Trial

No	Items	Test Condition
1	High temperature (high temperature; storage test)	65°C±2°C， 72 hrs
2	Low temperature (Low temperature. Storage test)	-20°C ± 2°C, 72 hours
3	HTHT (Storage test under high temperature and high humidity conditions)	60°C ± 2°C, 90% RH, 120 hours
4	TCT （ temperature cycling test ）	-10°C ± 3°C (30 min) to 65°C ± 3°C (30 min), 100 cycles
5	Vibration test	Sinusoidal vibration, frequency 10—2000 Hz Maximum acceleration: 1.5 mm, 2 G X, Y, Z Time: 20 min per item (45 hours total)
6	Fall-down test	Free fall from a height of 100 cm Surface: Concrete or steel Number of decreases: 3

6. Image Specifications

Test item	Experiment Environment		Test Objective	Standard
	Pigment Temperature	Light		Pass
Resolution Testing (MTF)	D65	Indeterminate	Test pattern	≧40%
Centrality				
Angle				≧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	Indeterminate	Imaging Chip	≦30%
Image Testing	D50+/-270	Indeterminate	Imaging Chip	
Dead Pixel				0
Affected Pixel Count				24
Particle (Group)				0
Minor 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