安勤科技股份有限公司

APPROVAL SHEET
NO.APP-260298

QD4-015 Rev.B5

申請種類: 正式承認

料號	ACC-NBCAM-18R
品名	5.0M CMOS,USB2.0, noise cancelling mic Fangtec SV6150D27-S1-4TA

製造商	佳又盛
製造商型號	SV6150D27-S1-4TA

Update 原因說明	
庫存說明	
其它	

安勤科技股份有限公司
正式承認
03/25/2026
資料中心
AVALUE TECHNOLOGY INC.

安勤科技 測試報告

測試日期	2026-02-12 11:41:00	測試樣品數	3 PCS

	項目	測試條件	結果
測試項目	外觀	依照承認書檢驗	Pass
	材質		
	電氣特性		
	機械強度		
	實裝動作		
	破壞實驗		
	顏色		
	尺寸	依照承認書檢驗	Pass
	沾錫性		
	壽命實驗		
	安規		
	其它測試		
	使用儀器	目測 & 游標卡尺	
備註			
測試結果	符合測試條件及規格		

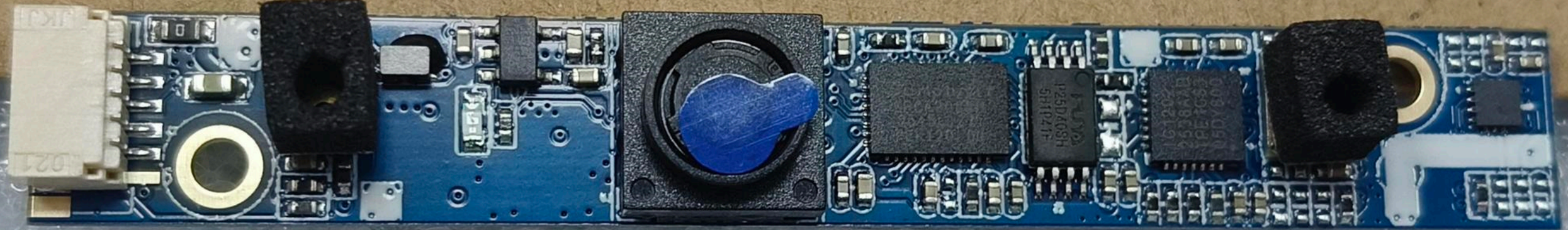
備註:
1. 申請人需先至GPM/管理/物料MCD設定/料號-審核狀態為通過，查詢此料已完成GREEN的承認，再辦理規格等承認。
2. 本單不能代替採購單及其它用途。

3. 如涉及專利及法律之問題, 應由送樣廠商負全責。
4. 以下內容所註記, 已經檢驗過並給予承認。
5. 申請承認需依料階符合「承認應備文件和檔案」

Workflow

Workflow Status	Action	Signoff User	Local Client Time	Signoff Comments
Initial (填表人)		Healthcare 專案開發產品部 Vega Wang (王偉佳)	2026-03-24 15:11:12	
Manager	Approved	Healthcare 專案開發產品部 Jimmy Tan (陳芝來)	2026-03-24 17:10:06	
QC	Approved	QA-QC Jeason_Shen (沈俊輝)	2026-03-25 09:41:16	
PDC	Approved	PDC Joy Lu (盧昶卉)	2026-03-25 11:51:17	


SDA
SCL
GND
SV6150D27-V1.1
2025-06-20
94V-0
E218213
2606



產品規格 / 承認書

PRODUCT SPECIFICATION / APPROVAL SHEET

客戶 CUSTOMER	：安勤科技股份有限公司
佳又盛料號 FANGTEC MODEL NO.	： SV6150D27-S1-4TA
品名 DESCRIPTION	：降噪麥克風 + 5MP Camera Module
備註 REMARK	：FW：0528 (左進)
客戶料號 CUSTOMER MODEL NO.	：ACC-NBCAM-18R

本承認書內容若貴公司確認無誤，
懇請於下方承認欄內簽章郵件寄回。
Please confirm your acceptance of this approval sheet by return e-mail

承認欄 CONFIRMATION SIGNATURE

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Revised Date	2026/3/19

ISSUED	CHECKED	APPROVED
業務部 2026.03.19 Evelyn Wu	工程部 2026.03.19 RicoChang	文管部 2026.03.19 Gary Chang

Revision History

Date	Rev.	Contents
2026/03/19	V1.0	First release

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1. General Description

The SV6150D27-S1-4TA is an USB Video Class (UVC) and USB Audio Class (UAC) compliant camera module with video and audio feature, designed for portable notebook PC image applications. It is made up of the following components, CMOS sensor, lens, holder, backend, PCB, image processing circuit connector and digital array microphone, to come out a digital video and audio device. It shall be a reliable device which is embedded in notebook PC to transfer video data and audio data through USB interface to notebook PC.

Featuring a novel approach to removing mechanical, stationary and non-stationary noise, SV6150D27-S1-4TA preserves voice naturalness for greater speech intelligibility even when the speaker is farther away or not optimally aligned with the microphones-providing unmatched freedom of movement for end-users.

2. Features

- Compliant USB 2.0 and USB Video Class & USB Audio Class
- Support still image capture and video streaming
- Support Snapshot button
- Automatic image control
  - Automatic Exposure Control (AEC)
  - Automatic White Balance (AWB)
  - Automatic Gain Control (AGC)
- Support for still image resolution: 2592 (H) x 1944 (V)
- LED indicator
- Audio input：2x Digital Microphone
- Input Voltage: 5V

3. Applications

Notebook PC
LCD PC
LCD Monitor
Industrial PC

4. Key Specification

Module Specification			
CMOS sensor Active Pixels	2592(H) x 1944(V)		
Dimension (mm)	65.0mm x 9.0mm x 7.25mm (含板下零件)		
Power Supply	5V		
Color Filter Array	RGB Bayer Pattern		
Image/Video Format	YUY2, MJPG		
Output Interface	USB2.0 (480Mbit/sec)		
Operating Temperature	0℃ to +55℃		
Compatibility	USB Video Class		
LED indicator	Blue		
Power Consumption			
	Min	Type	Max
Input Supply Voltage	4.75V	5.0V DC	5.25V
Un-configured Current	-	40 mA	-
Operating Current	-	-	240 mA

DSP Specification	
Type	USB 2.0 web camera controller
Support Sensor	Most popular CMOS sensors
Compatibility	USB 2.0 Video Class Compliant, Microsoft WHQL Certified
Sensor Specification	
Optical format	1/4-inch QSXGA CMOS Image Sensor
Pixel size	1.4um x 1.4um
Maximum Image	2592(H)x1944(V)
Lens Specification	
Element	4P+ IR
F Number	2.2±5%
Field of view(Diagonal)	75±3°
Focus Range	60cm

5.

5. Max Frame Rates (fps): MJPEG

SVGA	VGA	WXGA	Full HD
640×360	640×480	1280x720	1920x1080
30	30	30	30
2M	QSXGA		
1600x1200	2592x1944		
15	30		

6. Digital MIC Specification

Item	Test Conditions	Min	Standard	Max	Unit
Sensitivity	f=1kHz, Pin=1Pa	-27	-26	-25	dBFS
Current Consumption	Output open circuit			0.75	mA
S/N Ratio	f=1kHz, Pin=1Pa	57			dB
Power Supply Rejection	Test signal on VDD=217Hz, 100mVPP		-90		dB
Acoustic Overload Point	10% THD @1 kHz		120		dBSPL
THD	94Db SPL @1KHz			0.2	%

※（Test Conditions：23±2˚C, 55±20% R.H.VDD=2.0V.fclock=2.4MHz）

7. Pin Description

Pin Description			
Pin Number	**Name**	**Pin Type**	**Function Description**
1	VCC	Power	USB Power Supply 5.0V
2	D-	Data Pin	USB Data Transmission
3	D+	Data Pin	USB Data Transmission
4	GND	GND	System Ground
5	NC		

8. Outline Specification

