

Ref.No	ACSH202511024-E01
Total pages	27

Test Report

Sample Name: Waterproof Scissor Switch Keyboard

Sample Model: K-TEK-V285-FN-BL-FC-SC
-NV-151B-DWP+TP65-DML+2K

Test Category: Commission Test

Manufacturer: Key Technology China Limited

Client: Key Technology China Limited



Shenzhen Ancheshenghui Test Technology Co., Ltd.

Test Report

Client Information

Name: Key Technology China Limited

Address: Floor 7, Building S8, Fenggang Tianan Cyber Park, No. 208 Fenggang Section, Dongshen Road, Fenggang Town, DongGuan City, Guang Dong Province, P. R. China.

Samples

Trade Mark:



Sample name: Waterproof Scissor Switch Keyboard

Sample model: K-TEK-V285-FN-BL-FC-SC-NV-151B-DWP+TP65-DML+2K

Sample number: ACSH202511024-S01~S03

Sample quantity: 3 pcs

Manufacturer: Key Technology China Limited

Sample receipt date: November 24, 2025

Source: Client

Description: The appearance of the sample is in good condition.

Test Location and Environment

Test location: Shenzhen Ancheshenghui Test Technology Co., Ltd.

Shenzhen Fenda Technolog Co.,Ltd. Testing Center

Temperature: 22°C to 28°C

Relative humidity: 35% to 75%

Air pressure: 100kPa to 102kPa

Test Standard

<JT-WI-YF-0520 K-TEK-V285-FN-BL-FC-SC-NV-151B-DWP+TP65-DML+2K Detailed Specification>.

Test Results

The samples are Waterproof Scissor Switch Keyboard (K-TEK-V285-FN-BL-FC-SC-NV-151B-DWP+TP65-DML+2K) by Key Technology China Limited. According to the requirements of the client, the Appearance Quality, Mark, Design, Structure, Performance, Power Supply Adaptability test, Safety test were conducted from November 28, 2025 to January 8, 2026.

After the tests, the samples met the technical requirements provided by the client and passed the tests.

For specific test details, see "Summary of Test Results" in this report.

Prepared by: XcOu

Reviewed by: JHe

Approved by: JHe

Release Date: January 14, 2026

Summary of Test Results

No.	Test Items	Test Date	Test Location	Result
1	Appearance Quality	January 6, 2026	Environmental Laboratory	Pass
2	Mark	January 6, 2026	Environmental Laboratory	Pass
3	Design	January 6, 2026	Environmental Laboratory	Pass
4	Structure	January 6, 2026	Environmental Laboratory	Pass
5	Performance	November 28, 2025 to January 8, 2026	Shenzhen Fenda Technolog Co.,Ltd.Testing Center, Environmental Laboratory	Pass
6	Ower supply Adaptability test	January 8, 2026	Environmental Laboratory	Pass
7	Safety test	January 8, 2026	Environmental Laboratory	Pass

Detailed Description of The Test Sample

No.	Name	Model	Quantity	SN	Test Number
1	Waterproof Scissor Switch Keyboard	K-TEK-V285-FN-BL-FC-SC-NV-151B-DW P+TP65-DML +2K	3 pcs	V285-FN-BL-FC-SC-NV-151B-DW P+TP65-DML+2K -20251011000001	ACSH202511024-S01
2				V285-FN-BL-FC-SC-NV-151B-DW P+TP65-DML+2K -20251011000002	ACSH202511024-S02
3				V285-FN-BL-FC-SC-NV-151B-DW P+TP65-DML+2K -20251011000003	ACSH202511024-S03

Test Details

1. Appearance Quality, Mark, Design, Structure

1.1 Tested Sample

No.	Name	Model	Quantity	SN	Test Number
1	Waterproof Scissor Switch Keyboard	K-TEK-V285-FN-BL-FC-SC-NV-151B-DW P+TP65-DML+2K	3 pcs	V285-FN-BL-FC-SC-NV-151B-DW P+TP65-DML+2K -20251011000001	ACSH202511024-S01
2				V285-FN-BL-FC-SC-NV-151B-DW P+TP65-DML+2K -20251011000002	ACSH202511024-S02
3				V285-FN-BL-FC-SC-NV-151B-DW P+TP65-DML+2K -20251011000003	ACSH202511024-S03

1.2 Test Equipment and Instruments

No.	Name	Model	Number	Validity Period of Calibration	Remark
1	Digital Caliper	DL91300	ACSH-A-071	May 6, 2026	/

1.3 Test Standard

<JT-WI-YF-0520 K-TEK-V285-FN-BL-FC-SC-NV-151B-DWP+TP65-DML+2K Detailed Specification>.

1.4 Test Time

January 6, 2026

1.5 Test Conditions

1.5.1 Appearance Quality

Check the specimen's appearance quality as the technical requirements provided by the client.

1) Surface integrity; 2) Surface effect; 3) Integral flatness; 4) Seal; 5) Character backlight uniform; 6) Key surface screen printing intact.

1.5.2 Mark

Check the specimen,s mark as the technical requirements provided by the client.

1) Manufacturer name; 2) Product model; 3) Product code; 4) Operating voltage; 5) Place of origin; 6) Outer box mark.

1.5.3 Design

Check the specimen's design as the technical requirements provided by the client.

1) Key type; 2) Key surface layout.

1.5.4 Structure

Check the specimen's structure as the technical requirements provided by the client.

1) Key Press; 2) Product Dimensions.

1.6 Test Criterion

1.6.1 Appearance Quality

No.	Items	Test Requirements
1	Surface integrity	The surface should be free of scratches and damage.
2	Surface effect	The surface of the product should be free of obvious scratches, stains, dirt, spots and other defects.
3	Integral flatness	The product as a whole should be flat and straight, no uneven, concave, collapse, local deformation and other defects.
4	Seal	The gluing part should have no cracking and no loose.
5	Character backlight uniform	The front of the key character should be uniform in color and light transmission.
6	Key surface screen printing intact	Key screen printing should be correct, clear, no leakage, no burr, etc.

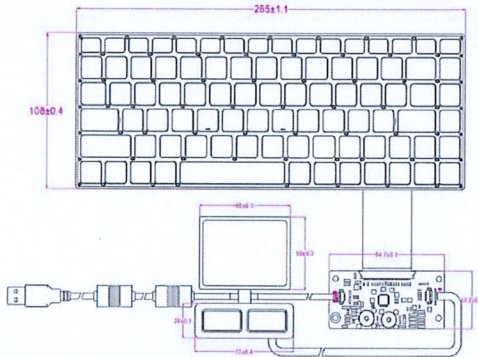
1.6.2 Mark

No.	Items	Test Requirements
1	Manufacturer name Key Technology China Limited	Should be available
2	Product model K-TEK-V285-FN-BL-FC-SC-NV -151B-DWP+TP65-DML+2K	Should be available
3	Product code V285-FN-BL-FC-SC-NV -151B-DWP+TP65-DML+2K -20251011000001 (example)	Should be available
4	Operating voltage DC+/-5V	Should be available
5	Place of origin MADE IN CHINA	Should be available
6	Outer box mark The label "Upward", "Handle with Care", "Keep Dry"	Should be available

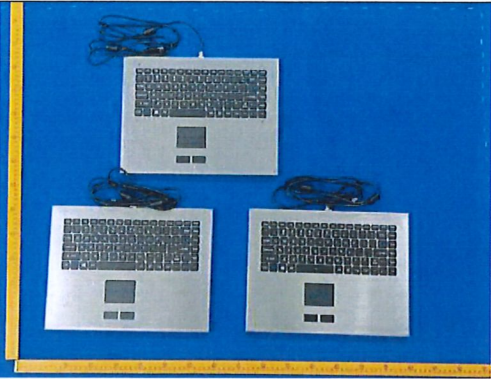
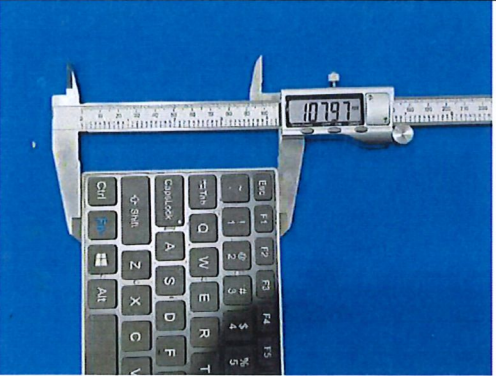
1.6.3 Design

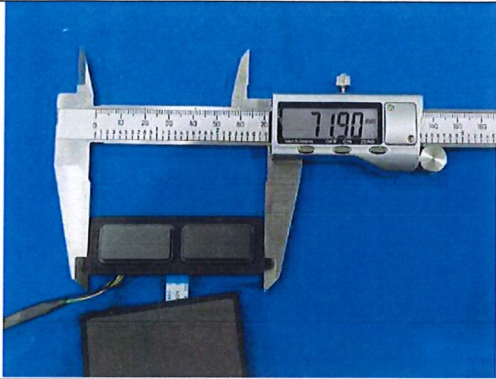
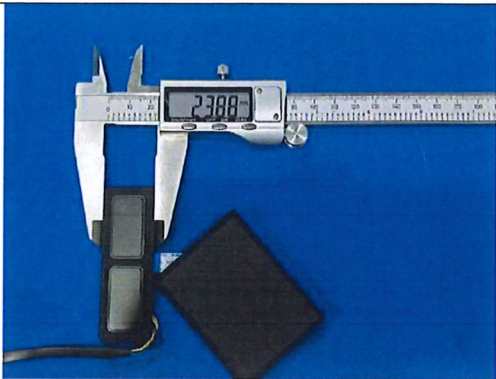
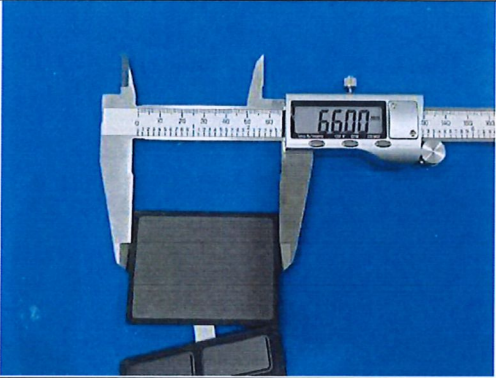
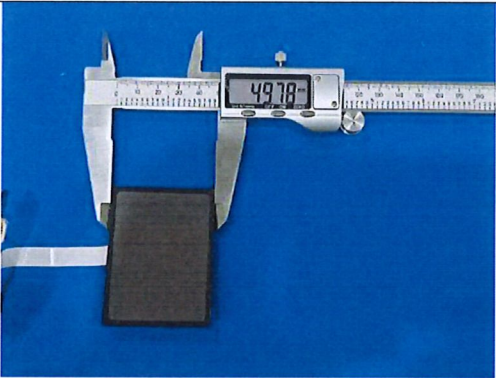
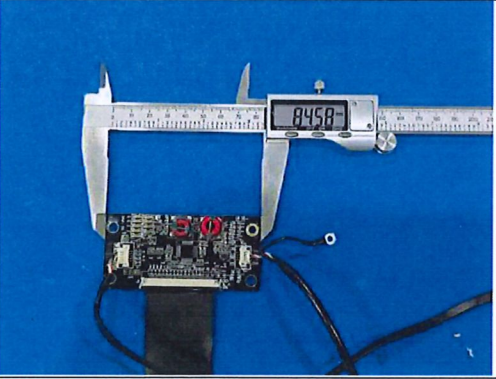
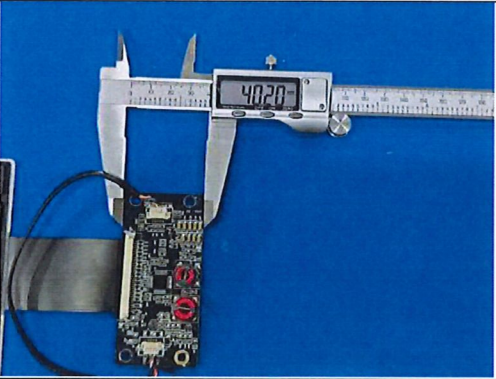
No.	Items	Test Requirements
1	Key type	Plastic key
2	Key surface layout	

1.6.4 Structure

No.	Items	Test Requirements	
1	Key press	The key shall return to its original position normally after being pressed.	
2	Product dimensions		
		Keyboard	Length * Width = (285±1.1) mm*(108±0.4) mm
		Key	Length * Width = (72±0.4) mm*(24±0.3) mm
		Synaptics touchpad	Length * Width = (66±0.3) mm*(50±0.3) mm
		Control panel	Length * Width = (84.7±0.3) mm*(40.2±0.3) mm

1.7 Detecting photos

	
Fig. 1 Samples Appearance (With Tooling)	Fig. 2 Samples Appearance
	
Fig. 3 Sample Mark	Fig. 4 Sample Mark
	
Fig. 5 Sample Mark	Fig. 6 Samples Outer Packaging
	
Fig. 7 Keyboard Size	Fig. 8 Keyboard Size

	
Fig. 9 Key Size	Fig. 10 Key Size
	
Fig. 11 Synaptics Touchpad Size	Fig.12 Synaptics Touchpad Size
	
Fig. 13 Control Panel Size	Fig. 14 Control Panel Size

1.8 Structural Test Product Size Data

No.	SN	Sample Unit	Length * Widt (mm)
1	V285-FN-BL-FC-SC-NV-151B-DWP+TP65-DML+2K-20251011000001	Keyboard	284.96*107.91
		Key	71.99*23.76
		Synaptics touchpad	65.92*49.83
		Control panel	84.66*40.27
2	V285-FN-BL-FC-SC-NV-151B-DWP+TP65-DML+2K-20251011000002	Keyboard	284.80*107.97
		Key	71.90*23.88
		Synaptics touchpad	66.00*49.78
		Control panel	84.58*40.20
3	V285-FN-BL-FC-SC-NV-151B-DWP+TP65-DML+2K-20251011000003	Keyboard	284.72*108.04
		Key	71.85*23.77
		Synaptics touchpad	65.99*49.86
		Control panel	84.83*40.05

1.9 Detection Result

1.9.1 Appearance Quality

No.	Items		Test Requirements	Test Results
1	Appearance quality	Surface integrity	The surface should be free of scratches and damage.	Pass
2		Surface effect	The surface of the product should be free of obvious scratches, stains, dirt, spots and other defects.	Pass
3		Integral flatness	The product as a whole should be flat and straight, no uneven, concave, collapse, local deformation and other defects.	Pass
4		Seal	The gluing part should have no cracking and no loose.	Pass
5		Character backlight uniform	The front of the key character should be uniform in color and light transmission.	Pass
6		Key surface screen printing intact	Key screen printing should be correct, clear, no leakage, no burr, etc.	Pass

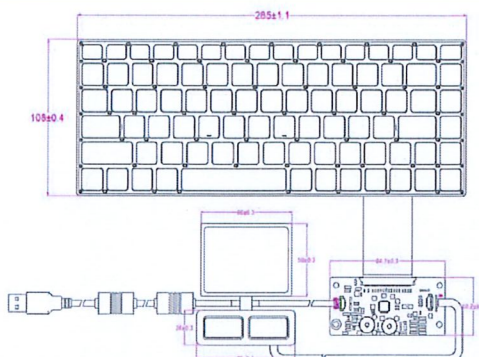
1.9.2 Mark

No.	Items		Test Requirements	Test Results
1	Information sign	Manufacturer name Key Technology China Limited	Should be available	Pass
2		Product model K-TEK-V285-FN-BL-FC-SC-NV -151B-DWP+TP65-DML+2K	Should be available	Pass
3		Product code V285-FN-BL-FC-SC-NV -151B-DWP+TP65-DML+2K -20251011000001 (example)	Should be available	Pass
4		Operating voltage DC+/-5 V	Should be available	Pass
5		Place of origin MADE IN CHINA	Should be available	Pass
6	Outer box mark The label “Upward”, “Handle with Care”, “Keep Dry”		Should be available	Pass

1.9.3 Design

No.	Items	Test Requirements		Test Results
1	Key type	Plastic key		Pass
2	Key surface layout			Pass

1.9.4 Structure

No.	Items	Test Requirements	Test Results	
1	Key press	The key shall return to its original position normally after being pressed.	Pass	
2	Product dimensions		Pass	
		Keyboard		Length * Width = (285±1.1) mm*(108±0.4) mm
		Key		Length * Width = (72±0.4) mm*(24±0.3) mm
		Synaptics touchpad		Length * Width = (66±0.3) mm*(50±0.3) mm
		Control panel		Length * Width = (84.7±0.3) mm*(40.2±0.3) mm

2. Performance

2.1 Tested Sample

2X Tested Sample

No.	Name	Model	Quantity	SN	Test Number
1	Waterproof Scissor Switch Keyboard	K-TEK-V285-FN-BL-FC-SC-NV-151B-DW P+TP65-DML+2K	3 pcs	V285-FN-BL-FC-SC-NV-151B-DW P+TP65-DML+2K -20251011000001	ACSH202511024-S01
2				V285-FN-BL-FC-SC-NV-151B-DW P+TP65-DML+2K -20251011000002	ACSH202511024-S02
3				V285-FN-BL-FC-SC-NV-151B-DW P+TP65-DML+2K -20251011000003	ACSH202511024-S03
Remark: Sample S02 shall undergo performance parameter testing and technical indicator testing. Samples S01 to S03 shall undergo functional requirement testing.					

2.2 Test Equipment and Instruments

No.	Name	Model	Number	Validity Period of Calibration	Remark
1	Automatic Load Tester	MAX-IKN-M-2	FD042017110867	November 12, 2026	Subcontracted laboratory is provided it
2	Micro-Drop Tester	W-SDL1030	FD022020110027	November 12, 2026	Subcontracted laboratory is provided it
3	DC Power Supply	KPS3020D	ACSH-A-051	October 9, 2026	/
4	Multimeter A	UT-89X	ACSH-A-026	May 8, 2026	/

2.3 Test Standard

<JT-WI-YF-0520 K-TEK-V285-FN-BL-FC-SC-NV-151B-DWP+TP65-DML+2K Detailed Specification>.

2.4 Test Time

November 28, 2025 to January 8, 2026

2.5 Test Conditions

Check the specimen's Performance as the technical requirements provided by the client.

2.5.1 Performance Parameter

1) Actuation force; 2) Key stroke; 3) Key life.

2.5.2 Technical Index

1) Number of keys; 2) Product surface color; 3) Transmittal mode; 4) Connector Type; 5) Power dissipation.

2.5.3 Functional Requirements

1) Actual connection; 2) Key code correspondence; 3) Output correspondence; 4) Key sensitive; 5) Indicator light controllable; 6) Uniform air pressure; 7) Backlight controllable 8) Key rebound intact.

2.6 Test Criterion

2.6.1 Performance Parameter

No.	Items	Test Requirements		
1	Actuation force	50~100 g (Single key)		
2	Key stroke	0.8~1.4 mm		
3	Key life	The service life of the keys shall not be less than 150,000 actuations. After testing, the key force attenuation ($-\Delta E/E_0$) shall be less than 50%. After testing, the key travel attenuation ($-\Delta E/E_0$) shall be less than 30%.		
		Appearance quality	Surface integrity	The surface should be free of scratches and damage.
			Surface effect	The surface of the product should be free of obvious scratches, stains, dirt, spots and other defects.
			Integral flatness	The product as a whole should be flat and straight, no uneven, concave, collapse, local deformation and other defects.
			Seal	The gluing part should have no cracking and no loose.
			Character backlight uniform	The front of the key character should be uniform in color and light transmission.
			Key surface screen printing intact	Key screen printing should be correct, clear, no leakage, no burr, etc.
		Functional requirements	Actual connection	After the computer is connected to the keyboard, there should be no crashes, serious delays, etc.
			Key code correspondence	Key code should correspond one by one, press A to output A.
			Output correspondence	After pressing the key, there should be no defects such as missing key values, repeat key values, or non-responsive keys.
			Key sensitive	The keys are sensitive and responsive when pressed.
			Indicator light controllable	The lighting and extinguishing of the LED should be controlled and the brightness is stable.
			Uniform air pressure	Internal gas can be discharged normally, with no visible bulging on the appearance.
			Backlight controllable	The backlight can be controlled to turn on and off, and the brightness can be adjusted.

			Key rebound intact	After pressing the four edges, four corners, and center of the key, it should spring back normally without sticking or non-responsive keys.
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2.6.2 Technical Index

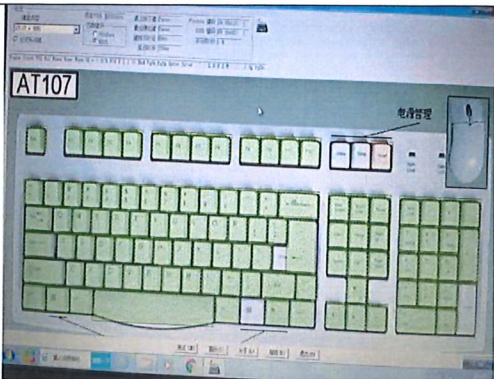
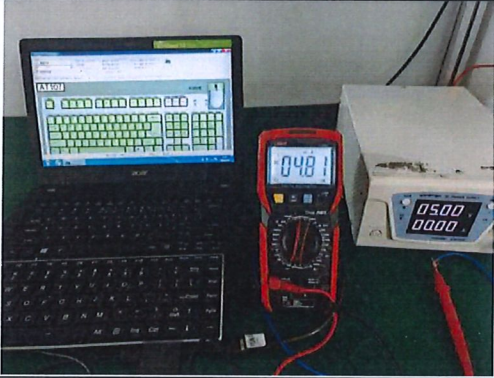
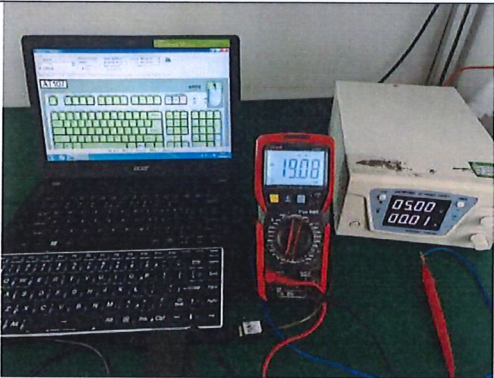
No.	Items	Test Requirements
1	Number of keys	86+2 keys
2	Product surface color	The overall background color is black, the characters are white, and some characters are blue.
3	Transmittal mode	The keyboard is connected to the PC for signal transmission via the USB protocol.
4	Connector Type	The keyboard is connected to the PC via a USB connector.
5	Power dissipation	The operating voltage is 5 VDC. The operating current shall not exceed 300 mA in backlight mode, and shall not exceed 30 mA in non-backlight mode.

2.6.3 Functional Requirements

No.	Items		Test Requirements
1	Functional requirements	Actual connection	After the computer is connected to the keyboard, there should be no crashes, serious delays, etc.
2		Key code correspondence	Key code should correspond one by one, press A to output A.
3		Output correspondence	After pressing the key, there should be no defects such as missing key values, repeat key values, or non-responsive keys.
4		Key sensitive	The keys are sensitive and responsive when pressed.
5		Indicator light controllable	The lighting and extinguishing of the LED should be controlled and the brightness is stable.
6		Uniform air pressure	Internal gas can be discharged normally, with no visible bulging on the appearance.
7		Backlight controllable	The backlight can be controlled to turn on and off, and the brightness can be adjusted.
8		Key rebound intact	After pressing the four edges, four corners, and center of the key, it should spring back normally without sticking or non-responsive keys.

2.7 Detecting Photos

	
Fig. 1 Sample Appearance (Before Test)	Fig. 2 Sample Appearance (After Test)
	
Fig. 3 Force and Stroke (During Test)	Fig. 4 Life Test (During Test)
	
Fig. 5 ESC Key Actuation Force	Fig. 6 S Key Actuation Force
	
Fig. 7 H Key Actuation Force	Fig. 8 Delete Key Actuation Force

	
Fig. 9 Left Key Actuation Force	Fig. 10 Function Test Normal(After Life Test)
	
Fig. 11 Power Consumption Status (Backlight Off)	Fig. 12 Power Consumption Status (Backlight)
	/ /
Fig. 13 Function Test Normal (Functional)	

2.8 Test Data

2.8.1 Performance Parameter Test Data

50,000-Cycle Key Life Test							
Actuation Force During Testing (gf)	Key Name	Before test		After test		Key Force Attenuation Rate ($-\Delta E/E_0$)	Travel Attenuation Rate ($-\Delta E/E_0$)
		Key Force (gf)	Travel (mm)	Key Force (gf)	Travel (mm)		
91.70	ESC key	84.1	1.083	59.3	0.808	29.27%	25.21%
		83.9	1.086	59.6	0.805		
		83.8	1.076	59.2	0.814		
	Average value	83.9	1.082	59.4	0.809		
76.71	S key	70.8	1.060	52.0	0.999	26.57%	5.52%
		70.3	1.064	51.8	1.006		
		70.4	1.066	51.5	1.009		
	Average value	70.5	1.063	51.8	1.005		
74.99	H key	69.3	1.151	55.3	1.137	20.63%	1.13%
		69.0	1.155	54.6	1.152		
		68.7	1.160	54.4	1.138		
	Average value	69.0	1.155	54.8	1.142		
68.22	Delete key	62.1	1.213	51.3	1.063	18.36%	11.83%
		61.9	1.196	50.2	1.076		
		61.7	1.216	50.1	1.057		
	Average value	61.9	1.208	50.5	1.065		
71.65	Left key	65.9	1.161	52.9	1.109	19.27%	4.50%
		64.6	1.144	52.0	1.090		
		64.6	1.142	52.6	1.093		
	Average value	65.0	1.149	52.5	1.097		

2.8.2 Technical Specifications Power Consumption Test Data

No.	Operating Voltage (VDC)	Operating Current with Backlight Off (mA)	Operating Current with Backlight On (mA)
1	5.0	4.81	19.08

2.9 Detection Result

2.9.1 Performance Parameter

No.	Items	Test Requirements			Test Results
1	Actuation force	50~100 g (Single key)			Pass
2	Key stroke	0.8~1.4 mm			Pass
3	Key life	The service life of the keys shall not be less than 150,000 actuations. After testing, the key force attenuation ($-\Delta E/E_0$) shall be less than 50%. After testing, the key travel attenuation ($-\Delta E/E_0$) shall be less than 30%.			Pass
		Appearance quality	Surface integrity	The surface should be free of scratches and damage.	Pass
			Surface effect	The surface of the product should be free of obvious scratches, stains, dirt, spots and other defects.	Pass
			Integral flatness	The product as a whole should be flat and straight, no uneven, concave, collapse, local deformation and other defects.	Pass
			Seal	The gluing part should have no cracking and no loose.	Pass
			Character backlight uniform	The front of the key character should be uniform in color and light transmission.	Pass
			Key surface screen printing intact	Key screen printing should be correct, clear, no leakage, no burr, etc.	Pass
		Functional requirements	Actual connection	After the computer is connected to the keyboard, there should be no crashes, serious delays, etc.	Pass
			Key code correspondence	Key code should correspond one by one, press A to output A.	Pass
			Output correspondence	After pressing the key, there should be no defects such as missing key values, repeat key values, or non-responsive keys.	Pass

			Key sensitive	The keys are sensitive and responsive when pressed.	Pass
			Indicator light controllable	The lighting and extinguishing of the LED should be controlled and the brightness is stable.	Pass
			Uniform air pressure	Internal gas can be discharged normally, with no visible bulging on the appearance.	Pass
			Backlight controllable	The backlight can be controlled to turn on and off, and the brightness can be adjusted.	Pass
			Key rebound intact	After pressing the four edges, four corners, and center of the key, it should spring back normally without sticking or non-responsive keys.	Pass

2.9.2 Technical Index

No.	Items	Test Requirements	Test Results
1	Number of keys	86+2 keys	Pass
2	Product surface color	The overall background color is black, the characters are white, and some characters are blue.	Pass
3	Transmittal mode	The keyboard is connected to the PC for signal transmission via the USB protocol.	Pass
4	Connector type	The keyboard is connected to the PC via a USB connector.	Pass
5	Power dissipation	The operating voltage is 5 VDC. The operating current shall not exceed 300 mA in backlight mode, and shall not exceed 30 mA in non-backlight mode.	Pass

2.9.3 Functional Requirements

No.	Items		Test Requirements	Test Results
1	Functional requirements	Actual connection	After the computer is connected to the keyboard, there should be no crashes, serious delays, etc.	Pass
2		Key code correspondence	Key code should correspond one by one, press A to output A.	Pass
3		Output correspondence	After pressing the key, there should be no defects such as missing key values, repeat key values, or non-responsive keys.	Pass
4		Key sensitive	The keys are sensitive and responsive when pressed.	Pass
5		Indicator light controllable	The lighting and extinguishing of the LED should be controlled and the brightness is stable.	Pass
6		Uniform air pressure	Internal gas can be discharged normally, with no visible bulging on the appearance.	Pass
7		Backlight controllable	The backlight can be controlled to turn on and off, and the brightness can be adjusted.	Pass
8		Key rebound intact	After pressing the four edges, four corners, and center of the key, it should spring back normally without sticking or non-responsive keys.	Pass

3. Ower Supply Adaptability test

3.1 Tested Sample

No.	Name	Model	Quantity	SN	Test Number
1	Waterproof Scissor Switch Keyboard	K-TEK-V285- FN-BL-FC-SC- NV-151B-DW P+TP65-DML +2K	3 pcs	V285-FN-BL-FC- SC-NV-151B-DW P+TP65-DML+2K -20251011000001	ACSH202511024-S01
2				V285-FN-BL-FC- SC-NV-151B-DW P+TP65-DML+2K -20251011000002	ACSH202511024-S02
3				V285-FN-BL-FC- SC-NV-151B-DW P+TP65-DML+2K -20251011000003	ACSH202511024-S03

3.2 Test Equipment and Instruments

No.	Name	Model	Number	Validity Period of Calibration	Remark
1	DC Power Supply	KPS3020D	ACSH-A-051	October 9, 2026	/

3.3 Test Standard

<JT-WI-YF-0520 K-TEK-V285-FN-BL-FC-SC-NV-151B-DWP+TP65-DML+2K Detailed Specification>.

3.4 Test Time

January 8, 2026

3.5 Test Conditions

The test is conducted as required by the client. The test method is as follows:

- a) Pre-test examination: Under standard atmospheric conditions, check the appearance and function of the samples.
- b) Test method:
 - 1) Operating voltage: 4.75 VDC~5.25 VDC;
 - 2) Operating current: ≤ 300 mA;
- c) Post-test examination: Under standard atmospheric conditions, check the appearance and function of the samples.

3.6 Test Criterion

No.	Items		Test Requirements
1	Functional requirements	Actual connection	After the computer is connected to the keyboard, there should be no crashes, serious delays, etc.
2		Key code correspondence	Key code should correspond one by one, press A to output A.
3		Output correspondence	After pressing the key, there should be no defects such as missing key values, repeat key values, or non-responsive keys.
4		Key sensitive	The keys are sensitive and responsive when pressed.
5		Indicator light controllable	The lighting and extinguishing of the LED should be controlled and the brightness is stable.
6		Uniform air pressure	Internal gas can be discharged normally, with no visible bulging on the appearance.
7		Backlight controllable	The backlight can be controlled to turn on and off, and the brightness can be adjusted.
8		Key rebound intact	After pressing the four edges, four corners, and center of the key, it should spring back normally without sticking or non-responsive keys.

3.7 Detecting Photos

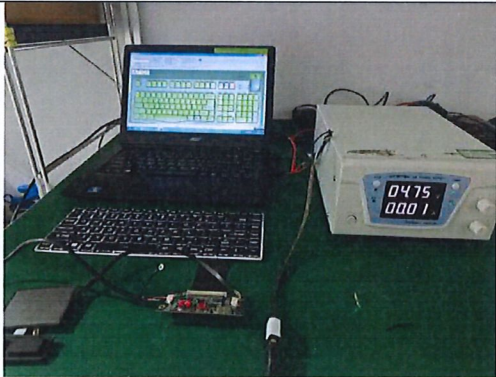
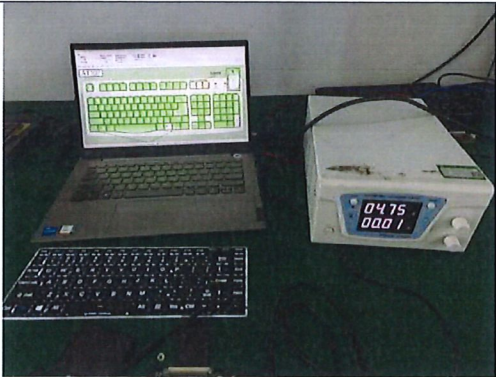
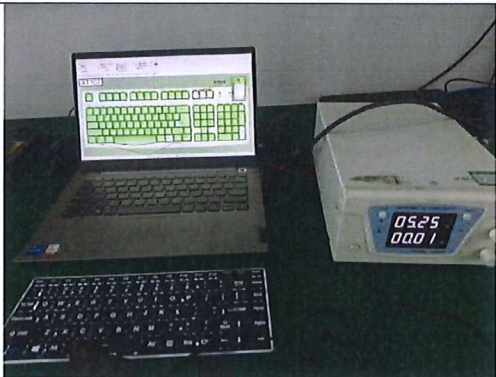
	
Fig. 1 Function Test Normal (S01)	Fig. 2 Function Test Normal (S01)
	
Fig. 3 Function Test Normal (S02)	Fig. 4 Function Test Normal (S02)



Fig. 5 Function Test Normal (S03)

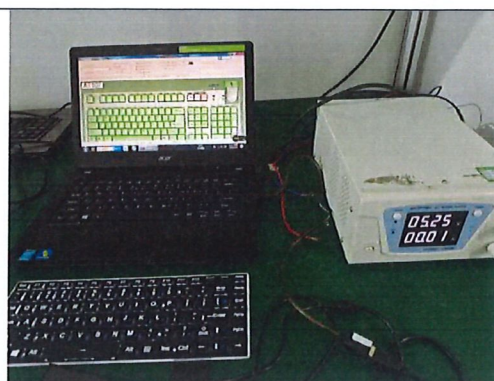


Fig. 6 Function Test Normal (S03)

3.8 Detection Result

3.8.1 4.75VDC Detection Result

No.	Items		Test Requirements	Test Results
1	Functional requirements	Actual connection	After the computer is connected to the keyboard, there should be no crashes, serious delays, etc.	Pass
2		Key code correspondence	Key code should correspond one by one, press A to output A.	Pass
3		Output correspondence	After pressing the key, there should be no defects such as missing key values, repeat key values, or non-responsive keys.	Pass
4		Key sensitive	The keys are sensitive and responsive when pressed.	Pass
5		Indicator light controllable	The lighting and extinguishing of the LED should be controlled and the brightness is stable.	Pass
6		Uniform air pressure	Internal gas can be discharged normally, with no visible bulging on the appearance.	Pass
7		Backlight controllable	The backlight can be controlled to turn on and off, and the brightness can be adjusted.	Pass
8		Key rebound intact	After pressing the four edges, four corners, and center of the key, it should spring back normally without sticking or non-responsive keys.	Pass

3.8.2 5.25VDC Detection Result

No.	Items		Test Requirements	Test Results
1	Functional requirements	Actual connection	After the computer is connected to the keyboard, there should be no crashes, serious delays, etc.	Pass
2		Key code correspondence	Key code should correspond one by one, press A to output A.	Pass
3		Output correspondence	After pressing the key, there should be no defects such as missing key values, repeat key values, or non-responsive keys.	Pass
4		Key sensitive	The keys are sensitive and responsive when pressed.	Pass
5		Indicator light controllable	The lighting and extinguishing of the LED should be controlled and the brightness is stable.	Pass
6		Uniform air pressure	Internal gas can be discharged normally, with no visible bulging on the appearance.	Pass
7		Backlight controllable	The backlight can be controlled to turn on and off, and the brightness can be adjusted.	Pass
8		Key rebound intact	After pressing the four edges, four corners, and center of the key, it should spring back normally without sticking or non-responsive keys.	Pass

4. Safety test

4.1 Tested Sample

No.	Name	Model	Quantity	SN	Test Number
1	Waterproof Scissor Switch Keyboard	K-TEK-V285-FN-BL-FC-SC-NV-151B-DW P+TP65-DML+2K	3 pcs	V285-FN-BL-FC-SC-NV-151B-DW P+TP65-DML+2K -20251011000001	ACSH202511024-S01
2				V285-FN-BL-FC-SC-NV-151B-DW P+TP65-DML+2K -20251011000002	ACSH202511024-S02
3				V285-FN-BL-FC-SC-NV-151B-DW P+TP65-DML+2K -20251011000003	ACSH202511024-S03

4.2 Test Equipment and Instruments

No.	Name	Model	Number	Validity Period of Calibration	Remark
1	Comprehensive Electrical Safety Analyzer	AN9637H	ACSH-A-050	October 9, 2026	/

4.3 Test Standard

<JT-WI-YF-0520 K-TEK-V285-FN-BL-FC-SC-NV-151B-DWP+TP65-DML+2K Detailed Specification>.

4.4 Test Time

January 8, 2026

4.5 Test Conditions

The tests is conducted as required by the client. The test method is as follows:

- a) Pre-test examination: Under standard atmospheric conditions, check the appearance of the samples.
- b) Test method:

Safety Test Level

Level	Test Conditions	Insulation Resistance
a	Normal atmospheric conditions	$\geq 100\text{ M}\Omega$

1) Test voltage: 150 V;

2) Test time: 1 min;

c) Post-test examination: Under standard atmospheric conditions, check the appearance of the samples.

4.6 Test Criterion

Under normal atmospheric conditions, the insulation resistance of the sample shall not be less than 100 MΩ.

4.7 Detecting Photos

	
Fig. 1 Insulation Resistance Test (S01)	Fig. 2 Insulation Resistance Test (S01)

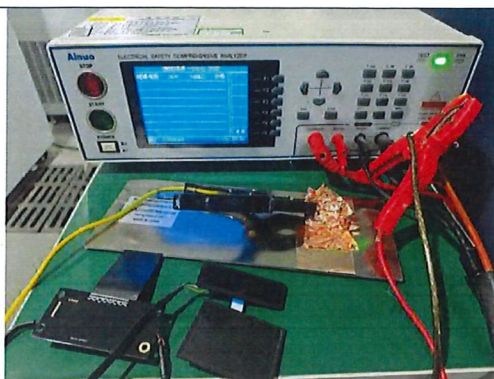


Fig. 3 Insulation Resistance Test (S02)



Fig. 4 Insulation Resistance Test (S02)

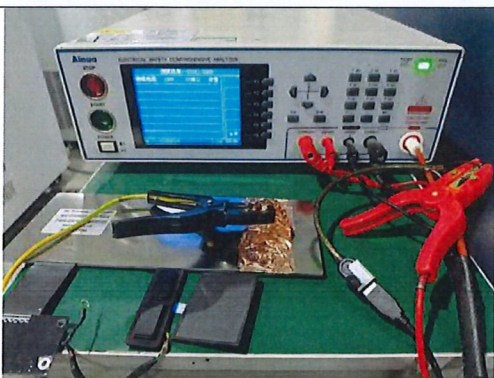


Fig. 5 Insulation Resistance Test (S03)



Fig. 6 Insulation Resistance Test (S03)

4.8 Test Data

No.	Sample	Test Voltage (V)	Test Time (min)	Insulation Resistance (MΩ)
1	S01	150	1	279
2	S02	150	1	348
3	S03	150	1	378

4.9 Detection Result

Under normal atmospheric conditions, the insulation resistance of the samples were greater than 100 MΩ. The test was passed.

(End)

ATTENTIONS

1. The report is invalid without the special seal for testing.
2. The report is invalid without the signature or seal of the preparer, reviewer, or approver.
3. The report is invalid if altered, added or deleted.
4. The project marked with "*" is not included in the scope of the company's CNAS recognition.
5. If there is any objection to the test data and conclusions of this testing report, submit it in writing within 10 working days after the date of issuance of the report.
6. The Chinese and English reports issued by the company's laboratory are equally authentic. In case of any discrepancy in understanding, the Chinese version shall prevail.
7. The paper version report and electronic version report issued by the company's laboratory are equally authentic. In case of any discrepancy between the two, the paper version report shall prevail.
8. The samples and sample information in this report must be provided and confirmed by the applicant, and the test data and results are only applicable to the tested samples.

Name: Shenzhen Ancheshenghui Test Technology Co., Ltd.

Address: Room 101, Building A, No.5, Tianwan Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen, Guangdong, China

Postcode: 518107

Tel: 0755-29893646