

Sample name:





Test report

Report No.: <u>JCBG(M) 20241023001</u>

*Sample model: iDC-TCV900-HI

Entrust unit: Hangzhou Hikvision Digital

Technology Co., Ltd.

HD Traffic Unit

Test categories: Entrust test

Conclusion: Qualified

Hangzhou TDT Technologies Co., Ltd.

Statement

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Name of testing unit: Hangzhou TDT Technologies Co., Ltd.

Address: East Zone, 2/F., Room 104, West Zone, Building 4, Room 101&201, Building 3,

No.12, Binwen Road, Xixing Street, Binjiang District, Hangzhou, Zhejiang, China

Postal Code: 310051

Contact number:0571-88316350

Complaint number: 0571-88317620-8023

Website: www.tdtest.cn



Revision history

Date	Revised version	Description	Author
2024.10.25	V1.0	First draft completed	Qi Jin

Sample name	HD Traffic Unit	Model	iDS-TCV900-HI	
Derive name	HD Traffic Unit	Derive Model	Please refer to the note for details	
Applicant	Hangzhou Hikvision Digital Technology Co., Ltd.	Address	No. 555, Qianmo Road, Binjiang District,Hangzhou, Zhejiang Province, China	
Manufacturer	Hangzhou Hikvision Digital Technology Co., Ltd.	Address	No. 555, Qianmo Road, Binjiang District,Hangzhou, Zhejiang Province, China	
Test categories	Entrusted test	Date received	October 23, 2024	
Samples quantity	1pcs	Samples number	EUT-1: 241023010 (the internal numbe of TDT Technologies Co., Ltd.)	
Test site	Laboratory of Hangzhou	Test date	2024.10.23~2024.10.24	
	TDT Technologies Co.,Ltd.	Issue date	2024.10.25	
Test basis	IEC 60068-2-27-2008 IEC 60068-2-64-2019			
Test items	Random Vibration Test、Random vibration Test(packaging)、			
	Impact Test、Impact Test (packaging)			
Test conclusion	Check whether the appearance and performance of the sample are normal after undergoing random vibration and impact tests.			

Approver: Ning Zhang (General manager)

Ning shong

Checker: Liang Wu (Lab director)

Liang Wu Qi Jin

Equipment of testing

NO	Equipment name	Model	Equipment serial number	Calibration date	
1	1#Electric vibration	DC-2200-26	01140603	2025.02.18	
	testing system	DC-2200-20	01140003	2023.02.10	
2	2#Electric vibration	DC-2200-26	180207	2025.02.18	
	testing system	DC-2200-20	100207	2023.02.10	
3	30#Sensors	2107CM	23051887	2025.07.15	
4	19#Sensors	EA-YD-103	16337	2024.12.11	

Experimental environmental conditions:

Ambient Temperature : 21.5 $^{\circ}$ C ~23.2 $^{\circ}$ C Environment humidity : 47%RH~51%RH

Environment at atmospheric Pressure: 100.1kPa~100.3kPa

Distribution of samples

EUT-1:

Random Vibration Test、Random vibration Test(packaging)、

Impact Test、Impact Test (packaging)

Sample description:

The packaging is not powered on, and the bare machine is powered on throughout the entire process.



Note.

Hangzhou Hikvision Digital Technology Co., Ltd. products:

HD Traffic Unit,

model:iDS-TCV900-HI,iDS-TCV900-HIP,iDS-TCV900-HE,iDS-TCE900-H,iDS-TCV900-HIX, iDS-TCV900-HX,iDS-TCV900-HIP/1140/TH,iDS-TCV900-BI,iDS-TCV900-BE,iDS-TCV500-HI, iDS-TCV500-HIP,iDS-TCV500-HE,iDS-TCV500-H,iDS-TCV500-HIX,iDS-TCV500-HX, iDS-TCV500-BE,iDS-TCV500-BE,iDS-TCVC00-HI,iDS-TCVC00-HIP,iDS-TCVC00-HE,

iDS-TCEC00-H,iDS-TCVC00-HIX,iDS-TCVC00-HX,iDS-TCVG00-HI,iDS-TCVG00-HIP,iDS-TCVG00-HE,

iDS-TCEG00-H,iDS-TCVG00-HIX,iDS-TCVG00-HX,iDS-TCVG00-FI,iDS-TCVK00-HI,

iDS-TCVK00-HIP,iDS-TCVK00-HE,iDS-TCEK00-H,iDS-TCVK00-HIX,iDS-TCVK00-HX,

iDS-TCVK00-FI,iDS-TCSC00-HI,iDS-TCSC00-H,iDS-TCSC00-HX,iDS-TCSG00-HI,

iDS-TCSG00-H,iDS-TCSG00-HX,iDS-TCSK00-HI,iDS-TCSK00-H,iDS-TCS900-HI,

iDS-TCS900-H,iDS-TCSK00-HX,iDS-TCS900-HX,iDS-TCS800-HI,iDS-TCS800-H,

iDS-TCS400-HI,iDS-TCS400-H,iDS-TCS800-HX,iDS-TCS400-HX Except for the sensor, the structure and function of the product are completely identical, with only model differences. Considering the different sales channels in the market, the above models are distinguished. This is to clarify.

The photos of samples







Photo of samples layouts



EUT-1 X axis fixed photo Random vibration Test(packaging)



EUT-1 Y-axis layouts photo Random vibration Test(packaging)



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EUT-1 Z-axis layouts photo Random vibration Test(packaging)



EUT-1 X-axis layouts photo Random Vibration Test





EUT-1 Y-axis layouts photo Random Vibration Test



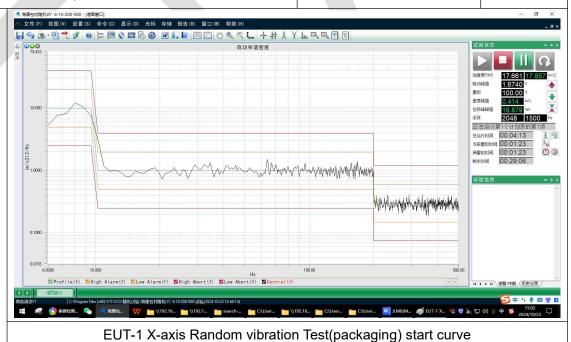
EUT-1 Z-axis layouts photo Random Vibration Test



Random vibration Test(packaging)Test results					
	Techr	nical requirement	Test results Determine		
Sample status	s: packaging	3			
Frequency (Hz)	ASD (m ² /s ³)	Effective value(m/s²)	axial/Testing time		
6	10			The appearance, structure,	
10	10			and function of the initial	
10	1	17.8	X-axis/30min		
200	1	17.0	Y-axis/30min	test sample are normal.	
200	0.3			www.liff.a.d	
500	0.3			The appearance, structure, qualified	
6	13			and function of the final	
10	13				
10	3	20 E	7 avia/20min	inspection sample are	
200	3	30.5	Z-axis/30min	normal.	
200	1				

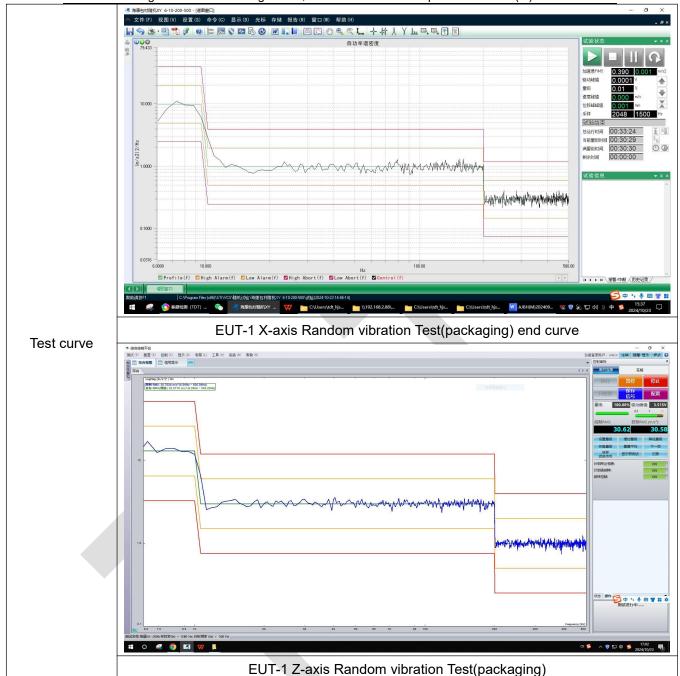
Power supply situation: Not powered on

1



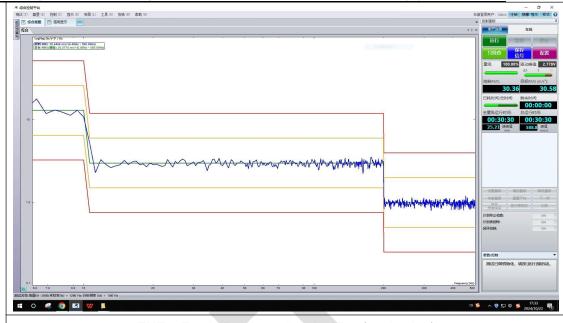
Test curve

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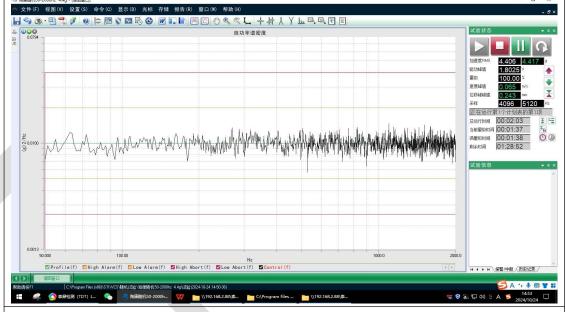
EUT-1 Z-axis Random vibration Test(packaging)

Testing personnel: Ying Li Chao



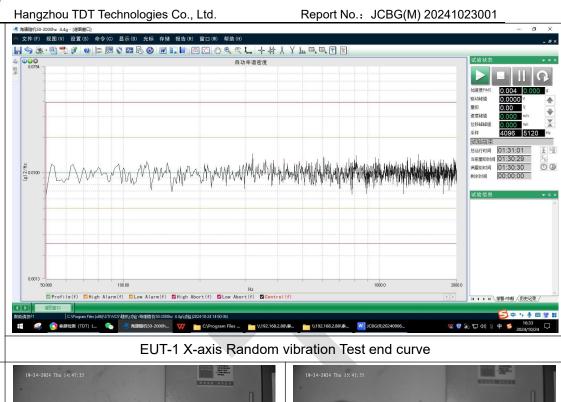
Random Vibration Test Test results					
	Technical requirements			Test results	Determine
Sample status	Sample status: bare pager			The appearance, structure,	
Frequency (Hz)	PSD (g²/Hz)	Effective value (g)	axial/Testing time	test sample are normal.	
50	0.01		X-axis/90min		
2000	0.01	4.4	Y-axis/90min Z-axis/90min	The appearance, structure,	qualified
Power supply situation:Power on				and function of the final inspection sample are normal.	





EUT-1 X-axis Random vibration Test star curve

Test curve







X-axis Random vibration begins

X-axis Random vibration in progress



functional verification

10-24-2924 Thu 17-16-35

X-axis Random vibration ends

Y-axis Random vibration begins



Y-axis Random vibration in progress

Y-axis Random vibration ends



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functional verification

Z-axis Random vibration begins

Z-axis Random vibration in progress

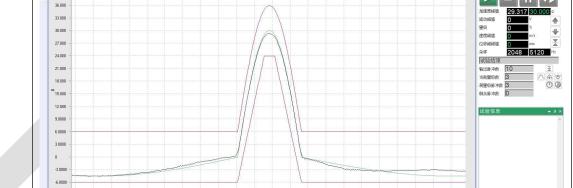


Z-axis Random vibration ends

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Testing personnel: Ying Li Chao

Impact Test (packaging)Test results					
Testing items	technical requirement	detection result			
Sample status: packing	The appearance, structure,				
Impact waveform: Half sine wave	and function of the initial				
pulse width: 11ms	test sample are normal.				
Impact acceleration: 30g	The appearance, structure,	qualified			
3 times in both positive and negative directions of the	and function of the final				
XYZ axis, 6 times in total	inspection sample are				
Power supply situation: Not powered on	normal				



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test curve

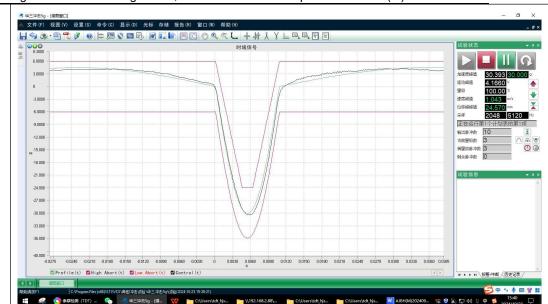
EUT-1 X-axis Impact test (packaging) star curv

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test curve

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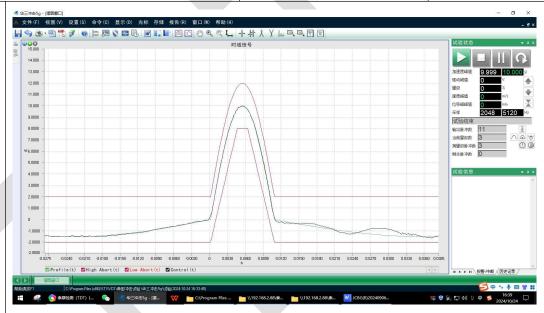
EUT-1 X-axis Impact test (packaging) end curve

Testing personnel: Ying Li Chao

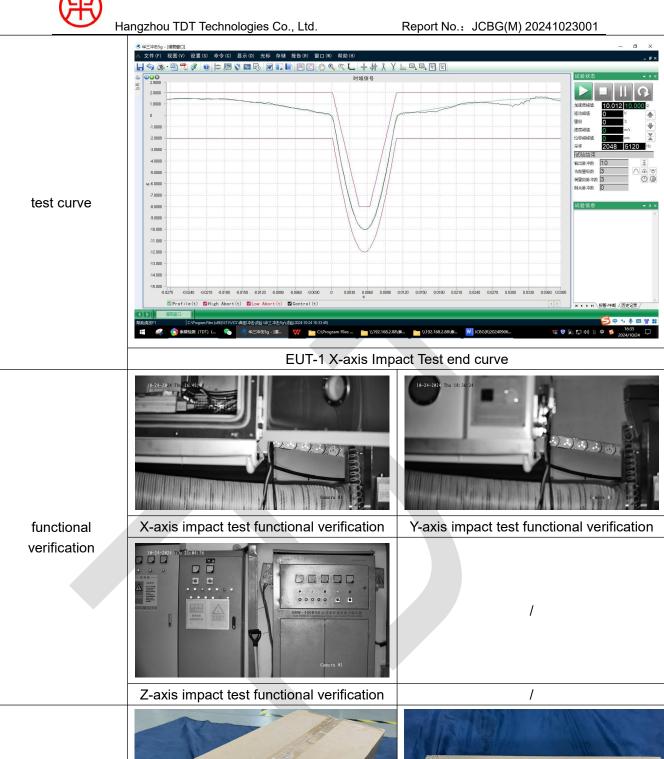


Impact Test results					
Testing items	technical requirement	detection result			
Sample status: bare pager Impact waveform: Half sine wave Impact acceleration: 10g pulse width: 11ms Pulse interval: 10s 3 times in both positive and negative directions of the XYZ axis, 6 times in total	The appearance, structure, and function of the initial test sample are normal. The appearance, structure, and function of the final inspection sample are	qualified			
Power supply situation: Power on	Homa				





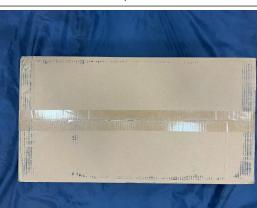
EUT-1 X-axis Impact Test star curve



View photos



EUT-1 Front photo of packaging



EUT-1 Packaging back photo



EUT-1 Internal photos of packaging

EUT-1 Photos of internal components of packaging







EUT-1 Bare metal photos

EUT-1 Internal photos of bare metal



EUT-1 Bare metal photos

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Testing personnel: Ying Li Chao

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