

No.	N1703CR8888-00059-Y
Total page	45



中国认可
国际互认
检测
TESTING
CNAS L0462

TEST REPORT

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Product Name : Color Camera

Type and Specification : AE-VC161T-ITS;AE-VC161A-ITS

Test Category : Entrusted Test

Factory : Hangzhou Hikvision Electronics Co.,Ltd.

Client: Hangzhou Hikvision Automotive Technology Co., Ltd.



**China Electronic Product Reliability And
Environmental Testing Research Institute**
China CEPREI Laboratory

TEST REPORT

Report reference No	N1703CR8888-00059-Y
Total number of pages	45
Test item description	Color Camera
Trademark	/
Model and/or type reference	AE-VC161T-ITS
Factory's Name	Hangzhou Hikvision Electronics Co.,Ltd.
Address	No.299,Qiushi Road,Tonglu Economic Development Zone,Tonglu County, Hangzhou 311501 ,Zhejiang , China
Client's Name	Hangzhou Hikvision Automotive Technology Co., Ltd.
Address	Building 2, floor 1,No.700 Dongliu Road, Binjiang District, Hangzhou 310052, China
Testing Laboratory Name	China CEPREI Laboratory/ China Electronic Product Reliability and Environmental Testing Research Institute
Address	No.110 Dongguanhuang Rd., Tianhe District,Guangzhou, Guangdong, 510610, China
Testing location	China CEPREI Laboratory
Test specification	
Standard	EN 50155:2007;EN 50121-3-2:2006;IEC 60068-2-1:2007;IEC 60068-2-2:2007;IEC 60068-2-30:2005;IEC 60068-2-64:1993;IEC 61373:1999;
Test category	Entrusted Test
Number of test item.....	1
Date of receipt of test item	2017.03.17
Date(s) of performance of test.....	2017.03.17-2017.03.31
Ambient Condition.....	15~35°C, 45~75%RH, 86~106Kpa
Test Instruments and Equipment.....	See Equipment List of This Report.
Summary of Testing and Conclusions PASS.	
Tested by (printed name and signature)	Wang Weifeng(王卫锋)
Reviewed by (printed name and signature)	Yu Haitao (余海涛)
Approved by (printed name and signature)	Yang Lin (杨林)
Date of issue	2017.03.02

Test case verdicts	
Test case does not apply to the test object.....:	N
Test item does meet the requirement(Pass).....:	PASS
Test item does not meet the requirement(Fail).....:	F
General remarks	
1. Report without "specific stamp" of inspection organization or the authority will be regarded as invalid. 2. Duplicated report without original "specific stamp" of inspection organization or the authority will be regarded as invalid. 3. Report without the signatures of Tester, Reviewer or Approval will be regarded as invalid. 4. Test report if altered will be regarded as invalid. 5. Any dispute about the report must be submitted to inspection organization within 15 days upon report received, it will be rejected if out of the period. 6. Generally, the entrusted test only responsible for the samples.	
General product information:	
1、The models of entrusted test: AE-VC161T-ITS; AE-VC161A-ITS. Description of the difference between the product models: in addition to the resolution is different, other aspects are all the same. The tests carried out on the model AE-VC161T-ITS. 2、The sample consists of two cameras, encoded as 1 #-1 and 1 #-2.	
Testing Laboratory Contact Info:	
China CEPREI Laboratory/ China Electronic Product Reliability and Environmental Testing Research Institute Address: No.110 Dongguan Zhuang Rd., Tianhe District, Guangzhou, Guangdong, 510610, China Post: P.O.Box1501-07, Guangzhou Postcode: 510610 TEL: +86-20-85131111 FAX: +86-20-87236171, +86-20-85131313 Technical Consultant: +86-20-85131285, +86-20-85131260 Business Contact: +86-20-87237177, market@ceprei.biz Enquiry: +86-20-87237150, +86-20-85131123, info@ceprei.biz Complaint: +86-20-87237622, +86-20-87236789, qic@ceprei.biz	

EMC Standards Compliance List / Test summary

The following standards have been applied to ensure the product conforms to the protection requirements of the client.

Electromagnetic Emissions				
Test Item	Class	Standard	Result	
Conducted Emission at mains terminals (0.15-30MHz)	/	EN 50155:2007	PASS	
Radiated Emission(30-1000MHz)	/	EN 50155:2007	PASS	
Electromagnetic Immunity				
Test Item	Performance Criteria	Standard	Test Level	Result
Electrical Fast Transient/Burst Immunity	A	EN 50155:2007	±2kV Peak 5/50ns Tr/Th 5kHz Repetition frequency	PASS
Radio-frequency Electromagnetic Fields Immunity	A	EN 50155:2007	80-1000 MHz 20 V/m(r.m.s) unmodulated carrier 80 % AM,1kHz	PASS
Radio-frequency Electromagnetic Field,from Digital Mobile Telephones Immunity	A	EN 50155:2007	800-1000 MHz,20 V/m(r.m.s); 1400-2100 MHz,10 V/m(r.m.s); 2100-2500 MHz,5 V/m(r.m.s); unmodulated carrier 80 % AM,1kHz	PASS
Radio-frequency Conducted Disturbance Immunity	A	EN 50155:2007	0.15-80 MHz 10 V(r.m.s) unmodulated carrier 80 % AM,1kHz	PASS
Surge Immunity	B	EN 50155:2007	1.2/50µs ±1kV(line to line) ±2kV(line to earth)	PASS
Electrostatic Discharge Immunity	B	EN 50155:2007	±6 kV(Contact discharge) ±8 kV(Air discharge)	PASS
Interruptions of Voltage Supply Immunity	/	EN 50155:2007	100% reduction 10ms	PASS
Variations of Voltage Supply Immunity	/	EN 50155:2007	Minimum voltage 0.7Un Maximum voltage 1.25Un 60-140% change linear 0.1s 125-140% change linear 1s	PASS
Supply Overvoltages	/	EN 50155:2007	1.4Un	PASS

Environment Standards Compliance List and Test equipment

The following standards have been applied to ensure the product conforms to the protection requirements of the client.

Environment Standards			
Test Item	Standard	Test Level	Result
Visual Inspection	EN 50155:2007	/	PASS
Insulation Resistance Test	EN 50155:2007	500VDC	PASS
Dielectric Strength Test	EN 50155:2007	500V/50Hz,60s	PASS
Low Temperature Test	IEC 60068-2-1:2007	-25°C,2h	PASS
Low Temperature Storage Test	IEC 60068-2-1:2007	-40°C,16h	PASS
High temperature Test	IEC 60068-2-2:2007	70°C,6h	PASS
Damp Heat Cyclic Test	IEC 60068-2-30:2005	Temperature: +55°C and +25°C; Number of cycle: 2; Time: 2X24 hours;	PASS
Random Vibration Test	IEC 60068-2-64:1993	Function test X:10min,Y:10min,Z:10min; Long life test X:5h,Y: 5h,Z: 5h;	PASS
Mechanical Shock Test	IEC 61373:1999	3times / axis, total 6 times	PASS
Environment Test equipment			
Test Equipment	Model	Serial No.	Due Date
Environment Test Chamber	CEEC-WSJ-2000B	12024-3	Dec.08, 2017
Electrodynamic Vibration System	DC-3200-36	071023	Jul.9, 2017
Withstanding Voltage and Insulation Resistance tester	TOS9201	TC001054	Dec.08, 2017