Test Report issued under the responsibility of:

UL International Demko A/S

TEST REPORT
IEC 60950-1
Information technology equipment - Safety - Part 1: General requirements

Report Reference No ..... :	E204896-A45-CB-3
Date of issue ..... :	2011-03-03
Total number of pages ..... :	11
CB Testing Laboratory ..... :	UL International Limited
Address ..... :	18/F Delta House, 3 On Yiu Street, Shatin, NT, Hong Kong
Applicant's name ..... :	NVIDIA CORP
Address ..... :	2701 SAN TOMAS EXPY SANTA CLARA CA 95050 UNITED STATES
Test specification:	
Standard ..... :	IEC 60950-1:2005 (Second Edition)
Test procedure ..... :	CB Scheme
Non-standard test method ..... :	N/A
Test Report Form No. ..... :	IEC60950_1A
Test Report Form originator ..... :	SGS Fimko Ltd
Master TRF ..... :	2009-09

This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

Test item description ..... :	Accessory 3D Vision System/3D Vision Pro/3D Vision Glasses
Trade Mark ..... :	nVIDIA
Manufacturer ..... :	NVIDIA CORP 2701 SAN TOMAS EXPY SANTA CLARA CA 95050 UNITED STATES
Model/Type reference ..... :	P701, P854, P703/P753, P864, P1431
Rating ..... :	Not required. Optionally provided as follows: For Model P701: Input rating: 5 Vdc, 400 mA (Stereo Controller); 5 Vdc, 30 mA (Stereo Glasses - Charging Mode). For Model P854: Input rating: 5 Vdc, 400 mA (Stereo Controller); 5 Vdc, 40 mA (Stereo Glasses - Charging Mode). For Model P703/P753: Input rating: 5 V dc, 200 mA (Stereo Hub); 5 V dc, 100 mA (Stereo Glasses - Charging Mode). For Model P864: Input rating: 5 V dc, 65mA For Model P1431: Input rating: 5 Vdc, 50 mA (Stereo Glasses - Charging Mode).

Testing procedure and testing location:			
[x]	**CB Testing Laboratory**		
	Testing location / address..... :	UL International Limited 18/F Delta House, 3 On Yiu Street, Shatin, NT, Hong Kong	
[ ]	**Associated CB Test Laboratory**		
	Testing location / address..... :		
	Tested by (name + signature) ..... :	Patty Li	
	Approved by (+ signature) ..... :	Paul Wan	
[ ]	**Testing Procedure: TMP**		
	Tested by (name + signature) ..... :		
	Approved by (+ signature) ..... :		
	Testing location / address..... :		
[ ]	**Testing Procedure: WMT**		
	Tested by (name + signature) ..... :		
	Witnessed by (+ signature)..... :		
	Approved by (+ signature) ..... :		
	Testing location / address..... :		
[ ]	**Testing Procedure: SMT**		
	Tested by (name + signature) ..... :		
	Approved by (+ signature) ..... :		
	Supervised by (+ signature) ..... :		
	Testing location / address..... :		
[ ]	**Testing Procedure: RMT**		
	Tested by (name + signature) ..... :		
	Approved by (+ signature) ..... :		
	Supervised by (+ signature) ..... :		
	Testing location / address..... :		

List of Attachments

National Differences (0 pages)

Enclosures (8 pages)

Summary of Testing:

No tests were conducted

Summary of Compliance with National Differences:

List of countries addressed: AT, AU, BE, BG, BR, CA, CH, CN, CY, CZ, DE, DK, EE, ES, EU, FI, FR, GB, GR, HU, IE, IL, IS, IT, JP, KR, LT, LU, LV, MT, NL, NO, PL, PT, RO, SE, SG, SI, SK, UA, US

Copy of Marking Plate - Refer to Enclosure titled Marking Plate for copy.

Test item particulars :	
Equipment mobility .....:	movable
Connection to the mains .....:	No direct connection
Operating condition .....:	continuous
Access location .....:	operator accessible
Over voltage category (OVC) .....:	OVC II
Mains supply tolerance (%) or absolute mains supply values .....:	N/A
Tested for IT power systems .....:	No
IT testing, phase-phase voltage (V) .....:	N/A
Class of equipment .....:	Class III (supplied by SELV)
Considered current rating (A) .....:	See Ratings Information.
Pollution degree (PD) .....:	PD 2
IP protection class .....:	IP X0
Altitude of operation (m) .....:	Up to 2000 m
Altitude of test laboratory (m) .....:	42.7 m
Mass of equipment (kg) .....:	0.01
Possible test case verdicts:	
- test case does not apply to the test object .....:	N / A
- test object does meet the requirement .....:	P(Pass)
- test object does not meet the requirement .....:	F(Fail)
Testing:	
Date(s) of receipt of test item .....:	N/A
Date(s) of Performance of tests .....:	N/A

General remarks:

The test results presented in this report relate only to the object tested.
This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

"(see Enclosure #)" refers to additional information appended to the report.
"(see appended table)" refers to a table appended to the report.

Throughout this report a point is used as the decimal separator.

Manufacturer's Declaration per SubClause 6.25 of IECEE 02:

The application for obtaining a CB Test Certificate includes more than one factory and a declaration form the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided ..... Yes

When differences exist, they shall be identified in the General Product Information section.

Name and address of Factory(ies): HONG FU JIN PRECISION INDUSTRY (SHENZHEN) CO LTD
10TH YOUSONG INDUSTRIAL DISTRICT, 2ND DONGHUAN RD

NO 2, BAO'AN LONGHUA TOWN, SHENZHEN GUANGDONG 518109 CHINA

BYD (HUIZHOU) CO LTD
XIANGSHUI RIVER, ECONOMIC DEVELOPMENT ZONE, DAYA BAY, HUIZHOU GUANGDONG 516083, CHINA

GENERAL PRODUCT INFORMATION:

Report Summary

The original report was modified on 2011-08-25 to include the following changes/additions:
No test was considered necessary on additional of 3D Vision Glasses, Model P1431 due to similarity to previous Listed Model investigation.

This test report should be read in conjunction with the original report number:
- E204896-A45-CB-3, issued 2011-03-03, with CB Certificate No. (DK-22006), issued 2011-03-03.
- E204896-A45-CB-3 with Correction 1, issued 2011-06-30.

This report has been amended, due to:
- Additional of 3D Vision Glasses, Model P1431, and
- Add the product name 3D Vision Glasses.

Product Description

The 3D Vision glasses system is an Accessory Class III product intended for use with a UL Listed PC. These products are provided as a pair consisting of the stereo controller hub and 3D glasses.

Model Differences

P854 is similar to P701 in both stereo controller and 3D glasses except that P854 uses a different battery, provides different optional electrical ratings on the 3D glasses, and SELV circuitry that does not impact safety.

Model P703/P753 is similar to Model P854 except for the battery and SELV circuitry that does not impact safety. Model P703 and P753 may be provided as a pair or individually.

Model P864 is similar to Model P703 except Model P864 is a wired 3D shutter Glasses while Model P703 is a wireless 3D shutter Glasses, Model P864 is connected to computer via USB port and get power from this USB port while Model P703 is powered by a lithium battery and the battery can be charged via USB port on glasses.

Model P1431 is similar to the stereo glasses of Model P854 except for different enclosure structure and input current.

Additional Information

This test report should be read in conjunction with the original report number:
- E204896-A45-CB-2, issued 2010-10-15, with CB Certificate No. (US/15855/UL), issued 2010-10-15.
- E204896-A45-CB-2 with Amendment 1, issued 2011-02-07, with CB Certificate No. (US/15855A/UL), issued 2011-02-07.

No tests conducted under this investigation due to reissue of CB Test Report Ref. No E204896-A45-CB-2. All

required tests were carried out under the original investigation.

This report is a reissue of CBTR Ref. No.: E204896-A45-CB-2, CB Test Certificate Ref. No. US/15855/UL and was originally issued by Underwriters Laboratories Inc. Based on the previously conducted testing and the review of product technical documentation including photos, schematics, wiring diagrams and similar, has been determined that the product continues to comply with the standard.

This report has been re-issued, due to:
1, Add new model P864 (Wired 3D shutter Glasses)
2. Add new factory BYD (HUIZHOU) CO LTD/ XIANGSHUI RIVER
ECONOMIC DEVELOPMENT ZONE, DAYA BAY, HUIZHOU, GUANGDONG 516083, CHINA

This report is a Reissue of Report Ref. No. E204896-A45-CB-1 and was originally issued by UL International Demko A/S, Original Issue Date: 2008-10-09 and Amendment 1 Issue Date: 2010-01-26. Based on the test results of the previous investigation, only the Battery Test of sub-clause 4.3.8 was considered to add Model P703/P753 which was similar to Model P854.

The attached labels are representative for all models covered under this report.

Revision: (02-03-11) - Added alternate battery, type AHB361320, by Synergy Scientech Corp to the Critical Component Table.

UL project 11SC02091 (for UL only)
1, Add new model P864 (Wired 3D shutter Glasses)
2. Add new factory BYD (HUIZHOU) CO LTD/ XIANGSHUI RIVER, ECONOMIC DEVELOPMENT ZONE, DAYA BAY, HUIZHOU, GUANGDONG 516083, CHINA

Revision (11SC03790):
- Additional of 3D Vision Glasses, Model P1431.

Technical Considerations

- The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of: 55°C

- The product was investigated to the following additional standards: EN 60950-1:2006+ A11:2009 (which includes all European national differences, including those specified in this test report).

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
1.6	Power interface		Pass
1.6.2	Input current	Class III equipment. Test data recorded in Table 1.6.2 provided for reference purposes only.	Pass

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

1.5.1	**TABLE: list of critical components**				Pass
object/part or Description	manufacturer/ trademark	type/model	technical data	standard (edition/year)	mark(s) of conformity[1])
Enclosure (For 3D Stereo Controller only) - Models P701, P854, and P753	Various	Various	Rated min. HB, 1.0 mm thickness, overall measured 62.0 mm by 62.0 mm by 38.0 mm.	UL746C, UL94	UL, --
Enclosure (For 3D Stereo Glasses only) - Models P701, P854, P703, P864 and P1431	Various	Various	Rated min. HB, 1.0 mm thickness, overall measured 168.0 mm by 163.0 mm by 46.0 mm.	UL746C, UL94	UL, --
Printed Wiring Board	Various	Various	Rated Min. V-1, 105 °C.	UL796	UL, --
Connectors (SELV)	Various	Various	Copper alloy pins housed in plastic body rated min V-2.	UL498, UL1977, UL94, UL746C	UL, --
Label	Various	Various	Rated min. 60 °C. All labels not printed by manufacturer should be provided by authorized label suppliers vender (PGAA)	UL969	UL, --
Battery (For Model P701, 3D Stereo Glasses only)	Yoku Energy (Shenzhen) Co Ltd	311620	Rated 50 mAh, 3.7 Vdc.	UL1642	UL, (MH29381)
Battery (For Model P854, 3D Stereo Glasses only)	Amperex Technology Ltd	361821	Rated 70 mAh, 3.7 Vdc.	UL1642	UL, (MH27725)
Battery (For Model P703/P753, located in 3D Stereo Glasses only) and P703 when glasses	Synergy Scientech Corp	AHB501621	Rated 3.7 V dc, 120 mAh, max. charging current = 125 mA, max. charging voltage = 4.4 V dc.	UL1642	UL, (MH26626)

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

1.5.1	**TABLE: list of critical components**				Pass
object/part or Description	manufacturer/ trademark	type/model	technical data	standard (edition/year)	mark(s) of conformity[1])
are provided separately.					
Battery (For Model P854 (Alternate) and P1431, 3D Stereo Glasses only).	Synergy Scientech Corp	AHB361320	Rated 85 mAh. Maximum Abnormal Charging Voltage (Vc), 4.4 Vdc)	UL1642	UL, (MH26626)
Cables	Various	Various	Rated min. VW-1 or FT-1, min. 60°C, min. 30 V, max. 3.05 m in length.	UL758	UL, --
Supplementary information: [1]) Provided evidence ensures the agreed level of compliance. See OD-CB2039.					

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

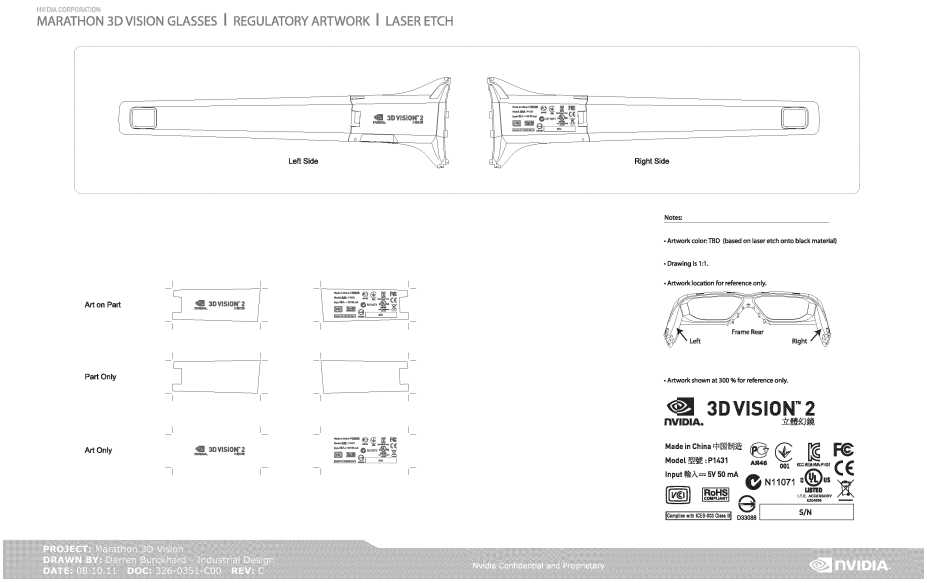
1.6.2	**TABLE: electrical data (in normal conditions)**					Pass
U (V)	I (A)	I rated (A)	P (W)	Fuse #	I fuse (A)	condition/status
supplementary information:						

Enclosures

Type	Supplement Id	Description
Photographs	3-01	Overall View of 3D glasses System, Models P701, P854
Photographs	3-02	Front View of 3D Stereo glasses
Photographs	3-03	Rear View of 3D Stereo glasses
Photographs	3-04	Front View of 3D Stereo Controller
Photographs	3-05	Rear View of 3D Stereo Controller
Photographs	3-06	Back View of 3D Stereo Controller
Photographs	3-08	Internal View of 3D Stereo Controller
Photographs	3-09	Component Side View of 3D Stereo Controller
Photographs	3-10	Component Side View of 3D Stereo Glasses, Model P701
Photographs	3-11	Battery Side View of 3D Stereo Glasses, P701
Photographs	3-12	Component Side View of 3D Stereo Glasses, Model P854
Photographs	3-13	Battery Side View of 3D Stereo Glasses, P854
Photographs	3-14	Overall view of 3D glasses System, Model P864
Photographs	3-15	Front View of 3D Stereo glasses, Models P703/P753
Photographs	3-16	Rear View of 3D Stereo Glasses, Models P703/P753
Photographs	3-17	Photo of Model P703/P753
Photographs	3-18	Attachment Plug for Models P703/P753
Photographs	3-19	Front View of 3D Stereo Controller - Models P703/P753
Photographs	3-20	Back View of 3D Stereo Controller - Models P703/P753
Photographs	3-21	Internal View of 3D Stereo Controller - Models P703/P753
Photographs	3-22	Component Side View of 3D Stereo Glasses, Models P703/P753
Photographs	3-23	Overall View of 3D Vision Glasses, Model P1431
Photographs	3-24	Front View of 3D Vision Glasses, Model P1431
Photographs	3-25	Rear View of 3D Vision Glasses, Model P1431
Photographs	3-26	Component Side View of 3D Vision Glasses, Model P1431
Photographs	3-27	Battery Side View of 3D Vision Glasses, Model P1431
Diagrams		
Schematics + PWB		
Manuals	6-01	P701: Instruction Manual
Manuals	6-02	P854: Instruction manual
Manuals	6-03	P864: Instruction Manual
Miscellaneous	7-02	Model P701: Marking Label of Stereo Controller

Miscellaneous	7-06	Model P854: Marking Label of Stereo Controller
Miscellaneous	7-07	Letter of Assurance
Licenses		
Marking Plate	13-01	Model P701: Stereo Controller
Marking Plate	13-02	Model P854: Stereo Controller
Marking Plate	13-03	Model P854: 3D Glasses
Marking Plate	13-04	Model P864: 3D Vision System (Wired 3D Shutter Glasses)
Marking Plate	13-05	Model P753: Stereo Controller
Marking Plate	13-06	Model P1431: 3D Vision Glasses

MarkingPlate ID 13-06

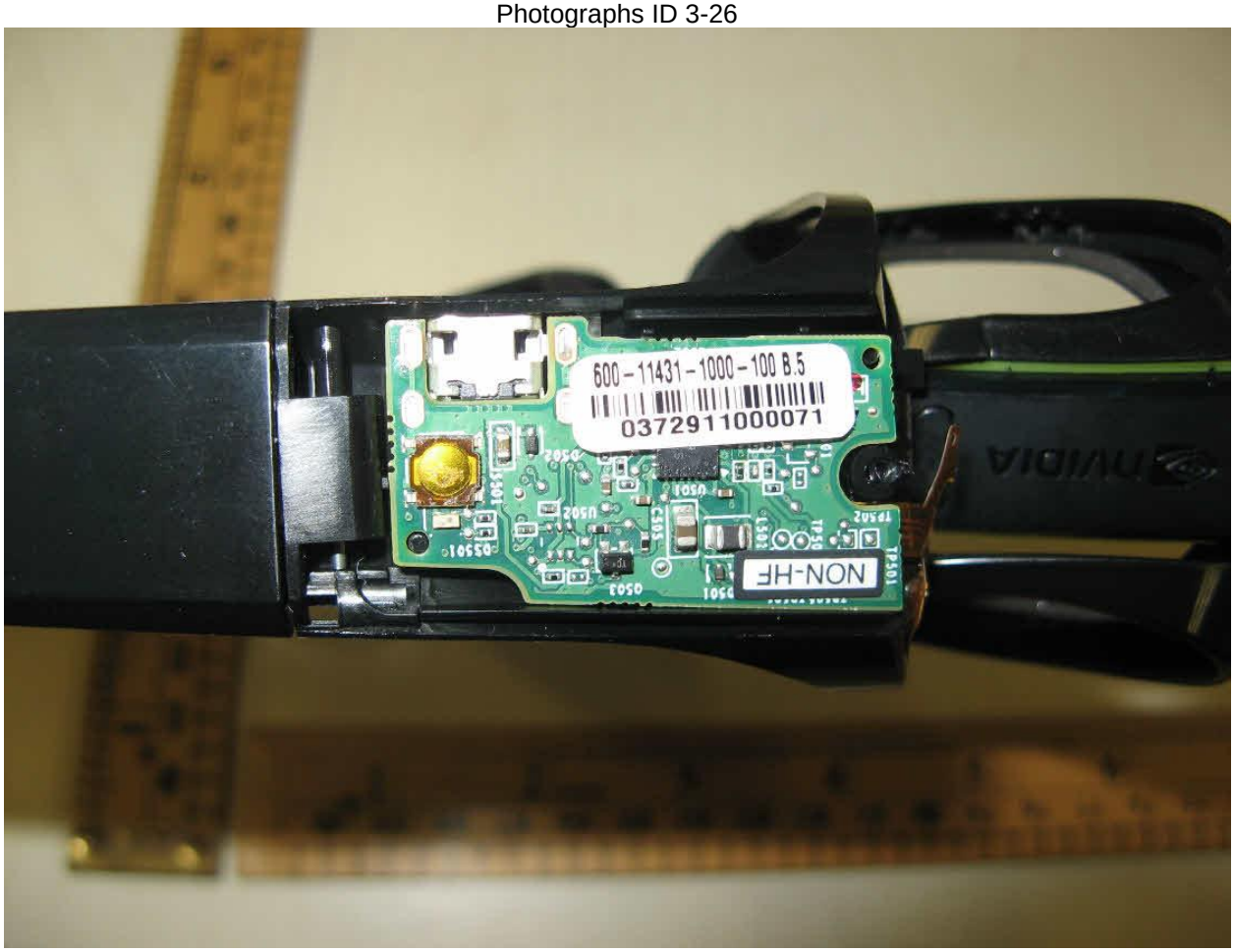


Photographs ID 3-23

Photographs ID 3-24

Photographs ID 3-25

Photographs ID 3-26



Photographs ID 3-27