



Ref. Certif. No.

SG-OF-07982M2

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST
CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE)
CB SCHEME

SYSTEME CEI D'ACCEPTATION MUTUELLE DE
CERTIFICATS D'ESSAIS DES EQUIPEMENTS
ELECTRIQUES (IECEE) METHODE OC

CB TEST CERTIFICATE CERTIFICAT D'ESSAI OC

Product
Produit

Projectors
(DLP Projector)

Name and address of the applicant
Nom et adresse du demandeur

Delta Electronics, Inc.
3, Tungyuan Road, Chungli Industrial Zone,
32063 Taoyuan County, TAIWAN

Name and address of the manufacturer
Nom et adresse du fabricant

NEC Display Solutions, Ltd, 4-28, Mita 1-chome, Minato-ku,, Tokyo,,
108-0073 JAPAN

Name and address of the factory
Nom et adresse de l'usine

Delta Video Display System (Wujiang) Limited, 1688, JiangXing E.Rd.,
WuJiang Economic, 215200 Development Zone, WuJiang City, JiangSu.,
PEOPLE'S REPUBLIC OF CHINA

Ratings and principal characteristics
Valeurs nominales et caractéristiques principales

Rated input voltage: 200-240 Vac
Rated input current: 5.1 A
Rated frequency: 50/60 Hz
Protection class: I

Trade mark (if any)
Marque de fabrique (si elle existe)

NEC

Model/type Ref.
Ref. de type

NP-NC900yyyy
(where "y" can be any character and
"yyyy" is used 1- 4 digits for marketing purpose.)

Additional information (if necessary)
Information complémentaire (si nécessaire)

A sample of the product was tested and found
to be in conformity with
Un échantillon de ce produit a été essayé et a été
considéré conforme à la

IEC 60950-1/A1:2009

as shown in the Test Report Ref. No.
which forms part of this certificate
comme indiqué dans le Rapport d'essais numéro
de référence qui constitue une partie de ce
certificat

TÜV SÜD PSB Pte Ltd
081-120846-200

This CB Test Certificate is issued by the National Certification Body
Ce Certificat d'essai OC est établi par l'Organisme **National de Certification**

Date,

2012-12-27
CBS 12 12 27738 414

Bill Lin
(Bill Lin)



TÜV SÜD PSB Pte Ltd · 1 Science Park Drive · Singapore 118221

PSB Singapore



Test Report issued under the responsibility of:

NCB TÜV SÜD PSB Pte Ltd
1 Science Park Drive,
Singapore 118221



PSB Singapore

TEST REPORT

IEC 60950-1

Information technology equipment – Safety – Part 1: General requirements

Report Number.: 081-120846-200

Date of issue: 2012-12-26

Total number of pages: 16

CB Testing Laboratory.....: TÜV SÜD Asia Ltd. Taiwan Branch

Address: 7F., No.37, Sec. 2, Zhongyang S. Rd., Beitou District,
Taipei City, 11270, Taiwan

Applicant's name.....: Delta Electronics, Inc.

Address: 3, Tungyuan Road, Chungli Industrial Zone, 32063
Taoyuan County, TAIWAN

Manufacturer's name.....: See page 6 for details.

Address: See page 6 for details.

Test specification:

Standard: IEC 60950-1:2005 (Second Edition) + Am 1: 2009

Test procedure: CB Scheme

Non-standard test method.....: N/A

Test Report Form No.....: IEC60950_1C

Test Report Form(s) Originator: SGS Fimko Ltd

Master TRF: Dated 2012-08

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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.



PSB Singapore

Test item description	DLP Projector
Trade Mark	NEC
Manufacturer	See page 6 for details.
Model/Type reference	NP-NC900yyyy (where “y” can be any character and “yyyy” is used 1- 4 digits for marketing purpose.)
Ratings	200 – 240 Vac, 50/60 Hz, 5.1 A

Testing procedure and testing location:		
☒	CB Testing Laboratory:	TÜV SÜD Asia Ltd. Taiwan Branch
Testing location/ address		7F., No.37, Sec. 2, Zhongyang S. Rd., Beitou District, Taipei City, 11270, Taiwan
☐	Associated CB Laboratory:	N/A
Testing location/ address		N/A
Tested by (name + signature)		Mr. Owen Hsu 
Approved by (name + signature)		Mr. Watson Yang 
☐	Testing procedure: TMP	N/A
Testing location/ address		N/A
Tested by (name + signature)		
Approved by (name + signature)		
☐	Testing procedure: WMT	N/A
Testing location/ address		N/A
Tested by (name + signature)		
Witnessed by (name + signature)		
Approved by (name + signature)		
☐	Testing procedure: SMT	N/A
Testing location/ address		N/A
Tested by (name + signature)		
Approved by (name + signature)		
Supervised by (name + signature)		
☐	Testing procedure: RMT	N/A
Testing location/ address		N/A
Tested by (name + signature)		
Approved by (name + signature)		
Supervised by (name + signature)		

List of Attachments (including a total number of pages in each attachment):

Original Test Report No. 081-120846-000	98 pages	+	90 pages attachments
Additional Test Report No. 081-120846-100	12 pages	+	2 pages attachments
Attachment No. 1 Photo	1 page		

Summary of testing:
Tests performed (name of test and test clause):

All test results were found satisfactory in accordance with IEC 60950-1:2005 (2nd Edition) + A1:2009 and EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011

Testing location:

All tests as described in Test Case and Measurement Sections were performed at the laboratory described on page 3.

Summary of compliance with National Differences

List of countries addressed:

For IEC 60950-1:2005 (2nd Edition) Am 1: 2009 and EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011

According to CB Bulletin, the National Differences include Australia (AU), Canada (CA), China (CN), Germany (DE), Israel (IL), Korea (KR), Switzerland (CH) and United States of America (US). Group Differences (CENELEC COMMON MODIFICATIONS) as listed in the European Standard are recorded in this Report. (Attachment No. 1 of Report No.: 081-120846-000)

For IEC 60950-1:2001 (1st Edition) and EN 60950-1:2001+A11:2004

According to CB Bulletin, the National Differences include Japan (JP), Sweden (SE). (Attachment No. 2 of Report No.: 081-120846-000)

☒ The product fulfils the requirements of IEC 60950-1:2005 + A1:2009/ EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011.

Copy of marking plate

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

(Additional requirements for markings. See 1.7 NOTE)

See Attachment No. 4 of Test Report of 081-120846-000.

Test item particulars:	
Equipment mobility.....:	☐ movable ☐ hand-held ☐ transportable ☒ stationary ☐ for building-in ☐ direct plug-in
Connection to the mains.....:	☒ pluggable equipment ☒ type A ☐ type B ☐ permanent connection ☒ detachable power supply cord ☐ non-detachable power supply cord ☐ not directly connected to the mains
Operating condition.....:	☒ continuous ☐ rated operating / resting time:
Access location	☒ operator accessible ☐ restricted access location
Over voltage category (OVC)	☐ OVC I ☒ OVC II ☐ OVC III ☐ OVC IV ☐ other:
Mains supply tolerance (%) or absolute mains supply values	+10%, -10%
Tested for IT power systems	☒ Yes ☐ No
IT testing, phase-phase voltage (V)	230 V (For Norway)
Class of equipment	☒ Class I ☐ Class II ☐ Class III ☐ Not classified
Considered current rating of protective device as part of the building installation (A)	16A or 20A (For US)
Pollution degree (PD)	☐ PD 1 ☒ PD 2 ☐ PD 3
IP protection class	Ordinary
Altitude during operation (m)	Up to 5,000
Altitude of test laboratory (m)	below 2,000
Mass of equipment (kg)	Approx. <u>42.5</u>
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	
- test object does not meet the requirement	
Testing:	
Date of receipt of test item.....	2012-12-10
Date(s) of performance of tests.....	2012-12-11 to 2012-12-24

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 ☐ comma / ☒ point is used as the decimal separator.

Manufacturer's Declaration per sub-clause 6.2.5 of IEC60950-1:

The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided: ☐ Yes ☒ Not applicable

When differences exist; they shall be identified in the General product information section.

Name and address of factory (ies) :

Delta Video Display System (Wujiang) Limited (ID No.: 45855)
1688, JiangXing E.Rd., WuJiang Economic, 215200 Development Zone, WuJiang City,
JiangSu, PEOPLE'S REPUBLIC OF CHINA

Name and address of manufacturer (ies) :

NEC Display Solutions, Ltd (ID No.: 78902)
4-28, Mita 1-chome, Minato-ku, Tokyo, 108-0073 JAPAN

Report No. < 081-120846-200 >

The modification for this report is to:

1. Add a certified PCI-E card (option) which complied with the Limited Power Source (Clause 2.5); see Table 1.5.1 and attachment No. 1 for details.
2. Add an I/O board description in the General product information; see page 7 bold type for details.

For the above described modification the following Testing were considered to be necessary:

S/N	Clause/Testing	Remark/Comments	Verdict
1.	Table 1.5.1	List of critical components	P
2.	Table 1.6.2	Electrical data (in normal conditions)	P
3.	Table 2.5	limited power sources	P
4.	Table 4.5	Thermal requirements	P
5.	Table 5.3	Fault condition tests	P

General product information:

The equipment is a DLP Projector of information technology equipment.

In models NP-NC900yyyy, where y can be any character and yyyy is used 1- 4 digits for marketing purpose.

The Ballast is a CB certified component, see appended table 1.5.1 for details.

The outputs of data ports are in accordance with the Limited Power Source (Clause 2.5). See appended table 2.5 for details.

Special national condition (J3000 (H21)) is evaluated by client's request, see attachment No.3.

The manufacturer specified that the equipment could be operated up to an altitude of 5,000 m (16405 feet). The requirements according to IEC 60664-1 for clearances are considered as the altitude correction factors (1.48) specified in Table A.2.

The detachable power supply cord(s) is supplied with unit; it complies with the requirements of the destination country. The report does not verify the various cords for each of the destination countries.

The maximum ambient temperature specified by manufacturer is 40 °C.

All I/O boards and I/O ports are optional used.

Unless otherwise specified, all tests were performed on model NP-NC900yyyy to represent the other similar models.

Abbreviations used in the report:

- normal conditions	N.C.	- single fault conditions	S.F.C
- functional insulation	OP	- basic insulation	BI
- double insulation	DI	- supplementary insulation	SI
- between parts of opposite polarity	BOP	- reinforced insulation	RI

Indicate used abbreviations (if any)

1.5.1	TABLE: List of critical components					P
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity ¹⁾	
Alternate component:						
PCI-E card (optional)	DOREMI CINEMA L L C	IMS1000	--	UL 60950-1 2 nd , IEC 60950-1(2 nd) +AM1; EN 60950-1: 2006/A12:2011	UL, CB by DEMKO	
¹⁾ An asterisk indicates a mark which assures the agreed level of surveillance.						
Supplementary information:						

1.6.2	TABLE: Electrical data (in normal conditions)						P
U (Vac/Hz)	I (A)	Irated (A)	P (W)	Fuse #	Ifuse (A)	Condition/status	
Internal display pattern by HDD (PCI-E Card)							
90/50	11.53	--	1035	F103	11.53	Max. Normal Load	
90/60	11.52	--	1035	F103	11.52	Max. Normal Load	
100/50	10.22	10.3	1016	F103	10.22	Max. Normal Load	
100/60	10.22	10.3	1015	F103	10.22	Max. Normal Load	
130/50	7.61	10.3	982	F103	7.61	Max. Normal Load	
130/60	7.61	10.3	981	F103	7.61	Max. Normal Load	
143/50	6.84	--	974	F103	6.84	Max. Normal Load	
143/60	6.83	--	973	F103	6.83	Max. Normal Load	
180/50	5.38	--	962	F101	5.38	Max. Normal Load	
180/60	5.37	--	961	F101	5.37	Max. Normal Load	
200/50	4.82	5.1	959	F101	4.82	Max. Normal Load	
200/60	4.81	5.1	959	F101	4.81	Max. Normal Load	
240/50	4.01	5.1	944	F101	4.01	Max. Normal Load	
240/60	3.99	5.1	943	F101	3.99	Max. Normal Load	
264/50	3.69	--	942	F101	3.69	Max. Normal Load	
264/60	3.69	--	942	F101	3.69	Max. Normal Load	
Supplementary information:							
1) Max. normal load: Full brightness and contrast with 4 USB: 5 V/0.2 A (1 for CPU board; 3 for PCI-E Card)							
2) As per client's request, the unit is additional evaluated Input test at input voltage 90 ~ 143 Vac conditions.							

1.6.2	TABLE: Electrical data (in normal conditions)						P
U (Vac/Hz)	I (A)	Irated (A)	P (W)	Fuse #	Ifuse (A)	Condition/status	
With HDMI input (PCI-E Card)							
90/50	11.47	--	1033	F103	11.47	Max. Normal Load	
90/60	11.46	--	1032	F103	11.46	Max. Normal Load	
100/50	10.17	10.3	1013	F103	10.17	Max. Normal Load	
100/60	10.16	10.3	1012	F103	10.16	Max. Normal Load	
130/50	7.58	10.3	979	F103	7.58	Max. Normal Load	
130/60	7.56	10.3	979	F103	7.56	Max. Normal Load	
143/50	6.82	--	972	F103	6.82	Max. Normal Load	
143/60	6.81	--	971	F103	6.81	Max. Normal Load	
180/50	5.34	--	957	F101	5.34	Max. Normal Load	
180/60	5.35	--	957	F101	5.35	Max. Normal Load	
200/50	4.79	5.1	956	F101	4.79	Max. Normal Load	
200/60	4.78	5.1	956	F101	4.78	Max. Normal Load	
240/50	3.99	5.1	941	F101	3.99	Max. Normal Load	
240/60	3.98	5.1	940	F101	3.98	Max. Normal Load	
264/50	3.67	--	939	F101	3.67	Max. Normal Load	
264/60	3.66	--	938	F101	3.66	Max. Normal Load	
Supplementary information:							
1) Max. normal load: Full brightness and contrast with 4 USB: 5 V/0.2 A (1 for CPU board; 3 for PCI-E Card)							
2) As per client's request, the unit is additional evaluated Input test at input voltage 90 ~ 143 Vac conditions.							

1.6.2	TABLE: Electrical data (in normal conditions)						P
U (Vac/Hz)	I (A)	Irated (A)	P (W)	Fuse #	Ifuse (A)	Condition/status	
With SDI-A input (PCI-E Card)							
90/50	11.46	--	1032	F103	11.46	Max. Normal Load	
90/60	11.45	--	1031	F103	11.45	Max. Normal Load	
100/50	10.16	10.3	1012	F103	10.16	Max. Normal Load	
100/60	10.15	10.3	1011	F103	10.15	Max. Normal Load	
130/50	7.58	10.3	977	F103	7.58	Max. Normal Load	
130/60	7.57	10.3	977	F103	7.57	Max. Normal Load	
143/50	6.80	--	970	F103	6.80	Max. Normal Load	
143/60	6.80	--	970	F103	6.80	Max. Normal Load	
180/50	5.34	--	956	F101	5.34	Max. Normal Load	
180/60	5.34	--	955	F101	5.34	Max. Normal Load	
200/50	4.78	5.1	955	F101	4.78	Max. Normal Load	
200/60	4.77	5.1	954	F101	4.77	Max. Normal Load	
240/50	3.98	5.1	940	F101	3.98	Max. Normal Load	
240/60	3.97	5.1	940	F101	3.97	Max. Normal Load	
264/50	3.66	--	938	F101	3.66	Max. Normal Load	
264/60	3.64	--	937	F101	3.64	Max. Normal Load	
Supplementary information:							
1) Max. normal load: Full brightness and contrast with 4 USB: 5 V/0.2 A (1 for CPU board; 3 for PCI-E Card)							
2) As per client's request, the unit is additional evaluated Input test at input voltage 90 ~ 143 Vac conditions.							

1.6.2	TABLE: Electrical data (in normal conditions)						P
U (Vac/Hz)	I (A)	Irated (A)	P (W)	Fuse #	Ifuse (A)	Condition/status	
With SDI-B input (PCI-E Card)							
90/50	11.46	--	1031	F103	11.46	Max. Normal Load	
90/60	11.46	--	1031	F103	11.46	Max. Normal Load	
100/50	10.15	10.3	1012	F103	10.15	Max. Normal Load	
100/60	10.14	10.3	1011	F103	10.14	Max. Normal Load	
130/50	7.58	10.3	977	F103	7.58	Max. Normal Load	
130/60	7.57	10.3	976	F103	7.57	Max. Normal Load	
143/50	6.80	--	970	F103	6.80	Max. Normal Load	
143/60	6.79	--	970	F103	6.79	Max. Normal Load	
180/50	5.34	--	956	F101	5.34	Max. Normal Load	
180/60	5.34	--	955	F101	5.34	Max. Normal Load	
200/50	4.77	5.1	955	F101	4.77	Max. Normal Load	
200/60	4.77	5.1	954	F101	4.77	Max. Normal Load	
240/50	3.97	5.1	940	F101	3.97	Max. Normal Load	
240/60	3.97	5.1	940	F101	3.97	Max. Normal Load	
264/50	3.66	--	937	F101	3.66	Max. Normal Load	
264/60	3.64	--	937	F101	3.64	Max. Normal Load	
Supplementary information:							
1) Max. normal load: Full brightness and contrast with 4 USB: 5 V/0.2 A (1 for CPU board; 3 for PCI-E Card)							
2) As per client's request, the unit is additional evaluated Input test at input voltage 90 ~ 143 Vac conditions.							

2.5	TABLE: limited power sources (continues)					P
Circuit output tested: see below.						
Note: Measured Uoc (V) with all load circuits disconnected: see below.						
Components	Sample No.	Uoc (V)	I _{sc} (A)		VA	
			Meas.	Limit	Meas.	Limit
Ethernet (0,1), pin 1-8	1	0*	--	≤8.0	--	≤100
eSATA, pin 1-7	1	3.3	--	≤8.0	--	≤100
USB (1, 2, 3), pin 1	1	5.05	1.51	≤8.0	6.36	≤100
USB (1, 2, 3), pin 2, 3, 4	1	0*	--	≤8.0	--	≤100
HDMI, pin 1, 3, 4, 6, 7, 9, 10, 12	1	3.3	0.035	≤8.0	0.08	≤100
HDMI, pin 15, 16	1	4.8	0.005	≤8.0	0.01	≤100
HDMI, pin 2, 5, 8, 11, 13, 14, 17, 18, 19	1	0*	--	≤8.0	--	≤100
SDI-(A, B), pin 1, 2	1	0*	--	≤8.0	--	≤100
GPI, pin 1-8	1	0*	--	≤8.0	--	≤100
GPO, pin 7	1	5.05	0.55	≤8.0	2.1	≤100
GPO, pin 1, 2, 3, 4, 5, 6, 8	1	0*	--	≤8.0	--	≤100
AES out, pin 1-8, 9-16	1	0*	--	≤8.0	--	≤100
supplementary information:						
1) * - Signal transmission.						

4.5	TABLE: Thermal requirements							P
	Supply voltage (V) :				90 Vac			—
	Ambient T _{min} (°C) :				--			—
	Ambient T _{max} (°C) :				--			—
Maximum measured temperature T of part/at::				T (°C)			Allowed T _{max} (°C)	
PCI-E Card								
PCB adjacent to large heatsink				53.2			105	
HDD-2 body				44.0			--	
U115				42.8			105	
L10 (Inductor with 150 marked on it which is located on PWB which connects to hard drives.)				42.9			105	
U70				41.6			105	
C311				50.1			105	
L1				41.8			105	
Ambient				40.0			--	
Temperature T of winding:		t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulation class
--		--	--	--	--	--	--	--
--		--	--	--	--	--	--	--
--		--	--	--	--	--	--	--
Supplementary information:								
The temperatures were measured by thermal couple (type K) method under worst case normal mode as described in 1.6.2 at voltage described in 1.4.5. The worst case normal mode is defined with max. load of the equipment.								
With max. ambient temperature specified as 40 °C, therefore, the maximum temperature rise is calculated as follows:								
Components with:								
- Max. temp. of 105 °C (PCB, choke, Bulk capacitor)								
- When no class of insulation is given, min. insulation 105 °C assumed.								

5.3	TABLE: Fault condition tests					P
	Ambient temperature (°C)				25 °C or see below.	—
	Power source for EUT: Manufacturer, model/type, output rating				See table 1.5.1 for details.	—
Component No.	Fault	Supply voltage (Vac)	Test time	Fuse #	Fuse current (A)	Observation
OVERLOAD OF OPERATOR ACCESSIBLE CONNECTOR TEST (PCI-E Card)						
Ethernet (0, 1), pin 1-8	o-l	240	1 s	--	--	Open circuit voltage=0 Vdc, Maximum available current =0 mA, No hazards, no damage.
eSATA, pin 1-7	o-l	240	1 s	--	--	Open circuit voltage=0 Vdc, Maximum available current =0 mA, No hazards, no damage.
USB (1, 2, 3), pin 1	o-l	240	1 h	--	--	Open circuit voltage=5.05 Vdc, Maximum available current =1510 mA, No hazards, no damage.
USB (1, 2, 3), pin 2, 3, 4	o-l	240	1 s	--	--	Open circuit voltage=0 Vdc, Maximum available current =0 mA, No hazards, no damage.
HDMI, pin 1, 3, 4, 6, 7, 9, 10, 12	o-l	240	1 h	--	--	Open circuit voltage=3.3 Vdc, Maximum available current =35 mA, No hazards, no damage.
HDMI, 15, 16	o-l	240	1 h	--	--	Open circuit voltage=4.8 Vdc, Maximum available current =5 mA, No hazards, no damage.
HDMI, 2, 5, 8, 11, 13, 14, 17, 18, 19	o-l	240	1 s	--	--	Open circuit voltage=0 Vdc, Maximum available current =0 mA, No hazards, no damage.
SDI-(A, B), pin 1, 2	o-l	240	1 s	--	--	Open circuit voltage=0 Vdc, Maximum available current =0 mA, No hazards, no damage.
GPI, pin 1-8	o-l	240	1 s	--	--	Open circuit voltage=0 Vdc, Maximum available current =0 mA, No hazards, no damage.
GPO, pin 7	o-l	240	1 h	--	--	Open circuit voltage=5.05 Vdc, Maximum available current =550 mA, No hazards, no damage.

Component No.	Fault	Supply voltage (Vac)	Test time	Fuse #	Fuse current (A)	Observation
GPO, pin 1, 2, 3, 4, 5, 6, 8	o-l	240	1 s	--	--	Open circuit voltage=4.8 Vdc, Maximum available current =5 mA, No hazards, no damage.
AES out, pin 1-8, 9-16	o-l	240	1 s	--	--	Open circuit voltage=0 Vdc, Maximum available current =0 mA, No hazards, no damage.
Supplementary information						
Fault: SC = short circuit, OC = open circuit, o-l = overload						
Note:						

Attachment No. 1

Page 1 of 1



PSB Singapore

Type Designation: NP-NC900yyyy

Report Number: 081-120846-200

PCI-E Card (optional)

