



DECLARATION OF CONFORMITY

This is to certify that the following product

Digital Dimmer Pack
Model NO.: Strand Lighting WallRack

is in compliance with the following standards or specifications according to EMC Directive 2004/108/EC.

EN55014-1, EN55014-2, EN61000-3-4, EN61000-3-5

is in compliance with the following standards or specifications according to Low Voltage Directive 2006/95/EC.

EN60950, EN60439, IEC60529

This declaration is provided by the Manufacturer/Importer

NCW (Holdings) Limited
(Name)
Unit C, 19/F, Roxy Industrial Centre, No. 41-49 Kwai Cheong
Road, Kwai Chung, N.T., Hong Kong
(Address)

This declaration is based on the tests which were conducted on the submitted sample(s) of the above mentioned product. Detailed result can be referred to test report No. CET. SL201056 & LVT. SL201056.

Manufacturer:

Date:

May 22, 2010

Signature:



Name:

NCW (Holdings) Limited

Test by:

Date:

May 22, 2010

Signature:



Name:

NCW (Holdings) Limited

NCW (Holdings) Limited

Unit C, 19/F, Roxy Industrial Centre, No. 41-49 Kwai Cheong Road, Kwai Chung, N.T., Hong Kong

Tel: (852) 2796-9786

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E-mail: info@botex.com

NCW (HOLDINGS) LIMITED

Testing Center.

EMC CERTIFICATE

Report No: CET.SL201056

Client: **Philips Entertainment**
Marssteden 152
7547 TD Enschede
The Netherlands

Description of Sample : Two(2) samples stated to be **Digital Dimmer Pack** of Model No. **Strand Lighting WallRack**

Date Received : Apr 23, 2010

Test Period : Apr 23, 2010 to May 22, 2010

Test Requested : Electromagnetic Compatibility (**EMC**) test.

Test Method : According to EN55014-1/EN55014-2 and EN61000-3-4/EN61000-3-5

Test Result : See attached sheets

Conclusion : The submitted samples were found to comply with the applicable EMC tests.



Authorized Signature _____

Date May 22, 2010

TEST REPORT

ADDRESS OF THE TEST LABORATORY

■ **NCW Carex Lighting Equipment Factory.**

Chang Tang Rd, Chang Tang 1nd Estate Yan Tian District, Fung Kong, Dong Guan, China

ENVIRONMENTAL CONDITIONS

During the measurement the environmental conditions were within the listed ranges:

Temperature : 15°C-35°C
Humidity : 30%RH-65%RH
Atmospheric Pressure : 86KPa-106KPa

POWER SUPPLY SYSTEM UTILIZED

Power supply system: ■ AC230V ~50/60Hz

TEST REPORT

Conducted Emission Test

Conducted emissions were measured from 150KHz to 30MHz with a bandwidth of 9KHz on the 230VAC power and return leads of the EUT according to the methods defined in EN55014-1.

The EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference plane and placed 0.4m from a vertical ground plane which is connected to the horizontal metal ground plane.

Test not applicable

- Test area -shielded room
- Anechoic chamber
- Full compact chamber

Used test instruments please see Attachment A.

Frequency Range (MHz)	Quasi-Peak limit (dB μ v)	Average limit (dB μ v)
0.15 to 0.5	66 to 56	56 to 46
0.5 to 5	56	46
5 to 30	60	50

Pass

Fail

TEST REPORT

Conducted Emissions Measurement

EUT	Strand Lighting WallRack
Limit apply to	EN 55014-1
Test Date	May 22, 2010
Power Supply Type	AC230 ~50/60Hz
Result	PASSED

Conducted Emission Test Data

The following table shows the highest levels of conducted emissions on polarization of hot line. Detector mode:CISPR Quasi-Peak mode (6dB Bandwidth:9KHz)

Notes:

1. All conditions were investigated and the worst-case emissions are reported.
2. If the reading quasi-peak value is below the average limit,do not test average mode.

Manut:

Test spec: EN55014-1

Type/Model: Strand Lighting WallRack

May 22, 2010 08:31

PAGE 1

Scan Settings (2 Ranges)

|----- Frequencies -----||----- Receiver Settings -----|

Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150k	30M	5k	10k	PK+AV	10ms	AUTO	LN OFF	60dB

Final Measurement: x QP / + AV

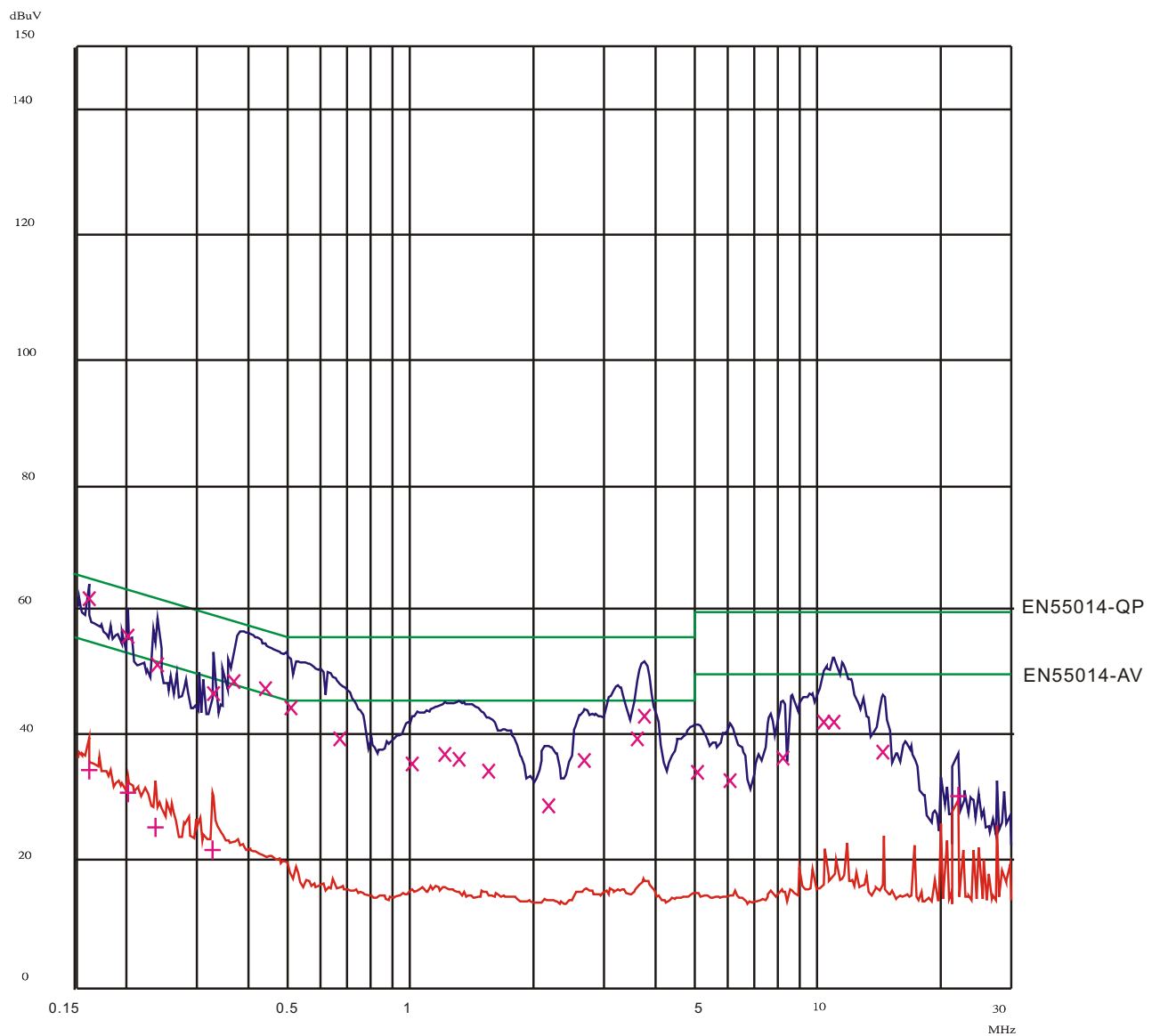
Meas Time: 1s

Subranges: 25

Acc Margin: 20dB

Transducer No. Start Stop Name

1	150k	30M	LISN_ATT
11	150k	30M	EMC_FAC1



Scan Settings (2 Ranges)

|----- Frequencies -----||----- Receiver Settings -----|

Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150k	30M	5k	10k	PK+AV	10ms	AUTO	LN OFF	60dB

Final Measurement Results:

Frequency	QP Level	QP Limit
MHz	dBuV	dBuV
0.16000	62.5	65.5
0.19980	56.1	63.6
0.23620	51.6	62.2
0.32420	47.0	59.6
0.36500	49.0	58.6
0.43620	47.7	57.2
0.50500	44.8	56.0
0.66500	39.8	56.0
1.00500	35.8	56.0
1.20500	37.2	56.0
1.30500	36.5	56.0
1.55000	34.6	56.0
2.17500	29.1	56.0
2.66000	36.4	56.0
3.60000	39.7	56.0
3.74500	43.3	56.0
5.05500	34.5	56.0
6.10500	33.2	60.0
8.21500	36.8	60.0
10.39000	42.4	60.0
10.98500	42.4	60.0
14.53000	37.7	60.0
Frequency	AV Level	AV Limit
MHz	dBuV	dBuV
0.16000	34.8	55.5
0.19980	31.2	53.6
0.23300	25.8	52.3
0.32300	22.1	49.7
22.26000	30.7	50.0

* limit exceeded

TEST REPORT

Radiated Emission Test

Radiated emissions from 30MHz to 300MHz were measured with a bandwidth of 120KHz according to the methods defined in EN55014-1. The EUT was placed on a non-metallic stand in a shielded room, 0.8m above the ground plane. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions.

Test not applicable

- Test area - Shielded room.

Testing was performed at a test distance of:

- 3m

Used test instruments and test accessories please see Attachment A.

Frequency Range (Mhz)	Quasi-Peak limit (dB μ v)
30 to 230	40
230 to 300	47

■ Pass

Fail

TEST REPORT

Radiated Emissions Measurement

EUT	Strand Lighting WallRack
Limit apply to	EN 55014-1
Test Date	May 22, 2010
Power Supply Type	AC230 ~50/60Hz
Result	PASSED

Radiated Emission Test Data

The following table shows the highest levels of Radiated emissions on both polarizations of Horizontal and Vertical. Detector mode:CISPR Quasi-Peak mode (6 dB Bandwidth:9KHz)

NOTES:

1. *H:Horizontal polarization ,**V:Vertical polariztion
2. Margin value=Limit -Result
3. The measurement was performed for the frequency range 30MHz~300MHz according to the EN 55014-1.

Radiated Emission Test

EUT Name: WallRack

Manufacturer:

Testing Spec: V

Tested By: YanJun Huang

Comment:

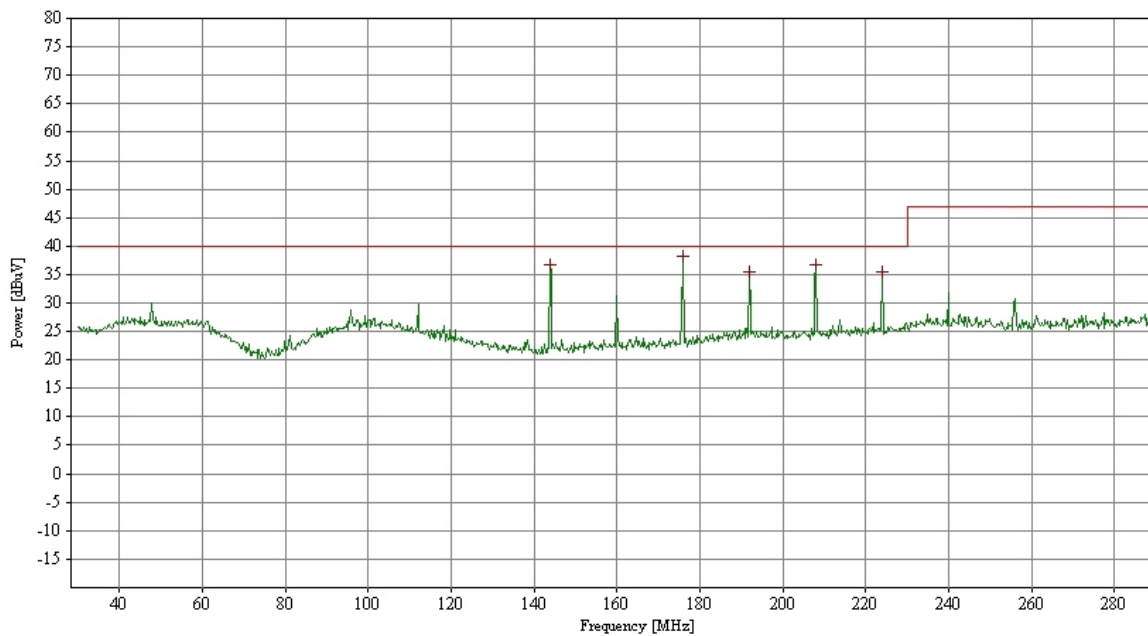
Setting: ON 100%

START: 30MHz STOP: 300MHz

Ref.Level: 80dBuV Attenuator: 0dB

RBW: 120 KHz VBW: Auto Pre amp: Auto

Chart:



Frequency(MHz)	Peak(dBuV)	Quasipeak(dBuV)	Bandwidth(KHz)	Polarity	Limit(dBuv)
143.83	36.78	---	120.00	V	40
175.92	38.18	---	120.00	V	40
191.84	35.49	---	120.00	V	40
208.02	36.62	---	120.00	V	40
223.94	35.36	---	120.00	V	40

Radiated Emission Test

EUT Name: WallRack

Manufacturer:

Testing Spec: H

Tested By: YanJun Huang

Comment:

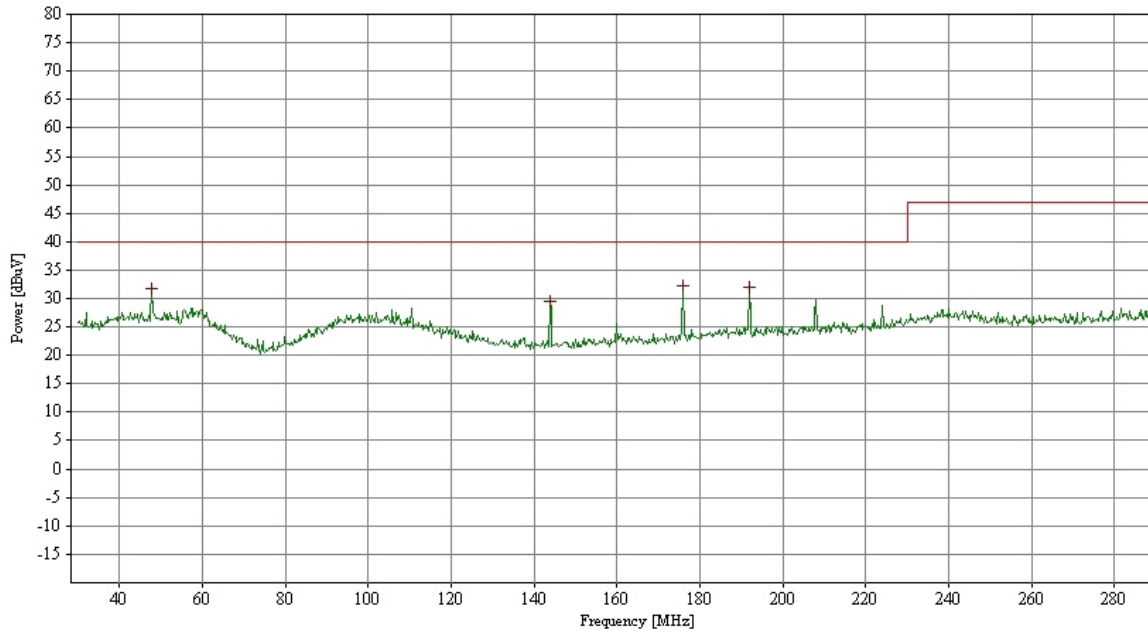
Setting: ON 100%

START: 30MHz STOP: 300MHz

Ref.Level: 80dBuV Attenuator: 0dB

RBW: 120 KHz VBW: Auto Pre amp: Auto

Chart:



Frequency(MHz)	Peak(dBuV)	Quasipeak(dBuV)	Bandwidth(KHz)	Polarity	Limit(dBuV)
47.8	31.7	---	120.00	H	40
143.83	29.52	---	120.00	H	40
175.92	32.17	---	120.00	H	40
191.84	31.9	---	120.00	H	40

NCW (HOLDINGS) LIMITED

Testing Center.

TEST REPORT

Appendix A

EMISSION TEST EQUIPMENT

	Description	Model Number	Manufacturer	Serial Number	Cal Due Date
■	EMI TEST Receiver	ESCI	R & S	101028	10.03.24
■	EMI TEST Receiver	ESHS30	R & S	847115/003	10.03.24
■	Bilog Antenna	VULB9163	Schwarzbeck	9163-414	10.03.24
■	Antenna Master	MF-7802	Max-Full	MF780208160	10.03.24
■	Turn-Table	M F	Max-Full	-----	N/A

SAFETY CERTIFICATE

Report No: LVT.SL201056

Client: Philips Entertainment
Marssteden 152
7547 TD Enschede
The Netherlands

Description of Sample : Two(2) samples stated to be Digital Dimmer Pack
of Model No. Strand Lighting WallRack

Date Received : Apr 23, 2010

Test Period : Apr 23, 2010 to May 22, 2010

Test Requested : Safety Requirements (LVD) 2006/95/EC

Test Method : According to EN 60950,EN60439 and IEC60529

Test Result : See the attached sheets

Conclusion : The submitted samples were found to comply with the
applicable LVD test..



Authorized Signature _____

Date May 22, 2010

TEST REPORT

Report No: LVT.SL201056

Client : **Philips Entertainment**
Marssteden 152
7547 TD Enschede
The Netherlands

The Following Information Was Moulded On The Sample:

Model No : Strand Lighting WallRack(24 x 2.5KW)
Power input : AC230 ~50/60Hz
Channel Output : Max rating 80A-3 phase,160A-single phase

TEST REPORT

Report No: LVT.SL201056

Client : Philips Entertainment
Marssteden 152
7547 TD Enschede
The Netherlands

TEST RESULTS:

CLAUSE	TITLE/DESCRIPTION	RESULT
1	Definitions	--
2	General Requirements	--
3	General Notes On Tests	--
4	Rating	Complied
5	Classification	--
6	Information	--
7	Protection Against Electric shock	Complied
8	Provision For Protective Earthing	Complied
9	Terminals and Termination	Complied
10	Constructional Requirements	Complied
11	Moisture and Dust Resistance	Complied
12	Electric Strength and Insulation Resistance	Complied
13	Heating	Complied
14	Manufacturing Deviation and Drift	--
15	Environmental Stress	--

TEST REPORT

Report No: LVT.SL201056

Client : **Philips Entertainment**
Marssteden 152
7547 TD Enschede
The Netherlands

TEST RESULTS:

CLAUSE	TITLE/DESCRIPTION	RESULT
16	Endurance	--
17	Mechanical Strength	Complied
18	Threaded Parts and Connections	Complied
19	Creepage Distances, Clearances and Distances	--
	Through Insulation	Complied
20	Resistance To Heat , Fire and Tracking	Complied
21	Resistance To Corrosion	
22	Components	Complied
23	Normal Operation	Complied
24	Abnormal Operation	Complied
25	Guidance on The Use of Electronic Disconnection	Complied
