

FCC Test Report E4064136701KY

Type / Model Name: LS-318

Brand Name: SKYLINK

Product Description: LIGHTING REMOTE CONTROL

Applicant: Capital Prospect Limited

FCC ID: KUTLS318





FCC -- TEST REPORT

Test Report No. :	E4	064136701KY	Oct 20,2010 Date of issue			
Type / Model Name: Brand Name :	LS-318 SKYLIN	lK				
Product Description:	LIGHTING REMOTE CONTROL					
Applicant:	Capital Prospect LTD.					
Address:	Room 03, 13/F., Block B,					
	Veristrong Ind. Centre, 34-36 Au Pui Wan Street,					
	Fo Tan,	ın, N.T.,				
	Hong Kong					
Test Result according to t standards listed in clause 1 to standards:			PASS			

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test results without the written permission of the test laboratory.



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1 TEST STANDARDS

The tests were performed according to following standards:

FCC Part 15 Subpart B:2008-10-01 Radio frequency devices-Unintentional Radiators

ANSI C63.4:2003 Method of Measurement of Radio-Noise Emissions from Low-

Voltage Electrical and Electronic Equipment in the Range of

9 kHz to 40 GHz



2 SUMMARY

GENERAL REMARKS:					
N/A					
FINAL ASSESSMENT:					
The equipment under test fulfils th	ne FC	C requirements cited i	n test stan	ndard lis	sted in section 1.
Date of receipt of test sample	:	Jan 07, 2010			
Testing commenced on	:	Jun 10, 2010			
Testing concluded on	:	Oct 20, 2010			
Reviewed by:			ſ	Prepare	ed by:
Ivan Toa			-		Kidd Yang
Technical Manager					Engineer



3 EQUIPMENT UNDER TEST

3.1 Photo documentation of the EuT



Front View

Back View

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3.2 Power supply system utilised

Power supply voltage: AC 120V/60Hz

3.3 Short description of the Equipment under Test (EuT)

The EuT is a receiver powered by AC 120V. The receivers are designed as a PCBA product used with other devices to receive the signal from the transmitter. When the device receives the signal from the transmitter, It will responds to activate electronic switch.

Number of tested samples: One

Serial number: Not Labelled

Dimensions: L: 8.0cm W: 8.0cm H: 19.0cm

EuT operation mode:

The equipment under test was operated during the measurement under the following condi	The $^{\prime}$	equipment under	r test was oper:	ated during the	measurement u	inder the	followina	condition
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- Operation mode 1: Maximum load + receiving mode		
Operation mode 1: Maximum load 1 receiving mode		
-		
-		

EuT configuration:

The following interface cables and peripheral devices were connected during the measurements:

Interface cables:

Interface cable	Length	Туре	Line		Line termination
	[m]		shielded	unshielded	
DC Power cable	0.3	2 wire			To Lamp
DC Power cable	0.6	2 wire			To Lamp
AC power cable	1.0	2 wire			To LISN

Peripheral devices:

Kind of equipment	Model and/or Manufacturer
2*100W Lamp(120V/60Hz)	GE



4 TEST ENVIRONMENT

4.1 Address of the test laboratory

emitel (Shenzhen) Limited Building 2, 171 Meihua Road, Futian District, Shenzhen, 518049 China

FCC Registration No.: 746887

4.2 Environmental conditions

During the measurement the env	rironmental conditions were within the listed range	36
Temperature:	15-35 ° C	
Humidity:	30-60 %	
Atmospheric pressure:	86-106 kPa	

4.3 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16-4-2 /11.2003 "Uncertainties, statistics and limit modelling – Uncertainty in EMC measurements" and is documented in the quality system acc. to ISO 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.



5 TEST CONDITIONS AND RESULTS

5.1 Radiated disturbance (electric field)

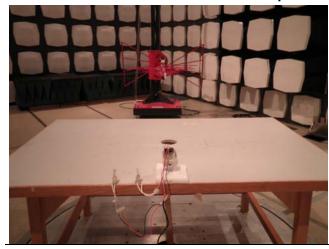
For test instruments and accessories used see section 6 Part I1.

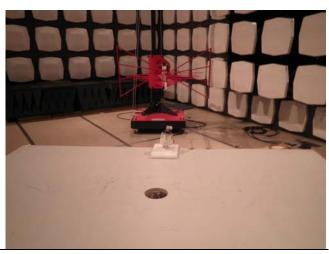
5.1.1 Description of the test location

Test location: Semi-Anechoic Chamber

Test distance: 3m

5.1.2 Photo documentation of the test set-up





5.1.3 Test result

The test was carried out in the following operation mode(s):

Maximum load + receiving mode

Frequency range: 30MHz to 2000MHz

Min. limit margin -19.6dB at 954.0MHz.

The requirements are FULFILLED

Remarks:

- 1) According to FCC part 15.33(b), since the EuT is used 318MHz frequency in the device, the upper frequency of measurement is up to 2000MHz.
- 2) During photo mode test, EUT is rotated through three orthogonal axes to determine the maximum emission.
- 3) The receiving antenna can be measured within the frequency range 26MHz to 3000MHz.
- 4) An unmodulated CW signal at the operating frequency of the EuT is supplied to the EuT for all measurements.

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Result: PASS

5.1.4 Test protocol

Product Description : LIGHTING REMOTE CONTROL

Model : LS-318

Test mode Maximum load + receiving mode

Date : 10-06-2010

Start frequency [MHZ]	Stop frequency [MHZ]	Resolution bandwidth	step size	Measurement time	Detector
30	1000	120 kHz	40 kHz	1s	QP
1000	2000	1 MHz	400 kHz	1s	AV

Polarization	Frequency (MHz)	Read Value (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Measured Result (dBuV/m)	QP limit (dBuV/m)	margin (dB)
V	318	6.9	14.8	1.1	22.8	46.0	-23.2
Н	318	8.8	14.3	1.1	24.2	46.0	-21.8
V	636	2.9	20.5	1.9	25.3	46.0	-20.7
Н	954	1.1	23.1	2.2	26.4	46.0	-19.6

Remark: Emission is measured from 30MHz to 1000MHz.

Polarization	Frequency (MHz)	Read Value (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Measured Result (dBuV/m)	AV limit (dBuV/m)	margin (dB)
V	1272	-4.0	26.3	2.9	25.2	53.9	-28.7
V	1590	-8.3	30.1	3.9	25.7	53.9	-28.2

Remark: Emission is measured from 1000MHz to 2000MHz.



5.2 Conducted disturbance

For test instruments and accessories used see section 6 Part 12.

5.2.2 Description of the test location

Test location: Shield Room

5.2.3 Photo documentation of the test set-up





5.2.4 Test result

Frequency range: 0.15MHz – 30.00MHz

The test was carried out in the following operation mode(s):

Maximum load + receiving mode

Min. limit margin -14.4dB at 0.158MHz.

The requirements are FULFILLED

Remarks: 1)Other emission with more than 10dB margin below the limit is not measured.

2) An unmodulated CW signal at the operating frequency of the EuT is supplied to the EuT for all measurements.



Result: PASS

5.2.5 Test protocol

Product Description : LIGHTING REMOTE CONTROL

Model : LS-318

Test mode Maximum load + receiving mode

Date : Oct 08, 2010

LINE	Frequency	Measured QP Value	Limit	Margin
	[MHz]	[dBµV]	[dBµV/m]	[dB]
Line1	0.150	48.5	66.0	-17.5
Line1	0.174	48.5	64.8	-16.2
Line1	0.186	46.8	64.2	-17.4
Line1	0.202	44.6	63.5	-18.9
Line1	0.218	42.6	62.9	-20.3
Line1	0.238	40.2	62.2	-22.0
Line1	0.262	37.6	61.4	-23.8
Neutral	0.158	51.1	65.6	-14.4
Neutral	0.166	49.8	65.1	-15.3
Neutral	0.170	49.2	65.0	-15.7
Neutral	0.202	44.8	63.5	-18.7
Neutral	0.218	42.7	62.9	-20.2
Neutral	0.226	41.8	62.6	-20.8
Neutral	0.238	40.3	62.2	-21.8
Neutral	0.254	38.5	61.6	-23.2

LINE	Frequency	Measured AV Value	Limit	Margin
	[MHz]	[dBµV]	[dBµV/m]	[dB]
Line1	0.150	26.9	56.0	-29.1
Line1	0.174	24.4	54.8	-30.4
Neutral	0.166	25.3	55.2	-29.9



6 <u>USED TEST EQUIPMENT AND ACCESSORIES</u>

All test instruments used, in addition to the test accessories, are calibrated and verified regularly.

Test ID I1	Kind of Equipment Test Receiver BicoNILog Antenna Signal Generator	Model / Type ESPI3 3142C SML03	Manufacturer Rohe & Schwarz EMCO Rohde & Schwarz	Next cal. Date Mar. 25,2011 Jan. 08,2011 Mar. 25,2011	Equipment No. 04-02/03-06-002 04-02/24-06-001 04-02/05-06-002
12	Test Receiver	ESPI3	Rohde & Schwarz	Mar. 25,2011	04-02/03-06-002
	LISN	ESH2-Z5	Rohde & Schwarz	Mar. 25,2011	04-02/20-06-001
	Signal Generator	SML03	Rohde & Schwarz	Mar. 25,2011	04-02/05-06-002