

廠商會檢定中心

### TEST REPORT

Report No.	:	AU0004309 (5)	Date :	18 Jan 2016
Application No.	:	LT037763(4)		
Applicant	:	Capital Prospect Ltd RM03 13/F., Block B, Veristrong Ind. Blo 34-36 Au Pui Wan Street, Fo Tan, N.T., H	lg., Iong Kong	
Sample Description	:	One(1) item of submitted sample stated toSample DescriptionModel No.Lighting Remote ControlPR-318Radio Frequency: 318MHz TranRating: AC 120 VNo. of submitted sample: Two (2) pieceSample registration No.: RT057161-00	be: hsceiver e (s)	
Date Received	:	14 Dec 2015.		
Test Period	:	14 Dec 2015 to 27 Dec 2015.		
Test Requested	:	FCC 47CFR Part 15 Certification – Class	II Permissive C	Change.
Test Method	:	47 CFR Part 15 (10-1-15 Edition) ANSI C63.10 – 2013		
Test Result	:	See attached sheet(s) from page 2 to 25.		
Conclusion	:	The submitted sample was found to comp 15 Subpart C.	ly with requirer	nent of FCC 47CFR Part

For and on behalf of CMA Industrial Development Foundation Limited Page 1 of 25 Authorized Signature : Mr. WONG Lap-pong Andrew Manager **Electrical Division** FCC ID: KUTPR318

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### **TEST REPORT**

Report No. : AU0004309 (5)

Date :

18 Jan 2016

#### **Table of Contents**

1	Ger	neral Information	3
	1.1	General Description	3
	1.2	Location of the test site	4
	1.3	List of measuring equipment	5
	1.4	Measurement Uncertainty	5
	1.5	Test Summary	6
2	Des	scription of the radiated emission test	7
	2.1	Test Procedure	7
	2.2	Test Setup	8
	2.3	Test Result	. 10
	2.4	Radiated Emission Measurement Data	. 11
3	Des	scription of the Line-conducted Test	. 13
	3.1	Test Procedure	. 13
	3.2	Test Result	. 13
	3.3	Test Setup	. 13
	3.4	Graph and Table of Conducted Emission Measurement Data	. 13
4	Sup	plementary document	. 14
	4.1	Bandwidth	. 14
	4.2	Duty cycle	. 14
	4.3	Transmission time	. 15
5	Ap	pendices	16

FCC ID: KUTPR318

Page 2 of 25

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### **TEST REPORT**

Report No. : AU0004309 (5)

Date : 18 Jan 2016

- 1 General Information
- 1.1 General Description

The equipment under test (EUT) is a 318MHz transceiver. The oscillation of radio control is generated by 9.9375MHz crystal for transmitter and 9.893MHz for part of receiver. The EUT acts as a remote control to receive the signal from the transmitters and repeat the signal to other receiver unit and it can communicate with up to 16 transmitters so users has the option to add more transmitters to the system. It allows users to wirelessly turn on /off, dim, and brighten the light fixtures. The EUT is powered by 120Vac.

The antenna terminal is permanently attached in EUT and the radio output power is unable to adjust.

The brief circuit description is listed as follows:

For main board:	
-U5, Y1	and its associated circuit act as MCU and oscillator
-U4	and its associated circuit act as EEPROM
-U1, T1, Q4, J3, J4	and its associated circuit act as load control
-U3, U6	and its associated circuit act as voltage regulator
-Q1, Q6-Q7, D1, D4	and its associated circuit act as step down voltage convertor
-Q2, D3, D6-D7	and its associated circuit act as zero detector
-D10	and its associated circuit act as rectifier
-Q3	and its associated circuit act as RF power control
-U2, Y2, ANT2	and its associated circuit act as TX modular
For receiver board:	
-U1, Y1	and its associated circuit act as RX modular

#### FCC ID: KUTPR318

Page 3 of 25

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CMA Industrial Development Foundation Limited



### **TEST REPORT**

Report No. : AU0004309 (5)

Date : 18 Jan 2016

1.2 Location of the test site

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2009. A Semi-Anechoic Chamber Testing Site is set up for investigation and located at:

Ground Floor, Yan Hing Centre, 9 – 13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong.

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.4 - 2009. A shielded room is located at :

Ground Floor, Yan Hing Centre, 9 – 13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong.

FCC Registration Number: 552221

FCC ID: KUTPR318

Page 4 of 25

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廠商會檢定中心

### **TEST REPORT**

Report No. : AU0004309 (5)

Date :

18 Jan 2016

1.3 List of measuring equipment

Equipment	Manufacturer	Model No.	Serial No.	Calibration Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100152	28 Sep 2016
Spectrum Analyze	Rohde & Schwarz	FSV 40	100964	03 Feb 2016
Broadband Antenna	Schaffner	CBL6112B	2718	20 Feb 2016
Horn Antenna	Schwarzbeck	Schwarzbeck BBHA 9120D 91		25 Nov 2016
Broadband Pre-Amplifier	Schwarzbeck	BBV 9718	9718-119	25 Nov 2016
Loop Antenna	EMCO	6502	00056620	28 Dec 2015
Artificial Main Network	Rohde & Schwarz	ENV216	101232	22 Oct 2016
Coaxial Cable	Schaffner	RG213/U	N/A	18 May 2016
Coaxial Cable Suhner		RG214/U	N/A	18 May 2016
Coaxial Cable HUBER+SUHNER		84225426	MY24201/4	24 Nov 2016

Supporting equipment

300W light bulbs (supplied by CMA)

1.4 Measurement Uncertainty

The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%.

#### Radiated emissions

Frequency	Uncertainty (U <sub>lab</sub> )
30MHz ~ 200MHz (Horizontal)	4.66dB
30MHz ~ 200MHz (Vertical)	4.67dB
200MHz ~1000MHz (Horizontal)	4.68dB
200MHz ~1000MHz (Vertical)	4.67dB

#### Conducted emissions

Frequency	Uncertainty (U <sub>lab</sub> )
150kHz ~ 30MHz	2.63dB

#### FCC ID: KUTPR318

Page 5 of 25

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### **TEST REPORT**

Report No. : AU0004309 (5)

Date : 18 Jan 2016

#### 1.5 Test Summary

TEST ITEM	FCC REFERANCE	RESULT
Radiated emission	15.231(b)	Comply
Assigned bandwidth (20dB bandwidth)	15.231(c)	Comply
Power line conducted emission	15.207	Comply
Transmission time after manual activation	15.231(a)	Comply

FCC ID: KUTPR318

Page 6 of 25

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### **TEST REPORT**

Report No. : AU0004309 (5)

Date : 18 Jan 2016

- 2 Description of the radiated emission test
- 2.1 Test Procedure

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.10 - 2013.

A non-conductive turntable with dimensions of 1.5m x 0.4m x 0.8m (L x W x H) placed above the reference ground plane. The equipment under test (EUT) was placed at 0.8m height for below 1GHz measurement and 1.5m height for above 1GHz measurement. The test distance is 3m between EUT and receiving antenna. A broadband antenna mounting on the mast received the signal strength. The turntable was rotated to maximize the emission level. The antenna was moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated. Additional absorbing material will be placed between the EUT and receiving antenna for above 1GHz measurement.

For below 30MHz, a loop antenna with its vertical plane is placed 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1 m above the ground.

The device was rotated through three orthogonal axes to determine which attitude and configuration produce the highest emission during measurement.

FCC ID: KUTPR318

Page 7 of 25

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### **TEST REPORT**

Report No. : AU0004309 (5)

Date :

18 Jan 2016

2.2 Test Setup





0.8

FCC ID: KUTPR318

Page 8 of 25

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## TEST REPORT

Report No. : AU0004309 (5)

Date :

18 Jan 2016

2.2 Test Setup



Above 1GHz

FCC ID: KUTPR318

Page 9 of 25

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# TEST REPORT

Report No. : AU0004309 (5)

Date : 18

18 Jan 2016

2.3 Test Result

The radiated emissions are measured from 9kHz to 3.18GHz (the tenth harmonics)

"#" means emissions appearing within the restricted bands shall follow the requirement of 47 CFR Part 15.205.

The frequencies from fundamental up to tenth harmonics were investigated, and emissions more 20dB below limit were not reported. Thus, those highest emissions were presented in next pages.

The EUT has been test in transmission mode.

It was found that the EUT meet the FCC requirement.

FCC ID: KUTPR318

Page 10 of 25

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廠商會檢定中心

### **TEST REPORT**

Report No. : AU0004309 (5)

Date :

18 Jan 2016

2.4 Radiated Emission Measurement Data

#### **Radiated emission**

Environmental conditions:

Parameter	Recorded value	
Ambient temperature:	22	°C
Relative humidity:	58	%

Frequency	Polarity	Reading	Antenna Factor	Field Strength	Limit at 3m	Margin	Detector
(MHz)	(H/V)	at 3m	and Cable Loss	at 3m	(dBµV/m)	(dB)	Туре
		(dBµV)	(dB/m)	(dBµV/m)			
317.498	Н	56.7	16.7	73.4	95.8	-22.4	Peak
635.002	V	37.2	22.9	60.1	75.8	-15.7	Peak
952.512	Н	23.0	26.1	49.1	75.8	-26.7	Peak
1269.984	V	64.6	-8.4	56.2	75.8	-19.6	Peak
#1587.632	Н	58.5	-8.1	50.4	74.0	-23.6	Peak
1905.021	Н	67.2	-6.9	60.3	75.8	-15.5	Peak
#2222.540	Н	65.2	-6.5	58.7	74.0	-15.3	Peak
2540.024	V	58.4	-4.2	54.2	75.8	-21.6	Peak
#2857.314	Н	39.1	-4.2	34.9	74.0	-39.1	Peak
3174.945	Н	53.5	-2.8	50.7	75.8	-25.1	Peak

FCC ID: KUTPR318

Page 11 of 25

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CMA Industrial Development Foundation Limited



### **TEST REPORT**

Report No. : AU0004309 (5)

Date :

18 Jan 2016

2.4 Radiated Emission Measurement Data

#### **Radiated emission**

Environmental conditions:

Parameter	Recorded value	
Ambient temperature:	22	°C
Relative humidity:	58	%

Frequency	Polarity	Peak	Average	Average	Limit at 3m	Margin
(MHz)	(H/V)	Reading	Factor	Value at 3m	$(dB\mu V/m)$	(dB)
		at 3m	(dB)	(dBµV/m)		
		(dBµVm)				
317.498	Н	73.4	-6.9	66.5	75.8	-9.3
635.002	V	60.1	-6.9	53.2	55.8	-2.6
952.512	Н	49.1	-6.9	42.2	55.8	-13.6
1269.984	V	56.2	-6.9	49.3	55.8	-6.5
#1587.632	Н	50.4	-6.9	43.5	54.0	-10.5
1905.021	Н	60.3	-6.9	53.4	55.8	-2.4
#2222.540	Н	58.7	-6.9	51.8	54.0	-2.2
2540.024	V	54.2	-6.9	47.3	55.8	-8.5
#2857.314	Н	34.9	-6.9	28.0	54.0	-26.0
3174.945	Н	50.7	-6.9	43.8	55.8	-12.0

Remark: According to FCC Part15 C clause 15.231 (b), the EUT shall demonstrate the compliance with the limits on the field strength of emissions based on the average value of the measured emissions. The equation with a sample calculation as follow: Average value = Peak value + 20 Log10 (Duty cycle), where the Duty cycle is calculated from following section 4.2.

FCC ID: KUTPR318

Page 12 of 25

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### **TEST REPORT**

Report No. : AU0004309 (5)

Date : 18 Jan 2016

- 3 Description of the Line-conducted Test
- 3.1 Test Procedure

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.10 - 2013. The EUT was setup as described in the procedures, and both lines were measured.

3.2 Test Result

The EUT has been tested in Transmission mode.

It was found that the EUT met the FCC requirement.

3.3 Test Setup



3.4 Graph and Table of Conducted Emission Measurement Data

The test data and graphs had shown in Appendices A4.

#### FCC ID: KUTPR318

Page 13 of 25

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CMA Industrial Development Foundation Limited



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### **TEST REPORT**

Report No. : AU0004309 (5)

Date : 18 Jan 2016

4 Supplementary document

The following document were submitted by applicant, and for electronic filing, the document are saved with the following filenames:

Document	Filename
Schematic Diagram	KUTPR318 Schematic.pdf
Schematic Diagram for receiver	KUTPR318 RF schematic.pdf
Users Manual	KUTPR318 User manual.pdf

#### 4.1 Bandwidth

Appendices A6 is shown the fundamental emission is confined in the specified band. The 20dB bandwidth is 476.85 kHz. The bandwidth requirement is 0.25% of 317 MHz = 792.5 kHz. It shows that the 20dB bandwidth met the 15.231(c) requirement.

#### 4.2 Duty cycle

Base on the EUT characteristic, the duty cycle may be difference for the different receiver; therefore the worst case duty cycle is used for the average factor calculation.

The duty cycle is simply the on-time divided by the period:

Time duration of one cycle	=	77.128ms
Effective period of one cycle	=	(2.784ms x 1) + (476 µs x 9) + (724µs x 26) + (340µs x 26) 34.732ms
Duty Cycle	= =	34.732 ÷ 77.128 0.450

Therefore, the average correction factor is found by  $20 \log_{10} 0.450 = -6.9 dB$ 

#### FCC ID: KUTPR318

Page 14 of 25

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### **TEST REPORT**

Report No. : AU0004309 (5)

Date : 18 Jan 2016

4.3 Transmission time

Duration of each transmission =791.09ms

The duration of the transmission is less than 5s after the transmission is activated by remote controller. An Appendices A2 is shown the EUT to comply with FCC part 15, section 15.231(a)(1).

FCC ID: KUTPR318

Page 15 of 25

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廠商會檢定中心

### **TEST REPORT**

Report	No.	: AU0004309 (5)		Date :	18 Jan 2016	
5	Appendices					
	A1.	Bandwidth Plot	1	page(s)		
<ul><li>A2. Average Factor</li><li>A3. Transmission time</li><li>A4. Conducted Emission Measurement Data</li></ul>		Average Factor	3	page(s)		
		Transmission time	1	page(s)		
		4	page(s)			

FCC ID: KUTPR318

Page 16 of 25

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:

### TEST REPORT

Report No.

AU0004309 (5)

Date :

18 Jan 2016



#### A1. Bandwidth Plot

20dB bandwidth

FCC ID: KUTPR318

Page 17 of 25

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廠商會檢定中心

:

### TEST REPORT

Report No.

AU0004309 (5)

Date :

18 Jan 2016



#### A2. Duty Cycle

Duty Cycle 1



Duty Cycle 2

#### FCC ID: KUTPR318

Page 18 of 25

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廠商會檢定中心

:

### TEST REPORT

Report No.

AU0004309 (5)

Date :

18 Jan 2016



#### A2. Duty Cycle

Duty Cycle 3



Duty Cycle 4

FCC ID: KUTPR318

Page 19 of 25

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:

### TEST REPORT

Report No.

AU0004309 (5)

Date :

18 Jan 2016



#### A2. Duty Cycle

Duty Cycle 5

FCC ID: KUTPR318

Page 20 of 25

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廠商會檢定中心

:

### TEST REPORT

Report No.

AU0004309 (5)

Date :

18 Jan 2016



#### A3. Transmission time

FCC ID: KUTPR318

Page 21 of 25

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### **TEST REPORT**



#### FCC ID: KUTPR318

Page 22 of 25

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CMA Industrial Development Foundation Limited

AU0004309 (5)

廠商會檢定中心

٠

Report No.

### **TEST REPORT**

Date :

18 Jan 2016

-					
		A4 Line conduc	ted measurement data		
Parar	neter	Recorded value			
Ambient temperature:		$24 \circ C$			
Relat	tive humidity:	62 %			
Terminal:		AC Mains			
Line:		Live			
Mode	e:	Transmitting			
	EDIT	PEAK LIST (Fina	l Measurement Resul	.ts)	
Tra	icel:	FCC-QP			
Tra	ice2:	FCC-AV			
Tra	ice3:				
	TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB	
2	Average	177 kHz	27.92 L1 gnd	-26.69	
1	Quasi Peak	186 kHz	35.92 L1 gnd	-28.28	
1	Quasi Peak	258 kHz	28.03 L1 gnd	-33.45	
2	Average	500 kHz	13.97 L1 gnd	-32.02	
1	Quasi Peak	567.5 kHz	25.48 L1 gnd	-30.51	
2	Average	1.7645 MHz	12.79 L1 gnd	-33.20	
2	Average	3.389 MHz	15.80 L1 gnd	-30.19	
1	Quasi Peak	3.8975 MHz	21.38 L1 gnd	-34.61	
2	Average	4.604 MHz	16.51 L1 gnd	-29.48	
2	Average	7.277 MHz	16.90 L1 gnd	-33.09	
2	Average	23.999 MHz	28.28 L1 gnd	-21.71	
	-				

#### FCC ID: KUTPR318

Page 23 of 25

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CMA Industrial Development Foundation Limited

廠商會檢定中心

### TEST REPORT



#### FCC ID: KUTPR318

Page 24 of 25

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CMA Industrial Development Foundation Limited

廠商會檢定中心

## **TEST REPORT**

Repor	t No. :	AU0004309 (5)	Date :	18 Jan 2016	
		A4 Line conduc	ted measurement data		
Paran	neter	Recorded value			
Ambi	ient temperature:	24 ° C			
Relative humidity:		62 %			
Torm	inal	AC Maina			
Line:		AC Mains Neutral			
Mode		Transmitting			
	EDT	T PEAK LIST (Fina)	l Measurement Resul	_ts)	
Tra	.cel:	FCC-QP		/	
Tra	.ce2:	FCC-AV			
Tra	.ce3:				
	TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB	
1	Quasi Peak	177 kHz	36.09 N gnd	-28.53	
2	Average	177 kHz	27.88 N gnd	-26.73	
2	Average	500 kHz	13.83 N gnd	-32.16	
1	Quasi Peak	572 kHz	25.52 N gnd	-30.47	
1	Quasi Peak	1.238 MHz	18.61 N gnd	-37.38	
2	Average	1.364 MHz	11.77 N gnd	-34.22	
2	Average	3.1415 MHz	15.42 N gnd	-30.57	
2	Average	3.83 MHz	16.16 N gnd	-29.83	
1	Quasi Peak	4.289 MHz	23.03 N gnd	-32.96	
2	Average	6.4085 MHz	16.95 N gnd	-33.04	
2	Average	23.999 MHz	25.54 N gnd	-24.45	
	2				

\*\*\*\*\* End of Report \*\*\*\*\*

FCC ID: KUTPR318

Page 25 of 25

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