

**FCC TEST REPORT**  
for  
**SANHO ELECTRONICS TECHNOLOGY CO., LTD**  
Wireless Camera Controller  
Model Number: CameraMator  
FCC ID: AXD602130108

Prepared for : SANHO ELECTRONICS TECHNOLOGY CO., LTD  
Address : 1/F, BLOCK 1, #1177 LINGYUN ROAD, NINGBO, CHINA

Prepared by : Keyway Testing Technology Co., Ltd.  
Address : Baishun Industrial Zone, Zhangmutou Town,  
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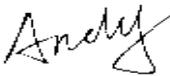
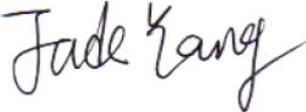
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Report No. : 13KWE01407F  
Date of Test : Dec. 18~30, 2012  
Date of Report : Dec. 30, 2012





# Keyway Testing Technology Co., Ltd.

<b>Applicant:</b>	SANHO ELECTRONICS TECHNOLOGY CO., LTD		
<b>Address:</b>	1/F, Block 1, #1177 Lingyun Road, Ningbo,China		
<b>Manufacturer:</b>	SANHO ELECTRONICS TECHNOLOGY CO., LTD		
<b>Address:</b>	1/F, Block 1, #1177 Lingyun Road, Ningbo,China		
<b>E.U.T:</b>	Wireless Camera Controller		
<b>Model Number:</b>	CameraMator		
<b>Trade Name:</b>	-----	<b>Serial No.:</b>	-----
<b>Date of Receipt:</b>	Dec. 17, 2012	<b>Date of Test:</b>	Dec. 18~30, 2012
<b>Test Specification:</b>	FCC Part 15, Subpart C: Oct. 1, 2010 ANSI C63.4:2003 KDB558074		
<b>Test Result:</b>	The equipment under test was found to be compliance with the requirements of the standards applied.		
	<b>Issue Date: Dec.30, 2012</b>		
<b>Tested by:</b>	<b>Reviewed by:</b>	<b>Approved by:</b>	
			
_____	_____	_____	
Andy Gao / Engineer	Jade Yang/ Supervisor	Chris Du / Manager	
<b>Other Aspects:</b>	None.		
<i>Abbreviations: OK/P=passed    fail/F=failed    n.a/N=not applicable    E.U.T=equipment under</i>			
<i>This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Keyway Testing Technology Co., Ltd.</i>			



# 1. RF EXPOSURE EVALUATION

## 1.1. Limits

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500–100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30–300	27.5	0.073	0.2	30
300–1500			f/1500	30
1500–100,000			1.0	30

**f = frequency in MHz**

**Friis transmission formula:  $Pd = (Pout * G) / (4 * \pi * r^2)$**

Where

**Pd** = power density in mW/cm<sup>2</sup>, **Pout** = output power to antenna in mW;

**G** = gain of antenna in linear scale, **Pi** = 3.1416;

**R** = distance between observation point and center of the radiator in cm

Pd is the limit of MPE, 1 mW/cm<sup>2</sup>. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

## 1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

## 1.3. Test Result of RF Exposure Evaluation

	<b>Channel Frequency (MHz)</b>	<b>Output power to antenna (mW)</b>	<b>Power Density at R=20cm (mW/cm<sup>2</sup>)</b>	<b>Limit (mW/cm<sup>2</sup>)</b>	<b>Result</b>
802.11b	2412	34.041	0.0107	1.0	Pass
	2437	29.444	0.0092	1.0	Pass
	2462	26.485	0.0083	1.0	Pass
802.11g	2412	32.509	0.0102	1.0	Pass
	2437	28.642	0.009	1.0	Pass
	2462	26.062	0.0082	1.0	Pass
802.11n (HT20)	2412	30.69	0.0097	1.0	Pass
	2437	26.062	0.0082	1.0	Pass
	2462	24.322	0.0077	1.0	Pass
802.11n (HT40)	2422	25.882	0.0082	1.0	Pass
	2437	22.751	0.0071	1.0	Pass
	2452	20.37	0.0064	1.0	Pass