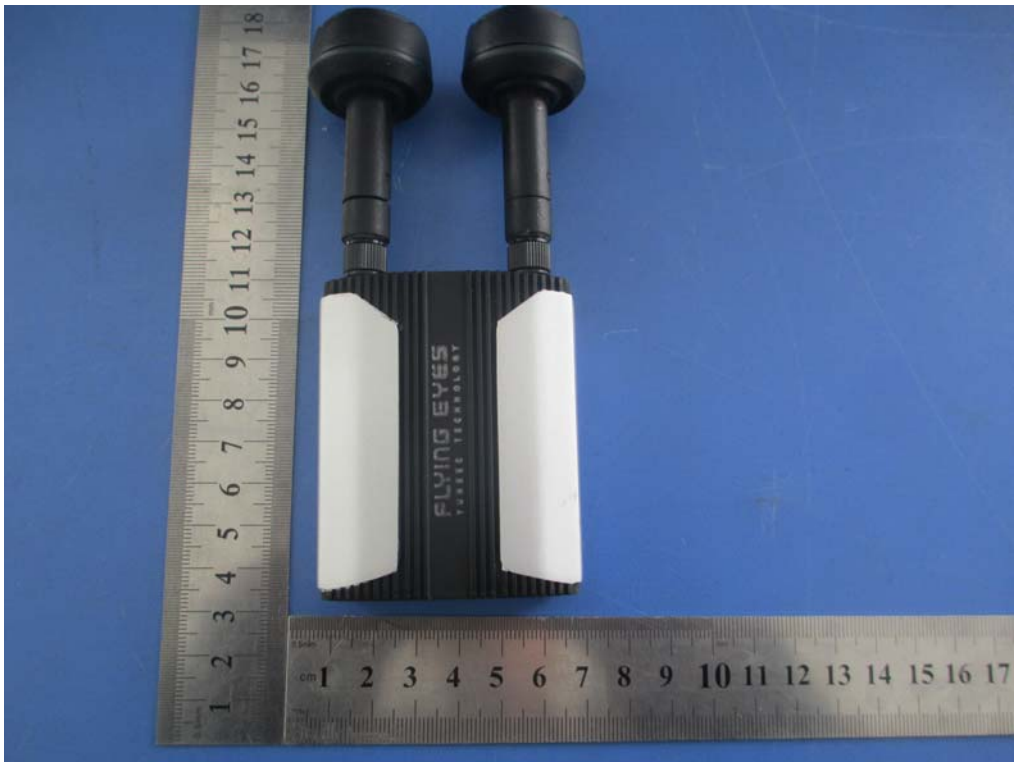
YUNEEC International (China) Co., Ltd.

wireless video transfer system

Main Model: LK58
Serial Model: N/A

June 03, 2014
Report No.: 14050005-FCC-H1-V1
(This report supersedes NONE)



Modifications made to the product : None

This Test Report is Issued Under the Authority of:		
Ray Zhao	Alex Liu	
Ray Zhao **Compliance Engineer**	**Alex Liu** **Technical Manager**	

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Test result presented in this test report is applicable to the representative sample only.

RF Exposure Evalution Report

To: FCC 2.1091: 2013

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Laboratory Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.

In addition to testing and certification, SIEMIC provides initial design reviews and compliance management through out a project. Our extensive experience with China, Asia Pacific, North America, European, and international compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC , RF/Wireless , Telecom
Canada	EMC, RF/Wireless , Telecom
Taiwan	EMC, RF, Telecom , Safety
Hong Kong	RF/Wireless ,Telecom
Australia	EMC, RF, Telecom , Safety
Korea	EMI, EMS, RF , Telecom, Safety
Japan	EMI, RF/Wireless, Telecom
Singapore	EMC , RF , Telecom
Europe	EMC, RF, Telecom , Safety

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CONTENTS

1. EXECUTIVE SUMMARY & EUT INFORMATION

The purpose of this test programme was to demonstrate compliance of the YUNEEC International (China) Co., Ltd., wireless video transfer system and model: LK58against the current Stipulated Standards. The wireless video transfer system has demonstrated compliance with the FCC 2.1091: 2013.

EUT Information

EUT Description	**wireless video transfer system**
Main Model	**LK58**
Serial Model	**N/A**
Antenna Gain	**5.8G: 0dBi**
Input Power	**DC 5V**
Maximum Conducted Peak Power to Antenna	**25.2dBm**
Classification Per Stipulated Test Standard	**FCC 2.1091: 2013**

2. TECHNICAL DETAILS

Purpose	**Compliance testing of wireless video transfer system with stipulated standard**
Applicant / Client	**YUNEEC International (China) Co., Ltd. No.388, Zhengwei Road, Jinxi Town, Kunshan, Jiangsu，China**
Manufacturer	**YUNEEC International (China) Co., Ltd. No.388, Zhengwei Road, Jinxi Town, Kunshan, Jiangsu，China**
Laboratory performing the tests	**SIEMIC (Nanjing-China) Laboratories NO.2-1,Longcang Dadao, Yuhua Economic Development Zone, Nanjing, China Tel: +86(25)86730128/86730129 Fax: +86(25)86730127 Email: China@siemic.com.cn**
Test report reference number	**14050005-FCC-H1-V1**
Date EUT received	**March 25, 2014**
Standard applied	**FCC 2.1091: 2013**
Dates of test	**April 04 to May 30, 2014**
No of Units	**#1**
Equipment Category	**DTS**
Trade Name	**YUNEEC**
RF Operating Frequency (ies)	**5745 MHz**
Number of Channels	**5.8G: 1**
Modulation	**OFDM**
Port	**HDMI Port, Shutter Port, IR Port, Power**
FCC ID	**2ABB5-LK58**

3. MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FCC §2.1091 - MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to §1.1310 and §2.1091 RF exposure is calculated.

Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm2)	Averaging Time (minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f2)	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
* = Plane-wave equivalent power density

Test Data

Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

Where: S = power density (in appropriate units, e.g. mW/cm2)
P = power input to the antenna (in appropriate units, e.g., mW).
G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.
R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

5.8G:

Maximum peak output power at antenna input terminal: 25.2(dBm)
Maximum peak output power at antenna input terminal: 331.13 (mW)

Prediction distance: >20 (cm)
Predication frequency: 5745 (MHz)
Antenna Gain 1 (typical): 0 (dBi)
Antenna Gain 2 (typical): 0 (dBi)

The worst case is power density at predication frequency at 20 cm: 0.066 (mW/cm2)
MPE limit for general population exposure at prediction frequency: 1.0 (mW/cm2)

0.066(mW/cm2) < 1.0(mW/cm2)

Result: Pass