RF Exposure Evaluation Declaration

Product Name: Digital Video Downlink

Model No. : MK58

FCC ID : 2ACS5-MK58

IC ID : 11554B-MK58

Applicant: Yuneec Technology Co., Limited

Address: 2/F Man Shung Industrial Building, 7 Lai Yip

Street, Kwun Tong, Hong Kong

Date of Receipt: Jun. 29, 2015

Issued Date : Aug. 05, 2015

Report No. : 1570049R-RF-US-P20V01

Report Version: V1.0

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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Test Report Certification

Issued Date : Aug. 05, 2015

Report No.: 1570049R-RF-US-P20V01



a DEKRA company

Product Name

: Digital Video Downlink

Applicant

: Yuneec Technology Co., Limited

Address

2/F Man Shung Industrial Building, 7 Lai Yip Street, Kwun

Tong, Hong Kong

Manufacturer

: Yuneec International (China) Co., Ltd.

Address

No.388 East Zhengwei Road, Jinxi Town, Kunshan,

Jiangsu 215324, China

Model No.

MK58

FCC ID

: 2ACS5-MK58

IC ID

11554B-MK58

EUT Voltage

DC 4.5V-5.5V

Brand Name

YUNEEC

Applicable Standard

KDB 447498D01V05V02

FCC Part1.1310(b)

Test Result

Complied

Performed Location

Suzhou EMC Laboratory

No.99 Hongye Rd., Suzhou Industrial Park Loufeng

Hi-Tech Development Zone., Suzhou, China

TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098

FCC Registration Number: 800392

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Laboratory Information

We, **QuieTek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted(audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scope:

Taiwan R.O.C. : BSMI, NCC, TAF

USA : FCC
Japan : VCCI
China : CNAS

The related certificate for our laboratories about the test site and management system can be downloaded from QuieTek Corporation's Web Site: http://www.quietek.com/tw/ctg/cts/accreditations.htm
The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site: http://www.quietek.com/

If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

HsinChu Testing Laboratory:

LinKou Testing Laboratory:

No.5-22, Ruishukeng, Linkou Dist., New Taipei City 24451, Taiwan, R.O.C.

Suzhou Testing Laboratory:

No.99 Hongye Rd., Suzhou Industrial Park Loufeng Hi-Tech Development Zone., SuZhou, China



History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
1570049R-RF-US-P20V01	V1.0	Initial Issued Report	Aug. 05, 2015



1. RF Exposure Evaluation

1.1. Limits

According to FCC 1.1310: 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)

	Electric	Magnetic	Power	Average
Frequency	Field	Field		Time
Range (MHz)	Strength	Strength	Density	
	(V/m)	(A/m)	(mW/cm2)	(Minutes)
(A) Limits for Occupational/ Control Exposures				
300-1500			F/300	6
1500-100,000			5	6
(B) Limits for General Population/ Uncontrolled Exposures				
300-1500			F/1500	6
1500-100,000			1	30

F= Frequency in MHz

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4*pi*r2)

Where

Pd = power density in mW/cm2

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 id the limit of MPE, 1 mW/cm2. 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

Product	:	Digital Video Downlink
Test Item	:	RF Exposure Evaluation
Test Site	:	AC-6

Antenna Gain:

Directional Gain
d: 0dBi
nd



• Output Power into Antenna & RF Exposure Evaluation Distance:

Antenna:

		Maximum Output	Power Density at R =
Test Mode	Frequency Band (MHz)	Power to Antenna	20 cm
		(mW)	(mW/cm2)
802.11a	5745~5825MHz	36.058	0.0090

Note:
The power density Pd (4th column) at a distance of 20 cm calculated from the Friis
transmission formula is far below the limit of 1 mW/cm2.
The End