



Page 1 / 7 Rev. 01

Report No.: T180420W01-MF IEEE C95.1 2005 KDB 447498 D03 47 C.F.R. Part 1, Subpart I, Section 1.1310 47 C.F.R. Part 2, Subpart J, Section 2.1091

RF EXPOSURE REPORT

For

VZ-X Wireless/HDMI/USB Document Camera

Model: CDVH-02IP



Issued to

IPEVO CORP. 3F., NO.53, BO-AI RD., JHONGJHENG DISTRICT, TAIPEI CITY, TAIWAN

Issued by

Compliance Certification Services Inc. No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.) http://www.ccsrf.com Issued Date: June 28, 2018

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部分複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Compliance Certification Service Inc. 程智科技股份有限公司 No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan / 新北市五股區五工六路 11 號 t:(886-2) 2299-9720 f:(886-2) 2298-1882 www.sgs.tw www.ccsrf.com



Page 2/7 Rev. 01

Revision History

| Rev. | Issue Date | Revisions | Effect Page | Revised By |
|------|---------------|-------------------------------|-------------|--------------|
| 00 | June 28, 2018 | Initial Issue | ALL | Allison Chen |
| 01 | July 24, 2018 | 1. Revised max tune up power. | P.5, P.7 | Allison Chen |



Page 3/7 Rev. 01

TABLE OF CONTENTS

| 1. | TEST RESULT CERTIFICATION | 4 |
|----|------------------------------|---|
| 2. | LIMIT | 5 |
| 3. | EUT SPECIFICATION | 5 |
| 4. | TEST RESULTS | 6 |
| 5. | MAXIMUM PERMISSIBLE EXPOSURE | 7 |



Page 4/7 Rev. 01

1. TEST RESULT CERTIFICATION

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10: 2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15.207, 15.209, 15.247.

The test results of this report relate only to the tested sample EUT identified in this report.

| APPLICABLE STANDARDS | | | |
|--|-------------------------|--|--|
| STANDARD | TEST RESULT | | |
| IEEE C95.1 2005 KDB 447498 D03 | | | |
| 47 C.F.R. Part 1, Subpart I, Section 1.1310 47 C.F.R. Part 2, Subpart J, Section 2.1091 | No non-compliance noted | | |

Approved by:

ven Cleang

Sam Chuang Manager Compliance Certification Services Inc.

Reporter:

Allison Chen

Allison Chen Report coordinator Compliance Certification Services Inc.



Page 5/7 Rev. 01

2. LIMIT

According to §15.247(i), 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 levels in excess of the Commission's guidelines. See § 1.1307(b)(1) of this chapter.

3. EUT SPECIFICATION

| EUT | VZ-X Wireless/HDMI/USB Document Camera | | | | |
|-------------------------------|--|--|--|--|--|
| Model | CDVH-02IP | | | | |
| Trade Name | IPEVD | | | | |
| Model Discrepancy | N/A | | | | |
| Frequency band (Operating) | ⊠ 802.11n HT40: 2422MHz ~ 2452MHz □ Others | | | | |
| Device category | Portable (<20cm separation) Mobile (>20cm separation) Others | | | | |
| Exposure classification | Occupational/Controlled exposure (S = 5mW/cm²) General Population/Uncontrolled exposure (S=1mW/cm²) | | | | |
| Antenna Specification | Brand: LYNwave Model: AAU100-052023 Type: USB PIFA Antenna Ant 1 Gain : 2.00 dBi (Numeric gain: 1.58) Ant 2 Gain : 2.00 dBi (Numeric gain: 1.58) Power Directional Gain : 2.00 dBi (Numeric gain: 1.58) Notes: 1. Power Directional Gain: 10*LOG(((10^(Ant1/10)+10^(Ant2/10))/2) | | | | |
| Max tune up power | | | | | |
| Evaluation applied | MPE Evaluation* | | | | |



4. TEST RESULTS

No non-compliance noted.

Calculation

Given

 $E = \frac{\sqrt{30 \times P \times G}}{d} \quad \& \quad S = \frac{E^2}{377}$ Where E = Field strength in Volts / meter P = Power in Watts G = Numeric antenna gain d = Distance in meters S = Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{377d^2}$$

Changing to units of mW and cm, using:

P (mW) = P (W) / 1000 and d (cm) = d(m) / 100

Yields

$$S = \frac{30 \times (P/1000) \times G}{377 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2}$$
 Equation 1

Where d = Distance in cm P = Power in mW G = Numeric antenna gain S = Power density in mW / cm² Page 6/7 Rev. 01



Page 7/7 Rev. 01

5. MAXIMUM PERMISSIBLE EXPOSURE

Substituting the MPE safe distance using d = 20 cm into Equation 1:

 $S = 0.000199 \times P \times G$

Where P = Power in mW

G = Numeric antenna gain

 $S = Power density in mW / cm^2$

IEEE 802.11n HT40 mode:

| Ch. | Frq.(MHz) | P (mW) | Gain (num.) | D (cm) | Power density in mW / cm ² | Limit (mW/cm2) |
|-----|-----------|---------|-------------|--------|---------------------------------------|----------------|
| 3 | 2422 | 141.254 | 1.58 | 20 | 0.0444 | 1 |