

Prüfbericht-Nr.: 17044733 001 Auftrags-Nr.: 164024794 Seite 1 von 32 Test Report No.: Order No.: Page 1 of 32 Kunden-Referenz-Nr.: Auftragsdatum: N/A 13.11.2014 Client Reference No.: Order date: Auftraggeber: Jiangmen Dascom Computer Peripherals Co., Ltd., No. 399, Jin Xing Road, Jiang Hai Client: District, Jiangmen City, Guangdong Province 529040, P.R. China Prüfgegenstand: Label & Barcode Printer Test item: Bezeichnung / Typ-Nr.: DL-210 Identification / Type No.: (Tally/DASCOM) **Auftrags-Inhalt: FCC** Certification Order content: Prüfgrundlage: FCC CFR47 Part 15: Subpart B Section 15.107 Test specification: FCC CFR47 Part 15: Subpart B Section 15.109 Wareneingangsdatum: 06.11.2014 Date of receipt: Prüfmuster-Nr.: KAD141106007S01 Test sample No.: Prüfzeitraum: 07.11.2014 - 12.11.2014 Testing period: Ort der Prüfung: Dongguan EMTEK Co., Ltd. Place of testing: Shenzhen EMTEK Co., Ltd. Prüflaboratorium: TÜV Rheinland (Shenzhen) Co., Ltd. Testing laboratory. Prüfergebnis*: Pass Test result*: geprüft von I tested by: kontrolliert von Lreviewed by Winnie Hou/Project Manager 05.12.2014 05.12.2014 Owen Tian/Technical Certifier Name / Stellung Datum Unterschrift Datum Name / Stellung Unterschrift Name / Position Date Name / Position Signature Date Signature Sonstiges I Other. FCC ID: Z7ODL2100 Zustand des Prüfgegenstandes bei Anlieferung: Prüfmuster vollständig und unbeschädigt Condition of the test item at delivery. Test item complete and undamaged * Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mange!haft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet 2 = good 3 = satisfactory 4 = sufficient Legend: 1 = very good 5 = poorP(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht



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TEST SUMMARY

5.1.1 CONDUCTED EMISSION

RESULT: Pass

5.2.1 RADIATED EMISSIONS

RESULT: Pass



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1. General Remarks

1.1 Complementary Materials

None.

2. Test Sites

2.1 Test Facilities

 $Dongguan\ EMTEK\ Co.,\ Ltd.$

(FCC Registration No.: 247565)

No. 281, Guantai Road, Nancheng District, Dongguan, Guangdong, 523077, P.R. China

The tests at the test site have been conducted under the supervision of a TÜV engineer.

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2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

| Kind of Equipment | Manufacturer | Туре | S/N | Calibrated until |
|--------------------------------|-----------------|-----------|--------------|------------------|
| Conducted Emission | | | | |
| Test Receiver | Rohde&Schwarz | ESCS30 | 100018 | 2015-05-16 |
| L.I.S.N. | Rohde&Schwarz | ENV216 | 100017 | 2015-05-16 |
| RF Switching Unit | CDS | RSU-M2 | 38401 | 2015-05-16 |
| Radiated Emission | | | | |
| Test Receiver | Rohde & Schwarz | ESCI | 1166.5950.03 | 2015-05-16 |
| Bilog Antenna | Schwarzbeck | VULB9163 | 000141 | 2015-05-16 |
| Power Amplifier | CDS | RSU-M352 | 818 | 2015-05-16 |
| Power Amplifier | HP | 8447F | OPT H64 | 2015-05-16 |
| Color Monitor | SUNSPO | SP-140A | N/A | 2015-05-16 |
| Single Line Filter | JIANLI | XL-3 | N/A | 2015-05-16 |
| Single Phase Power Line Filter | JIANLI | DL-2X100B | N/A | 2015-05-16 |
| 3 Phase Power Line Filter | JIANLI | DL-4X100B | N/A | 2015-05-16 |
| DC Power Filter | JIANLI | DL-2X50B | N/A | 2015-05-16 |
| Cable | Schwarzbeck | PLF-100 | 549489 | 2015-05-16 |
| Cable | Rosenberger | CIL02 | A0783566 | 2015-05-16 |
| Cable | Rosenberger | RG 233/U | 525178 | 2015-05-16 |

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basics using in house standards or comparisons.

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2.5 Measurement Uncertainty

Table 2: Measurement Uncertainty

| Parameter | Uncertainty |
|----------------------------------|-------------|
| Conducted Emission | < ± 2.40 dB |
| Radiated Emission (30 – 1000MHz) | < ± 3.43 dB |
| Radiated Emission (1 – 2GHz) | < ± 4.46 dB |

2.6 Location of Original Data

The original copies of all test data taken during actual testing were retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

Dongguan EMTEK Co., Ltd. test facility located at No. 281, Guantai Road, Nancheng District, Dongguan, Guangdong, 523077, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.



Products

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3. General Product Information

3.1 Product Function and Intended Use

The EUT is a label & barcode printer.

For more information refer to the manufacturer's Circuit diagram & Instruction Manual.

3.2 Ratings and System Details

Rated voltage: DC 24V Input current: 2A Protection class: III

3.3 Independent Operation Modes

The basic operation modes are:

- A. On
 - 1. USB port input
 - 2. Serial port input
 - 3. Parallel port input
- B. Stand by
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

Bill of MaterialPCB LayoutInstruction Manual

- Photo Document - Rating Label



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4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.4: 2003.

4.3 Special Accessories and Auxiliary Equipment

The EUTs were tested with following cables:

| Interface(s)/Port(s): | Max. cable length, shielding | Cable classification |
|--------------------------|---------------------------------|----------------------|
| AC Input port of adapter | 2 cores, non-shielded port | AC Input Power Port |
| DC Input port of EUT | 2 cores, non-shielded port | DC Input Power Port |
| USB port | 4 cores, 3m, non-shielded port | Signal Port |
| Parallel port | 25 cores, 3m, non-shielded port | Signal Port |
| Serial port | 9 cores, 3m, non-shielded port | Signal Port |

The EUTs were tested with following accessories:

| Accessory | Manufacturer | M/N | Serial No. |
|---------------|--------------|--------------------|-----------------|
| AC/DC adapter | | | |
| PC | Lenovo | ThinkCentre M8400t | EA08228210 |
| LCD Monitor | SAMSUNG | B2230H | YDG7HVGZ900053H |
| Mouse | DELL | M-UAR DEL7 | XN966 |
| Keyboard | DELL | L30U | ON277F |

4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.



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4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test

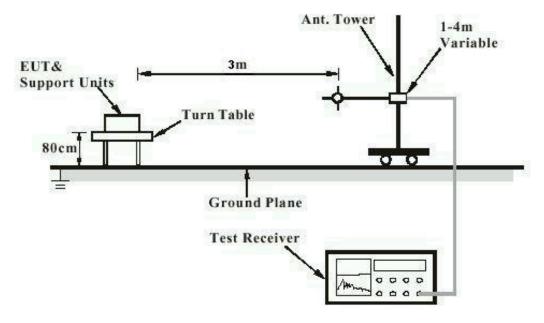
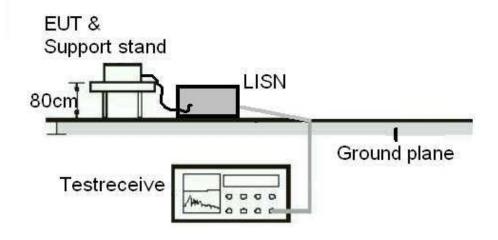


Diagram of Measurement Equipment Configuration for Conduction Measurement



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5. Test Results EMISSION

5.1 Emission in the Frequency Range up to 30 MHz

5.1.1 Conducted Emission

RESULT: Pass

Date of testing : 2014-11-08

Test standard : FCC Part15 Subpart B Section 15.107(a)

Basic standard : ANSI C63.4: 2003

Frequency range : 0.15 – 30MHz

Limits : FCC Part15 Subpart B Section 15.107(a)

Kind of test site : Shield room

Test setup

Operation mode : AC 120V, 60Hz (via marketed AC/DC adapter)

Not connected

Earthing
Ambient temperature **24**℃ Relative humidity 55% Atmospheric pressure : 101kPa

For details refer to following test plot.



Products

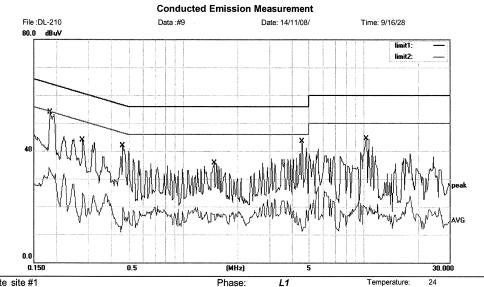
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Dongguan EMTEK Co., Ltd. No.281, Guantai Road, Nancheng District, Dongguan, Guangdong, China www.emtek.com.cn Tel:+86-769-2280 7078 Fax:+86-769-2280 7079





AC 120V/60Hz

Humidity:

55 %

Site site #1

Limit: (CE)FCC PART 15 class B_QP

EUT: Label and Barcode Printer

M/N: DL-210 Mode: Printing

Note: USB interface connection

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|-----|-----|---------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | * | 0.1850 | 50.81 | 0.00 | 50.81 | 64.26 | -13.45 | QP | |
| 2 | | 0.1850 | 32.84 | 0.00 | 32.84 | 54.26 | -21.42 | AVG | |
| 3 | | 0.2800 | 40.99 | 0.00 | 40.99 | 60.82 | -19.83 | QP | |
| 4 | | 0.2800 | 24.82 | 0.00 | 24.82 | 50.82 | -26.00 | AVG | |
| 5 | | 0.4650 | 38.98 | 0.00 | 38.98 | 56.60 | -17.62 | QP | |
| 6 | | 0.4650 | 19.63 | 0.00 | 19.63 | 46.60 | -26.97 | AVG | |
| 7 | | 1.4800 | 32.64 | 0.00 | 32.64 | 56.00 | -23.36 | QP | |
| 8 | | 1.4800 | 17.32 | 0.00 | 17.32 | 46.00 | -28.68 | AVG | |
| 9 | | 4.5900 | 40.50 | 0.00 | 40.50 | 56.00 | -15.50 | QP | |
| 10 | | 4.5900 | 12.84 | 0.00 | 12.84 | 46.00 | -33.16 | AVG | |
| 11 | | 10.3250 | 41.50 | 0.00 | 41.50 | 60.00 | -18.50 | QP | |
| 12 | | 10.3250 | 20.57 | 0.00 | 20.57 | 50.00 | -29.43 | AVG | |

Power:

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver.

File:DL-210\Data:#9



Prüfbericht - Nr.:

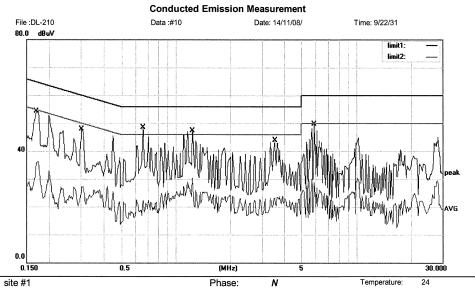
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Site site #1

Limit: (CE)FCC PART 15 class B_QP

EUT: Label and Barcode Printer

M/N: DL-210 Mode: Printing

Note: USB interface connection

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|-----|-----|--------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | | 0.1700 | 51.37 | 0.00 | 51.37 | 64.96 | -13.59 | QP | |
| 2 | | 0.1700 | 36.34 | 0.00 | 36.34 | 54.96 | -18.62 | AVG | |
| 3 | | 0.3050 | 44.88 | 0.00 | 44.88 | 60.11 | -15.23 | QP | |
| 4 | | 0.3050 | 27.21 | 0.00 | 27.21 | 50.11 | -22.90 | AVG | |
| 5 | * | 0.6600 | 46.47 | 0.00 | 46.47 | 56.00 | -9.53 | QP | |
| 6 | | 0.6600 | 22.42 | 0.00 | 22.42 | 46.00 | -23.58 | AVG | |
| 7 | | 1.2400 | 44.25 | 0.00 | 44.25 | 56.00 | -11.75 | QP | |
| 8 | | 1.2400 | 30.28 | 0.00 | 30.28 | 46.00 | -15.72 | AVG | |
| 9 | | 3.5300 | 40.91 | 0.00 | 40.91 | 56.00 | -15.09 | QP | |
| 10 | | 3.5300 | 23.84 | 0.00 | 23.84 | 46.00 | -22.16 | AVG | |
| 11 | | 5.8900 | 46.70 | 0.00 | 46.70 | 60.00 | -13.30 | QP | |
| 12 | | 5.8900 | 29.84 | 0.00 | 29.84 | 50.00 | -20.16 | AVG | |

Power:

AC 120V/60Hz

Humidity:

55 %

*:Maximum data Comment: Factor build in receiver. x:Over limit !:over margin

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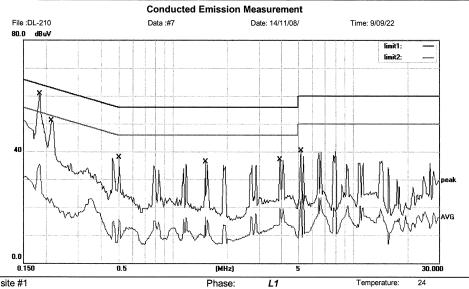
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Site site #1

Limit: (CE)FCC PART 15 class B_QP

EUT: Label and Barcode Printer

M/N: DL-210 Mode: Printing

Note: Parallel interface connection

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|-----|-----|--------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | * | 0.1850 | 55.75 | 0.00 | 55.75 | 64.26 | -8.51 | QP | |
| 2 | | 0.1850 | 35.59 | 0.00 | 35.59 | 54.26 | -18.67 | AVG | |
| 3 | | 0.2150 | 48.13 | 0.00 | 48.13 | 63.01 | -14.88 | QP | |
| 4 | | 0.2150 | 23.02 | 0.00 | 23.02 | 53.01 | -29.99 | AVG | |
| 5 | | 0.5050 | 35.99 | 0.00 | 35.99 | 56.00 | -20.01 | QP | |
| 6 | | 0.5050 | 15.71 | 0.00 | 15.71 | 46.00 | -30.29 | AVG | |
| 7 | | 1.5150 | 33.32 | 0.00 | 33.32 | 56.00 | -22.68 | QP | |
| 8 | | 1.5150 | 16.56 | 0.00 | 16.56 | 46.00 | -29.44 | AVG | |
| 9 | | 3.9600 | 34.15 | 0.00 | 34.15 | 56.00 | -21.85 | QP | |
| 10 | | 3.9600 | 19.62 | 0.00 | 19.62 | 46.00 | -26.38 | AVG | |
| 11 | | 5.1900 | 37.22 | 0.00 | 37.22 | 60.00 | -22.78 | QP | |
| 12 | | 5.1900 | 24.73 | 0.00 | 24.73 | 50.00 | -25.27 | AVG | |

Power:

AC 120V/60Hz

Humidity:

55 %

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver.

File:DL-210\Data:#7



Products

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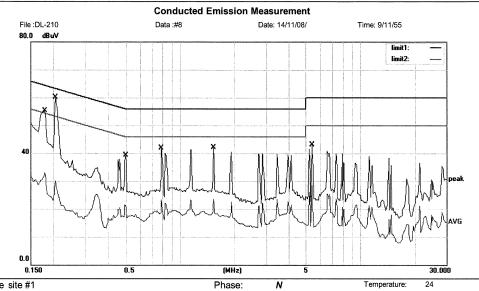
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AC 120V/60Hz

Humidity:

Site site #1

Limit: (CE)FCC PART 15 class B_QP

EUT: Label and Barcode Printer

M/N: DL-210 Mode: Printing

Note: Parallel interface connection

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|-----|-----|--------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | | 0.1800 | 51.36 | 0.00 | 51.36 | 64.49 | -13.13 | QP | |
| 2 | | 0.1800 | 33.08 | 0.00 | 33.08 | 54.49 | -21.41 | AVG | |
| 3 | * | 0.2050 | 55.04 | 0.00 | 55.04 | 63.41 | -8.37 | QP | |
| 4 | | 0.2050 | 30.05 | 0.00 | 30.05 | 53.41 | -23.36 | AVG | |
| 5 | | 0.5000 | 36.38 | 0.00 | 36.38 | 56.00 | -19.62 | QP | |
| 6 | | 0.5000 | 21.45 | 0.00 | 21.45 | 46.00 | -24.55 | AVG | |
| 7 | | 0.7900 | 38.89 | 0.00 | 38.89 | 56.00 | -17.11 | QP | |
| 8 | | 0.7900 | 23.24 | 0.00 | 23.24 | 46.00 | -22.76 | AVG | |
| 9 | | 1.5300 | 39.01 | 0.00 | 39.01 | 56.00 | -16.99 | QP | |
| 10 | | 1.5300 | 23.59 | 0.00 | 23.59 | 46.00 | -22.41 | AVG | |
| 11 | | 5.4000 | 40.11 | 0.00 | 40.11 | 60.00 | -19.89 | QP | |
| 12 | | 5.4000 | 28.52 | 0.00 | 28.52 | 50.00 | -21.48 | AVG | |

Power:

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver.

File: DL-210\Data:#8



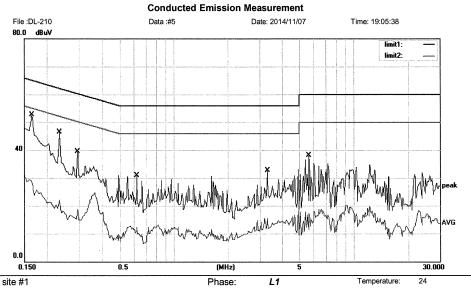
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AC 120V/60Hz

Humidity:

Site site #1

Limit: (CE)FCC PART 15 class B_QP

EUT: Label and Barcode Printer

M/N: DL-210 Mode: Printing

Note: Serial interface connection

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|-----|-----|--------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | * | 0.1650 | 49.74 | 0.00 | 49.74 | 65.21 | -15.47 | QP | |
| 2 | | 0.1650 | 29.55 | 0.00 | 29.55 | 55.21 | -25.66 | AVG | |
| 3 | | 0.2350 | 43.50 | 0.00 | 43.50 | 62.27 | -18.77 | QP | |
| 4 | | 0.2350 | 22.15 | 0.00 | 22.15 | 52.27 | -30.12 | AVG | |
| 5 | | 0.2950 | 39.46 | 0.00 | 39.46 | 60.38 | -20.92 | QP | |
| 6 | | 0.2950 | 18.67 | 0.00 | 18.67 | 50.38 | -31.71 | AVG | |
| 7 | | 0.6250 | 30.83 | 0.00 | 30.83 | 56.00 | -25.17 | QP | |
| 8 | | 0.6250 | 10.15 | 0.00 | 10.15 | 46.00 | -35.85 | AVG | |
| 9 | | 3.3200 | 32.69 | 0.00 | 32.69 | 56.00 | -23.31 | QP | |
| 10 | | 3.3200 | 15.45 | 0.00 | 15.45 | 46.00 | -30.55 | AVG | |
| 11 | | 5.6700 | 38.10 | 0.00 | 38.10 | 60.00 | -21.90 | QP | |
| 12 | | 5.6700 | 18.16 | 0.00 | 18.16 | 50.00 | -31.84 | AVG | |

Power:

File:DL-210\Data:#5

Comment: Factor build in receiver. *:Maximum data x:Over limit !:over margin



Products

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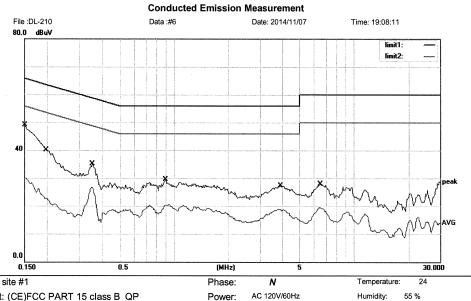
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55 %



Site site #1

Limit: (CE)FCC PART 15 class B_QP

EUT: Label and Barcode Printer

M/N: DL-210 Mode: Printing

Note: Serial interface connection

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|-----|-----|--------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | * | 0.1500 | 49.13 | 0.00 | 49.13 | 66.00 | -16.87 | QP | |
| 2 | | 0.1500 | 30.40 | 0.00 | 30.40 | 56.00 | -25.60 | AVG | |
| 3 | | 0.2000 | 39.12 | 0.00 | 39.12 | 63.61 | -24.49 | QP | |
| 4 | | 0.2000 | 22.67 | 0.00 | 22.67 | 53.61 | -30.94 | AVG | |
| 5 | | 0.3550 | 35.13 | 0.00 | 35.13 | 58.84 | -23.71 | QP | |
| 6 | | 0.3550 | 26.77 | 0.00 | 26.77 | 48.84 | -22.07 | AVG | |
| 7 | | 0.9000 | 29.57 | 0.00 | 29.57 | 56.00 | -26.43 | QP | |
| 8 | | 0.9000 | 20.33 | 0.00 | 20.33 | 46.00 | -25.67 | AVG | |
| 9 | | 3.9200 | 27.36 | 0.00 | 27.36 | 56.00 | -28.64 | QP | |
| 10 | | 3.9200 | 18.91 | 0.00 | 18.91 | 46.00 | -27.09 | AVG | |
| 11 | | 6.5000 | 27.89 | 0.00 | 27.89 | 60.00 | -32.11 | QP | |
| 12 | | 6.5000 | 19.58 | 0.00 | 19.58 | 50.00 | -30.42 | AVG | |

Power:

AC 120V/60Hz

File:DL-210\Data:#6

^{*:}Maximum data x:Over limit !:over margin Comment: Factor build in receiver.



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5.2 Emission in the Frequency Range above 30 MHz

5.2.1 Radiated emissions

RESULT: Pass

Date of testing 2014-11-12

Test standard : FCC Part15 Subpart B Section 15.109(a)
Basic standard : ANSI C63.4: 2003
Frequency range : 30 – 2000MHz *
Limits : FCC Part15 Subpart B Section 15.109(a)
Kind of test site : 3m Semi-Anechoic Chamber

Test Setup

Input voltage AC 120V, 60Hz (via marketed AC/DC adapter)

Input voltage :
Operation mode :

Earthing Not Connected

Ambient temperature : **25**℃ Relative humidity 55% Atmospheric pressure : 101kPa

*- The EUT's highest frequency generated and used is 480MHz, hence the highest scan frequency is up to 2GHz only.

For details refer to following test plot.



Products

Test Report No.

Prüfbericht - Nr.:

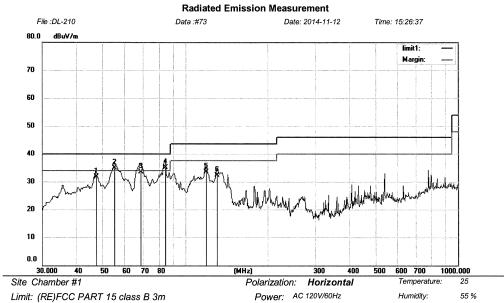
17044733 001

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Dongguan EMTEK Co.,Ltd. No 281,Guantai Road, Nancheng District,Dongguan,Guangdong 523077 P.R. China www.emtek.com.cn Tel:+86-769-2280 7078 Fax:+86-769-2280 7079



55 %



Limit: (RE)FCC PART 15 class B 3m

EUT: Label and Barcode Printer

M/N: DL-210 Mode: Printing

Note: USB interface connection

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | Antenna Height | Table Degree | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|-------------------|-----------------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | ст | degree | Comment |
| 1 | | 47.4600 | 46.02 | -14.38 | 31.64 | 40.00 | -8.36 | QP | | | |
| 2 | 1 | 55.2200 | 52.39 | -17.46 | 34.93 | 40.00 | -5.07 | QP | | | |
| 3 | | 68.8000 | 55.30 | -21.80 | 33.50 | 40.00 | -6.50 | QP | | | |
| 4 | * | 84.3200 | 57.00 | -21.91 | 35.09 | 40.00 | -4.91 | QP | | | |
| 5 | | 119.2400 | 50.46 | -17.01 | 33.45 | 43.50 | -10.05 | QP | | | |
| 6 | | 130.8800 | 48.66 | -16.29 | 32.37 | 43.50 | -11.13 | QP | | | |

*:Maximum data x:Over limit !:over margin Operator: QIU

File: DL-210\Data:#73



Products

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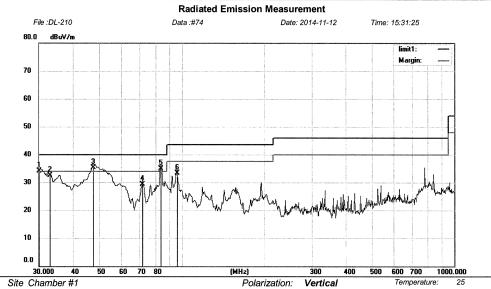
Dongguan EMTEK Co.,Ltd. No 281, Guantai Road, Nancheng District, Dongguari, Guangdong 529077 P.R. China www.emtek.com.cn Tel:+86-769-2280 7078 Fax:+86-769-2280 7079



Humidity:

Operator: QIU

55 %



Limit: (RE)FCC PART 15 class B 3m

EUT: Label and Barcode Printer

M/N: DL-210 Mode:Printing

Note: USB interface connection

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | Antenna Height | Table Degree | |
|-----|-----|---------|------------------|-------------------|------------------|--------|--------|----------|-------------------|-----------------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | ст | degree | Comment |
| 1 | ! | 30.0000 | 49.22 | -15.15 | 34.07 | 40.00 | -5.93 | QP | | | |
| 2 | | 32.9100 | 46.88 | -14.46 | 32.42 | 40.00 | -7.58 | QP | | | |
| 3 | * | 47.4600 | 49.59 | -14.38 | 35.21 | 40.00 | -4.79 | QP | | | |
| 4 | | 71.7100 | 51.66 | -22.31 | 29.35 | 40.00 | -10.65 | QP | | | |
| 5 | ! | 83.8155 | 56.94 | -21.97 | 34.97 | 40.00 | -5.03 | QP | *** | | |
| 6 | | 95.9600 | 53.13 | -19.83 | 33.30 | 43.50 | -10.20 | QP | | | |

Power: AC 120V/60Hz

*:Maximum data x:Over limit !:over margin

File :DL-210\Data :#74



Products

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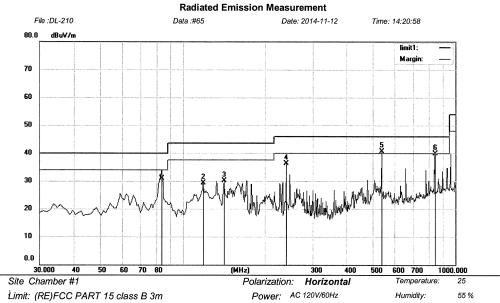
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Humidity:

Operator: QIU

55 %



Limit: (RE)FCC PART 15 class B 3m

EUT: Label and Barcode Printer

M/N: DL-210 Mode:Printing

Note: Parallel interface connection

| No. | Mk. | . Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | Antenna Height | Table Degree | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|-------------------|-----------------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 83.3500 | 53.02 | -22.05 | 30.97 | 40.00 | -9.03 | QP | | | |
| 2 | | 119.2400 | 46.22 | -17.01 | 29.21 | 43.50 | -14.29 | QP | | | |
| 3 | | 142.5200 | 47.28 | -17.22 | 30.06 | 43.50 | -13.44 | QP | | | |
| 4 | | 239.5200 | 51.98 | -15.68 | 36.30 | 46.00 | -9.70 | QP | | | |
| 5 | * | 540.2200 | 50.03 | -9.31 | 40.72 | 46.00 | -5.28 | QP | | | |
| 6 | | 839.9500 | 44.53 | -4.56 | 39.97 | 46.00 | -6.03 | QP | | | |

*:Maximum data x:Over limit !:over margin

File :DL-210\Data :#65



Products

Prüfbericht - Nr.:

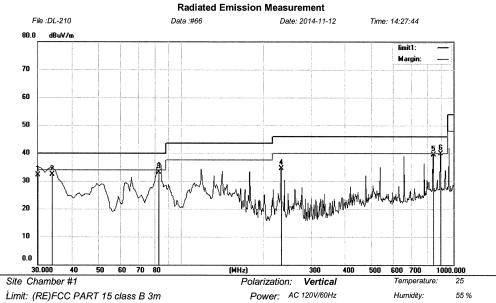
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Limit: (RE)FCC PART 15 class B 3m

EUT: Label and Barcode Printer

M/N: DL-210 Mode:Printing

Note: Parallel interface connection

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | Antenna Height | Table Degree | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|-------------------|-----------------|---------------------------------------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 30.0000 | 47.25 | -15.15 | 32.10 | 40.00 | -7.90 | QP | | | |
| 2 | | 33.8800 | 46.70 | -14.31 | 32.39 | 40.00 | -7.61 | QP | | | |
| 3 | | 82.6482 | 55.20 | -22.13 | 33.07 | 40.00 | -6.93 | QP | ACC 22 - C24 | | , |
| 4 | | 231.7600 | 50.49 | -15.93 | 34.56 | 46.00 | -11.44 | QP | | | |
| 5 | | 839.9500 | 44.29 | -4.69 | 39.60 | 46.00 | -6.40 | QP | | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| 6 | * | 892.3300 | 43.81 | -3.81 | 40.00 | 46.00 | -6.00 | QP | | | |

*:Maximum data x:Over limit !:over margin

File :DL-210\Data :#66

Page: 1

Operator: QIU

Humidity:

55 %



Products

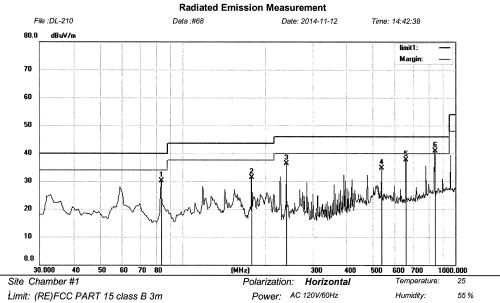
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Limit: (RE)FCC PART 15 class B 3m

EUT: Label and Barcode Printer

M/N: DL-210 Mode: Printing

Note: Serial interface connection

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | Antenna Height | Table Degree | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|---|-----------------|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | ст | degree | Comment |
| 1 | | 83.3500 | 52.24 | -22.05 | 30.19 | 40.00 | -9.81 | QP | | | |
| 2 | | 179.3800 | 50.13 | -18.81 | 31.32 | 43.50 | -12.18 | QP | | | *************************************** |
| 3 | | 239.5200 | 51.97 | -15.68 | 36.29 | 46.00 | -9.71 | QP | | | |
| 4 | | 540.2200 | 44.00 | -9.31 | 34.69 | 46.00 | -11.31 | QP | *************************************** | - | |
| 5 | | 660.5000 | 45.51 | -7.80 | 37.71 | 46.00 | -8.29 | QP | | | |
| 6 | * | 840.9200 | 45.41 | -4.57 | 40.84 | 46.00 | -5.16 | QP | | | |

Operator: QIU

*:Maximum data x:Over limit !:over margin

File :DL-210\Data :#68



Products

Prüfbericht - Nr.:

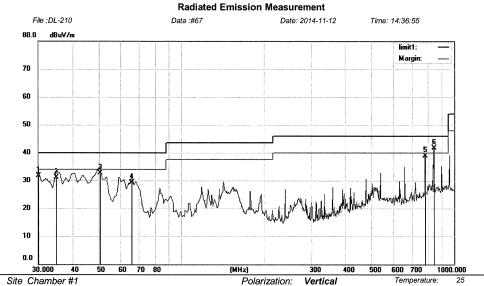
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Site Chamber #1

Limit: (RE)FCC PART 15 class B 3m

EUT: Label and Barcode Printer

M/N: DL-210 Mode:Printing

Note: Serial interface connection

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | Antenna Height | Table Degree | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|-------------------|-----------------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | ст | degree | Comment |
| 1 | | 30.0000 | 46.85 | -15.15 | 31.70 | 40.00 | -8.30 | QP | . 2000 | | |
| 2 | | 34.8821 | 45.23 | -14.18 | 31.05 | 40.00 | -8.95 | QP | | | |
| 3 | | 50.3700 | 48.28 | -15.58 | 32.70 | 40.00 | -7.30 | QP | | | |
| 4 | | 65.8900 | 50.41 | -21.07 | 29.34 | 40.00 | -10.66 | QP | | | |
| 5 | | 780.7800 | 44.64 | -5.64 | 39.00 | 46.00 | -7.00 | QP | | | |
| 6 | * | 839.9500 | 46.49 | -4.69 | 41.80 | 46.00 | -4.20 | QP | | | |

Power: AC 120V/60Hz

*:Maximum data x:Over limit !:over margin

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Page: 1

Operator: QIU

Humidity:

55 %



Products

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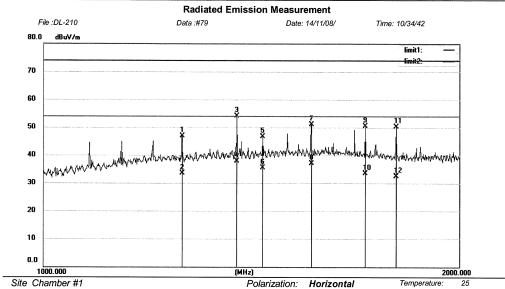
Dongguan EMTEK Co.,Ltd. No.281,Guantai Road, Nancheng District,Dongguan,Guangdong 523077 P.R. China www.emtek.com.cn Tel:+86-769-2280 7078 Fax:+86-769-2280 7079



Humidity:

Operator: QIU

55 %



Power: AC 120V/60Hz

Limit: (RE)FCC PART 15 class B 3m EUT: Label and Barcode Printer

M/N: DL-210 Mode:Printing

Note: USB interface connection

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | Antenna Height | Table Degree | |
|-----|-----|---------|------------------|-------------------|------------------|--------|--------|----------|-------------------|-----------------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | 1 | 259.630 | 58.61 | -11.69 | 46.92 | 74.00 | -27.08 | peak | | | |
| 2 | 1 | 259.630 | 45.21 | -11.69 | 33.52 | 54.00 | -20.48 | AVG | | | |
| 3 | 1 | 380.317 | 65.81 | -11.67 | 54.14 | 74.00 | -19.86 | peak | | | |
| 4 | * 1 | 380.317 | 49.65 | -11.67 | 37.98 | 54.00 | -16.02 | AVG | | | |
| 5 | 1 | 439.931 | 58.34 | -11.63 | 46.71 | 74.00 | -27.29 | peak | | | |
| 6 | 1 | 439.931 | 47.20 | -11.63 | 35.57 | 54.00 | -18.43 | AVG | | | |
| 7 | 1 | 560.491 | 62.59 | -11.55 | 51.04 | 74.00 | -22.96 | peak | | | |
| 8 | 1 | 560.491 | 48.56 | -11.55 | 37.01 | 54.00 | -16.99 | AVG | | | |
| 9 | 1 | 711.190 | 62.92 | -12.41 | 50.51 | 74.00 | -23.49 | peak | | | |
| 10 | 1 | 711.190 | 46.01 | -12.41 | 33.60 | 54.00 | -20.40 | AVG | | | |
| 11 | 1 | 800.004 | 63.43 | -13.11 | 50.32 | 74.00 | -23.68 | peak | | | |
| 12 | 1 | 800.004 | 45.66 | -13.11 | 32.55 | 54.00 | -21.45 | AVG | | | |

*:Maximum data x:Over limit !:over margin

File :DL-210\Data :#79



Products

Prüfbericht - Nr.:

Test Report No.

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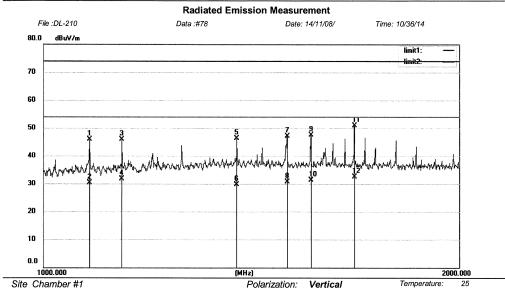
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Humidity:

55 %



Power: AC 120V/60Hz

Limit: (RE)FCC PART 15 class B 3m EUT: Label and Barcode Printer

M/N: DL-210 Mode:Printing

Note: USB interface connection

| No. | Mk. | . Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | Antenna Height | Table Degree | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|---|-----------------|--|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | ст | degree | Comment |
| 1 | | 1079.976 | 61.30 | -15.38 | 45.92 | 74.00 | -28.08 | peak | mtermover control : | | |
| 2 | | 1079.976 | 45.66 | -15.38 | 30.28 | 54.00 | -23.72 | AVG | | | |
| 3 | | 1139.973 | 61.51 | -15.54 | 45.97 | 74.00 | -28.03 | peak | | | |
| 4 | | 1139.973 | 47.20 | -15.54 | 31.66 | 54.00 | -22.34 | AVG | | | |
| 5 | | 1380.317 | 61.97 | -15.67 | 46.30 | 74.00 | -27.70 | peak | | | |
| 6 | | 1380.317 | 45.33 | -15.67 | 29.66 | 54.00 | -24.34 | AVG | *************************************** | | |
| 7 | | 1500.039 | 63.28 | -16.09 | 47.19 | 74.00 | -26.81 | peak | | | |
| 8 | | 1500.039 | 46.87 | -16.09 | 30.78 | 54.00 | -23.22 | AVG | | | NAME OF THE OWNER O |
| 9 | | 1560.491 | 63.90 | -16.35 | 47.55 | 74.00 | -26.45 | peak | 4-4 | | The second secon |
| 10 | | 1560.491 | 47.58 | -16.35 | 31.23 | 54.00 | -22.77 | AVG | 2.7 | | |
| 11 | | 1680.628 | 67.61 | -16.76 | 50.85 | 74.00 | -23.15 | peak | | | |
| 12 | * | 1680.628 | 49.33 | -16.76 | 32.57 | 54.00 | -21.43 | AVG | 00000 | | |

*:Maximum data x:Over limit !:over margin Operator: QIU

File :DL-210\Data :#78



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Test Report No.

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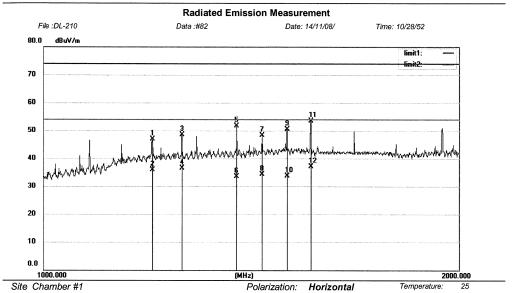
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Humidity:

55 %



Power: AC 120V/60Hz

Limit: (RE)FCC PART 15 class B 3m

EUT: Label and Barcode Printer

M/N: DL-210 Mode:Printing

Note: Parallel interface connection

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | Antenna Height | Table Degree | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|-------------------|--|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 1199.971 | 58.60 | -11.71 | 46.89 | 74.00 | -27.11 | peak | | | |
| 2 | , | 1199.971 | 47.65 | -11.71 | 35.94 | 54.00 | -18.06 | AVG | | | 10.1.10.20.20.20.20.20.20.20.20.20.20.20.20.20 |
| 3 | | 1259.630 | 60.24 | -11.69 | 48.55 | 74.00 | -25.45 | peak | | | |
| 4 | | 1259.630 | 48.16 | -11.69 | 36.47 | 54.00 | -17.53 | AVG | | | |
| 5 | • | 1380.317 | 63.38 | -11.67 | 51.71 | 74.00 | -22.29 | peak | | | ar a y v march America to de describerates anno |
| 6 | • | 1380.317 | 45.10 | -11.67 | 33.43 | 54.00 | -20.57 | AVG | | | |
| 7 | | 1439.931 | 60.03 | -11.63 | 48.40 | 74.00 | -25.60 | peak | | | |
| 8 | • | 1439.931 | 46.03 | -11.63 | 34.40 | 54.00 | -19.60 | AVG | | | |
| 9 | | 1500.039 | 62.16 | -11.59 | 50.57 | 74.00 | -23.43 | peak | | | |
| 10 | | 1500.039 | 45.37 | -11.59 | 33.78 | 54.00 | -20.22 | AVG | | STATE OF THE STATE | 5 14 S C 7797 HAS C 000 S C |
| 11 | • | 1560.491 | 65.06 | -11.55 | 53.51 | 74.00 | -20.49 | peak | | | |
| 12 | * . | 1560.491 | 48.59 | -11.55 | 37.04 | 54.00 | -16.96 | AVG | | | |

Operator: QIU

*:Maximum data x:Over limit !:over margin

File :DL-210\Data :#82



Products

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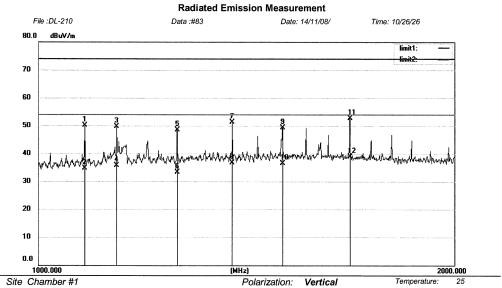
Test Report No.

Dongguan EMTEK Co.,Ltd. No 281,Guantai Road, Nancheng District,Dongguan,Guangdong 528077 P.R. China www.emtek.com.cn Tel;+86-769-2280 7078 Fax;+86-769-2280 7079



Humidity:

55 %



Power: AC 120V/60Hz

Limit: (RE)FCC PART 15 class B 3m

EUT: Label and Barcode Printer

M/N: DL-210 Mode:Printing

Note: Parallel interface connection

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | Antenna Height | Table Degree | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|---|---|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 1079.976 | 65.52 | -15.38 | 50.14 | 74.00 | -23.86 | peak | | | |
| 2 | | 1079.976 | 50.00 | -15.38 | 34.62 | 54.00 | -19.38 | AVG | No. 100, California (California (California)) | | |
| 3 | | 1139.973 | 65.27 | -15.54 | 49.73 | 74.00 | -24.27 | peak | 10000 | | |
| 4 | | 1139.973 | 51.20 | -15.54 | 35.66 | 54.00 | -18.34 | AVG | | | |
| 5 | | 1259.630 | 64.11 | -15.69 | 48.42 | 74.00 | -25.58 | peak | | | |
| 6 | | 1259.630 | 49.00 | -15.69 | 33.31 | 54.00 | -20.69 | AVG | | *************************************** | |
| 7 | | 1380.317 | 66.89 | -15.67 | 51.22 | 74.00 | -22.78 | peak | | | |
| 8 | | 1380.317 | 52.33 | -15.67 | 36.66 | 54.00 | -17.34 | AVG | | | |
| 9 | | 1500.039 | 65.35 | -16.09 | 49.26 | 74.00 | -24.74 | peak | | | |
| 10 | | 1500.039 | 52.60 | -16.09 | 36.51 | 54.00 | -17.49 | AVG | | | |
| 11 | | 1680.628 | 69.41 | -16.76 | 52.65 | 74.00 | -21.35 | peak | 1000 | | |
| 12 | * | 1680.628 | 55.57 | -16.76 | 38.81 | 54.00 | -15.19 | AVG | | | 4 / / |

*:Maximum data x:Over limit !:over margin Operator: QIU

File :DL-210\Data :#83



Products

Prüfbericht - Nr.:

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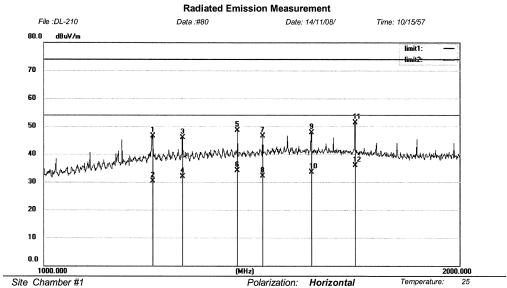
Dongguan EMTEK Cc.,Ltd. No 281,Guantai Road, Nancheng District,Dongguan,Guangdong 523077 P.R. China www.emtek.com.cn Tel:+86-769-2280 7078 Fax:+86-769-2280 7079



Humidity:

Operator: QIU

55 %



Power: AC 120V/60Hz

Limit: (RE)FCC PART 15 class B 3m EUT: Label and Barcode Printer

M/N: DL-210 Mode:Printing

Note: Serial interface connection

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | Antenna Height | Table Degree | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|-------------------|---|---------------------------------------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | ст | degree | Comment |
| 1 | | 1199.140 | 58.22 | -11.73 | 46.49 | 74.00 | -27.51 | peak | | | |
| 2 | | 1199.140 | 42.08 | -11.73 | 30.35 | 54.00 | -23.65 | AVG | | | |
| 3 | | 1259.630 | 57.53 | -11.69 | 45.84 | 74.00 | -28.16 | peak | | | · · · · · · · · · · · · · · · · · · · |
| 4 | | 1259.630 | 43.54 | -11.69 | 31.85 | 54.00 | -22.15 | AVG | | | |
| 5 | | 1380.317 | 60.09 | -11.67 | 48.42 | 74.00 | -25.58 | peak | | | VAV.0002-1 |
| 6 | | 1380.317 | 45.68 | -11.67 | 34.01 | 54.00 | -19.99 | AVG | | | |
| 7 | | 1439.931 | 58.09 | -11.63 | 46.46 | 74.00 | -27.54 | peak | | *************************************** | |
| 8 | | 1439.931 | 43.71 | -11.63 | 32.08 | 54.00 | -21.92 | AVG | | | |
| 9 | | 1560.491 | 59.17 | -11.55 | 47.62 | 74.00 | -26.38 | peak | | | |
| 10 | | 1560.491 | 45.00 | -11.55 | 33.45 | 54.00 | -20.55 | AVG | 2 h 6 h 6 h | KICK. | |
| 11 | | 1680.628 | 63.55 | -12.16 | 51.39 | 74.00 | -22.61 | peak | | - | |
| 12 | * | 1680.628 | 48.10 | -12.16 | 35.94 | 54.00 | -18.06 | AVG | | | |

*:Maximum data x:Over limit !:over margin

File :DL-210\Data :#80



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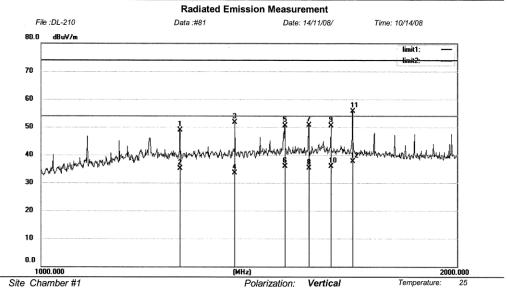
Dongguan EMTEK Co., Ltd. No 281, Guantai Road, Nancheng District, Dongguan, Guangdong 523077 P.R. China www.emtek.com.cn Tel:+86-769-2280 7078 Fax:+86-769-2280 7079



Humidity:

Operator: QIU

55 %



Power: AC 120V/60Hz

Limit: (RE)FCC PART 15 class B 3m

EUT: Label and Barcode Printer

M/N: DL-210 Mode: Printing

Note: Serial interface connection

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | Antenna Height | Table Degree | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|-------------------|-----------------|-------------------------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 1259.630 | 60.55 | -11.69 | 48.86 | 74.00 | -25.14 | peak | | | |
| 2 | | 1259.630 | 46.87 | -11.69 | 35.18 | 54.00 | -18.82 | AVG | | | |
| 3 | | 1380.317 | 63.29 | -11.67 | 51.62 | 74.00 | -22.38 | peak | - | | 75 1 Commondated Common |
| 4 | | 1380.317 | 45.16 | -11.67 | 33.49 | 54.00 | -20.51 | AVG | | | |
| 5 | | 1500.039 | 62.09 | -11.59 | 50.50 | 74.00 | -23.50 | peak | | | |
| 6 | | 1500.039 | 47.55 | -11.59 | 35.96 | 54.00 | -18.04 | AVG | | | |
| 7 | | 1560.491 | 62.17 | -11.55 | 50.62 | 74.00 | -23.38 | peak | - | | |
| 8 | | 1560.491 | 46.87 | -11.55 | 35.32 | 54.00 | -18.68 | AVG | | | |
| 9 | | 1620.007 | 62.14 | -11.69 | 50.45 | 74.00 | -23.55 | peak | | | |
| 10 | | 1620.007 | 47.51 | -11.69 | 35.82 | 54.00 | -18.18 | AVG | | | 1,000,000,000 |
| 11 | | 1680.628 | 67.90 | -12.16 | 55.74 | 74.00 | -18.26 | peak | | | |
| 12 | * . | 1680.628 | 49.95 | -12.16 | 37.79 | 54.00 | -16.21 | AVG | | | |

*:Maximum data x:Over limit !:over margin

File :DL-210\Data :#81



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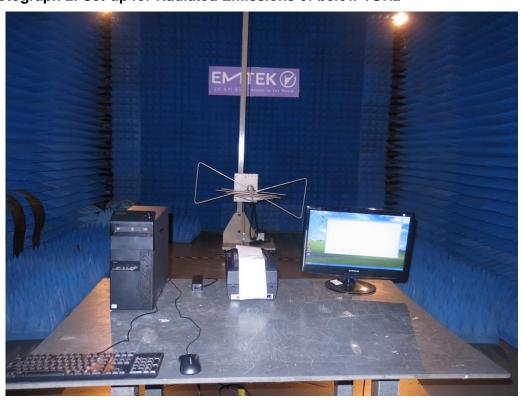
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6. Photographs of the Test Set-Up

Photograph 1: Set-up for Conducted Emissions



Photograph 2: Set-up for Radiated Emissions of below 1GHz





Products

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Photograph 3: Set-up for Radiated Emissions of 1 - 2GHz





Products

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|--|---|
| 7. List of Tables | |
| Table 1: List of Test and Measurement Equipment | |
| 8. List of Photographs | |
| Photograph 1: Set-up for Conducted Emissions | 30 |
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