Curtis-Straus Test Report

| Report No | EG0438-1 |
|----------------------------------|---|
| Client | Maximum Inc. |
| Phone Fax | 508-995-2200 none |
| FRN | 0005833959 |
| | |
| | |
| Models | WAIR |
| FCC ID | KLN313A |
| Equipment Type Equipment Code | Low Power Communications Device Transmitter DXX |
| Results | As detailed within this report |
| Prepared by | Josh LeBlanc – Test Engineer |
| Authorized by | Michael Buchholz – EMC Manager |
| Issue Date | 4/24/06 |
| Conditions of issue | This Test Report is issued subject to the conditions stated in 'terms and conditions' section of this |

Curtis-Straus LLC is accredited by the American Association for Laboratory Accreditation for the specific scope of accreditation under Certificate Number 1627-01. This report may contain data which is not covered by the A2LA accreditation.



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Summary

This report is an application for certification of a transmitter operating pursuant to 47 CFR 15.249. The product covered by this report is the WAIR. It is a low power communications transmitter and receiver operating at 916.5MHz.

Test Methodology

Radiated emissions testing was performed according to the procedures specified in ANSI C63.4 (2003). The EUT was maximized around one axis, as the EUT can only be installed in one position. The EUT has an integrated internal antenna which can not be maximized separately. The EUT is battery powered with no provision to be connected to the AC mains. The standard test voltage was 3V dc provided by two AA alkaline batteries. The ambient environmental conditions were as follows:

| Date | Temperature | Humidity |
|---------|-------------|----------|
| 4/21/06 | 23.9°C | 22% |

| Frequency range investigated: | 30 MHz- 10 GHz |
|-------------------------------|----------------|
|-------------------------------|----------------|

| Measurement Distance: | | |
|------------------------------------|--------------|----------|
| Frequency (MHz) | Distance (m) | Comments |
| Fundamental 916.5MHz | 3 m | Radiated |
| Spurious & Harmonics 30 – 10000MHz | 3 m | Radiated |

All readings are peak unless otherwise noted. For frequencies below 1000MHz, a RBW of120kHz and a VBW of 300kHz were used. For frequencies above 1000MHz, a RBW of 1MHz and a VBW of 3MHz were used.

EUT Configuration

EUT Configuration

Work Order: G0438

Company: Maximum Inc.

Company Address: 30 Samuel Barnet Blvd.

New Bedford, Ma 02745

Contact: Paul Hutchinson Person Present: Paul Hutchinson

MN SN

EUT: WAIR Test Sample 1

EUT Description: Wireless air temperature transmitter

EUT Max Frequency: 916.5MHz

Support Equipment: MN SN

none -- --

EUT Cables: Qty Shielded? Length Ferrites

none -- -- -- -- --

Unpopulated EUT Ports: Qty Reason

none -- --

Software / Operating Mode Description:

The EUT was transmitting continuously for testing at the fundamental. During spurious emissions testing the EUT was transmitting every four seconds and receiving in between.

Statement of Conformity

The WAIR has been found to conform to the following parts of the 47 CFR as detailed below:

| 47 CFR Part # | Comments |
|------------------|---|
| 15.15(b) | The product contains no user accessible controls that increase transmission power above allowable levels. |
| 15.19 | The label is shown in the label exhibit. |
| 15.21 | Information to the user is shown in the instruction manual exhibit. |
| 15.27 | No special accessories are required for compliance. |
| 15.31(e) | A fresh set of batteries was used. |
| 15.203 | The device utilizes an integral antenna. |
| 15.204 | The antenna is not accessible to the user and |
| | therefore cannot be easily removed. |
| 15.205 | The fundamental is not in a restricted band and the |
| 15.209 | spurious emissions in the restricted bands comply with |
| | the general emission limits of 15.209. |
| 15.207 | The EUT is battery powered only. |
| 15.249(a) | Fundamental and Harmonic emissions meet the |
| | limits specified in this section. |
| 15.249(b) | EUT does not operate in the 24.0-24.25GHz band. |
| 15.249(e) | The EUT meets the general radiated emissions |
| | limits of section 15.209. |
| 15.249(e) | The EUT meets the peak limit of this section. |

Modifications required for compliance:

In order to meet the fundamental emission limit, the resistor R15 was increased to 9.1kOhms.

Spurious Radiated Emissions

Sections 15.249(a), (d) & (e), 15.205, 15.209

| Date: | 21-Apr-06 | | | Company: | Maximu | m Inc. | | Work Order: G0438 | | | | |
|---|--------------|----------|----------------|----------------|--------|----------|-----------|-------------------------|-------------|-------------|------------|-----------|
| Engineer: | Josh LeBland | ; | EUT Desc: WAIR | | | | | | | | | |
| Frequency Range: 30-1000MHz Measurement Distance: 3 m | | | | | | | | | | | | |
| Notes: | TX/RX | | | | | | | | EUT | Γ Max Freq: | 916.5MHz | |
| Antenna | | | Preamp | Antenna | Cable | Adjusted | | | | F | CC Class I | В |
| Polarization | Frequency | Reading | Factor | Factor | Factor | Reading | Limit | Margin | Result | Limit | Margin | Result |
| (H / V) | (MHz) | (dBµV) | (dB) | (dB/m) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | (Pass/Fail) | (dBµV/m) | (dB) | (Pass/Fai |
| Hbb | 244.0 | 28.7 | 22.2 | 12.3 | 1.8 | 20.6 | | | | 46.0 | -25.4 | Pass |
| Hbb | 245.13 | 28.4 | 22.2 | 12.3 | 1.8 | 20.3 | | | | 46.0 | -25.7 | Pass |
| Hbb | 246.5 | 29.5 | 22.2 | 12.3 | 1.8 | 21.4 | | | | 46.0 | -24.6 | Pass |
| Hbb | 247.9 | 27.9 | 22.2 | 12.2 | 1.9 | 19.8 | | | | 46.0 | -26.2 | Pass |
| Hbb | 249.3 | 28.6 | 22.2 | 12.2 | 1.9 | 20.5 | | | | 46.0 | -25.5 | Pass |
| Hbb | 250.6 | 28.2 | 22.2 | 12.3 | 1.9 | 20.2 | | | | 46.0 | -25.8 | Pass |
| Table | e Result: | Pass | by | -24.6 | dB | | | | Wo | rst Freq: | 246.5 | MHz |
| Test Site: | "T" | Pre-Amp: | Rlue | Cable: EMIR-08 | | | Analyzer: | Blue Antenna: Red-White | | | | |

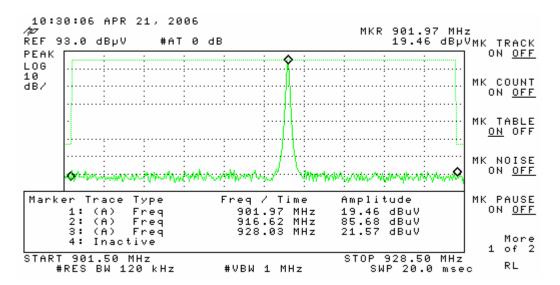
| Date: 21-Apr-06 Company: Maximum Inc. Work Order: G0438 | | | | | | | | | | | | C0439 |
|---|-----------------------------------|---------|--------|---------|--------|----------|----------|--------|-------------|-------------|------------|-------------|
| | | | • • | | | | | | | | | G0436 |
| Engineer: | neer: Josh LeBlanc EUT Desc: WAIR | | | | | | | | | | | |
| Frequency Range: 1-10GHz Measurement Distance: 3 m | | | | | | | | | | | | |
| Notes: | TX mode | | | | | | | | EU | Γ Max Freq: | 916.5MHz | |
| Antenna | | | Preamp | Antenna | Cable | Adjusted | | | | ı | CC Class I | В |
| Polarization | Frequency | Reading | Factor | Factor | Factor | Reading | Limit | Margin | Result | Limit | Margin | Result |
| (H / V) | (MHz) | (dBµV) | (dB) | (dB/m) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | (Pass/Fail) | (dBµV/m) | (dB) | (Pass/Fail) |
| Vavg | 1833.0 | 32.3 | 18.8 | 28.6 | 2.2 | 44.3 | | | | 54.0 | -9.7 | Pass |
| | 1833.0 | 36.5 | 18.8 | 28.6 | 2.2 | 48.5 | | | | 74.0 | -25.5 | Pass |
| Vpk | Table Result: Pass by -9.7 dB | | | | | | 147 | | 4000.0 | NAL I- | | |
| ' | e Result: | Pass | by | -9.7 | dB | | | | W | rst Freq: | 1833.0 | IVIHZ |

| Date: 21-Apr-06 Company: Maximum Inc. | | | | | | | | | | | Work Order: G0438 | | | |
|---------------------------------------|-----------|------------|---------|---------|--------|-----------|------------------------|--------|---------------|--------------|-------------------|------------|--|--|
| | • | | | • • | | | | | | | | G0430 | | |
| Engineer: Josh LeBlanc EUT Desc: WAIR | | | | | | | | | | | | | | |
| | Freque | ncy Range: | 1-10GHz | | | | | 1 | Measuremer | nt Distance: | 3 m | | | |
| Notes: RX mode | | | | | | | EUT Max Freq: 916.5MHz | | | | | | | |
| Antenna | | | Preamp | Antenna | Cable | Adjusted | | | | | FCC Class I | 3 | | |
| | Frequency | Reading | Factor | Factor | Factor | Reading | Limit | Margin | Result | Limit | Margin | Result | | |
| Polarization | | | | | (100) | (-ID) //) | (dBµV/m) | (dB) | (Pass/Fail) | (dBµV/m) | (dB) | (Pass/Fai | | |
| Polarization (H / V) | (MHz) | (dBµV) | (dB) | (dB/m) | (dB) | (dBµV/m) | (ubµv/III) | (ub) | (Fass/Fall) | (ubp v/III) | (ub) | (F ass/F a | | |
| (H / V) | | , | . , | (dB/m) | (dB) | (dBµV/m) | (ивµ v/III) | | (F 855/1 8II) | (ubµv/iii) | (ub) | (F d55/F d | | |

Sample Calculation:

Adjusted Reading = Reading - Pre Amp_(factor) + Antenna_(factor) + Cable_(factor)

Bandedge Plot



Conclusion: As can be seen on the plot above, the EUT meets the spurious emissions limits at the bandedges.

Fundamental Field Strength

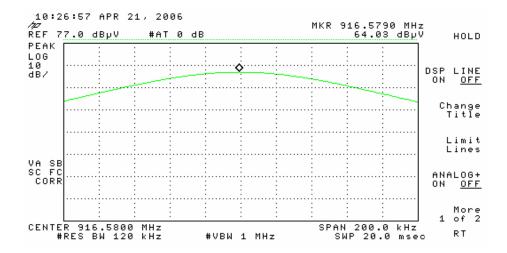
Section 15.249(a)

| Fundam | Fundamental Radiated Emission Curtis-Straus LLG | | | | | | | | | | | aus LLC |
|---------------------------------------|---|----------|--------|---------|---------|----------|-----------|--------|-------------|----------|--------------|-------------|
| Date: | Date: 21-Apr-06 Company: Maximum Inc. Work Order: G0438 | | | | | | | | | | G0438 | |
| Engineer: Josh LeBlanc EUT Desc: WAIR | | | | | | | | | | | | |
| | Frequency Range: 916.5MHz Measurement Distance: 3 m | | | | | | | | | | | |
| Notes: | | | | | | | | | | | | |
| Antenna | | | Preamp | Antenna | Cable | Adjusted | | | | F | CC part 15.2 | 49 |
| Polarization | Frequency | Reading | Factor | Factor | Factor | Reading | Limit | Margin | Result | Limit | Margin | Result |
| (H / V) | (MHz) | (dBµV) | (dB) | (dB/m) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | (Pass/Fail) | (dBµV/m) | (dB) | (Pass/Fail) |
| Vpk | 916.579 | 64.0 | 0.0 | 22.9 | 4.7 | 91.6 | | | | 94.0 | -2.4 | Pass |
| Test Site: | "T" | Pre-Amp: | none | Cable: | EMIR-08 | 3 | Analyzer: | Blue | | Antenna: | Red-White | |

Sample Calculation:

Adjusted Reading = Reading - Pre Amp_(factor) + Antenna_(factor) + Cable_(factor)

Sample Plot



Test Equipment Used

| | | | | | | | | | F | REV. 11-A | PR-2006 | |
|------------------------------------|--------------|----------|---------------|--------|--------------------|-----------|----------|---------|----------|-------------|---------------------|--|
| SPECTRUM ANALYZERS / RECEIVERS | Ran | GE | MN | MF | R | SN | Asse | т С | ΑT | Calibr | ATION DUE | |
| BLUE | 9kHz-1. | | 8591E | E HI | P 3223 | 3A00227 | 0007 | '0 I | | 14-DEC-2006 | | |
| BROWN (RENTAL) | 9kH 26.50 | _ | z E4407B | | P SG4 | 4210511 | Rent | al 1 | l | 05-JAN-2007 | | |
| OPEN AREA TEST SITE (C | DATS) | FCC (| CODE | IC Co | DE VO | CCI CODE | Сат | | CAL | IBRATIC | N DUE | |
| SITE T | 93448 | | 48 | | | R-905 | | | 14 | 14-AUG-2007 | | |
| | | | | | | | | | | | | |
| PREAMPS / ATTENUATORS / FILTERS | Ran | ige N | | ΛN | MFR | SN | F | ASSET (| | . C | ALIBRATION DUE | |
| BLACK | 0.01-20 | | Hz ZFL-1000-L | | C-S | N/A | (| 0799 | Ш | 25 | -AUG-2006 | |
| YELLOW-BLACK | 1-20 | GHz | SMC | C-12A | C-S | 535055 | 535055 0 | | 00801 II | | 25-AUG-2006 | |
| | D | | | | | | | ^ | | | | |
| ANTENNAS | RANGE | | MN | | MFR | MFR SN | | ASSET | Ca T | CA | LIBRATION DUE | |
| RED-WHITE BILOG | 30-2000M | Hz | JB1 | | SUNOL | A091604 | 4-1 | 01105 | Ш | 11- | APR-2008 | |
| BLACK HORN | 1-18GH | <u>z</u> | 3115 | | EMCO | 9703-5148 | | 00056 | l | 17- | JUN-2007 | |
| | | | | | | | | A 0.0 | | C+= | CALIBRAT | |
| METEOROLOGICAL ME | TERS | | MN | | MFR | 9 | SN | Ass | SE I | Сат | CALIBRAT ION DUE | |
| TEMP./HUMIDITY/ATM. PRI GAUGE | ESSURE | 7400 |) PERCEPT | ION II | Davis | ١ | N/A | 009 | 965 | II | 08-FEB- 2007 | |
| TEMPERATURE /HUMIDITY | GAUGE | | THG-912 | 2 | HUGEF | R 400 | 0562 | 00789 | | I | 01-FEB- 2007 | |
| WEATHER CLOCK (PRESSUI | RE ONLY) | | BA928 | | OREGOI SCIENTIF | (:3 | 166-1 | 800 | 331 | I | 02-FEB- 2007 | |

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.

FCC ID: KLN313A REPORT:EG0438-1

Terms and Conditions

Paragraph 1. SERVICES. LABORATORY will:

Use the degree of care and skill ordinarily exercised by and consistent with the standards of the profession.

Perform all technical services in substantial accordance with the generally accepted laboratory principles and practices.

Retain all pertinent records relating to the services performed for a period of three (5) years following submission of the report describing such services, during which period the records will be made available to CLIENT upon reasonable request. 1.3

Paragraph 2. CLIENT'S RESPONSIBILITIES. CLIENT or his authorized representative will:

Provide LABORATORY with all plans, schematics, specifications, addenda, change orders, drawings and other information for the proper performance of technical services.

Designate a person to act as CLIENT's representative with respect to LABORATORY's services to be performed on behalf of the CLIENT; such person or firm to have complete authority to transmit instructions, receive information and data, interpret and define CLIENT's policies and decisions with respect to the LABORATORY's work on behalf of the CLIENT and to order, at CLIENT's expense, such technical services as may be required.

Designate a person who is authorized to receive copies of LABORATORY's reports.

Undertake the following:

(a) Secure and deliver to LABORATORY, without cost to LABORATORY, preliminary representative samples of the equipment proposed to require technical services, together with any relevant data.

(b) Furnish such labor and equipment needed by LABORATORY to handle samples at the LABORATORY and to facilitate the specified technical services.

Paragraph 3. GENERAL CONDITIONS:

LABORATORY, by the performance of services covered hereunder, does not in any way assume any of those duties or responsibilities customarily vested in the CLIENT, its employees, or any other party, agency or authority.

LABORATORY shall not be responsible for acts of omissions of any other party or parties involved in the design, manufacture or maintenance of the equipment or the failure of any employee, contractor or subcontractor to undertake any aspect of equipment's design, manufacture or maintenance.

LABORATORY is not authorized to revoke, alter, release, enlarge or release any requirement of the equipment's design, manufacture or

- maintenance unless specifically authorized by CLIENT or his authorized representative.

 THE ONLY WARRANTY MADE BY LABORATORY IN CONNECTION WITH ITS SERVICE PERFORMED HEREUNDER IS THAT IT WILL USE THAT DEGREE OF CARE AND SKILL AS SET FORTH IN PARAGRAPH ABOVE. NO OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE OR INTENDED FOR SERVICES PROVIDED HEREUNDER.
- Where the LABORATORY indicates that additional testing is advisable to obtain more valid or useful data, and where such testing has not 3.5 been authorized, CLIENT agrees to view such test reports as inconclusive and preliminary.
- The LABORATORY will supply technical service and prepare a report based solely on the sample submitted to the LABORATORY by the CLIENT. The CLIENT understands that application of the data to other devices is highly speculative and should be applied with extreme
- caution.
 The LABORATORY agrees to exercise ordinary care in receiving, preserving and shipping (F.O.B. Littleton, MA) any sample to be tested, 3.7 but assumes no responsibility for damages, either direct or consequential, which arise from loss, damage or destruction of the samples due to the act of examination, modification or testing, or technical services or circumstances beyond LABORATORY's control.

 The LABORATORY will hold samples for thirty (30) days after tests are completed, or until the CLIENT's outstanding debts to the
- LABORATORY are satisfied, whichever is later.

5.9 The CLIENT recognizes that generally accepted error variances apply and agrees to consider such error variances in its use of test data.

5.10 It is agreed between LABORATORY and CLIENT that no distribution of any tests, reports or analysis other than that described below shall be made to any third party without the prior written consent of both parties unless such distribution is mandated by operation of law. It is agreed that tests, reports, or analysis results may be disclosed to third party auditors of the laboratory at the laboratory facility in the course of accreditation maintenance audits. No reference to reports or technical services of the LABORATORY shall be made in any advertising or promotional literature without the express written permission of the LABORATORY.

3.11 The CLIENT acknowledges that all employees of LABORATORY operate under employment contracts with the LABORATORY and CLIENT agrees not to solicit employment of such employees or to solicit information related to other clients from said employees.

3.12 In recognition of the relative risks and benefits of the project to both CLIENT and LABORATORY, the risks have been allocated such that the CLIENT agrees, to the fullest extent permitted by law, to limit the liability of the LABORATORY to the CLIENT for any and all claims, losses, costs, damages of any nature whatsoever or claims expenses from any cause or causes, including attorneys' fees and costs and expert witness fees and costs, so that the total aggregate liability of the LABORATORY to the CLIENT shall not exceed \$100,000, or the LABORATORY'S total fee for services rendered on this project, whichever is greater. It is intended that this limitation apply to any and all liability or cause of action however alleged or arising, unless otherwise prohibited by law.

Paragraph 4. INSURANCE:

- LABORATORY shall secure and maintain throughout the full period of the services provided to the CLIENT adequate insurance to protect it from claims under applicable Workmen's Compensation Acts and also shall maintain one million dollars of general liability coverage to cover claims for bodily injury, death or property damage as may arise from the performance of its services.
- The CLIENT hereby warrants that it has sufficient insurance to protect its employees adequately under applicable Workmen's Compensation Acts and for bodily injury, death, or property damage.
- No insurance of whatever kind or type, which may be carried by either party is to be considered as in any way limiting any other party's responsibility for damages resulting from their operations or for furnishing work and materials.

Paragraph 5. PAYMENT:

- CLIENT shall pay to LABORATORY such fees for services as previously agreed, orally or in writing, within 30 days of presentment of a bill for such services performed. In the event CLIENT ordered, orally or in writing, services but such services were not assigned a rate for billing, such services shall be billed at the LABORATORY's reasonable and customary rate.
- CLIENT shall be responsible for all shipping, customs and other expenses related to services provided by LABORATORY to the CLIENT, and shall fully insure any test sample or other equipment provided to LABORATORY by the CLIENT.
- Amounts overdue from CLIENT to LABORATORY shall be charged interest at a rate of 11/2% per month.

Paragraph 6. ISO/IEC GUIDE 17025 ADDITIONS:

- CLIENT agrees that this test report will not be reproduced except in full, without written approval from the LABORATORY. CLIENT agrees that this test report shall not be used to claim product endorsement by A2LA or ANSI or any agency of the U.S. $6.1 \\ 6.2$ Government.
 CLIENT agrees that test results presented herein relate only to the sample tested by the LABORATORY.
- 6.3

A2LA Accreditation

SCOPE OF ACCREDITATION TO ISO/IEC 17025-1999

CURTIS-STRAUS1 527 Great Road Littleton, MA 01460 Barry Quinlan Phone: 978-486-8880 ELECTRICAL

Valid until: July 31, 2007

Certificate Number: 1627.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following Electromagnetic Compatibility (EMC), Telecommunications, and Product Safety tests:

Electromagnetic Compatibility (EMC)
Radiated emissions testing (electric and magnetic fields)*, Conducted emissions testing (voltage and current)*;
Electrostatic Discharge testing*; Electrical Fast Transient testing*; Radiated Immunity testing*, Conducted
Immunity testing*; Lightning Immunity testing*; Voltage Dips*, Interrupts and Voltage Variations testing*;
Magnetic Immunity testing*; RF Power measurement*; Frequency Stability Measurements*; Longitudinal
Induction measurements*; Harmonic emissions testing*; Light flicker testing*; Low frequency disturbance
voltage testing*; Disturbance Power measurements*; Power Cross Overvoltage testing*;

| Test Type | Test Method(s) |
|----------------------------------|--|
| Emissions | |
| Radiated and Conducted Emissions | FCC 47 CFR Parts 15 & 18: C63 4; CISPR 22: EN55022; ASABC CISPR 22; AS/NZS CISPR 22; AS/NZS 3548; Canada ICES- 003; CNS13438; KN 22 (RRI, No. 2005-82, September 29, 2005); CISPR 11; EN 55011; SABS CISPR 11; AS/NZS CISPR 11; AS/NZS 2064; Canada ICES-001; CNS13803; CISPR 13; EN 55013; SABS CISPR 13; AS/NZS CISPR 13; AS/NZS 1053; CISPR 14; EN 55014-1; SABS CISPR 14; AS/NZS CISPR 14; AS/NZS 1044; CNS 13439; CISPR 15; EN 55015; GR-1089- CORE; CSA C108.8-M1983; |
| Harmonics | EN 61000-3-2; AS/NZS 61000.3.2 |
| Flicker | EN 61000-3-3; AS/NZS 61000.3.3 |

1 Note: This accreditation covers testing performed at the laboratory listed above and the satellite facility located at 168 Ayer Rd, Littleton, MA 01460 and, for test types marked with an asterisk, at other sites as defined in "A2LA specific criteria for the accreditation of site testing and site calibration laboratories."

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| Immunity | RRL No. 2005-130 (December 27, 2005) |
|--|---|
| Electrostatic Discharge (ESD) | EN 61000-4-2; AS/NZS 61000.4.2; KN61000-4-2 |
| Radiated Immunity (RFI) | EN 61000-4-3, AS/NZS 61000.4.3; KN61000-4-3 |
| Electrical Fast Transient Bursts (EFT) | EN 61000-4-4; AS/NZS 61000.4.4; KN61000-4-4 |
| Surge | EN 61000-4-5, AS/NZS 61000.4.5; KN61000-4-5 |
| Conducted Immunity | EN 61000-4-6, AS/NZS 61000.4.6; KN61000-4-6 |
| Magnetic Immunity | EN 61000-4-8; AS/NZS 61000.4.8; KN61000-4-7 |
| Voltage Dips and Interrupts | EN 61000-4-11; KN61000-4-11 |
| Low Frequency Conducted Disturbances | EN 61000-2-2 |

| Family Product or Industry Specific Specifications including emissions and/or immunity | GR-1089-CORE: GR-78-CORE (ESD) EN50081-1; EN50081-2: EN50082-2; EN50082-1; EN 61000-6-1; EN 61000-6-2; EN 61000-6-3; EN 61000-6-4; EN 50091-2; EN 550024; CISPR 24 EN 55103-1; EN 55103-2; EN 61306; EN 61547; EN 50130-4; EN 50083-2; EN 60601-1-2; EN 60601-2-2; EN 60601-2-47; EC 1800-3; EN 61001-2-38; EN 60601-2-47; EC 1800-3; EN 61800-3; EN 55020; CISPR 20; EN 60555 Part 2; EN 60555 Part 3; ETS 300 364-1; EN 300 366-2; EN 300 386, ETS 300 132-1; ETS 300 132-2; EN 60669-2-1; AS/NZS 3200.1.2; CNS 13783-1; ETR 283; CG2-41 |
|--|--|
| Radiocommunications | |
| EU R&TTE Radio Standards; | EN 300 220-1; EN 300 220-3; EN 300 330-1; EN 300 330-2; EN 300 440-1; EN 300 440-2; EN 300 328; EN 300 385; EN 301 893 |
| EU R&TTE EMC Standards | EN 300 339; EN 301 489-01; EN 301 489-03; EN 301 489-17 |
| Canada Radio Standards | RSS-102; RSS-117; RSS-118; RSS-119; RSS-123; RSS-125; RSS-128; RSS-129; RSS-130; RSS-131; RSS-132; RSS-133; RSS-134; RSS-135; RSS-136; RSS-137; RSS-138; RSS-141; RSS-142; RSS-170; RSS-181; RSS-182; RSS-187; RSS-188; RSS-191; RSS-192; RSS-193; RSS-195; RSS-210; RSS-212; RSS-213; RSS-215; RSS-243; RSS-GEN; RSS-310; GLS-36; |
| Australia/New Zealand Radio Standards | AS/NZS 4268; AS/NZS 4771; RFS29; Radiocommunications (Data Transmission Equipment Using Spread Spectrum Modulation Techniques); Radiocommunications (Spread Spectrum Devices); Radiocommunications (Shorn Range Devices); Radiocommunications (Low Interference Potential Devices); |

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| Other Rad | lio Standards | RTTE 01 (DGT-Taiwan); | |
|-----------|---------------------------------------|-----------------------|--|
| FCC Star | ndards and Test methods Support TC | B Status | |
| FCC Scop | e A – Unlicensed Radio Frequency Dev | vices | |
| A1 | 1. 47 CFR Parts 11, 15 and 18 | | |
| | 2. FCC MP-5, | | |
| | 3. ANSI C63.4-2003, | | |
| A2 | 1. 47 CFR Part 15, | | |
| | 2. ANSI C63.4-2003, | | |
| A3 | 1. 47 CFR Part 15, | | |
| | 2. ANSI C63.17-1998, | | |
| | 3. ANSI C63.4-2003, | | |
| A4 | 1. 47 CFR Part 15, | | |
| | 2. ANSI C63.4-2003, | | |
| FCC Scop | e B – Licensed Radio Service Equipmen | nt | |
| B1 | 1. 47 CFR Parts 2, 22, 24, 25, a | nd 27 | |
| | 2. ANSI/TIA-603-C (2004) | | |
| B2 | 1. 47 CFR Parts 2, 22, 74, 90, 9 | 5, and 97 | |
| | 2. ANSI/TIA-603-C (2004) | | |
| B3 | 1. 47 CFR Parts 2, 80, and 87 | | |
| | 2. ANSI/TIA-603-C (2004) | | |
| B4 | 1. 47 CFR Parts 2, 21, 74, and 1 | .01 | |
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| Country Specific Standards and Other | |
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| ITU EMC Standards | K.20; K.21; K.41; K.44 |
| Swedish EMC Standards | BAKOM 3336.3 |
| South African EMC Standards other then CISPR equivalents | SABS 1718-1; SANS 211/SABS CISPR 11; SANS 224/SABS CISPR 24; SANS 213/SABS CISPR 13; SANS 2200; SANS214-1/SABS CISPR 14-1; SANS214-2/SABS CISPR 14-2; SANS 215/SABS CISPR 15; SANS 225/SABS CISPR 22 |
| Hong Kong EMC Standards | HKTA 1006; HKTA 1007; HKTA 1008; HKTA 1010; HKTA 1015; HKTA 1026; HKTA 1035; HKTA 1039; HKTA 1041; HKTA 1042; HKTA 1045 |
| Singapore EMC Standards | IDA TS SRD; IDA TS EMC |
| Japanese VCCI Standards | VCCI V-3, VCCI V-4 |

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Telecommunications
Telecommunications Registration; General test methods; Lightning surge*; Drop testing*; Balance testing*;
Signal power (metallic and longitudinal)*; Frequency measurements*; Pulse templates*; Leakage testing*;
Impedance testing*; Hearing Aid Compatibility testing (excluding volume control)*; Protocol analysis* and Jitter testing*.

Telecom Standards Title

North American standards FCC 47 CFR Part 68 Telephone Terminal Equipment CS-03 Issue 9 Connection of terminal equipment to the telephone network. Analog and Digital Equipment. TCB Scope C1. Specification for terminal equipment, terminal systems, Network protection devices, connection arrangements and hearing aids compatibility.

Bulletin Part 68 Rationale and Measurement Guidelines (Feb 1998)

Telecommunications Telephone Terminal TIA/FIA TSR31-R 1998 TIA-968-A, A1, A2, A3 Equipment Technical Requirements for Connection of Terminal Equipment to the Telephone Network Technical Requirements for SHDSL, HDSL2, HDSL4 Digital Subscriber Line Terminal Equipment to Prevent Harm to the Telephone Network Industry T1.TRO.6-2001

Australia standards AS/ACIF S002-2001 Analogue interworking and non-interference requirements for Customer Equipment for connection to the Public Switched Telephone Network Requirements for Customer Equipment for connection to hierarchical digital interfaces Requirements for ISDN Basic Access Interface Populational Conference on the Public Programment of State of the Public Programment of State of State Only 10 Public Pub AS/ACIF S016-2001 AS/ACIF S031-2001 Requirements for ISDN Basic Access interface
Requirements for ISDN Primary Rate Access Interface
Requirements for Customer Equipment for
Connection to a Metallic Local Loop Interface of a
Telecommunications Network —
Part 1: General
Part 2: Broadband AS/ACIF S038-2001 AS/ACIF S043-2001

Part 3: DC, Low Frequency AC and Voice band International standards ITU-T G.703 Physical/electrical characteristics of hierarchical

Digital interfaces Hong Kong standards HKTA 2011 Network Connection Specification for Connection of

Network Connection specification for Connection of Customer Premises Equipment (CPE) to Direct Exchange Lines (DEL) of the Public Switched Telephone Network (PSTN) in Hong Kong Network Connection Specification for Connection of Customer Premises Equipment (CPE) to the Public Telecommunications Network (PTN) in Hong Kong using ISDN Basic Rate Access (RBA) based on ITLI-HKTA 2014

ISDN Basic Rate Access (BRA) based on ITU-T

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| UL 69950-1 2003 CSA C22.2 No. 60950-10 CSA C201 CSA | General test methods: Power inputs', Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition (TT)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1999 | Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance thut Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm eder rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 18. Capacitor short circuit abnormal*, Output abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment | IBC 60825-1 2001 IBC 60825-2 2000-5 IBC 60825-4 1997-11 21 CFR 1040.10 IBC 60335-1 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 | Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part1: General Requirements |
| CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-10 3 EC 61010-1 1993 Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. EN 61010-1 1993, 2001 EN 61010-1 2003 Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. EN 61010-1 2001 CAN/CSA 1010-1 1999 (Including AM 2) Electrical equipment for laboratory use Part 1: General requirements for safety. EN 60601-1 1995 (Including AM 2) Electrical equipment Part 1: General requirements for safety. EN 60601-1 1995 (Including AM 2) EN 60601-1 1995 (I | General test methods: Power input*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 IEC 60950 1999 IEN 60950 2000 | Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, sulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 1*, Capacitor short circuit abnormal*, Output abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment, including | IBC 60825-1 2001 IBC 60825-2 2000-5 IBC 60825-4 1997-11 21 CFR 1040.10 IBC 60335-1 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 | Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part1: General Requirements Information Technology Equipment — Safety — General |
| EC 61010-1 1993 Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. EN 61010-1 2001 Cantrol and laboratory use, Part 1: General requirements. EC 61010-1 2001 Cantrol and laboratory use, Part 1: General requirements. EC 61010-1 2001 Cantrol and laboratory use, Part 1: General requirements. EC 61010-1 2001 Cantrol and laboratory use, Part 1: General requirements. EC 61010-1 2001 Cantrol and laboratory use, Part 1: General requirements. EL 61010-1 1999 (Including AM 2) Electrical equipment for laboratory use Part 1: General requirements for safety. EN 60601-1 1995 Medical electrical equipment Part 1: General requirements for safety. EN 60601-1 1995 (Including AM 2) Medical electrical equipment Part 1: General requirements for safety. EN 60601-1 1995 (Including AM 2) Medical electrical equipment Part 1: General requirements for safety. EN 60601-1 1995 (Including AM 2) Medical electrical equipment Part 1: General requirements for safety. EN 60601-1 1995 (Including AM 2) Medical electrical equipment Part 1: General requirements for safety. EN 60601-1 1995 (Including AM 2) Medical electrical equipment Part 1: General requirements for safety. EN 60601-1 1995 (Including AM 2) Medical electrical equipment Part 1: General requirements for safety. EN 60601-1 1995 (Including AM 2) Medical electrical equipment Part 1: General requirements for safety. EN 60601-1 1995 (Including AM 2) Medical electrical equipment Part 1: General requirements for safety. EN 60601-1 1995 (Including AM 2) Medical electrical equipment Part 1: General requirements for Safety. EN 60601-1 1: 2001 Medical electrical equipment Part 1: General Requirements for Safety - Safety Systems | General test methods: Power inputs', Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2001 | Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, sulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 1*, Capacitor short circuit abnormal*, Output abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment, including | IBC 60825-1 2001 IBC 60825-2 2000-5 IBC 60825-4 1997-11 21 CFR 1040.10 IBC 60335-1 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 | Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part1: General Requirements Information Technology Equipment — Safety — General requirements |
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| EN 61010-1 1993, 2001 IEC 61010-1 2001 CAN/CSA 1010-1 1999 (Including AM 2) Electrical equipment for laboratory use Part 1: General requirements. IEC 6001-1 1995 (Including AM 2) Electrical equipment for laboratory use Part 1: General requirements for safety. EN 60061-1 1995 (Including AM 2) EN 60061-1 1995 (Including AM 2) EN 60061-1 1997 (Including AM 2) EN 60065 1998, 2000 EN 60065 1998, 2000 EN 60065 1998 (Audio) video and similar electronic apparatus - Safety requirements for safety. EN 60065-2003 EN 60065-2004 EN 60065-2001 EN 60065- | General test methods: Power inputs', Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold sti Component abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1909 EN 60950 2000 IEC 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-1 03 | Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, sulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 1#, Capacitor short circuit abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. | IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004 | Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part1: General Requirements Information Technology Equipment — Safety — General requirements Information Technology Equipment — Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements Medical Electrical Equipment, Part 1: General |
| IEC 61010-1 2001 control and laboratory use, Part 1: General requirements. UL 610108-1 2003 Electrical equipment for laboratory use Part 1: General requirements for safety. IEC 60601-1 1995 Medical electrical equipment. Part 1: General requirements for safety. EN 60601-1 1995 (Including AM 2) Medical electrical equipment. Part 1: General requirements for safety. EN 60601-1 1995 (Including AM 2) Medical electrical equipment. Part 1: General requirements for safety. EN 60601-1 1995 (Including AM 2) Medical electrical equipment. Part 1: General Requirements for safety. EN 60601-1 1995 (Including AM 2) Medical electrical equipment. Part 1: General Requirements for safety. IEC 60065 1998, 2000 Addio, video and similar electronic apparatus – Safety requirements ANSI/UL 6500: 1998 Addio, video and similar general use Australian/New Zealand AS/NZS 60065-200 commercial and similar general use Australian/New Zealand AS/NZS 60065-200 Standard – Approval and test Specification – Mains operated electronic and related apparatus for household and similar general use. Canadian C22.2 No. 1-94 (1-98) Addio, video and similar general use. Radiation safety of laser products part 1: equipment Canadian C22.2 No. 1-94 (1-98) Safety of laser products, equipment EN 60825 1990 Safety of laser products part 1: equipment for household and similar general use. Radiation safety of laser products, equipment Canadian C22.2 No. 1-94 (1-98) Safety of laser products, equipment for Safety of Safety and Decentral equirements for Subscriber Equipment for Safety and Decentral Equipment for Safety and | General test methods: Power inputs', Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold sti Component abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1909 EN 60950 2000 IEC 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-1 03 | Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, subse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, I*, Capacitor short circuit abnormal*, Output abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement, | IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040-10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004 UL 60601-1: 2004 | Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety |
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ANSI/UL 6500: 1998 (Audio, video and similar general use Australian/New Zealand AS/NZS 60065 2000 (Commercial and similar general use alectronic and related Equipment for household and similar general use) Canadian C22.2 No. 1-94 (1-98) (Consumer and commercial products) (Audio, video and similar electronic equipment. Consumer and commercial products) (Audio, video and similar electronic and related apparatus for household and similar general use.) EN 600825 1990 (Safety - Section 1-1. Collateral Standard: Safety Requirements For Subscription Audio, Video and Similar Electronic Apparatus - Safety Requirements UL 60065: 2003 (Audio, Video and Similar Electronic Apparatus - Safety Requirements EN 60065: 2003 (Audio, Video and Similar Electronic Apparatus - Safety Requirements EN 60065: 2003 (Audio, Video and Similar Electronic Apparatus - Safety Requirements EN 60065: 2003 (Audio, Video and Similar Electronic Apparatus - Safety Requirements EN 60065: 2003 (Audio, Video and Similar Electronic Apparatus - Safety Requirements EN 60065: 2003 (Audio, Video and Similar Electronic Apparatus - Safety Requirements EN 60065: 2003 (Audio, Video and Similar Electronic Apparatus - Safety Requirements EN 60065: 2003 (Audio, Video and Similar Electronic Apparatus - Safety Requirements EN 60065: 2001 (Audio | General test methods: Power input*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Img flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnormat supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 IEC 60950 1909 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2003 UL 60950-1 2003 UL 60950-1 2003 USA C22.2 No. 60950-00 CSA C22.2 No. 60950-10 3 IEC 61010-1 1993, 2001 | Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, sulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, il*, Capacitor short circuit abnormal*, Output abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. 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Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements for Safety |
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Consumer and commercial products EN 60025 1994 Audio, video and Similar Electronic Apparatus – Safety Requirements EN 6005: 2002 Audio, video and Similar Electronic Apparatus – Safety Requirements EN 6005: 2002 Audio, video and Similar Electronic Apparatus – Safety Requirements EN 6005: 2001 EN 6005: 2002 Audio, video and Similar Electronic Apparatus – Safety Requirements EN 6005: 2002 Audio, video and Similar Electronic Apparatus – Safety Requirements EN 6005: 2002 Audio, video and Similar Electronic Apparatus – Safety Requirements EN 6005: 2002 Audio, video and Similar Electronic Apparatus – Safety Requirements EN 6005: 2002 Audio, video and Similar Electronic Apparatus – Safety Requirements EN 6005: 2002 Audio, video and Similar Electronic Apparatus – Safety Requirements EN 6005: 2002 Audio, video and Similar Electronic Apparatus – Safety Requirements EN 6005: 2001 EN 6005: 2002 Audio, video and Similar Electronic Apparatus – Safety Requirements EN 6005: 2002 Audio, video and Similar Electronic Apparatus – Safety Requirements EN 6005: 2002 Audio, video and Similar Electronic Apparatus – Safety Requirements EN 6005: 2001 EN 6 | General test methods: Power input*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnormas upply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 IEC 60950 1909 IEC 60950 1909 IEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-1 03 IEC 61010-1 1993, 2001 IEC 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010-1 2001 UL 61010-1 2001 UL 61010-1 2001 | Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, sulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, Il*, Capacitor short circuit abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. 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| Requirements Audio/video and musical instrument apparatus for Household, CAN/CSA 60065-00 CAN/CSA 60065-00 Standard — Approval and test Specification — Mains operated electronic and related Equipment for household and similar general use electronic equipment for household and similar general use and related Equipment for household and similar general use and related equipment for household and similar general use. Canadian C22.2 No. 1-94 (1-98) Consumer and commercial products EN 60065 1994 Safety requirements for main operated electronic and related apparatus for household and similar general use. Radiation safety of laser products, equipment Classification, requirements and user's guide EN 60825-1 1994 Safety of Machinery — Electrical Equipment of Machines - Part 1: Specification For General Requirements - Protection Requirements - Compliance Test Specification — Safety and Electrical - Compliance Test Specification — Safety and Electrical - Protection Requirements - Connected to the Public Telecommunications Networks - In Hong Kong Requirements - Part 1: Specification for General Requirements - Part 1: Specification — Safety and Electrical - Compliance Test Specification — Safety and Electrical - Part 1: Specification For General Requirements - Part 1: Specification For General Require | General test methods: Power input*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imglame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2003 UL 60950-1 2003 UL 60950-1 2003 USA C22.2 No. 60950-00 CSA C22.2 No. 60950-10 3 IEC 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010B-1 2003 CAN/CSA 1010-1 1999 (Including AM 2) IEC 60601-1 1995 EN 60601-1 1995 (Including AM 2) | Limited current*, Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, bulse*, Overvoltage*, Acoustic sound pressure*, Lakage current*, bulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 11 mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 12*, Capacitor short circuit abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements, Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Electrical equipment for laboratory use Part 1: General requirements, Medical electrical equipment. Part 1: General requirements for safety. Medical electrical equipment. Part 1: General requirements for safety. Medical electrical equipment | IEC 60825-1 2001 IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950: 1: 2003 UL 61010 -1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000 EN 60601-1-1: 2001 | Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety - Section 1-1, Collateral Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus – Safety Requirements |
| ANSI/LI 6500: 1998 Audio/video and musical instrument apparatus for Household, CAN/CSA 60065-00 commercial and similar general use Australian/New Zealand electronic and related Equipment for household and similar general use Canadian C22.2 No. 1-94 (1-98) Audio, video and similar electronic equipment. Consumer and commercial products PN 60065 1994 Audio, video and similar electronic equipment. Consumer and commercial products Consumer and commercial products Canadian C22.2 No. 1-94 (1-98) Audio, video and similar electronic equipment. Consumer and commercial products Compliance Test Specification - Safety and Electrical Protection Requirements for Subscriber Equipment Connected to the Public Telecommunications Networks In Hong Kong EN 60825 1990 Safety of laser products, equipment Classification, requirements and user's guide EN 60825 1994 Safety of laser products Part 1: equipment | General test methods: Power input*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1999 IEC 60950 1909 IEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-10 3 IEC 61010-1 1993, 2001 IEC 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010-1 2001 UL 61010-1 2003 CAN/CSA 1010-1 1999 (Including AM 2) IEC 60601-1 1995 IEC 60601-1 1995 (Including AM 2) UL 2601-1 1997 | Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, sulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 1*, Capacitor short circuit abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Electrical equipment for laboratory use Part 1: General requirements. Medical electrical equipment. Part 1: General requirements for safety. Medical electrical equipment. Part 1: General Requirements for safety. Medical electrical equipment. Part 1: General Requirements for safety. | IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-2 1997-11 21 CFR 1040.10 IEC 60335-1 1995 ICA 60335-1 1995 ICA 60335-1 2001 ICA 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950: 1: 2003 UL 61010 -1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000 EN 60601-1-1: 2001 UL 60065: 2003 CSA 60065: 2003 | Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part1: General Requirements Information Technology Equipment — Safety — General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety - Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements |
| CAN/CSA 60065-00 commercial and similar general use Australian/New Zealand AS/NZS 60065 2000 Standard – Approval and test Specification – Mains operated electronic and related Equipment for household and similar general use Canadian C22.2 No. 1-94 (1-98) Audio, video and similar electronic equipment. 1994, 1998 Consumer and commercial products EN 60065 1994 Safety of laser products equipment EN 60065 1994 Radiation safety of laser products, equipment Classification, requirements and user's guide EN 60825-1 1994 Safety of laser products Part 1: equipment | General test methods: Power input*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1999 IEC 60950 1909 IEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-10 3 IEC 61010-1 1993, 2001 IEC 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010-1 2001 UL 61010-1 2003 CAN/CSA 1010-1 1999 (Including AM 2) IEC 60601-1 1995 IEC 60601-1 1995 (Including AM 2) UL 2601-1 1997 | Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance thut Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, vulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, Il*, Capacitor short circuit abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Electrical equipment for laboratory use Part 1: General requirements, Medical electrical equipment. Part 1: General requirements for safety. Medical electrical equipment Medical electrical equipment Part 1: General requirements for safety, Medical electrical equipment. Part 1: General Requirements for safety, Audio, video and similar electronic apparatus – Safety | IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-2 1997-11 21 CFR 1040.10 IEC 60335-1 1995 ICA 60335-1 1995 ICA 60335-1 2001 ICA 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950: 1: 2003 UL 61010 -1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000 EN 60601-1-1: 2001 UL 60065: 2003 CSA 60065: 2003 | Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety — Part1: General Requirements Information Technology Equipment – Safety — General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment - Part 1: General Requirements For Safety Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus – Safety Requirements |
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Consumer and commercial products EN 60204 -1: 1998 Safety of Machinery – Electrical Equipment of Machines – Part 1: Specification or General Requirements of Compliance Test Specification – Safety and Electrical Physical Protection Requirements for Subscriber Equipment Connected to the Public Telecommunications Networks In Hong Kong EN 60204 -1: 1998 Safety of Machinery – Electrical Equipment of Machines – Part 1: Specification or Safety and Electrical Compliance Test Specification - Safety and Electrical Compliance Test Specification or Safety and Electrical Equipment of Connected to the Public Telecommunications Networks In Hong Kong EN 60204 -1: 1998 Safety of Machinery – Electrical Equipment of Machines – Part 1: Specification or Safety and Electrical Equipment of Compliance Test Specification - Safety and Electrical Equipment of Compliance Test Specification or Safety and Electrical Equipment of Compliance Test Specification or Safety and Electrical Equipment of Compliance Test Specification or Safety and Electrical Equipment of Compliance Test Specification or Safety and Electrical Equipment of Compliance Test Specification or Safety and Electrical Equipment of Compliance Test Specification or Safety and Electrical Equipment or Compliance Test Specification or Safety and Electrical Equipment or Compliance Test Specification or Safety and Electrical Equipment or Compliance Test Specification or Safety and Electrical Equipment or Compliance Test Specification or Safety and Electrical Equipment or Compliance Test Specification or Safety and Electrical Equipment or Compliance Test Specification or Safety and Electrical Equipment or Compliance Test Specification or Safety and Electrical Equipment or Compliance Test Specification or Safety and El | General test methods: Power inputs', Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold sti Component abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnormas apply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 12001 IEC 60950 12001 IEC 60950 12003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-103 IEC 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 1993 EN 61010-1 1995 (Including AM 2) IEC 60601-1 1995 EN 66061-1 1995 (Including AM 2) IEC 60065 1998, 2000 | Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, sulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 1!*, Capacitor short circuit abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. 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Part 1: General Requirements for safety, Audio, video and similar electronic apparatus – Safety requirements | IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-2 4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950: 12003 UL 61010 -1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000 EN 60601-1-1: 2001 UL 60065: 2003 CSA 60065: 2003 IEC 60065: 2003 IEC 60065: 2001 | Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part 1: General Requirements Information Technology Equipment — Safety — General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements For Safety Medical Electrical Equipment + Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety - Section 1-1. 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| general use Canadian C22.2 No. 1-94 (1-98) Audio, video and similar electronic equipment. Consumer and commercial products EN 6005 1994 Agriculture apparatus for main operated electronic and related apparatus for household and similar general use. Radiation safety of laser products, equipment Classification, requirements and user's guide EN 60825-11994 Safety of laser products Part 1: equipment | General test methods: Power inputs', Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTJ9*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold stimulation and Applied force*, Steel sphere impact*, Mold stimulation esistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 2000 IEC 60950 12003 UL 60950-1 2003 UL 60950-1 2003 USA C22.2 No. 60950-00 CSA C22.2 No. 60950-103 IEC 61010-1 1993 EN 61010-1 1993 EN 61010-1 1993 (DI LO 1998) EN 60601-1 1995 (Including AM 2) UL 2601-1 1995 IEC 6005 1998, 2000 ANSI/UL 6500: 1998 CAN/CSA 60065-00 | Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ses*, Battery reverse current*, Ball pressure*, Leakage current*, subse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 1*, Capacitor short circuit abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Electrical equipment for laboratory use Part 1: General requirements. Medical electrical equipment. Part 1: General requirements for safety. Medical electrical equipment. Part 1: General Requirements for safety. Audio, video and similar electronic apparatus – Safety requirements Audio/video and similar electronic apparatus or Household, commercial and similar general use Australian/New Zealand | IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 ICC 60335-1 1995 ICC 60335-1 1996 ICC 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950: 2000 UL 61010-1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000 UL 60065: 2003 IEC 60065: 2003 IEC 60065: 2001 EN 60065: 2002 | Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part1: General Requirements Information Technology Equipment — Safety — General requirements Information Technology Equipment — Safety — General requirements Information Technology Equipment — Safety — General requirements Information Technology Equipment — Part 1: General Requirements Medical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements |
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| apparatus for household and similar general use. IEC 60825 1990 Radiation safety of laser products, equipment Classification, requirements and user's guide EN 60825-1 1994 Safety of laser products Part 1: equipment | General test methods: Power input*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold sti Component abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1999 IEC 60950 1999 IEC 60950 12001 UL 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-103 IEC 61010-1 1993, 2001 IEC 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010B-1 2003 CAN/CSA 1010-1 1999 (Including AM 2) IEC 60601-1 1995 IEC 60601-1 1995 IEC 60605-1998 CAN/CSA 60065-00 ANSI/UL 6500: 1998 CAN/CSA 60065-00 AS/NZS 60065-00 AS/NZS 60065-00 AS/NZS 60065-00 | Limited current*, Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, Bullse*, Overvoltage*, Acoustic sound pressure*, Leakage current*, Bullse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 11 mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 12*, Capacitor short circuit abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Electrical equipment for laboratory use Part 1: General requirements. Medical electrical equipment Medical electrical equipme | IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-2 1997-11 21 CFR 1040.10 IEC 60335-1 1995 Ch0335-1 1995 CANCSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 UL 61010-1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000 UL 60065: 2003 IEC 60065: 2003 IEC 60065: 2003 IEC 60065: 2001 EN 60065: 2002 EN 60065: 2002 EN 60065- 2002 | Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part1: General Requirements Information Technology Equipment — Safety — General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements For Safety Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Medical Electrical Electrical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements for Safety — Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements Medical Electrical Equipment - Part 1: Seneral Standard: Safety Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements Medical Electrical Equipment - Part 1: Seneral Standard: Safety Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: Seneral Standard: Safety Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: Seneral Standard: Safety Requirements Audio, Video and Similar Electronic Apparatus - Safety Requirements Audio, Video and Similar Electronic Apparatus - Safety Requirements Safety of Machinery - Electrical Equipment of Machines - Part 1: Specification of General Requirements Compliance Test Specification - |
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| (A2LA Cert. No. 1627.01) 3/27/06 Page 8 of 10 (A2LA Cert. No. 1627.01) 3/27/06 Page 8 of 10 | General test methods: Power inputs', Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold stimulation and paper of the sphere impact*, Mold stimulation and proper stance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 12003 UL 60950 2000 IEC 60950 12003 UL 60950-1 2003 USA C22.2 No. 60950-103 IEC 61010-1 1993 EN 61010-1 1999 (EN 6061-1 1995) IEC 60601-1 1995 (Including AM 2) IEC 60601-1 1995 IEC 60601-1 1995 (Including AM 2) UL 2601-1 1997 IEC 60605 1998, 2000 ANSL/UL 6500: 1998 CAN/CSA 60065-00 AS/NZS 60065-00 Canadian C22.2 No. 1-94 (1-98) 1994, 1998 EN 60065 1994 IEC 60825 1990 | Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance thun Insulation (excluding) Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 11*, Capacitor short circuit abnormal*, Output abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. 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| | General test methods: Power inputs', Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold stromponent abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnormas supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 IEC 60950 12001 IEC 60950 12001 IEC 60950 12003 IEC 60950 12003 IEC 60950 12003 IEC 61010-1 1993 IEC 6001-1 1993 IEC 61010-1 1993 IEC 61010-1 1993 IEC 61010-1 1999 IEC 60061-1 1995 IEC 60061-1 1995 IEC 60061-1 1995 IEC 60061-1 1995 IEC 60061-1 1997 IEC 60065 1998, 2000 ANSI/UL 6500: 1998 CAN/CSA 60065-00 ANSI/UL 6500: 1998 CAN/CSA 60065-00 Canadian C22.2 No. 1-94 (1-98) 1994, 1998 IEC 60825-1994 IEC 60825-1994 IEC 60825-11994 | Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance thun Insulation (excluding) Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sess*, Battery reverse current*, Ball pressure*, Leakage current*, sulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 18.* Capacitor short circuit abnormal*, Output abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Blectrical equipment for laboratory use Part 1: General requirements for safety. Medical electrical equipment. Part 1: General requirements for safety. Audio, video and similar electronic apparatus – Safety requirements Audio/video and similar electronic apparatus for Household, commercial and similar general use Australian/New Zealand Standard – Approval and test Specification – Mains operated electronic and related Equipment for main operated electronic and related Equipment to consumer and commercial products Safety requirements for main operated electronic and related apparatus for household and similar general use. Radiation safety of laser products, equipment Classification, requirements and user's guide Safety of laser products Part 1: equipment | IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-2 1997-11 21 CFR 1040.10 IEC 60335-1 1995 Ch0335-1 1995 CANCSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 UL 61010-1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000 UL 60065: 2003 IEC 60065: 2003 IEC 60065: 2003 IEC 60065: 2001 EN 60065: 2002 EN 60204-1: 1998 HKTA 2001 | Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment — Safety — Part1: General requirements Safety information technology Equipment — Safety — Part1: General Requirements Information Technology Equipment — Safety — General requirements Information Technology Equipment — Safety — General requirements Information Technology Equipment — Safety — General Requirements Medical Electrical Equipment, Part 1: General Requirements For Safety 1: Collateral Standard: Safety Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety - Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Electrical Electrical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements for Safety - Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Requirements for Subscriber Equipment Compiance Test Specification — Safety and Electrical Equipmen |

| REPORT:EG0438-1 | | | FCC ID: KLN313A | |
|---|--|---|--|----------------------|
| Environmental Simulation | | | | |
| Test Technology Accessibility* Acoustic Noise* | Test Standard IEC 60529 GR-63-CORE Sec 4.6 | Supporting Standards IP-0x thru IP-6x | Note 1. For standards or methods listed on the scope of accreditation without a revision date, labora expected to be competent in the use of the current version within one year of the date of publication standard test method or upon the date specified by the standard test method originator when the orig | of the inator has |
| Airborne Contaminants Altitude | GR-63-CORE Sec 4.5 GR-63-CORE Sec 4.1.3 | MFG & Hygroscopic Dust | implementation authority. When a superseded standard or method is required for an accredited test, will include the superseded date/version. For those that support the TCB/CB status of the organizati | |
| Cold Start* | ETS 300 019 | IEC 60068-2-1 | as a certifier on behalf of the FCC or IC the expectation is currency within 30 days of Federal Regis | |
| Drip Drops* | IEC 60529 ETS 300 019 | IP-x1 & IP-x2 IEC 60068-2-32 | publication of changes for FCC and 30 days after IC website update. This note shall not be constru Accreditation Body implication to adopt a more current standard than is required in a regulation or | |
| Dust | GR-63-CORE Sec 4.3 IEC 60529 | IP-5x & IP-6x | the legal requirement) which is adopted by the lab under their responsibility. | |
| Firearms Resistance Testing Fire Resistance | GR-487 ANSI.T1.319 | IP-5X & IP-6X | * On-site test service is available for this technology, test, or method. | |
| Heat Dissipation* | GR-63-CORE Sec 4.2 GR-63-CORE Sec 4.1.4 | Fire & Needle Flame | | |
| Illumination Operational Temperature & | GR-63-CORE Sec 4.7 | | | |
| Humidity (OpTH)* | ETS 300 019 | IEC 60068-2-1 IEC 60068-2-2 IEC 60068-2-14 IEC 60068-2-56 | | |
| Salt Fog & Spray | GR-63-CORE Sec 4.1.2 ASTM B117 | | | |
| Spatial* | GR-63-CORE Sec 2.0 & 3.0 | | | |
| Spraying-Splashing Storage (Temperature & Humidity)* | IEC 60529 ETS 300 019 | IP-x3 & IP-x4 IEC 60068-2-1 IEC 60068-2-2 IEC 60068-2-14 IEC 60068-2-30 IEC 60068-2-56 | | |
| | GR-63-CORE Sec 4.1.1 | IEC 00008-2-30 | | |
| Vibration | ETS 300 019 | IEC 60068-2-6 IEC 60068-2-27 IEC 60068-2-29 IEC 60068-2-32 IEC 60068-2-57 IEC 60068-2-64 | | |
| Water Immersion Water Jet | GR-63-CORE Sec 4.4 IEC 60529 IEC 60529 | Earthquake, Office & Transportation IP-x7 & IP-x8 IP-x5 & IP-x6 | | |
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