# Test Report



Report No EJ1068-1

Client Novalab, LLC.

Address 19 Aladdin Rd.

Windham, NH 03087

Phone 978-835-3198

Items tested KMAD Sensor XMPNL7352

FRN 0018986281

Equipment Type Part 15.247 Digital Transmission Systems

Equipment Code DTS

FCC Rule Parts 47 CFR 15.247

Test Dates January 6-11, 2010

Results As detailed within this report

Prepared by

Mot Be
Matthew Burman – Test Engineer

Authorized by

Mairaj Hussain - EMC Supervisor

Issue Date February 16, 2010

Conditions of Issue This Test Report is issued subject to the conditions stated in the 'Conditions of Testing' section on page 23 of this report.

Curtis-Straus LLC is accredited to ISO/IEC 17025 by A2LA for the specific scope of accreditation under Certificate Number 1627-01. This report may contain data which is not covered by the A2LA accreditation. See our scope of accreditation at the end of this test report. Any opinions or interpretations expressed in this report are outside the scope of our A2LA accreditation as A2LA only accredits testing.

Testing Cert. No. 1627-01



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Form Final Report REV 7-20-07 (DW)



#### Summary

This test report supports an application for certification of a transmitter operating pursuant to 47 CFR 15.247. The product is the MAD Sensor. It is a transmitter that operates in the range 906.2-923.8MHz

We found that the product met the above requirements with modification. Scott Keller from Novalab, LLC. was present during the testing. The test sample was received in good condition.

#### Test Methodology

Radiated emission testing was performed according to the procedures specified in ANSI C63.4 (2003). Radiated Emissions were maximized by rotating the device around three orthogonal axes as well as varying the test antenna's height and polarity. The device antenna cannot be maximized separately.

Conducted emission at the antenna port was performed, as required by rule section.

The EUT operating voltage is 3.6Vdc, through battery power; fresh batteries were used to ensure proper voltage.

The environmental conditions are shown below.

Date	Temperature	Humidity
1-6-2010	17ºC	24%
1-11-2010	26ºC	33%

The following bandwidths were used during radiated spurious and line conducted emissions.

The following bandwathe were about during radiated epartode and into conducted emicelone:								
Frequency	RBW	VBW						
0.15-30MHz	9kHz	30kHz						
30-1000MHz	120kHz	1MHz						
1-25GHz	1MHz	3MHz						

Release Control Record

Issue No. Reason for change

Original Release

February 16, 2010

Date Issued



# **Product Tested - Configuration Documentation**

Work Order: Company:	Novalab									
Company Address:	292 Still River, N									
Contact:	Scott Keller	IA 01467								
Person Present:										
		MN			PN			SN		
EUT:		NL7352						1		
EUT Description: EUT Max Frequency:		r								
Support Equipment:		MN						SN		
IBM Laptop		PP1LL						Sample 1		
Provisioning Board								Sample 1		
EUT Ports:										
			No.					Max	In/Out	
Port Label	Port Type	No. of ports	Populated	Cable Type	Shielded	Ferrites	Length	Length	NEBS Type	Unpopulated Reas

# Statement of Conformity

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

Part 15	Comments									
15.15(b)	There are no controls accessible to the user that varies									
	the output power.									
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	The EUT was tested in accordance with the measurement standards in this section.									
15.33	Frequency range was investigated according to this section, unless noted in specific rule section under which the equipment operates.									
15.35	The EUT emissions were measured using the measurement detector and bandwidth specified in this section, unless noted in specific rule section under which the equipment operates.									
15.203	The antenna for this device is hardwired to the PCB.									
15.205	The fundamental is not in a Restricted band and the									
15.209	spurious and harmonic emissions in the Restricted bands									
	comply with the general emission limits of 15.209.									
15.247	To meet compliance to 15.247(e) the RF output power was reduced by 10dB. Prior to decreasing the output power, the unit failed:									
	Channel Ananlyzer Attenuator Final Limit Margin Result Frequency Reading Factor Measurement									
	(MHz) (dBm) (dB) (dBm) (dBm) (dB) (Pass/Fail)									
	906.2 -0.232 19.4 19.168 8 11.168 Fail 914.2 0.137 19.4 19.537 8 11.537 Fail									
	924.2 -0.438 19.4 18.962 8 10.962 Fail									

#### Test Results

#### Bandwidth

#### LIMIT

The minimum 6 dB bandwidth shall be at least 500 kHz. [15.247(a) (2)]

#### **MEASUREMENTS / RESULTS**

Channel	Frequency	6 dB Emission Bandwidth
	(MHz)	(KHz)
1	905.7	773.9
5	914.2	673.9
10	924	637.7

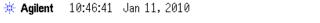
Test Equipments used: Brown Spectrum Analyzer

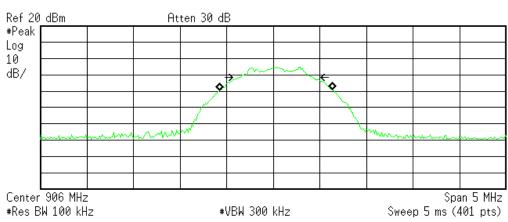
20dB 50Watt Attenuator

RL

23 deg celcius Tested by: Tuyen Truong 20% humidity Test Date: 1/11/2010 1009 mBar

### **Representative PLOT**





Occupied Bandwidth 1.2221 MHz

Occ BW % Pwr 99.00 % x dB -6.00 dB

Transmit Freq Error 30.379 kHz x dB Bandwidth 773.922 kHz

### Peak Power

#### LIMIT

Conducted Output Power 1 Watt [15.247(b) (3)]

#### **MEASUREMENTS / RESULTS**

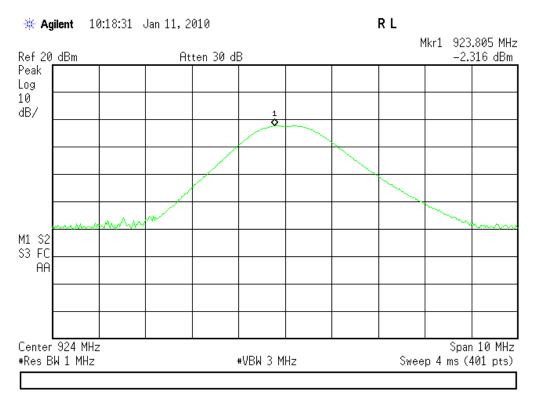
	Channel Frequency	Analyzer Reading	Attenuator Factor	Final Measurement	Limit	Margin	Result
	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(P/F)
Γ	906.20	-2.76	19.40	16.65	30.00	-13.36	Pass
	914.20	-2.31	19.40	17.09	30.00	-12.91	Pass
L	923.80	-2.32	19.40	17.08	30.00	-12.92	Pass

Test Equipments used: Brown Spectrum Analyzer 20dB 50Watt Attenuator

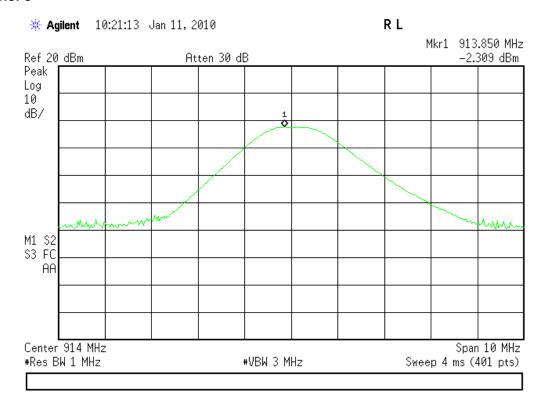
Tested by: Tuyen Truong Test Date: 1/11/2010

#### **PLOTS**

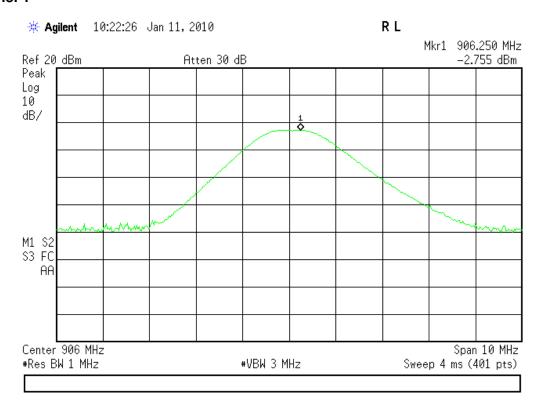
#### **Channel 10**



#### **Channel 5**



#### **Channel 1**



### Band Edge Measurements

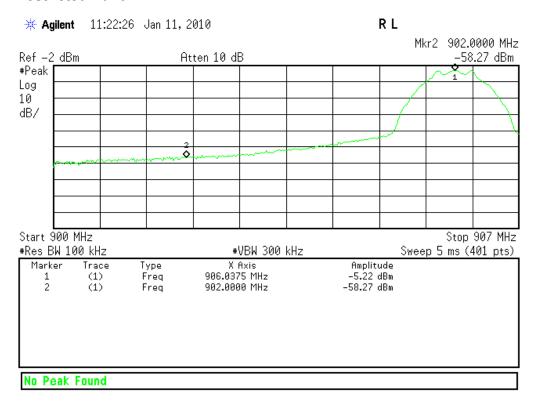
#### **LIMITS**

In any 100kHz bandwidth outside the frequency and in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits..

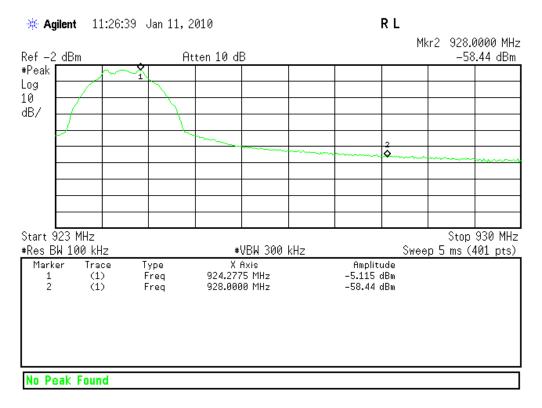
[15.247(d)]

#### **PLOTS**

#### 902MHz Restricted Band



#### 928MHz Restricted Band



# **Duty Cycle Correction Calculation**

DCCF = 20 \* log (0.6ms / 100ms) = -44dB

A maximum allowance of 20dB was used for duty cycle correction factor.

### RF Transmission Timing – NovaLab MAD System

The NovaLab MAD system transmits when an "event" occurs. An event may be a periodic status message or it may be due to the detection of a magnetic anomaly or magnetic change. Both of these events are infrequent – the periodic status occurs approximately once per hour and the asynchronous detection message might occur 10 time per day on average.

When a transmission event occurs (whether a status message or a sensor message), the system will transmit a short packetized message (~600 usec transmission time) five (5) times on ten (10) channels (for a total of 50 transmissions). Each transmission is spaced at a random time interval with a minimum time of 100 msec and a maximum time of 200 msec – the average time between transmissions being 150 msec. Consequently, each transmitted event takes about 6 seconds to complete.

In any 100 msec period, there will be – at most – a single transmission. This transmission is less than 600 usec long making the maximum "on" duty-cycle 0.6msec/100msec or 0.006 (0.6%).

The channel frequencies are as follows:

Channel	MHz
1	906
2	908
3	910
4	912
5	914
6	916
7	918
8	920
9	922
10	924

# Radiated Spurious Emissions

#### LIMITS

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a). [15.247(d)]

#### **MEASUREMENTS / RESULTS**

Date: 11-Jan-10 Company: Novalab Work Order: J1068												
Engineer: Tuyen Truong EUT Desc: MAD Sensor EUT Operating Voltage/Frequency: 3.6 Vdc										3.6 Vdc		
Temp: 26℃ Humidity: 33% Pressure: 1009 mBar												
	Freque	ency Range:	30 to 1000	MHz				Mea	surement Distance:	3 m		
Notes: Tested Channel 1 and 10 of the EUT.										EUT Max Freq:	928 MHz	
Antenna Preamp Antenna Cable Adjusted						Adjusted					FCC Class B	
Anteillid			4 '	Factor	Factor	Reading				Limit	Margin	Result
	Frequency	Reading	Factor									
	Frequency (MHz)	Reading (dBμV)	(dB)	(dB/m)	(dB)	(dBµV/m)				(dBµV/m)	(dB)	(Pass/Fail)
Polarization		-	(dB)	(dB/m)		(dBμV/m) HIN 20dB OF LI	MIT			(dBμV/m)	(dB)	(Pass/Fail)
Polarization (H / V)		(dBµV)	(dB)	(dB/m)	OUND WIT		MIT	Cable 2:	Asset #1507	(dBµV/m)	(dB)	(Pass/Fail)

Radiated	adiated Emissions Table													
Date:	Date:         11-Jan-10         Company:         Novalab         Work Order:         J1068													: J1068
Engineer: Tuyen Truong EUT Desc: MAD Sensor EUT Operating Voltage/Frequency: 3.6 Vdc											: 3.6 Vdc			
Temp:	Temp: 26°C         Humidity: 33%         Pressure: 1009 mBar													
	Frequency Range: 1 -10 GHz Measurement Distance: 3 m													
Notes:	Notes: EUT Max Freq: 928 MHz													
Antenna		Peak	Average	Preamp	Antenna	Cable	Adjusted	Adjusted	FCC Class B High Frequency - Peak FCC Class B High Frequency - Average				y - Average	
Polarization	Frequency	Reading	Reading	Factor	Factor	Factor	Peak Reading	Avg Reading	Limit	Margin	Result	Limit	Margin	Result
(H / V)	(MHz)	(dBµV)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)	(dBµV/m)	(dB)	(Pass/Fail)
			1	lo Emission	s Found, no	oise floor	only							
	Test Site: EMI Chamber 1         Cable 1: Asset #1505         Cable 2: Asset #1507           Analyzer: Asset #1328         Preamp: none         Antenna: Orange Horn													

# **Conducted Spurious Emissions**

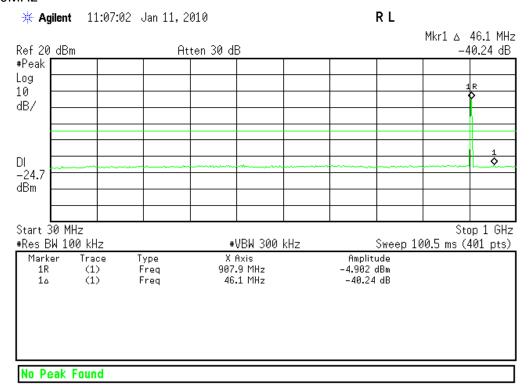
#### **LIMITS**

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth that contains the highest level of desired power...
[15.247(d)]

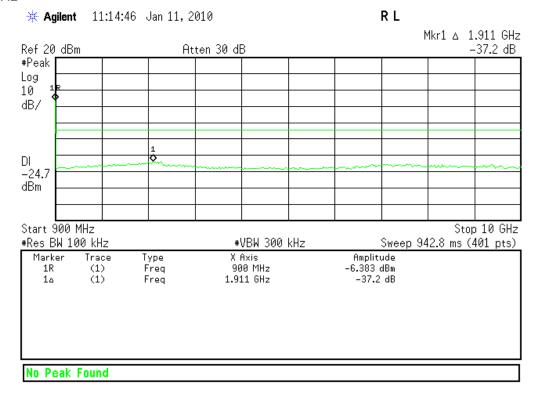
#### **MEASUREMENTS / RESULTS**

#### **Channel 1**

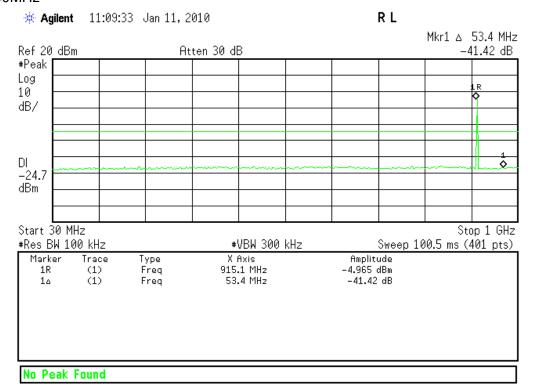
30-1000MHz



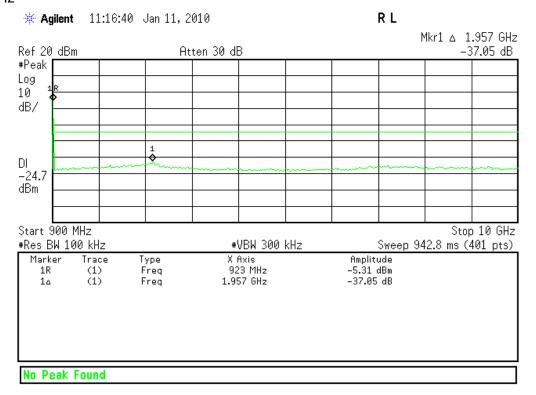
#### 1-10GHz



#### Channel 5 30-1000MHz

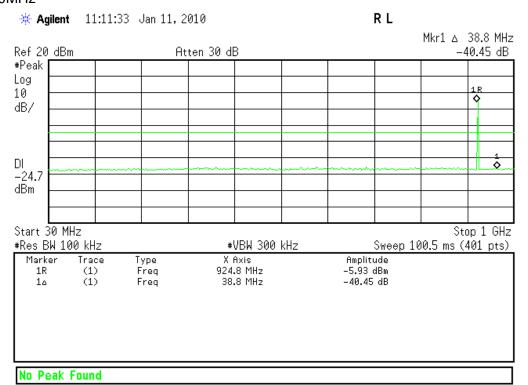


#### 1-10GHz

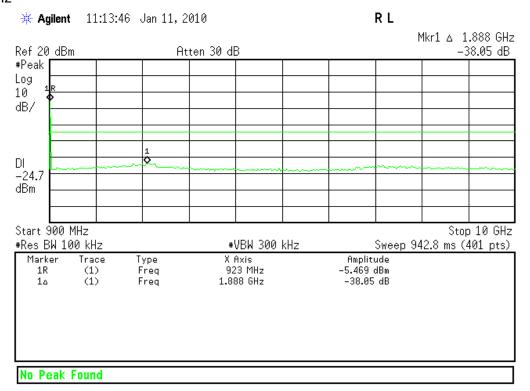


#### **Channel 10**

30-1000MHz



#### 1-10GHz



# **Power Spectral Density**

#### LIMIT

...the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission. [15.247(e)]

#### **MEASUREMENTS / RESULTS**

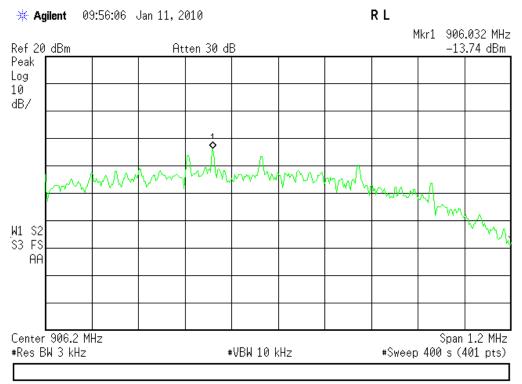
Channel Frequency	Ananlyzer Reading	Attenuator Factor	Final Measurement	Limit	Margin	Result
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(Pass/Fail)
906.2	-13.74	19.4	5.66	8	-2.34	Pass
914.0	-13.78	19.4	5.62	8	-2.38	Pass
924.0	-13.62	19.4	5.78	8	-2.22	Pass

Test Equipments used: Brown Spectrum Analyz 20dB 50Watt Attenuator

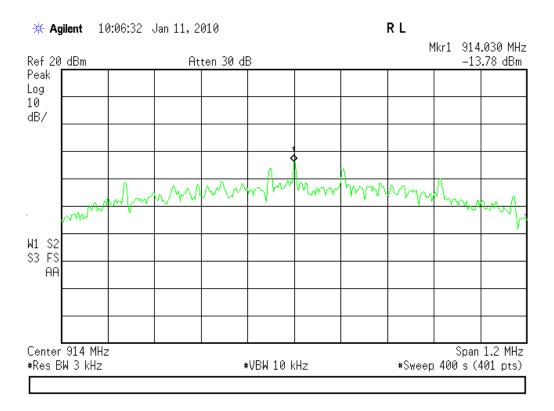
Tested by: Tuyen Truong
Test Date: 1/11/2010

#### **PLOTS**

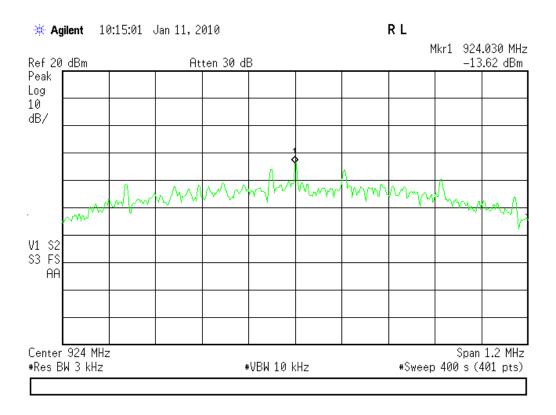
#### Channel 1



#### **Channel 5**



#### **Channel 10**



# **AC Line Conducted Emissions LIMITS**

Frequency of emission (MHz)	Quasi-peak limit (dBµV)	Average limit (dBµV)
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

<sup>\*</sup>Decreases with the logarithm of the frequency.

[47 CFR 15.207(a)]

#### **MEASUREMENTS / RESULTS**

Not applicable, EUT is Battery powered.

# Voltage Variations

#### **REQUIREMENT**

Measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery powered equipment, the equipment tests shall be performed using a new battery. [15.31(e)]

#### **MEASUREMENTS / RESULTS**

Not applicable, EUT is battery powered.

# **Test Equipment Used**

Rev: 25-Jan-2010							
Spectrum Analyzers / Receivers / Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due
Gold	100Hz-26.5 GHz	E4407B	Agilent	MY45113816	1284	- 1	14-Aug-2010
SA EMI Chamber (1328)	9kHz-13.2 GHz	E4405B	Agilent	MY44210241	1328	- 1	16-Dec-2010
Rental SA #1 (Brown)	9kHz-26.5GHz	E4407B	Agilent	SG44210511	1510	I	10-Feb-2010
Radiated Emissions Sites	FCC Code	IC Code	VCCI Code			Cat	Calibration Due
EMI Chamber 1	719150	2762A-6	R-3032, G-106			-1	15-Feb-2011
Preamps /Couplers Attenuators / Filters	Range	MN	Mfr	SN	Asset	Cat	Calibration Due
HF 20dB 50W Attenuator	0.009-18 GHz	PE 7019-20	Pasternack	1	791	II	8-May-2011
HF 30dB 50W Attenuator	0.009-18 GHz	PE 7019-30	Pasternack	2	1168	II	8-May-2011
HF 40dB 50W Attenuator	0.009-18 GHz	PE 7017-40	pasternack	NA	1513	II	8-May-2011
Antennas	Range	MN	Mfr	SN	Asset	Cat	Calibration Due
Red-Black Bilog	30-2000MHz	JB1	Sunol	A091604-2	1106	- 1	28-Oct-2010
Orange Horn	1-18GHz	3115	EMCO	0004-6123	390	I	19-Jun-2011
Meteorological Meters		MN	Mfr	SN	Asset	Cat	Calibration Due
Temp./Humidity/Atm. Pressure Gauge		7400 Perception II	Davis	N/A	965	- 1	6-Apr-2011
CHAMBER1 Thermohygrometer		35519-044	Control Company	72457642	1345	II	18-Aug-2011
CEMI1 Thermohygrometer		35519-044	Control Company	72457738	1335	II	18-Aug-2011

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

### **Product Documentation**

The following documentation has been provided by the client for inclusion in this report.

#### Conditions Of Testing

[Bureau Veritas Consumer Products Services, Inc., a Massachusetts corporation], and/or its affiliates (collectively, the "Company") will conduct, at the request of the Submitter ("Client"), the tests specified on the submitted Test Request Form or equivalent in accordance with, and subject to, the following terms and conditions (collectively, "Conditions"):

- 1. All orders for tests are subject to acceptance by the Company, and no order will constitute a binding commitment of the Company unless and until such order is accepted by it, as evidenced by the issuance of a written report ("Test Report") by the Company. The Test Report is issued solely by the Company, is intended for the exclusive use of Client and shall not be published, used for advertising purposes, copied or replicated for distribution to any other person or entity or otherwise publicly disclosed without the prior written consent of the Company. By submitting a request for services to the Company, Client consents to the disclosure to accreditation bodies of those records of Client relevant to the accreditation body's assessment of the Company's competence and compliance with relevant accreditation criteria. The Company shall not be liable for any loss or damage whatsoever resulting from the failure of the Company to provide its services within any time period for completion estimated by the Company. If Client anticipates using the Test Report in any legal proceeding, arbitration, dispute resolution forum or other proceeding, it shall so notify the Company prior to submitting the Test Report in such proceeding. The Company has no obligation to provide a fact or expert witness at such proceeding unless the Company agrees in advance to do so for a separate and additional fee.
- 2. The Test Report will set forth the findings of the Company solely with respect to the test samples identified therein. Unless specifically and expressly indicated in the Test Report, the results set forth in such Test Report are not intended to be indicative or representative of the quality or characteristics of the lot from which a test sample is taken, and Client shall not rely upon the Test Report as being so indicative or representative of the lot or of the tested product in general. The Test Report will reflect the findings of the Company at the time of testing only, and the Company shall have no obligation to update the Test Report after its issuance. The Test Report will set forth the results of the tests performed by the Company based upon the written information provided to the Company. The Test Report will be based solely on the samples and written information submitted to the Company by Client, and the Company shall not be obligated to conduct any independent investigation or inquiry with respect thereto.
- 3. The Company may, in its sole discretion, destroy samples which have been furnished to the Company for testing and which have not been destroyed in the course of testing. The Company may delegate the performance of all or a portion of the services contemplated hereunder to an affiliate, agent or subcontractor of the Company, and Client consents to such delegation.
- 4. These Conditions and the Test Report represent the entire understanding of the parties hereto with respect to the subject matter hereof and of the Test Report, and no modification, variance or extrapolation with respect thereto shall be permitted without the prior written consent of the Company.
- 5. The names, service marks, trademarks and copyrights of the Company and its affiliates, including the names "BUREAU VERITAS," "BUREAU VERITAS CONSUMER PRODUCTS SERVICES," "BVCPS", "MTL", "ACTS", "MTL-ACTS" and CURTIS-STRAUS (collectively, the "Marks") are and shall remain the sole property of the Company or its affiliates and shall not be used by Client except solely to the extent that Client obtains the prior written approval of the Company and then only in the manner prescribed by the Company. Client shall not contest the validity of the Marks or take any action that might impair the value or goodwill associated with the Marks or the image or reputation of the Company or its affiliates.
- 6. Payment in full shall be due 30 days after the date of invoice. Interest shall be due on overdue amounts from the due date until paid at an interest rate of 1.5% per month or, if less, the maximum rate permitted by law. The Company reserves the right, at any time and from time to time, to revoke any credit extended to Client. Client shall reimburse the Company for any costs it incurs in collecting past due amounts, including court costs and fees and expenses of attorneys and collection agencies. The Test Report may not be used or relied upon by Client if and for so long as Client fails to pay when due any invoice issued by the Company or any affiliate of it to Client or any affiliate or subsidiary of Client together with interest and penalties, if any, accrued thereon.
- 7. The Company disclaims any and all responsibility or liability arising out of or in connection with e-mail transmissions of such information.
- 8. Client understands and agrees that the Company is neither an insurer nor a guarantor, that the Company does not take the place of Client or any designer, manufacturer, agent, buyer, distributor or transportation or shipping company, and that the Company disclaims all liability in such capacities. Client further understands that if it seeks assurance against loss or damage, it should obtain appropriate insurance.
- 9. Client agrees that the Company, by providing the services, does not take the place of Client nor any third party, nor does the Company release them from any of their obligations, nor does the Company otherwise assume, abridge, abrogate or undertake to discharge any duty of any third party to Client or any duty of Client or any third party to any other third party, and Client will not release any third party from its obligations and duties with respect to the tested goods.
- 10. Client shall, on a timely basis, (a) provide adequate instructions to the Company in order to enable the Company to perform properly its services, (b) provide, or cause Client's suppliers and contractors to provide, the Company with all documents necessary to enable the Company to perform its services, (c) furnish the Company with all relevant information regarding Client's intended use and purposes of the tested goods, (d) advise the Company of essential dates and deadlines relevant to the tested goods and (e) fully exercise all rights and remedies available to Client against third parties in respect of the tested goods.
- 11. The Company shall undertake due care and ordinary skill in the performance of its services to Client, and the Company shall accept responsibility only were such skill has not been exercised and, even in such event, only to the extent of the limitation of liability set forth herein.
- 12. If Client desires to assert a claim arising from or relating to (i) the performance, purported performance or non-performance of any services by the Company or (ii) the sale, resale, manufacture, distribution or use of any tested goods, it must submit that claim to the Company in a writing that sets forth with particularity the basis for such claim within 60 days from discovery of the potential claim and not more than six months after the date of issuance of the Test Report to Client. Client waives any and all such claims including, without limitation, claims that the Test Report is inaccurate, incomplete or misleading or that additional or different testing is required, unless and then only to the extent that Client submits a written claim to the Company within both such time periods.

  13. CLIENT SHALL, EXCEPT TO THE EXTENT OF COMPANY'S LIABILITY TO CLIENT HEREUNDER (WHICH IN NO EVENT SHALL EXCEED THE LIMITATION OF LIABILITY HEREIN), HOLD HARMLESS AND INDEMNIFY THE COMPANY, ITS



AFFILIATES AND THEIR RESPECTIVE DIRECTORS, OFFICERS, EMPLOYEES, AGENTS AND SUBCONTRACTORS AGAINST ALL ACTUAL OR ALLEGED THIRD PARTY CLAIMS FOR LOSS, DAMAGE OR EXPENSE OF WHATSOEVER NATURE AND HOWSOEVER ARISING FROM OR RELATING TO (i) THE PERFORMANCE, PURPORTED PERFORMANCE OR NON-PERFORMANCE OF ANY SERVICES BY THE COMPANY OR (ii) THE SALE, RESALE, MANUFACTURE, DISTRIBUTION OR USE OF ANY TESTED GOODS.

- 14. EXCEPT AS MAY OTHERWISE BE EXPRESSLY AGREED TO IN WRITING BY THE COMPANY AND NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN OR IN ANY TEST REPORT, NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE, IS MADE.
- 15. (A) IN NO EVENT WHATSOEVER SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL, INCIDENTAL, EXEMPLARY OR PUNITIVE DAMAGES IN CONNECTION WITH, RELATING TO OR ARISING OUT OF THE TEST REPORT OR THE SERVICES PROVIDED BY THE COMPANY HEREUNDER, INCLUDING WITHOUT LIMITATION LOSS OF OR DAMAGE TO PROPERTY; LOSS OF INCOME, PROFIT OR USE; OR ANY CLAIMS OR DEMANDS MADE AGAINST CLIENT OR ANY OTHER PERSON BY ANY THIRD PARTY IN CONNECTION WITH, RELATING TO OR ARISING OUT OF THE SERVICES PROVIDED BY THE COMPANY HEREUNDER.
- (B)NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN, AND IN RECOGNITION OF THE RELATIVE RISKS AND BENEFITS TO CLIENT AND THE COMPANY ASSOCIATED WITH THE TESTING SERVICES CONTEMPLATED HEREBY, THE RISKS HAVE BEEN ALLOCATED SUCH THAT UNDER NO CIRCUMSTANCES WHATSOEVER SHALL THE LIABILITY OF THE COMPANY TO CLIENT OR ANY THIRD PARTY IN RESPECT OF ANY CLAIM FOR LOSS, DAMAGE OR EXPENSE, OF WHATSOEVER NATURE OR MAGNITUDE, AND HOWSOEVER ARISING, EXCEED AN AMOUNT EQUAL TO FIVE (5) TIMES THE AMOUNT OF THE FEES PAID TO THE COMPANY FOR THE SPECIFIC SERVICES WHICH GAVE RISE TO SUCH CLAIM OR U.S.\$10,000, WHICHEVER IS THE LESSER AMOUNT.
- 16. The Company shall not be liable for any loss or damage resulting from any delay or failure in performance of its obligations hereunder resulting directly or indirectly from any event of force majeure or any event outside the control of the Company. If any such event occurs, the Company may immediately cancel or suspend its performance hereunder without incurring any liability whatsoever to Client.
- 17. Company's services, including these Conditions, shall be governed by, and construed in accordance with, the local laws of the country where the Company performs the tests or, in the case of tests performed in the United States of America, the laws of Massachusetts without regard to conflicts of laws principles. If any aspect(s) of these Conditions is found to be illegal or unenforceable, the validity, legality and enforceability of all remaining aspects of these Conditions shall not in any way be affected or impaired thereby. Any proceeding related to the subject matter hereof shall be brought, if at all, in the courts of the country where the Company performs the tests or, in the case of tests performed in the United States of America, in the courts of Massachusetts. Client waives the right to interpose any counterclaim or setoffs of any nature in any litigation arising hereunder.

Rev.160009121(2)\_#684340 v13CS

#### A2LA Accreditation

#### SCOPE OF ACCREDITATION TO ISO/IEC 17025-1999

CURTIS-STRAUS<sup>1</sup> 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

#### Electromagnetic Compatibility (EMC)

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\*; Oltage Dips\*, Interrupts and Voltage Variations testing\*; Magnetic Immunity testing\*; RF Power measurements\*; 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; SABS CISPR 22; AS/NZS CISPR 22; AS/NZS 3548; Canada ICES- 003; CNS13438; KN 22 (RRL 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 14-1; 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; KN61000-4-8
Voltage Dips and Interrupts	EN 61000-4-11; KN61000-4-11
Low Fraguancy Conducted Dicturbances	EN 61000 2 2

Family Product or Industry Specific Specifications including emissions and/or immunity	GR-1089-CORE; 26R-78-CORE (ESD)  EN50081-1; EN50081-2; EN50082-2; EN50082-1; EN 61000-6-1; EN 61000-6-2; EN 61000-6-3; EN 61000-6-3; EN 61000-6-3; EN 61000-6-3; EN 61000-6-3; EN 61000-6-3; EN 61000-12-2; EN 60001-2-2; EN 60001-2-1; EN 60001-2-3; EN 60001-2-1; EN 60001-2-3; EN 60001-2-1; EN 60001-2-3; EN 60001-2-1; EN 60001-2-3; EN 60001-2-1; EN 60001-2-2; EN 6001-2-2; EN 6001-2-2-2; EN 6001-2-2; EN 6001-2-2-2
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	ASNIZS 4268; ASNIZS 4771; RFS29; Radiocommunications (Data Transmission Equipment Using Spread Spectrum Modulation Techniques); Radiocommunications (Spread Spectrum Devices); Radiocommunications (Short Range Devices); Radiocommunications (Low Interference Potential Devices);

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Other Ra	dio Standards	RTTE 01 (DGT-Taiwan);	
FCC Sta	ndards and Test methods Support TC	R Status	
	pe A – Unlicensed Radio Frequency Dev		
A1	1. 47 CFR Parts 11, 15 and 18		
	2. FCC MP-5.		
	<ol><li>ANSI C63.4-2003,</li></ol>		
A2	1. 47 CFR Part 15,		
	<ol><li>ANSI C63.4-2003,</li></ol>		
A3	1. 47 CFR Part 15,		
	<ol><li>ANSI C63.17-1998,</li></ol>		
	3. ANSI C63.4-2003,		
A4	1. 47 CFR Part 15,		
	2. ANSI C63.4-2003,		
FCC Sco	pe B – Licensed Radio Service Equipme	nt	
Bl	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	01	
	2. ANSI/TIA-603-C (2004)		

Country Specific Standards and Other	
ITU EMC Standards	K.20; K.21; K.41; K.44
Swedish EMC Standards	BAKOM 3336.3
South African EMC Standards other then CISPR	SABS 1718-1; SANS 211/SABS CISPR 11;
equivalents	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 222/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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International standards

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\*.

com Standards	Tit

North American standards FCC 47 CFR Part 68 Telephone Connection of terminal equipment to the telephone 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) Terminal Equipment CS-03 Issue 9 TIA/EIA TSB31-B 1998 TIA-968-A, A1, A2, A3 Telecommunications Telephone Terminal

Equipment Technical Requirements for Connection of Terminal Equipment to the Telephone Network Technical Requirements for SHDSL, HDSL2, HDSL4 Digital Subscriber Line Terminal Equipment T1.TRQ.6-2001 to Prevent Harm to the Telephone Network Industry 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 AS/ACIF S016-2001 Requirements for Customer Equipment for connection to hierarchical digital interfaces 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 AS/ACIF S031-2001

Telecommunications Network -Part 1: General Part 2: Broadband

Part 3: DC, Low Frequency AC and Voice band

ITU-T G.703 Physical/electrical characteristics of hierarchical Digital interfaces

Hong Kong standards HKTA 2011 Network Connection Specification for Connection of Customer Premises Equipment (CPE) to Direct Exchange Lines (DEL) of the Public Switched Telephone Network

Lines (DEL) of the Public Switched Felephone 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 (BRA) based on ITU-T HKTA 2014

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Telecom Standards	<u>Title</u>	European standards (cont'd)	
HKTA 2028	Network connection specification for connection of	TBR 21: 1998	Terminal Equipment (TE); Attachment requirements
	CPE to the PTNs in Hong Kong using digital leased circuits at data rate of 1544 kbit/s		For pan-European approval for connection to the Analogue Public Switched Telephone Networks
HKTA 2029	Network connection specification for connection of		(PSTNs) of TE (excluding TE supporting the voice
	CPE to the PTNs in Hong Kong using digital leased		telephony service) in which network addressing, if
HWT 4 2020	circuits at data rate of 2048 kbit/s	1	provided, is by means of Dual Tone Multi Frequency
HKTA 2030	Network Connection Specification for Connection of	TBR 24: 1997	(DTMF) signaling Business TeleCommunications (BTC); 34 Mbit/s
	Customer Premises Equipment (CPE) to the Public Telecommunications Network (PTN) in Hong Kong using	1BR 24: 1997	Digital Unstructured and structured leased lines
	Digital Leased Circuits at nx64 kbit/s		(D34U and D34S); Attachment requirements for
HKTA 2031	Network Connection Specification for Connection of		Terminal equipment interface
	Customer Premises Equipment (CPE) to the Public	Taiwan standards (DGT)	
	Telecommunications Network (PTN) in Hong Kong using	ADSL01	Asymmetric Digital Subscriber Line Terminal Equipment at
HKTA 2032	Digital Leased Circuits below 64 kbit/s Network Connection Specification for Connection of	ID0002	POTS Splitter Technical Specifications DS1 Equipment Type Approval Guidelines
1111112032	Customer Premises Equipment (CPE) to the Public	IS6100	ISDN Terminal Equipment Technical Specifications
	Telecommunications Networks in Hong Kong using	PSTN01 (non-voice only)	Technical Specifications for Terminal Equipment for
	Asymmetric Digital Subscriber Lines (ADSL) based on ITU-T		Connection to Public Switched Telephone Network
HKTA 2033	Recommendation G.992.1 Network Connection Specification for Connection of	New Zealand standards PTC 200 (non-voice only)	Requirements for Connection of Customer Equipment to
IIK174 2055	Customer Premises Equipment (CPE) to Fixed	1 TC 200 (non-voice only)	Analogue Lines
	Telecommunications Networks in Hong Kong using	PTC 217	Requirements for Bandwidth Management Devices
	Splitterless Asymmetric Digital Subscriber Lines (ADSL)	TNA 117	Telecom 2048 kbit/s Standard Network Interface
F	based on ITU-T Recommendation G.992.2	PTC 270	Interim arrangements for ADSL CPE
European standards TBR 1: 1995	Attachment requirements for terminal equipment to	Singapore Standards	
TBK 1. 1993	Be connected to circuit switched data networks and	IDA TS ADSL	Type Approval Specification for Asymmetric Digital
	Leased circuits using a CCITT Recommendation		Subscriber Line (Full-rate ADSL) Modems
	X.21 interface, or at an interface physically,	IDA TS ADSL 2	Type Approval Specification for Asymmetric Digital
	functionally and electrically compatible with CCITT	IDA TS DI CN 1	Subscriber Line Splitterless (G-Lite) Modems Type Approval Specification for Digital Interfaces based on
	Recommendation X.21 but operating at any data signaling rate up to, and including, 1 984 kbit/s	IDA TS DLCN 1	Type Approval Specification for Digital Interfaces based or hierarchical bit rates of 2048 kbit/s, 34 368 kbit/s and 139 2
TBR 2: 1997	Attachment requirements for Data Terminal	1	kbit/s
	Equipment (DTE) to connect to Packet Switched	IDA TS ISDN 1	Type Approval Specification for connection of Terminal
	Public Data Networks (PSPDNs) for CCITT	1	Equipment to Integrated Services Digital Network (ISDN)
	Recommendation X.25 interfaces at data signaling	IDA TE ISDN 2	Basic Access
	rates up to 1 920 kbit/s utilizing interfaces derived from CCITT Recommendations X.21 and X.21 bit	IDA TS ISDN 2	Type Approval Specification for connection of Terminal Equipment to Integrated Services Digital Network (ISDN)
TBR 3: 1995 + Amdt : 1997	Integrated Services Digital Network (ISDN);	1	Primary Rate Access (PRA)
	Attachment requirements for terminal equipment to	IDA TS PSTN (non-voice only)	Type Approval Specification for connection of Terminal
TDD 4 1005 4 1 1005	connect to an ISDN using ISDN basic access		Equipment to Public Switched Telephone Network (PSTN)
TBR 4: 1995 + Amdt : 1997	Integrated Services Digital Network (ISDN);	South Africa standards	Standard for Talescommission Line Terminal Faviances
	Attachment requirements for terminal equipment to connect to an ISDN using ISDN primary rate access	TE-001 (non-voice only)	Standard for Telecommunication Line Terminal Equipment (TLTE) for Connection to the Public Switched Telephone
TBR 012: 1993 + Amdt : 1996	Business Telecommunications (BT); Open Network		Network (PSTN)
	Provision (ONP) technical requirements; 2 048 kbit/s		
	digital unstructured leased line (D2048U) Attachment		
TBR 013: 1996	requirements for terminal equipment  Business TeleCommunications (BTC): 2.048 kbit/s	1	
IBR 013: 1996	Business TeleCommunications (BTC); 2 048 kbit/s digital structured leased lines (D2048S); Attachment		
	requirements for terminal equipment interface		
(A2LA Cert. No. 1627.01) 3/27/06  Product Safety General test methods: Power input*, Permanence of marking*, Acce	Page 5 of 10 ssibility*, Permissibly limits*, Energy hazard	(A2LA Cert. No. 1627.01) 3/27/06  Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5	Page 6 of 10  Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical
Product Safety General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTly*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im flame*, Needle flame*, Hot flaming oil*, Loc	Page 5 of 10  ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*,	Product Safety Standards 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	<u>Title</u> Classification, requirements and user's guide.
Product Safety General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*	Page 5 of 10  ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge/ voltage ing*, Creepage/ Clearance/ Distance thru Insulation (excluding 1B ond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handfel loading*, Liquid overflow*, Spillage*, Liquid leakage*,	Product Safety Standards IEC 60825-1 2000-5 IEC 60825-2 2000-5 IEC 60825-2 41997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AMZ – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998	Title 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
Product Safety General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W.	Page 5 of 10  ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge/voltage ing*, Creepage/Clearance/Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm/20mm/ ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relie*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-rayy*, Voltage surge*,	Product Safety Standards 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	Title 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
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Product Safety General test methods: Power inputs', Permanence of markings', Acce measurements', SELV circuits', TNV limits*, imitations', Ring signal*, Humidity condition CTI)s', Limited power measurements', Ground Applied force's, Steel sphere impacts', Mold st Component abnormals', Electric strengths', Im fames', Needle flames', Hot flaming oils', Loc Torque's, Insulation resistances', Sound levels' Transformer shorts/overloads', Rain tests', W; Punctionality's, Protective impedance abnorms supply abnormals', Cooling abnormals', Heatir	Page 5 of 10  ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Batter; verves current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Output abnormal*, Multi-	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 4097-11 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	Title 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
Product Safety General test methods: Power inputs, Permanence of marking*, Acce neasurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im lame*, Needle flame*, Hot flaming oil*, Loc Forque*, Insulation resistance*, Sound level* Fransformer shorts/overloads*, Rain test*, W. "unctionality*, Protective impedance abnorm upply abnormal*, Cooling abnormal*, Heatir Product Safety Standards.	Page 5 of 10  ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-rayl*, Voltage surge*, al*, Capacitor short circuit abnormal*, Output abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AMZ – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002	Title 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
Product Safety General test methods: Power inputs*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, ilmitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im Blame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, Wi Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatir Product Safety Standards  Specific Product Safety Standards	Page 5 of 10  ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Batter; verves current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Multi- ug device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*  Title	Product Safety Standards IEC 60825-1 2000-5 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-2 1095 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	Title 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
Product Safety General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Int lame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W. Functionality*, Protective impedance abnorma upply abnormal*, Cooling abnormal*, Heatir Product Safety Standards Specific Product Safety Standards UL 60950 2000	Page 5 of 10  ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all*, Capacitor short circuit abnormal*, Output abnormal*, Multi- ug device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*  Title  Safety of information technology equipment	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AMZ – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002	Title 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
Product Safety General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, ilmitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im Rame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorms supply abnormal*, Cooling abnormal*, Heatir Product Safety Standards. Specific Product Safety Standards UL 60950 2000 IEC 60950 1999 EN 60950 2000	Page 5 of 10  ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Crepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Lackage current*, pulse*, Overvoltage*, Acoustic sound pressure*, L30mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all*, Capacitor short circuit abnormal*, Output abnormal*, Multi- ug device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*  Title  Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including	Product Safety Standards IEC 60825-1 2000-5 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-2 1095 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	Title 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:
Product Safety General test methods: Power inputs*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W. Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 EEC 60950 1999 EN 60950 2000 EEC 60950 12001	Page 5 of 10  ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Batter; verves current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Virbation, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Multi- ug device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*  Title  Safety of information technology equipment Safety of information technology equipment	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60325-1 1995 (Including AMZ – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010-1: 2002 EN 61010-1: 2001  AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003	Title 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
Product Safety General test methods: Power inputs*, Permanence of marking*, Acce neasurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im Jame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 EEC 60950 1999 EN 60950 2000 EEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001	Page 5 of 10  ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Crepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Lackage current*, pulse*, Overvoltage*, Acoustic sound pressure*, L30mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all*, Capacitor short circuit abnormal*, Output abnormal*, Multi- ug device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*  Title  Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including	Product Safety Standards IEC 60825-1 2000-5 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-3 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	Title 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
Product Safety General test methods: Power input*, Permanence of marking*, Acce measurement*, StELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W. Punctionality*, Protective impedance abnorms supply abnormal*, Cooling abnormal*, Heatir Product Safety Standards.  Specific Product Safety Standards UL 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2001	Page 5 of 10  ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Crepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Lackage current*, pulse*, Overvoltage*, Acoustic sound pressure*, L30mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all*, Capacitor short circuit abnormal*, Output abnormal*, Multi- ug device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*  Title  Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60325-1 1995 (Including AMZ – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010-1: 2002 EN 61010-1: 2001  AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003	Title 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
Product Safety General test methods: Power inputs*, Permanence of marking*, Acce neasurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im Jame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, Wi Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 EEC 60950 1099 EN 60950 2000 EEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 SAA C2.2, 2 No. 60950-1 03	Page 5 of 10  ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, Idam, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all*, Capacitor short circuit abnormal*, Spillage*, Liquid leakage*, all*, Capacitor short circuit abnormal*, Rigidity*, Cleaning*  Title  Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, alterical business equipment.  Safety requirements for electrical equipment for measurement,	Product Safety Standards IEC 60825-1 2000-5 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-3 1997-11 21 CFR 1040-10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) IEC 60335-1 1998 CAN/CSA E335-1 1994 UL 61010-1: 2002 EN 61010-1: 2001  AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004 UL 61010-1: 2004	Title 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 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 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 Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety
Product Safety General test methods: Power inputs*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im Jame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, Wi Punctionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatir Product Safety Standards UL 60950 2000 ECE 60950 1099 EN 60950 2000 ECE 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 CSA C22.2 No. 60950-10 SEA C22.2 No. 60950-10 SEC 61010-1 1993 EC 61010-1 1993	Page 5 of 10  Ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge/voltage ing*, Creepage/Clearance/Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, al*, Capacitor short circuit abnormal*, Output abnormal*, Multi- gg 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.	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-3 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 61010-1: 2002 EN 61010-1: 2001  AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950:1: 2003 UL 61010-1: 2004	Title 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 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 Medical Electrical Equipment - Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General
Product Safety General test methods: Power inputs', Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, In flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W. Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatir Product Safety Standards UL 60950 1090 IEC 60950 1090 IEC 60950-1 2000 IEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-103 IEC 61010-1 1993 EN 61010-1 1993, 2001	Page 5 of 10  ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relie*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all*, Capacitor short circuit abnormal*, Output abnormal*, Multi- ug 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,	Product Safety Standards IEC 60825-1 2000-5 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-3 1997-11 21 CFR 1040-10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) IEC 60335-1 1998 CAN/CSA E335-1 1994 UL 61010-1: 2002 EN 61010-1: 2001  AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004 UL 61010-1: 2004	Title 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
Product Safety General test methods: Power inputs*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im lame*, Needle flame*, Hot flaming oil*, Loc forque*, Insulation resistance*, Sound level* Fransformer shorts/overloads*, Rain test*, W. "unctionality*, Protective impedance abnorms supply abnormal*, Cooling abnormal*, Heatir Product Safety Standards UL 60950 2000 EEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-10 3 EEC 61010-1 1993, 2001 EEC 61010-1 1993, 2001 EEC 61010-1 1993, 2001 EEC 61010-1 1901.	Page 5 of 10  Ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge/voltage ing*, Creepage/Clearance/Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, al*, Capacitor short circuit abnormal*, Output abnormal*, Multi- gg 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.	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60325-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 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 UL 60601-1: 2003	Title 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 Equipment - Part 1: General Requirements For Medical Electrical Systems
Product Safety General test methods: Power inputs*, Permanence of marking*, Acce neasurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im Jame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, Wi Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 IEC 60950 1099 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 UL 60950-1 2003 SSA 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 2001	ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Crepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radation (excluding x-rayy*, Voltage surge, al*, 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.	Product Safety Standards IEC 60825-1 2000-5 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-3 1997-11 21 CFR 1040-10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) IEC 60335-1 1998 CAN/CSA E335-1 1994 UL 61010-1: 2002 EN 61010-1: 2001  AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004 UL 61010-1: 2004	Title 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 Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety
Product Safety General test methods: Power inputs*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, ilmitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im Jame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W. Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatir Product Safety Standards UL 60950 2000 EEC 60950 1099 EN 60950 2000 EEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 EC 60101-1 1993 EN 61010-1 1993, 2001 EEC 61010-1 1993, 2001 EEC 61010-1 1993, 2001 EEC 61010-1 1993, 2001 EEC 61010-1 1999 (Including AM 2)	Page 5 of 10  Ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, L30mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all*, Capacitor short circuit abnormal*, Output abnormal*, Multi- gg 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.  Electrical equipment for laboratory use Part 1: General requirements.	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60325-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 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 UL 60601-1: 2003	Title 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 Information Technology Equipment - Safety - 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 Hedical 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 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 Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems
Product Safety General test methods: Power inputs*, Permanence of marking*, Acce neasurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im Jame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, Wi Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 EEC 60950 1099 EN 60950 2000 EEC 60950-1 2001 UL 60950-1 2001 SAA C2.2.2 No. 60950-10 3 EEC 61010-1 1993 EN 61010-1 1993, 2001 EEC 61010-1 1993, 2001 EEC 61010-1 1903, 2001 EEC 61010-1 1903, 2001 EEC 61010-1 1903 CAN/CSAA 1010-1 1999 (Including AM 2)	ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all*, Capacitor short circuit abnormal*, Spillage*, Liquid leakage*, alf*, 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 requirement, 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	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-3 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010-1: 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: 2000	Title 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 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 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 Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Standard: Safety Requirements For Medical Electrical Systems
Product Safety General test methods: Power inputs*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, ilmitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im Jame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W. Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatir Product Safety Standards UL 60950 2000 EEC 60950 1999 EN 60950 2000 EEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 UL 60950-1 2003 ESA C22.2 No. 60950-10 SEC 61010-1 1993 EN 61010-1 1993, 2001 EEC 61010-1 2001 UL 61010B-1 2003 CAN/CSA 1010-1 1999 (Including AM 2) IEC 660601-1 1995	ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge/voltage ing*, Creepage/Clearance/Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, al*, Capacitor short circuit abnormal*, Output abnormal*, Multi- gg 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.	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60325-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 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 UL 60601-1: 2003	Title 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 Medical Electrical Squipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety 1: Collateral Standard: Safety Requirements For Medical Electrical Electrical Electrical Electrical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Medical Electrical Electrical Electrical Electrical Systems Audio, Video and Similar Electronic Apparatus - Safety
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Product Safety General test methods: Power inputs', Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, In flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W. Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 1090 EEC 60950 1999 EEC 60950 1999 EEC 60950-1 2000 LUC 60950 2000 EEC 60950-1 2001 UL 60950 1090 EEC 60950-1 2001 UL 60950 1090 EEC 61010-1 1993 EEN 61010-1 1993, 2001 EEC 61010-1 1993 EEN 61010-1 1995 [Including AM 2) LEC 660601-1 1995 EEN 60601-1 1995 [Including AM 2) UL 2601-1 1997	ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Crepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, al*, Capacitor short circuit abnormal*, Spillage*, Liquid leakage*, al*, 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 Medical electrical equipment for safety.	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-3 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) IEC 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 60665: 2003 CSA 60065: 2003	Title 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 Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Safety - Section 1-1, Collateral Standard: Safety Requirements For Medical Electrical Systems Medical Electrical Safety Requirements For Medical Electrical Systems Medical Electrical Safety Foreignment - 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
Product Safety General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, In flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W. Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatir Product Safety Standards  Specific Product Safety Standards UL 60950 2000 IEC 60950 1999 IEC 60950 1990 IEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 UE 6010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 1993 IEC 61001-1 1990 IEC 60601-1 1995 EN 60601-1 1997	Page 5 of 10  Ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all*, Capacitor short circuit abnormal*, Spillage*, Liquid leakage*, all*, Capacitor short circuit abnormal*, Rigidity*, Cleaning*  Title  Safety of information technology 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	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-3 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) IEC 60335-1 1998 CAN/CSA E335-1 1994 UL 61010-1: 2002 EN 61010-1: 2001  AS/NZS 60950: 2000 EN 60950-1: 2003 UL 61010-1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000 EN 60601-1-1: 2000	Title 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 Safety of household and similar electrical appliances 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
Product Safety General test methods: Power inputs*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W. Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatir Product Safety Standards  Specific Product Safety Standards UL 60950 2000 IEC 60950-1 2001 UL 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 1995 EN 60601-1 1995 EN 60601-1 1995 EN 60601-1 1995 (Including AM 2) IEC 60061-1 1997 IEC 60065 1998, 2000	ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Crepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radation (excluding x-ray)*, Voltage surge, al*, 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. Part 1: General Requirements for safety, Medical electrical equipment. Part 1: General Requirements	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-3 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) IEC 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001  AS/NZS 60950-1: 2001 AS/NZS 60950-1: 2003 UL 61010-1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000 EN 60950-1: 2001  UL 60601-1: 2001	Title 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 1: Collateral Standard: Safety Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety - Section 1-1. Collateral Standard: Safety Requirements for Safety - Section 1-1. Collateral Standard: Safety Requirements For Safety - Section 1-1. Collateral Standard: Safety Requirements For Safety - Section 1-1. Collateral Standard: Safety Requirements For Safety - Section 1-1. Collateral Standard: Safety Requirements For Safety - Section 1-1. Collateral Standard: Safety Requirements For Safety - Section 1-1. Collateral Standard: Safety Requirements For Safety - Section 1-1. Collateral Standard: Safety Requirements For Safety - Section 1-1. Collateral Standard: Safety Requirements Audio, Video and Similar Electronic Apparatus - Safety Requirements
Product Safety General test methods: Power input*, Permanence of marking*, Acce measurement*, StELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*. Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W. Prunctionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatir Product Safety Standards UL 60950 2000 IEC 60950 12001 UL 60950 2000 IEC 60950 12001 UL 60950 2000 IEC 60950 12001 UL 60950 12001	Page 5 of 10  ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, Isame relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, al*, Capacitor short circuit abnormal*, Spillage*, Liquid leakage*, al*, 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	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-3 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) IEC 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 60665: 2003 CSA 60065: 2003	Title 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 Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment - Part 1: General Requirements for Safety y Medical Electrical Equipment - Part 1: General Requirements For 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
Product Safety General test methods: Power inputs*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W. Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatir Product Safety Standards  Specific Product Safety Standards UL 60950 2000 IEEC 60950 1099 EN 60950 2000 IEEC 60950-1 2001 UL 60950-1 2003 UL 60950-1 2003 CSA C22.2 No. 60950-10 3 IEEC 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 600601-1 1995 EN 60601-1 1995 (Including AM 2) IEC 60061-1 1995 IEC 60065 1998, 2000 ANSI/UL 6500: 1998 CAN/CSA 60065-00	ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Crepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radation (excluding x-ray)*, Voltage surge, al*, 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. Part 1: General Requirements for safety, Medical electrical equipment. Part 1: General Requirements	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-3 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) IEC 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001  AS/NZS 60950-1: 2001 AS/NZS 60950-1: 2003 UL 61010-1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000 EN 60950-1: 2001  UL 60601-1: 2001	Title 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 Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety 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 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
Product Safety General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W. Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatir Product Safety Standards UL 60950 2000 IEC 60950 1099 EN 60950 2000 IEC 60950 12001 UL 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 EEC 60950-1 2001 UL 60950-1 2001 IEC 61010-1 1993 EN 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 60606-1 1995 EN 60606-1 1995 EN 60606-1 1995 (Including AM 2) IEC 60606-1 1997 IEC 60606-1 1995 IEC 60606-1 1998 EN SILVIL 6500: 1998 CAN/CSA 60065-00	ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, al*, Capacitor short circuit abnormal*, Output abnormal*, Multi- gg 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 musical instrument apparatus for Household, commercial and similar general use Australian/New Zealand Standard – Approval and test Specification – Mains operated	Product Safety Standards IEC 60825-1 2000-5 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-3 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 60065: 2003 CSA 60065: 2003 IEC 60065: 2001 EN 60065: 2002 EN 60065-2002 EN 60065-1: 1998	Title 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 I: Collateral Standard: Safety Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical
Product Safety General test methods: Power inputs', Permanence of markings', Acce measurements', SELV circuits', TNV limits*, imitations', Ring signal*, Humidity condition CTI)s', Limited power measurements', Ground Applied force's, Steel sphere impacts', Mold st Component abnormals', Electric strengths', In flames', Needle flames', Hot flaming oils', Loc Torque's, Insulation resistances', Sound levels' Transformer shorts/overloads*, Rain test*, W; Punctionality's, Protective impedance abnorm supply abnormals', Cooling abnormals', Heatir Product Safety Standards  Specific Product Safety Standards UL 60950 1090 IEC 66950 1090 IEC 66950 1090 IEC 66950 1000 IEC 66950 12001 IL 60950 2000 IEC 66950-1 2001 IL 60950-1 2003 ICSA C2.2.2 No. 60950-00 CSA C2.2.2 No. 60950-103 IEC 61010-1 1993 IEC 61010-1 1993 IEC 61010-1 1993 IEC 60601-1 1995 IEC 60601-1 1995 IEC 606061-1 1995 IEC 606061-1 1995 IEC 606065-100 ANSIJUL 6500: 1998 CANICSA 60065-00 ANSIJUL 6500: 1998 CANICSA 60065-00 ASNIZS 60065 2000	ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Crepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, Idoham/ 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relit*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, al*, Capacitor short circuit abnormal*, Spillage*, Liquid leakage*, al*, 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. Part 1: General Requirements Medical electrical equipment. Part 1: General Requirements Audio, video and similar electronic apparatus – Safety requirements  Audio/video and musical instrument apparatus for Household, commercial and similar general use Australian/New Zealand Standard – Approval and test Specification – Mains operated electronic and related Equipment for household and similar general use	Product Safety Standards IEC 60825-1 2000-5 IEC 60825-2 1090-11 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 UL 60601-1-1: 2000 EN 60601-1-1: 2000  EN 60601-1-1: 2001  UL 60065: 2003 CSA 60065: 2003 IEC 60065: 2001 EN 60605: 2002	Title 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 Safety of household and similar electrical appliances Part 1: General requirements Safety information technology equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment - Safety - Part1: General Requirements 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 for Safety Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety 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 Safety of Machinery - Electrical Equipment of Machines - Part 1: Specification of General Requirements Compliance Test Specification - Safety and Electrical
Product Safety General test methods: Power inputs*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Int lame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W. Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatir Product Safety Standards UL 60950 2000 EEC 60950 12001 UL 60950 2000 EEC 60950 12001 UL 60950 12001 UL 60950 12001 UL 60950 12001 EEC 60950-1 2001 UL 60950-1 2003 EEC 61010-1 1903 EEC 61010-1 1903 EEC 61010-1 1909 (Including AM 2) UL 610101B-1 2001 UL 61010B-1 2001 UL 61010B-1 2001 UL 61010B-1 1995 (Including AM 2) UL 2601-1 1995 EEN 60601-1 1995 (Including AM 2) EEC 60055 1998 CAN/CSA 60065-00 ANSI/UL 6500: 1998 CAN/CSA 60065-00 ANSI/UL 6500: 1998 CAN/CSA 60065-00 ASI/NZS 60065 2000 Canadian C22-2 No. 1-94 (1-98)	ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge/voltage ing*, Creepage/Clearance/Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, al*, Capacitor short circuit abnormal*, Output abnormal*, Multi- gg 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 Medical electrical equipment Medical electrical equipment. Part 1: General requirements for safety. Audio, video and similar electronic apparatus — Safety requirements Audio/video and musical instrument apparatus for Household, commercial and similar general use Australian/New Zealand Standard — Approval and test Specification — Mains operated electronic and related Eguipment for household and similar general use Audio, video and similar electronic equipment.	Product Safety Standards IEC 60825-1 2000-5 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-3 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 60065: 2003 CSA 60065: 2003 IEC 60065: 2001 EN 60065: 2002 EN 60065-2002 EN 60065-1: 1998	Title 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 requirements Safety information technology equipment Information Technology Equipment - Safety - Part1: General Requirements Information Technology Equipment - Safety - 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 1: Collateral Standard: Safety Requirements For Safety 2: Section 1-1. Collateral Requirements For Medical Electrical Electrica
Product Safety General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, In flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W. 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Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements, control and laboratory use, Part 1: General requirements.  Electrical equipment for laboratory use Part 1: General requirements.  Medical electrical equipment. Part 1: General requirements.  Medical electrical equipment. Part 1: General requirements  Medical electrical equipment. Part 1: General requirements  Medical electrical equipment. Part 1: General requirements  Audio, video and similar electronic apparatus – Safety requirements  Audio/video and musical instrument apparatus for Household, commercial 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 household and similar general use  Audio, video and similar electronic equipment.  Consumer and commercial products	Product Safety Standards IEC 60825-1 2000-5 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-3 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 60065: 2003 CSA 60065: 2003 IEC 60065: 2001 EN 60065: 2002 EN 60065-2002 EN 60065-1: 1998	Title Classification, requirements and user's guide. 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Product Safety General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, ilimitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, In flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W. Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatir Product Safety Standards  Specific Product Safety Standards UL 60950 2000 IEC 60950 1990 IEC 60950 1990 IEC 60950-1 2001 UL 60950 2000 IEC 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-103 IEC 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 2001 UL 60950 1905 CAN/CSA 1010-1 1995 (Including AM 2) IEC 60601-1 1995 EN 60601-1 1995 IEC 60605 1998, 2000 ANSI/UL 6500: 1998 CAN/CSA 60065-00 ASN/ZS 60065-00 ASN/ZS 60065-00 Canadian C22.2 No. 1-94 (1-98)	ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge/voltage ing*, Creepage/Clearance/Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, al*, Capacitor short circuit abnormal*, Output abnormal*, Multi- gg 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 Medical electrical equipment Medical electrical equipment. Part 1: General requirements for safety. Audio, video and similar electronic apparatus — Safety requirements Audio/video and musical instrument apparatus for Household, commercial and similar general use Australian/New Zealand Standard — Approval and test Specification — Mains operated electronic and related Eguipment for household and similar general use Audio, video and similar electronic equipment.	Product Safety Standards IEC 60825-1 2000-5 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-3 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 60065: 2003 CSA 60065: 2003 IEC 60065: 2001 EN 60065: 2002 EN 60065-2002 EN 60065-1: 1998	Title 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 requirements Safety information technology equipment Information Technology Equipment - Safety - Part1: General Requirements Information Technology Equipment - Safety - 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 1: Collateral Standard: Safety Requirements For Safety 2: Section 1-1. Collateral Requirements For Medical Electrical Electrica
Product Safety General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, In flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W. Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatir Product Safety Standards UL 60950 2000 IEC 60950 1999 IEC 60950 1990 IEC 60950-1 2001 UL 60950 1090 IEC 60950-1 2001 UL 60950 1090 IEC 60950-1 2001 UL 60950-1 2001 IEC 6001-1 1993 EN 61010-1 1993 (Including AM 2) UL 2601-1 1997 IEC 60061-1 1995 IEC 60061-1 1995 IEC 60061-1 1998 CAN/CSA 60065-00 ANNI/LI 6500: 1998 CAN/CSA 60065-00 AS/NZS 60065-00 Canadian C22.2 No. 1-94 (1-98) 1994, 1998 EN 60065 1994	ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all*, Capacitor short circuit abnormal*, Spillage*, Liquid leakage*, all*, 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 Me	Product Safety Standards IEC 60825-1 2000-5 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-3 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 60065: 2003 CSA 60065: 2003 IEC 60065: 2001 EN 60065: 2002 EN 60065-2002 EN 60065-1: 1998	Title 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 - 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 1: Collateral Standard: Safety Medical Electrical Equipment - Part 1: General Requirements For Medical 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 Compliance Test Specification - Safety and Electrical Protection Requirements For Subscriber Equipment Connected to the Public Telecommunications Networks
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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 revi- expected to be competent in the use of the current version within one year of the da standard test method or upon the date specified by the standard test method original	te of publication of the tor when the originator
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 will include the superseded date/version. For those that support the TCB/CB status	
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 Register
Drip	IEC 60529	IP-x1 & IP-x2	publication of changes for FCC and 30 days after IC website update. This note shall	
Drops*	ETS 300 019	IEC 60068-2-32	Accreditation Body implication to adopt a more current standard than is required in	
p-	GR-63-CORE Sec 4.3			a regulation or code ()
Dust	IEC 60529	IP-5x & IP-6x	the legal requirement) which is adopted by the lab under their responsibility.	
Firearms Resistance Testing	GR-487	I SACTION		
Fire Resistance	ANSI.T1.319		* On-site test service is available for this technology, test, or method.	
The resistance	GR-63-CORE Sec 4.2	Fire & Needle Flame	-	
Heat Dissipation*	GR-63-CORE Sec 4.1.4	THE de recone Finnie		
Illumination	GR-63-CORE Sec 4.7			
Operational Temperature &	GR-03-CORE Sec 4.7			
Humidity (OpTH)*	ETS 300 019	IEC 60068-2-1 IEC 60068-2-2 IEC 60068-2-14		
		IEC 60068-2-14		
	GR-63-CORE Sec 4.1.2	IEC 00008-2-30		
Salt Fog & Spray	ASTM B117			
Spatial*	GR-63-CORE Sec 2.0 & 3.0			
Spraying-Splashing	IEC 60529	IP-x3 & IP-x4		
Storage (Temperature & Humidity)*	ETS 300 019	IEC 60068-2-1		
Storage (reinperature & riaminary)	L13 300 017	IEC 60068-2-1		
		IEC 60068-2-14		
		IEC 60068-2-14		
		IEC 60068-2-56		
	GR-63-CORE Sec 4.1.1	IEC 00008-2-30		
Vibration	ETS 300 019	IEC 60068-2-6		
Totalon	210 300 017	IEC 60068-2-27		
		IEC 60068-2-29		
		IEC 60068-2-32		
		IEC 60068-2-57		
		IEC 60068-2-64		
		Earthquake, Office &		
	GR-63-CORE Sec 4.4	Transportation		
Water Immersion	IEC 60529	IP-x7 & IP-x8		
		IP-x5 & IP-x6		