Curtis-Straus Test Report

Report No EF0759-1

> Client Dynastream Innovations, Inc.

> > 228 River Ave

Cochrane, Alberta T4C 2C1

403-932-9292 Phone

FRN 0008033557

RSS-210 Issue 6; 47 CFR 15.249

Model SDM2 FCC ID O6RSDM-A IC 3797A-SDMA

Equipment Type Low Power Communications Device Transmitter **Equipment Code** DXX Emission Designator 100MF1D

> Results As detailed within this report

Prepared by

Authorized by

Michael Buchholz – EMC Manager

Issue Date 5/17/06

Conditions of issue This Test Report is issued subject to the conditions stated in 'terms and conditions' section of this report.

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



Table Of Contents

Summary	3
Test Methodology	
Statement of Conformity	
EUT Configuration	
Fundamental Measurement	
Band Edge Measurements	
Radiated Spurious Emissions	
Test Equipment Used	
Terms And Conditions	
A2LA Accreditation	



Summary

This test report supports an application for certification of a transmitter operating pursuant to 47 CFR 15.249 and RSS-210(A2.9). The product is the Dynastream Innovations Wireless Speed and Distance Monitor (Models: SDM2). It is a transmitter that operates in the range 2408-2470MHz.

Test Methodology

Radiated emissions testing is performed according to the procedures specified in ANSI C63.4 (2003) and RSS-GEN. Emissions were maximized by rotating the device around three orthogonal axes as well as varying the test antenna's height and polarity. The standard operating voltage is 1.5VDC. Fresh batteries were used during testing. The environmental conditions are shown below.

Date	Temperature	Humidity
10/24/05	22.6°C	34%
10/27/05	24.1°C	29%

Frequency range investigated: 30MHz – 25GHz

Measurement distance: 30MHz – 2GHz 3m

3 – 25GHz 1m



Statement of Conformity

The SDM2 has been found to conform to the following parts of 47 CFR and RSS 210 as detailed below:

RSS-GEN	RSS 210	Part 15	Comments
5.3		15.15(b)	There are no controls accessible to the user that vary the output power.
5.2		15.19	The label is shown in the label exhibit.
7.1.5		15.21	Information to the user is shown in the instruction manual exhibit.
		15.27	No special accessories are required for compliance.
7.1.4		15.203	The antenna for this device is hardwired to the PCB.
	2.6	15.205 15.209	The fundamental is not in a Restricted band and the spurious and harmonic emissions in the Restricted bands comply with the general emission limits of 15.209.
7.2.2		15.207	EUT meets the AC Line conducted emissions requirements of 15.207.
	A2.9	15.249	The unit complies with the requirements of 15.249



EUT Configuration

EUT Configuration

Work Order: F0759

Company: Dynastream Innovations, Inc.

Company Address: 228 River Ave

Cochrane, Alberta T4C 2C1

Contact: Victor Beda

MN SN

1

EUT: SDM2

EUT Description: Wireless Speed and Distance Monitor

EUT Max Frequency: 2470MHz

Support Equipment: MN SN

none

EUT Cables:QtyShielded?LengthFerritesnone1Yes6ftNo

Unpopulated EUT Ports: Qty Reason

None

Software / Operating Mode Description:

SDM-A transmits an approximately 200µs pulse every 246ms in normal operation. The different samples make possible both normal operation and CW mode at the lowest, middle, and highest frequency.



Fundamental Measurement

LIMIT

Average: $50\text{mV/m} = 93.9\text{dB}\mu\text{V/m} @ 3\text{m} [15.249(a)]$

Peak: 93.9dBµV/m + 20dB = 113.9dBµV/m @ 3m [15.35(b)]

Note: If Peak measurements meet Average limits, then Average measurements are not required.

MEASUREMENTS

undam	ental									(Curtis-Str	aus LL(
Date:	Date: 24-Oct-05			Company: Dynastream						W	ork Order:	F0759
Engineer:	David Harris		1	EUT Desc:	SDM2							
									Measuremen	t Distance: 3	3 m	
Notes:	Averageing fa	actor = -53.98	3dB, (-20dE	3 max)						RBW:	1MHz	
	On time = 20	Ous, Ave fact	or = 20log(0.2/100) av	eraged o	ver 100ms				VBW:	3MHz	
Antenna			Preamp	Antenna	Cable	Adjusted		FCC 15.249)			
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading	Limit	Margin	Result			
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)			
Hpk	2402.0	70.6	0.0	29.7	2.8	103.1	114.0	-10.9	Pass			
Have	2402.0	50.6	0.0	29.7	2.8	83.1	94.0	-10.9	Pass			
Hpk	2456.0	72.5	0.0	29.9	2.9	105.3	114.0	-8.7	Pass			
Have	2456.0	52.5	0.0	29.9	2.9	85.3	94.0	-8.7	Pass			
Hpk	2478.0	72.3	0.0	29.9	2.9	105.1	114.0	-8.9	Pass			
Have	2478.0	52.3	0.0	29.9	2.9	85.1	94.0	-8.9	Pass			
Table	e Result:	Pass	by	-8.7	dB				Wo	rst Freq:	2456.0	MHz
Test Site:	"T"	Pre-Amp:	none	Cable:	EMIR-H	IGH 5	Analyzer:	Yellow		Antenna:	Orange Hori	า



Band Edge Measurements

LIMITS

Average: 50dB below level of Fundamental OR

General radiated emission limits of 15.209

"...whichever is the lesser attenuation." [15.249(d)]

Peak: {Average limit} + 20dB [15.35(b)]

Note: If Peak measurements meet Average limits, then Average measurements are not required.

MEASUREMENTS

Band Ed	lges								Curtis-	Straus LLC
Date:	24-Oct-05			Company:		Work Order: F0759				
Engineer:	David Harris			EUT Desc:	SDM2					
						I	Measuremer	nt Distance:	3 m	
Notes:								RBW:	1MHz	
								VBW:	3MHz	
Antenna			Preamp	Antenna	Cable	Duty Cycle	Adjusted		FCC Class	вВ
Polarization	Frequency	Reading	Factor	Factor	Factor	Factor	Reading	Limit	Margin	Result
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)
If high channel is	s at 2.470GHz									
Hpk	2483.6	34.9	0.0	30.0	2.9	0.0	67.8	74.0	-6.2	Pass
Have	2483.6	34.9	0.0	30.0	2.9	20.0	47.8	54.0	-6.2	Pass
If lowest channe	l is 2.408GHz									
Hpk	2399.9	37.8	0.0	29.7	2.8	0.0	70.3	74.0	-3.7	Pass
Have	2399.9	37.8	0.0	29.7	2.8	20.0	50.3	54.0	-3.7	Pass
Table	e Result:	Fail	by	10.9	dB		Wo	orst Freq:	2399.9	MHz
Test Site:	"T"	Pre-Amp:	none	Cable:	EMIR-HIG	H 5	Analyzer:	Yellow	Antenna:	Orange Horn

Highest channel had to be changed to 2470MHz and the lowest to 2408MHz.



Radiated Spurious Emissions

LIMITS

Average: $500\mu V/m = 53.9dB\mu V/m @ 3m [15.249(a), (b), and (d)]$

Peak: $53.9 dB \mu V/m + 20 dB = 73.9 dB \mu V @ 3m [15.249(d)]$

Note: If Peak measurements meet Average limits, then Average measurements are not required.

MEASUREMENTS

Radiated	Emissi	ons Tab	ole								Curtis-St	raus LLC
Date:	27-Oct-05			Company:	Dynastr	eam				V	Vork Order:	F0759
Engineer:	David Harris		I	EUT Desc:	SDM2							
	Freque	ncy Range:	30-2000M	Hz				ı	Measuremer	nt Distance:	3 m	
Notes:										RBW:	120kHz	
										VBW:	300kHz	
Antenna			Preamp	Antenna	Cable	Adjusted	С	ISPR Class	В		FCC Class I	3
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading	Limit	Margin	Result	Limit	Margin	Result
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)	(dBµV/m)	(dB)	(Pass/Fail)
V	481.1	16.9	25.5	17.9	3.0	12.3	47.5	-35.3	Pass	46.0	-33.8	Pass
V	595.0	27.4	25.2	19.3	3.5	25.0	47.5	-22.5	Pass	46.0	-21.0	Pass
V	667.8	17.4	24.3	20.5	3.7	17.3	47.5	-30.2	Pass	46.0	-28.7	Pass
V	726.0	24.3	24.6	20.7	4.0	24.4	47.5	-23.1	Pass	46.0	-21.6	Pass
V	747.8	12.5	24.4	21.3	4.1	13.5	47.5	-34.0	Pass	46.0	-32.5	Pass
V	815.7	17.0	24.1	22.0	4.3	19.2	47.5	-28.3	Pass	46.0	-26.8	Pass
Table	Result:	Pass	by	-21.0	dB				Wo	orst Freq:	595.0	MHz
Test Site:	"T"	Pre-Amp:	Red	Cable:	EMIR-0	8	Analyzer:	Yellow		Antenna:	Red-Black	

Date:	24-Oct-05			Company:	Dynastre	eam				W	ork Order:	F0759
Engineer:	David Harris		I	EUT Desc:	SDM2							
	Freque	ncy Range:	2-25GHz						Measuremer	nt Distance:	1 m	
Notes:										RBW:	1MHz	
										VBW:	3MHz	
Antenna			Preamp	Antenna	Cable	Adjusted				F	CC Class	3
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading	Limit	Margin	Result	Limit	Margin	Result
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)	(dBµV/m)	(dB)	(Pass/Fail
Hpk	4942.5	48.1	19.7	34.1	4.5	67.0				83.5	-16.5	Pass
Have	4942.5	28.1	19.7	34.1	4.5	47.0				63.5	-16.5	Pass
Hpk	7365.0	48.6	16.4	37.0	5.8	75.0				83.5	-8.5	Pass
Have	7365.0	28.6	16.4	37.0	5.8	55.0				63.5	-8.5	Pass
Hpk	9835.0	39.0	17.0	38.6	6.6	67.2				83.5	-16.3	Pass
Have	9835.0	19.0	17.0	38.6	6.6	47.2				63.5	-16.3	Pass
Hpk	12285.0	40.7	16.4	38.6	7.8	70.7				83.5	-12.8	Pass
Have	12285.0	20.7	16.4	38.6	7.8	50.7				63.5	-12.8	Pass
Table	e Result:	Pass	by	-8.5	dB				Wo	rst Freq:	7365.0	MHz
Test Site:		Pre-Amp:	Yel-Blk	Cable:	EMIR-H EMIR-H		Analyzer: Analyzer:	0	770	Antenna:		1



Test Equipment Used

SDECTRUM ANALYZED	oc/ Da	NOF							v. 28-OCT-	2005	
SPECTRUM ANALYZER RECEIVERS	rs/ RA	NGE	MN	MFR	SN		,	ASSET	Сат		CALIBRATION DUE
RED	9kHz-	-1.8GHz {	3591E	HP	3441A03	559		00024	ı		13-JAN-2006
WHITE	9kHz		3593E	HP	3547U01			00022	- 1		08-MAR-2006
BLUE	9kHz-		3591E	HP	3223A00			00070	- 1		03-NOV-2005
YELLOW	9kHz-		3594E	HP	3523A01			00100	1		20-APR-2006
GREEN			3593E	HP	3829A03			00143	i		02-AUG-2006
BLACK			3596E	HP	3710A00			00337	i		27-DEC-2005
YELLOW-BLACK			3585A	HP	2504A05			00030	i		Out of Service
TELECOM 3585A			3585A	HP	1750A02			01067	i		04-FEB-2006
ORANGE			4407B	HP	US39440			00394			22-JUN-2006
EMI TEST RECEIVER			SVS30	R&S	827957/0			01098	i		27-OCT-2006
OPEN AREA TEST S	ITE (OATS)		C CODE		IC CODE	'		CODE	Сат	(CALIBRATION DUE
SITE F			3448		IC 2762-F			688	II		04-APR-2007
SITE T			3448		IC 2762-T			905	II		14-AUG-2007
SITE A		9	3448		IC 2762-A		R-	903	II		13-AUG-2007
SITE M		9	3448		IC 2762-M		R-	904	II		19-MAR-2007
PREAMPS / ATTENUATORS /	,										
FILTERS	RANGE		MN		MFR		SN		ASSET	Сат	CALIBRATION DUE
RED	0.10-2000MHz		1000-LN		C-S		N/A		00798	II.	08-APR-2006
BLUE	0.01-2000MHz		1000-LN		C-S		N/A		00759	II	03-AUG-2006
BLUE-BLACK	0.01-2000MHz		1000-LN		C-S		N/A		00800	II	10-FEB-2006
GREEN	0.01-2000MHz		1000-LN		C-S		N/A	١	00802	II	21-JUL-2006
BLACK	0.01-2000MHz		1000-LN		C-S		N/A		00799	II	25-AUG-2006
ORANGE	0.01-2000MHz	ZFL-	1000-LN		C-S		N/A	١	00765	II	10-FEB-2006
WHITE	1-20GHz	SM	1C-12A		C-S		4266	43	00760	II	04-AUG-2006
Brown	1-20GHz	PM2-38-2	18-4R5-17- SFF	-15-	C-S	ı	PL16	55	1132	II	27-JUN-2006
YELLOW-BLACK	1-20GHz	SM	1C-12A		C-S		5350	55	00801	II	25-AUG-2006
HF (YELLOW)	18-26.5GHz	AFS4-180	02650-60-8	3P-4	C-S		4675	59	00758	II	23-AUG-2007
HIGH PASS FILTER	1-18 GHz	SPA	-F-55204		K&L		36		00817	II	06-JAN-2006
Low Pass Filter	1-9 GHz	11SL10-41	100/X4400-	0/0	K&L		4		00816	II	06-JAN-2006
HF 20DB 50W ATTENUATOR	0.03-20 GHz	PE.	7019-20		PASTERNACK		01		00791	II	10-MAY-2007
HF 30DB 50W ATTENUATOR	0.03-20 GHz		7019-30		PASTERNACK		02		1168	ii	10-MAY-2007
Low Freq LPF	10-100ĸHz		0K1G1				4460-0		1019	ii	
		LZU	UKIGI		MICROWAVE CIRCUITS		DC043				OUT OF SERVICE
Low Freq LPF	10-100kHz	L20	0K1G1		MICROWAVE CIRCUITS		4777-0 DC043		1088	II	30-AUG-2006
	Divise					100					
ANTENNAS	RANGE	MN	MFI	R	SN	Ass	SET	Ca T		CALIBI	RATION DUE
GREEN BILOG	30-2000MHz	CBL6112B	Сна	SE	2742	006	320	II		06- <i>A</i>	NPR-2006
GREEN-BLACK BILOG	30-2000MHz	CBL6112B	CHAS	SE	2412	001	127	П		06-	IAN-2006
GREEN-RED BILOG	30-2000MHz	CBL6112B	Сна		2435	009		Ш			OF SERVICE
BLUE BILOG	30-1000MHz	3143	EMC		1271	300		ii			MAY-2007
GRAY BILOG	20-2000MHz	3141	EMC		9703-1038	000		ii	06-MAY		л) / 05-AUG-2006(RFI
YELLOW-BLACK BILOG	20-2000MHz	CBL6140A	CHAS		1112	001		ii			л) / 12-AUG-2006(RFI
RED-WHITE BILOG	30-2000MHz	JB1	SUN		A091604-1	011		ii			SEP-2006
RED-BLACK BILOG	30-2000MHz	JB1	SUN		A091604-1	011		ii			SEP-2006
YELLOW HORN	1-18GHz	3115	EMC		9608-4898	000		ï	27-MAV		/II) / 05-JUN-2006 (RF
BLACK HORN	1-18GHz	3115	EMC		9703-5148	000		i	= 1 1VI/\\ 1 =		UN-2007
ORANGE HORN	1-18GHz	3115	EMC		0004-6123	000					IUN-2007
	18-26.5GHz							- 1			
HF (WHITE) HORN		801-WLM	WAVE		00758	007		1			UG-2007
SMALL LOOP	9kHz-30MHz	PLA-130/A	ARA		1024	007		!			EB-2006
LARGE LOOP	20Hz-5MHz	6511	EMC		9704-1154	000		I.			IOV-2005
ACTIVE MONOPOLE	30Hz-30MHz	3301B	EMC	Ю.	3824	000		П		04-N	1AY-2006
INDUCTION COIL	50-60Hz	1000-4-8	C-9	_	N/A	007		II			SEP-2007

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



Terms And Conditions

Paragraph 1. SERVICES. LABORATORY will:

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

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

Retain all pertinent records relating to the services performed for a period of three (3) years following submission of the report describing such services, during which period the records will be made available to CLIENT upon reasonable request.

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

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

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

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

Undertake the following:

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

 Furnish such labor and equipment needed by LABORATORY to handle samples at the LABORATORY and to facilitate the specified
- technical services

GENERAL CONDITIONS: Paragraph 3.

- LABORATORY, by the performance of services covered hereunder, does not in any way assume any of those duties or responsibilities customarily vested in the CLIENT, its employees, or any other party, agency or authority.
- LABORATORY shall not be responsible for acts of omissions of any other party or parties involved in the design, manufacture or maintenance of the equipment of the failure of any employee, contractor or subcontractor to undertake any aspect of equipment's design, manufacture or maintenance.
- LABORATORY is not authorized to revoke, alter, release, enlarge or release any requirement of the equipment's design, manufacture or maintenance unless specifically authorized by CLIENT or his authorized representative.

 THE ONLY WARRANTY MADE BY LABORATORY IN CONNECTION WITH ITS SERVICE PERFORMED HEREUNDER IS 33
- THAT IT WILL USE THAT DEGREE OF CARE AND SKILL AS SET FORTH IN PARAGRAPH I ABOVE. NO OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE OR INTENDED FOR SERVICES PROVIDED HEREUNDER. Where the LABORATORY indicates that additional testing is advisable to obtain more valid or useful data, and where such testing has not
- been authorized, CLIENT agrees to view such test reports as inconclusive and preliminary.
- The LABORATORY will supply technical service and prepare a report based solely on the sample submitted to the LABORATORY by the CLIENT. The CLIENT understands that application of the data to other devices is highly speculative and should be applied with
- The LABORATORY agrees to exercise ordinary care in receiving, preserving and shipping (F.O.B. Littleton, MA) any sample to be tested, but assumes no responsibility for damages, either direct or consequential, which arise from loss, damage or destruction of the samples due to the act of examination, modification or testing, or technical services or circumstances beyond LABORATORY's control.
- The LABORATORY will hold samples for thirty (30) days after tests are completed, or until the CLIENT's outstanding debts to the LABORATORY are satisfied, whichever is later.
- 3.9 The CLIENT recognizes that generally accepted error variances apply and agrees to consider such error variances in its use of test data.
 3.10 It is agreed between LABORATORY and CLIENT that no distribution of any tests, reports or analysis other than that described below shall be made to any third party without the prior written consent of both parties unless such distribution is mandated by operation of law. It is agreed that tests, reports, or analysis results may be disclosed to third party auditors of the laboratory at the laboratory facility in the course of accreditation maintenance audits. No reference to reports or technical services of the LABORATORY shall be made in any
- advertising or promotional literature without the express written permission of the LABORATORY.

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

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

Paragraph 4. INSURANCE:

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

Paragraph 5. PAYMENT:



CLIENT shall pay to LABORATORY such fees for services as previously agreed, orally or in writing, within 30 days of presentment of a bill for such services performed. In the event CLIENT ordered, orally or in writing, services but such services were not assigned a rate for billing, such services shall be billed at the LABORATORY's reasonable and customary rate.

CLIENT shall be responsible for all shipping, customs and other expenses related to services provided by LABORATORY to the CLIENT, and shall fully insure any test sample or other equipment provided to LABORATORY by the CLIENT. Amounts overdue from CLIENT to LABORATORY shall be charged interest at a rate of 1½% per month.

5.2

5.3

Paragraph 6. ISO/IEC GUIDE 17025 ADDITIONS:

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



FCC ID: O6RSDM-A IC: 3797A-SDMA

REPORT: EF0759-1

A2LA Accreditation

SCOPE OF ACCREDITATION TO ISO/IEC 17025-1999

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

Valid until: July 31, 2007

Certificate Number: 1627.01

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

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

Test Type	Test Method(s)
Emissions	
Radiated and Conducted Emissions	FCC 47 CFR Parts 15 & 18; C63.4; CISPR 22; ENS5022; SABS CISPR 22; AS/NZS CISPR 22; AS/NZS 3548; Canada ICES-003; CNS13438; KN22; CISPR 11; EN 55011; SABS CISPR 11; AS/NZS CISPR 11; AS/NZS 2064; Canada ICES-001; CNS13803; KN11; CISPR 13; EN 55013; SABS CISPR 13; AS/NZS CISPR 13; AS/NZS CISPR 13; AS/NZS CISPR 14; EN 55014; SABS CISPR 14; AS/NZS CISPR 14; EN 55014-1; SABS CISPR 14; AS/NZS CISPR 14; AS/NZS IO44; CNS 13439; KN14; CISPR 15; EN 55015; KN15; 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."

(A2LA Cert. No. 1627.01) 3/20/06

(A2LA Cert. No. 1627.01) 3/20/06

Page 1 of 10

Page 2 of 10

Od n	1: C. 1 1	DTTF 01 (DCT Tellery)					
Otner Kad	dio Standards	RTTE 01 (DGT-Taiwan);					
FCC Star	FCC Standards and Test methods Support TCB Status						
	FCC Scope A – Unlicensed Radio Frequency Devices						
Al	1. 47 CFR Parts 11, 15 and 18 2. FCC MP-5, 3. ANSI C63.4-2003,						
A2	1. 47 CFR Part 15, 2. ANSI C63.4-2003,						
A3	1. 47 CFR Part 15, 2. ANSI C63.17-1998, 3. ANSI C63.4-2003,						
A4	1. 47 CFR Part 15, 2. ANSI C63.4-2003,						
FCC Scop	oe B – Licensed Radio Service Equipment						
Bl	1. 47 CFR Parts 2, 22, 24, 25, and 27 2. ANSI/TIA-603-C (2004)	ī					
B2	1. 47 CFR Parts 2, 22, 74, 90, 95, an 2. ANSI/TIA-603-C (2004)	d 97					
В3	1. 47 CFR Parts 2, 80, and 87 2. ANSI/TIA-603-C (2004)						
B4	1. 47 CFR Parts 2, 21, 74, and 101 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 equivalents	SABS 1718-1; SANS 211/SABS CISPR 11; SANS 224/SABS CISPR 24; SANS 213/SABS CISPR 13; SANS 2200; SANS214-1/SABS CISPR 14-1; SANS214-2/SABS CISPR 14-2; SANS 215/SABS CISPR 15; SANS 225/SABS CISPR 22
Hong Kong EMC Standards	HKTA 1006; HKTA 1007; HKTA 1008; HKTA 1010; HKTA 1015; HKTA 1026; HKTA 1035; HKTA 1039; HKTA 1041; HKTA 1042; HKTA 1045
Singapore EMC Standards	IDA TS SRD; IDA TS EMC
Jananasa VCCI Standards	VCCLV 2 VCCLV A

(A2LA Cert. No. 1627.01) 3/20/06

Immunity	
Electrostatic Discharge (ESD)	EN 61000-4-2; AS/NZS 61000.4.2; KN61000-4-2
Radiated Immunity (RFI)	EN 61000-4-3, AS/NZS 61000.4.3; KN61000-4-3
Electrical Fast Transient Bursts (EFT)	EN 61000-4-4; AS/NZS 61000.4.4; KN61000-4-4
Surge	EN 61000-4-5, AS/NZS 61000.4.5; KN61000-4-5
Conducted Immunity	EN 61000-4-6, AS/NZS 61000.4.6; KN61000-4-6
Magnetic Immunity	EN 61000-4-8; AS/NZS 61000.4.8; KN61000-4-7
Voltage Dips and Interrupts	EN 61000-4-11; KN61000-4-11
Low Fraguency Conducted Dicturbances	EN 61000 2 2

Family Product or Industry Specific Specifications including emissions and/or immunity	GR-1089-CORE: GR-78-CORE (ESD) EN50081-1; EN50081-2; EN50082-1; EN 61000-6-1; EN 61000-6-2; EN 61000-6-3; EN 61000-6-4; EN 50091-2; EN 55024; CISPR 24 EN 55103-1; EN 55103-2; EN 61326; EN 61547; EN 51030-4; EN 50083-2; EN 60601-1-2; EN 60601-2-23; EN 60601-2-47; IEC 1800-3; EN 61800-3; EN 5000; CISPR 20; EN 60555 Part 2; EN 60555 Part 3; ETS 300 386-1; EN 300 386-2; EN 300 386, ETS 300 132-1; ETS 300 132-2; EN 60669-2-1; ASN/SYS 3200.12; CNS 13783-1; ETR
	283; C62.41
Radiocommunications	
EU R&TTE Radio Standards;	EN 300 220-1; EN 300 220-3; EN 300 330-1; EN 300 330-2; EN 300 440-1; EN 300 440-2; EN 300 328; EN 300 385; EN 301 893
EU R&TTE EMC Standards	EN 300 339; EN 301 489-01; EN 301 489-03; EN 301 489-17
Canada Radio Standards	RSS-102, RSS-117, RSS-118, RSS-119, RSS-123, RSS-125, RSS-128, RSS-129, RSS-130, RSS-131, RSS-132, RSS-133, RSS-134, RSS-135, RSS-136, RSS-137, RSS-138, RSS-141, RSS-142, RSS-170, RSS-181, RSS-182, RSS-187, RSS-182, RSS-181, RSS-191, RSS-192, RSS-192, RSS-192, RSS-192, RSS-192, RSS-193, RSS-194, RSS-193, RSS-193, RSS-194, RSS-193, RSS-194, RSS-194, RSS-194, RSS-194, RSS-194, RSS-195, RSS-195, RSS-194, RSS-194, RSS-194, RSS-195, RSS
Australia/New Zealand Radio Standards	AS/NZS 4268; AS/NZS 4771; RFS29; Radiocommunications (Data Transmission Equipment Using Spread Spectrum Modulation Techniques); Radiocommunications (Spread Spectrum Devices); Radiocommunications (Short Range Devices); Radiocommunications (Low Interference Potential Devices);

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*.

om Standards	Ti	1
Join Standards		

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

hearing aids compatibility. Bulletin Part 68 Rationale and Measurement Guidelines TIA/EIA TSB31-B 1998 Bulletin Part 68 Rationale and Measurement Guidelin (Feb 1998)
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 to Prevent Harm to the Telephone Network Industry TIA-968-A, A1, A2, A3 T1.TRQ.6-2001

Analogue interworking and non-interference Anatogue interworking and non-interterence requirements for Customer Equipment for connection to the Public Switched Telephone Network Requirements for Customer Equipment for connection to hierarchical digital interfaces Requirements for ISDN Basic Access Interface Requirements for ISDN Primary Rate Access Interface Requirements for ISDN Primary Rate Access Interface AS/ACIF S016-2001 AS/ACIF S038-2001 AS/ACIF S043-2001 Requirements for Usbow Financy Rate Access Inters Requirements for Customer Equipment for Connection to a Metallic Local Loop Interface of a Telecommunications Network — Part 1: General Part 2: Broadband Part 3: DC, Low Frequency AC and Voice band

International standards ITU-T G.703 Physical/electrical characteristics of hierarchical

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 Telephone Network (PSTN) in Hong Kong Network Connection Specification for Connection of Customer Premises Equipment (CPE) to the Public Telecommunications Network (PTN) in Hong Kong using ISDN Basic Rate Access (BRA) based on ITU-T HKTA 2014

Recommendations

(A2LA Cert. No. 1627.01) 3/20/06

Page 3 of 10

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		For pan-European approval for connection to the
	circuits at data rate of 1544 kbit/s		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 circuits at data rate of 2048 kbit/s		telephony service) in which network addressing, if provided, is by means of Dual Tone Multi Frequency
HKTA 2030	Network Connection Specification for Connection of		(DTMF) signaling
1111112000	Customer Premises Equipment (CPE) to the Public	TBR 24: 1997	Business TeleCommunications (BTC); 34 Mbit/s
	Telecommunications Network (PTN) in Hong Kong using		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 Digital Leased Circuits below 64 kbit/s	ADSL01	Asymmetric Digital Subscriber Line Terminal Equipment and POTS Splitter Technical Specifications
HKTA 2032	Network Connection Specification for Connection of	ID0002	DS1 Equipment Type Approval Guidelines
THCT A 2032	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	3,	Connection to Public Switched Telephone Network
	Recommendation G.992.1	New Zealand standards	
HKTA 2033	Network Connection Specification for Connection of	PTC 200 (non-voice only)	Requirements for Connection of Customer Equipment to
	Customer Premises Equipment (CPE) to Fixed	PTC 217	Analogue Lines
	Telecommunications Networks in Hong Kong using Splitterless Asymmetric Digital Subscriber Lines (ADSL)	TNA 117	Requirements for Bandwidth Management Devices Telecom 2048 kbit/s Standard Network Interface
	based on ITU-T Recommendation G.992.2	PTC 270	Interim arrangements for ADSL CPE
European standards	bused on 11 of 1 recommendation 0.572.2	1102/0	interim analigements for 11552 of 2
TBR 1: 1995	Attachment requirements for terminal equipment to	Singapore Standards	
	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
	Recommendation X.21 but operating at any data signaling rate up to, and including, 1 984 kbit/s	IDA TS DLCN I	Type Approval Specification for Digital Interfaces based on hierarchical bit rates of 2048 kbit/s, 34 368 kbit/s and 139 264
TBR 2: 1997	Attachment requirements for Data Terminal		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		Equipment to Integrated Services Digital Network (ISDN)
	Recommendation X.25 interfaces at data signaling		Basic Access
	rates up to 1 920 kbit/s utilizing interfaces derived	IDA TS ISDN 2	Type Approval Specification for connection of Terminal
TBR 3: 1995 + Amdt : 1997	from CCITT Recommendations X.21 and X.21 bit		Equipment to Integrated Services Digital Network (ISDN)
1DA 3. 1993 = AMUT : 1997	Integrated Services Digital Network (ISDN); Attachment requirements for terminal equipment to	IDA TS PSTN (non-voice only)	Primary Rate Access (PRA) Type Approval Specification for connection of Terminal
	connect to an ISDN using ISDN basic access	IDA 13131N (non-voice only)	Equipment to Public Switched Telephone Network (PSTN)
TBR 4: 1995 + Amdt : 1997	Integrated Services Digital Network (ISDN);	South Africa standards	Equipment to Fuoric Switched Telephone (1871)
	Attachment requirements for terminal equipment to	TE-001 (non-voice only)	Standard for Telecommunication Line Terminal Equipment
	connect to an ISDN using ISDN primary rate access		(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 requirements for terminal equipment		
TBR 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) 3/20/06	Page 5 of 10	(A2LA Cert. No. 1627.01) 3/20/06	Page 6 of 10
Product Safety		Product Safety Standards	Title
Product Safety General test methods:		Product Safety Standards IEC 60825-1 2001	<u>Title</u> Classification, requirements and user's guide.
General test methods:	ssibility*, Permissibly limits*, Energy hazard	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5	<u>Title</u> Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical
General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*,	Limited current*, Capacitor Discharge / voltage	IEC 60825-1 2001 IEC 60825-2 2000-5	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems
General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition	Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11	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
General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground	Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*,	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10	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
General test methods: Power input*, Pemennec of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*,	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995	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
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	Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1997 & AM 12 – 1997)	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
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General test methods: Power input*, Permanene of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTIJ*, 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*	Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm	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	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
General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTJ1*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im fame*, Needle flame*, Hoft flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorms	Limited current*, Capacitor Discharge / voltage ing*. Creepage / Clearance / Distance trun 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-ray)*, Voltage surge*, if*, Capacitor short circuit abnormal*, Output abnormal*, Multi-	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including dM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998	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
General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTJ1*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im fame*, Needle flame*, Hoft flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorms	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-ray)*, Voltage surge*,	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040-10 IEC 60335-1 1995 (Including AM2 - 1997 & AM 12 - 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002	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
General test methods: Power input*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTJ*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im flame*, Needle flame*, Hot flaming oil*, Loci Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, VF functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin	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-ray)*, Voltage surge*, al*, Capacitor short circuit abnormal*, Output abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*	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	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
General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTJ1*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im fame*, Needle flame*, Hoft flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorms	Limited current*, Capacitor Discharge / voltage ing*. Creepage / Clearance / Distance trun 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-ray)*, Voltage surge*, if*, Capacitor short circuit abnormal*, Output abnormal*, Multi-	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040-10 IEC 60335-1 1995 (Including AM2 - 1997 & AM 12 - 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002	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
General test methods: Power input*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTJ*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im flame*, Needle flame*, Hot flaming oil*, Loci Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, VF functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin	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-ray)*, Voltage surge*, al*, Capacitor short circuit abnormal*, Output abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040-10 IEC 60335-1 1995 (Including AM2 - 1997 & AM 12 - 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002	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
General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTIJ*, 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*, We Functionality*, Protective impedance abnorms supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000	Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance trun 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*, ill mount*, Laser radiation (excluding x-ray)*, Voltage surge*, il*, Capacitor short circuit abnormal*, Output abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 IEC 60335-1 1995 IEC 60335-1 1995 IEC 60335-1 2001 UL 60335-1 2001 UL 60335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment
General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTIJ*, 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*, We Functionality*, Protective impedance abnorms supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1999	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance 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-ray)*, Voltage surge*, il*, Capacitor short circuit abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 1997-11 21 CFR 1040.10 IEC 60335-1 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part1: General Requirements
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*, We Functionality*, Protective impedance abnorms upply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 IEC 60950 1999 IEN 60950 2000	Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acousite 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- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment, including	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040-10 IEC 60335-1 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	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
General test methods: Power input*, Permanece of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTJ1*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im flame*, Needle flame*, Hot flaming oil*, Loci Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wi Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UI. 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2001	Limited current*, Capacitor Discharge / voltage ng*, 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-ray)*, Voltage surge*, il*, Capacitor short circuit abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including 4M2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements
General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTIJ*, 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*, Wi Functionality*, Protective impedance abnorms supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 US CSA C2.2. Z. No. 60950-00	Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acousite 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- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment, including	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 CINCLUMENT AMP - 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements
General test methods: Power input*, Permanene 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*, WF Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 IEC 60950 12003 IEC 60950 12001 IEC 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-1 03	Limited current*, Capacitor Discharge / voltage ing*. Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, respective, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm kcd rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid otenflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment.	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including 4M2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part1: General Requirements Information Technology Equipment — Safety — General requirements 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
General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTIJ*, 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*, Wi Functionality*, Protective impedance abnorms supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 US CSA C2.2. Z. No. 60950-00	Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance trun 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-ray)*, Voltage surge*, rif*, Capacitor short circuit 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.	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040-10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010 -1: 2004 UL 60601-1: 2004	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety
General test methods: Power input*, Permanene 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*, We functionality*, Protective impedance abnorms supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-1 03 IEC 61010-1 1993 IEC 61010-1 1993	Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance trun 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-ray)*, Voltage surge*, til*, Capacitor short circuit abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements.	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 CINCLUMENT AMP - 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part1: General Requirements Information Technology Equipment — Safety — General requirements 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
General test methods: Power input*, Permanene 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*, WF Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 IEC 60950 12003 IEC 60950 12001 IEC 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-1 03	Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance trun 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-ray)*, Voltage surge*, rif*, Capacitor short circuit 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.	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040-10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010 -1: 2004 UL 60601-1: 2004	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety — Part1: General Requirements Information Technology Equipment – Safety — General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Standard: Safety Requirements For Medical Electrical Systems
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*, Loci Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, Wi Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-10 3 IEC 61010-1 1993, 2001 IEC 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010-1 2001 UL 61010-1 2001	Limited current*, Capacitor Discharge / voltage mg*, 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-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Output abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements.	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040-10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010 -1: 2004 UL 60601-1: 2004	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part1: General Requirements Information Technology Equipment — Safety — General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General
General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTIJ*, 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*, We Functionality*, Protective impedance abnorms supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 2000 IEC 60950 12001 UL 60950-1 2001 UL 60950-1 2001 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-10 IEC 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 1993, 2001	Limited current*, Capacitor Discharge / voltage mg*, 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-ray)*, Voltage surge*, 11l*, Capacitor short circuit 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.	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 1907-11 21 CFR 1040.10 IEC 60335-1 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010 -1: 2004 UL 60601-1: 2004	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Electrical Equipment - Part 1: General Requirements For Medical Electrical Electrical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Medical Electrical Electrical Electrical Equipment - Part 1: General Requirements For Medical Electrical Electrica
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*, Wi Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1099 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-10 3 IEC 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010B-1 2003 CAN/CSA 1010-1 1999 (Including AM 2)	Limited current*, Capacitor Discharge / voltage mg*, Creepage / Clearance / Distance that Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, resule*, Overvoltage*, Acoustic sound pressure*, Leakage current*, pusle*, 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*, til*, Capacitor short circuit 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.	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 1907-11 21 CFR 1040.10 IEC 60335-1 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010 -1: 2004 UL 60601-1: 2004	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part1: General Requirements Information Technology Equipment — Safety — General requirements Safety information to the 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 Requirements For Safety - Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Standard: Safety Requirements For Medical Electrical Standard: Safety Requirements For Medical Electrical
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*, Loci Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, Wi Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-10 3 IEC 61010-1 1993, 2001 IEC 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010-1 2001 UL 61010-1 2001	Limited current*, Capacitor Discharge / voltage me*, 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-ray)*, Voltage surge*, 11*, Capacitor short circuit abnormal*, Multi- gg device abnormal*, Interlock 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	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including 4M2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 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	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 ! Collateral Standard: Safety Requirements For Safety ! Collateral Standard: Safety Requirements For Safety ! 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
General test methods: Power input*, Permanene 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*, WF Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 IEC 60950 1099 EN 60950 2000 IEC 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-1 03 IEC 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010B-1 2003 CAN/CSA 1010-1 1999 (Including AM 2) IEC 60601-1 1995	Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, respective of the properties of the	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 1907-11 21 CFR 1040.10 IEC 60335-1 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010 -1: 2004 UL 60601-1: 2004	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part1: General Requirements Information Technology Equipment — Safety — General requirements Information Technology Equipment — Safety — General requirements Information Technology Equipment — Safety — General requirements Hedical Electrical Equipment, Part 1: General Requirements Medical Electrical Equipment - Part 1: General Requirements For Safety — Section 1-1. Collateral Requirements For Medical Electrical 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
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General test methods: Power input*, Permanene 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*, WF Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 IEC 60950 1099 EN 60950 2000 IEC 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-1 03 IEC 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010B-1 2003 CAN/CSA 1010-1 1999 (Including AM 2) IEC 60601-1 1995	Limited current*, Capacitor Discharge / voltage mg*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pubse*, 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- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Electrical equipment for laboratory use Part 1: General requirements. Medical electrical equipment. Part 1: General requirements for safety. Medical electrical equipment Medical electrical equipment Medical electrical equipment. Part 1: General Requirements	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including 4M2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 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	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 — Section 1-1. General Requirements For Safety — Section 1-1. Collateral Standard: Safety Requirements For 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
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*, Wi Functionality*, Protective impedance abnorma upply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 IEC 60950 1909 EN 60950 2000 IEC 60950 1900 IEC 60950 12001 UL 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-10 SCS C22.2 No. 60950-10 SCS C22.2 No. 60950-10 SCS C61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010B-1 2003 CAN/CSA 1010-1 1999 (Including AM 2) IEC 60601-1 1995 EN 60601-1 1995 (Including AM 2)	Limited current*, Capacitor Discharge / voltage ng*, 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-ray)*, Voltage surge*, 11l*, 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 for safety. Medical electrical equipment. Part 1: General Requirements for safety. Audio, video and similar electronic apparatus – Safety	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040-10 IEC 60335-1 1997 EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 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: 2000 EN 60601-1-1: 2000	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 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 - Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Stystems Audio, Video and Similar Electronic Apparatus – Safety Requirements Audio, Video and Similar Electronic Apparatus – Safety Requirements
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General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTIJ*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im flame*, Needle flame*, Hot flaming oil*, Loc Orque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wenterionality*, Protective impedance abnorms supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 IEC 60950 2000 IEC 60950 12001 UL 60950 12001 UL 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-10 SCA C22.2 No. 60950-10 IEC 61010-1 1993 IEC 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010-1 2001 UL 61010-1 2001 UL 61010-1 1995 (Including AM 2) IEC 60065 1998, 2000 ANSI/UL 6500: 1998	Limited current*, Capacitor Discharge / voltage me*, 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-ray)*, Voltage surge*, 111 mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 112 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 for safety. Medical electrical equipment Medica	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 1997-11 21 CFR 1040-10 IEC 60335-1 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: 12003 UL 61010 -1: 2004 UL 6001-1: 2004 UL 60601-1: 2000 EN 60601-1-1: 2001	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part1: General Requirements Information Technology Equipment — Safety — General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Medical Electrical Electrical Standard: Safety Requirements For Medical Electrical Standard: Safety Requirements For Medical Electrical Stystems Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements
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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*, Wi Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1909 IEC 60950 1909 IEC 60950 12001 UL 60950 12001 UE 60950-1 2001 UE 60950-1 2001 UE 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-10 SCSA C22.2 No. 60950-10 IEC 61010-1 1993 IEC 61010-1 1993, 2001 IEC 61010-1 1993 IEC 61010-1 1999 (Including AM 2) IEC 60601-1 1995 IEC 60601-1 1995 (Including AM 2) UL 2601-1 1997 IEC 60065 1998, 2000 ANSI/UL 6500: 1998 CAN/CSA 60065-00 ASN/CSA 60065-00 ASN/CSA 60065-00 ASN/CSA 60065-00 ASN/CSA 60065-00 ASN/CSA 60065-00	Limited current*, Capacitor Discharge / voltage me*, 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*, 130mm / 20mm ked rotor/moter armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 11*, Capacitor short circuit abnormal*, Rugidity*, Cleaning* Title Safety of information technology 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. Medical electrical equipment Medical el	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 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: 2000 EN 60950-1: 2001 UL 61010-1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000 UL 6005: 2003 IEC 60605: 2003 IEC 60065: 2001 EN 60065: 2002	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part1: General Requirements Information Technology Equipment — Safety — General requirements Information Technology Equipment — Safety — General requirements Information Technology Equipment — Part 1: General Requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment + Part 1: General Requirements for Safety — Section 1-1. Collateral Standard: Safety Requirements For Safety — Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Compliance Test Specification — Safety and Electrical
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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*, WF Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 IEC 60950 2000 IEC 60950 12003 IEC 60950 12003 IEC 60950 12003 IEC 60950 12003 IEC 61010-1 1993 IEC 61010-1 1993 IEC 61010-1 1993 IEC 61010-1 1993 IEC 61010-1 1995 IEC 60061-1 1995 IEC 60065 1998, 2000 ANSI/UL 6500: 1998 CAN/CSA 60065-00 AS/NZS 60065-00 AS/NZS 60065-00 Canadian C22.2 No. 1-94 (1-98) 1994, 1998 IEC 60065 1994	Limited current*, Capacitor Discharge / voltage mg*, Creepage / Clearance / Distance trun 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-ray)*, Voltage surge*, til*, Capacitor short circuit 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, safety of information technology equipment, 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. Electrical equipment for laboratory use Part 1: General requirements Medical electrical equipment. Part 1: General requirements for safety. Medical electrical equipment. Part 1: General requirements for safety. Audio, video and similar electronic apparatus — Safety requirements Audio/video and similar electronic apparatus 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 Safety requirements for main operated electronic and related apparatus for household and similar general use	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 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 6005: 2003 CSA 60065: 2003 IEC 60065: 2003 IEC 60065: 2001 EN 60065: 2002 EN 60065: 2002 EN 60204-1: 1998	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 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 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 Safety of Machinery — Electrical Equipment of Machines — Part 1: Specification — Safety and Electrical Protection Requirements Compeliance Test Specification — Safety and Electrical Protection Requirements for Subscriber Equipment Connected to the Public Telecommunications Networks
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*, Loci Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, Wi Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1909 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-10 3 IEC 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010B-1 2003 CAN/CSA 1010-1 1999 (Including AM 2) IEC 60061-1 1995 EN 60601-1 1995 (Including AM 2) UL 2601-1 1997 IEC 60065 1998, 2000 ANSI/UL 6500: 1998 CAN/CSA 60065-00 Canadian C22.2 No. 1-94 (1-98) 1994, 1998	Limited current*, Capacitor Discharge / voltage ng*, 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*, 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*, 11th count*, Capacitor short circuit abnormal*, Rugidity*, 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. Electrical equipment for laboratory use Part 1: General requirements. Medical electrical equipment Medical elect	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 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 6005: 2003 CSA 60065: 2003 IEC 60065: 2003 IEC 60065: 2001 EN 60065: 2002 EN 60065: 2002 EN 60204-1: 1998	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 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 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 Safety of Machinery — Electrical Equipment of Machines — Part 1: Specification — Safety and Electrical Protection Requirements Compeliance Test Specification — Safety and Electrical Protection Requirements for Subscriber Equipment Connected to the Public Telecommunications Networks
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*, WF Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 IEC 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2003 CSA C2.2. 2 No. 60950-10 3 IEC 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 1993 EN 61010-1 1993 EN 61010-1 1999 EN 60950 2000 IEC 60061-1 1995 IEC 60061-1 1995 IEC 60061-1 1995 UL 2601-1 1997 IEC 60061-1 1995 UL 2601-1 1995 UL 2601-1 1995 (Including AM 2) UL 2601-1 1997 IEC 60065 1998, 2000 ANNI/UL 6500: 1998 CAN/CSA 60065-00 AS/NZS 60065-00 Canadian C22.2 No. 1-94 (1-98) 1994, 1998 EN 60065 1994 IEC 60825 1990	Limited current*, Capacitor Discharge / voltage me*, Creepage / Clearance / Distance trun 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*, 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 mount*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements for safety. Medical electrical equipment Part 1: General requirements for safety. Audio, video and similar electronic apparatus — Safety requirements Medical electrical equipment. Part 1: General Requirements for safety. Audio, video and similar electronic apparatus for Household, commercial and similar general use Audio, video and similar general use. Audio, video and similar electronic equipment. Consumer and commercial products Safety requirements for main operated electronic and related apparatus for household and similar general use. Radiatio	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 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 6005: 2003 CSA 60065: 2003 IEC 60065: 2003 IEC 60065: 2001 EN 60065: 2002 EN 60065: 2002 EN 60204-1: 1998	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 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 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 Safety of Machinery — Electrical Equipment of Machines — Part 1: Specification — Safety and Electrical Protection Requirements Compeliance Test Specification — Safety and Electrical Protection Requirements for Subscriber Equipment Connected to the Public Telecommunications Networks
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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 for Household, commercial and similar general use Australian/New Zealand Standard — Approval and test Specification — Mains operated electronic and related Equipment for main operated electronic and related Equipment to Consumer and commercial products Safety requirements for laser from an operated electronic and related apparatus for household and similar general use. Radiation safety of laser products, equipment Classification, requirements and user's guide Safety of laser products Part 1: equipment	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040-10 IEC 60335-1 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010 -1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000 EN 6005: 2003 CSA 60065: 2003 IEC 60065: 2003 IEC 60065: 2001 EN 60065: 2002 EN 60204 -1: 1998 HKTA 2001	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment 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 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 Medical Electrical Equipment - Part 1: Seneral Requirements Sundard: 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 — Safety and Electrical Compected to the Public Telecommunications Networks In Hong Kong
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*, WF Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 IEC 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2003 CSA C2.2. 2 No. 60950-10 3 IEC 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 1993 EN 61010-1 1993 EN 61010-1 1999 EN 60950 2000 IEC 60061-1 1995 IEC 60061-1 1995 IEC 60061-1 1995 UL 2601-1 1997 IEC 60061-1 1995 UL 2601-1 1995 UL 2601-1 1995 (Including AM 2) UL 2601-1 1997 IEC 60065 1998, 2000 ANNI/UL 6500: 1998 CAN/CSA 60065-00 AS/NZS 60065-00 Canadian C22.2 No. 1-94 (1-98) 1994, 1998 EN 60065 1994 IEC 60825 1990	Limited current*, Capacitor Discharge / voltage me*, Creepage / Clearance / Distance trun 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*, 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 mount*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements for safety. Medical electrical equipment Part 1: General requirements for safety. Audio, video and similar electronic apparatus — Safety requirements Medical electrical equipment. Part 1: General Requirements for safety. Audio, video and similar electronic apparatus for Household, commercial and similar general use Audio, video and similar general use. Audio, video and similar electronic equipment. Consumer and commercial products Safety requirements for main operated electronic and related apparatus for household and similar general use. Radiatio	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 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 6005: 2003 CSA 60065: 2003 IEC 60065: 2003 IEC 60065: 2001 EN 60065: 2002 EN 60065: 2002 EN 60204-1: 1998	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 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 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 Safety of Machinery — Electrical Equipment of Machines — Part 1: Specification — Safety and Electrical Protection Requirements For General Requirements Compeliator of General Requirements Compeliator of Safety and Electrical Protection Requirements for Subscriber Equipment Connected to the Public Telecommunications Networks



Environmental Simulation Test Technology Accessibility* Acoustic Noise* Airborne Contaminants Altitude Cold Start*	Test Standard IEC 60529 GR-63-CORE Sec 4.6 GR-63-CORE Sec 4.5 GR-63-CORE Sec 4.1.3 ETS 300 019	Supporting Standards IP-0x thru IP-6x MFG & Hygroscopic Dust IEC 60068-2-1	Note 1. For standards or methods listed on the scope of accreditation without a revision date laboratories are expected to be competent in the use of the current version within one year of publication of the standard test method or upon the date specified by the standard test me originator when the originator has implementation authority. When a superseded standard of is required for an accredited test, the scope will include the superseded date/version. For the support the TCB/CB status of the organization acting as a certifier on behalf of the FCC or expectation is currency within 30 days of Federal Register publication of changes for FCC a	f the date thod method se that C the nd 30
Drip Drops*	IEC 60529 ETS 300 019 GR-63-CORE Sec 4.3	IP-x1 & IP-x2 IEC 60068-2-32	days after IC website update. This note shall not be construed as an Accreditation Body imp to adopt a more current standard than is required in a regulation or code (i.e. the legal requir which is adopted by the lab under their responsibility.	
Dust Firearms Resistance Testing Fire Resistance	IEC 60529 GR-487 ANSI.T1.319 GR-63-CORE Sec 4.2	IP-5x & IP-6x Fire & Needle Flame	* On-site test service is available for this technology, test, or method.	
Heat Dissipation* Illumination Operational Temperature & Humidity	GR-63-CORE Sec 4.1.4 GR-63-CORE Sec 4.7			
(OpTH)*	ETS 300 019	IEC 60068-2-1 IEC 60068-2-2 IEC 60068-2-14 IEC 60068-2-56		
Salt Fog & Spray Spatial*	GR-63-CORE Sec 4.1.2 ASTM B117 GR-63-CORE Sec 2.0 & 3.0			
Spraying-Splashing Storage (Temperature & Humidity)*	IEC 60529 ETS 300 019	IP-x3 & IP-x4 IEC 60068-2-1 IEC 60068-2-2 IEC 60068-2-14 IEC 60068-2-30 IEC 60068-2-56		
Vibration	GR-63-CORE Sec 4.1.1 ETS 300 019	IEC 60068-2-6 IEC 60068-2-27 IEC 60068-2-29 IEC 60068-2-32 IEC 60068-2-57 IEC 60068-2-64		
Water Immersion	GR-63-CORE Sec 4.4 IEC 60529	Earthquake, Office & Transportation IP-x7 & IP-x8		
Water Jet	IEC 60529	IP-x5 & IP-x6		
(A2LA Cert. No. 1627.01) 3/20/06		Page 9 of 10	(A2LA Cert. No. 1627.01) 3/20/06	Page 10 of 10