Curtis-Straus Test Report

Report No EF0699-1

> Client Dynastream Innovations, Inc.

> > 228 River Ave

Cochrane, Alberta T4C 2C1

403-932-9292 Phone

FRN 0008033557

FCC Part 15.249; RSS-210 Issue 6

Model BKM1

FCC ID O6RBKM-A IC 3797A-BKMA

Low Power Communications Device Transmitter Equipment Type

Equipment Code DXX

> 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 Bike Speed / Cadence Monitor (Models BKM1, BKM2, BKM3, BKM4). It is a transmitter that operates at one of 31 channels in the range 2434-2464MHz. The particular frequency for any given sample is chosen by the manufacturer; it cannot be changed by the user.

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. Fresh batteries were used during testing. The standard battery voltage is 3VDC. The environmental conditions are shown below.

Date	Temperature	Humidity
9/27/05	24.8°C	41%
9/28/05	24.7°C	35%

Frequency range investigated: 30MHz – 26GHz

Measurement distance: 30MHz – 7GHz 3m

7 – 26GHz 1m



Statement of Conformity

The Bike Speed / Cadence Monitor has been found to conform to the following parts of 47 CFR 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 is battery powered.
	A2.9	15.249	The unit complies with the requirements of 15.249



EUT Configuration

EUT Configuration

Work Order: F0699

Company: Dynastream Innovations, Inc.

Company Address: 228 River Ave

Cochrane, Alberta T4C 2C1

Contact: Victor Beda

MN SN

EUT: BKM1

1

EUT Description: Bike Speed Sensor EUT Max Frequency: 2465MHz

Support Equipment: MN SN

None

EUT Cables: Qty Shielded? Length **Ferrites**

None

Unpopulated EUT Ports: Qty Reason

None

Software / Operating Mode Description:

Transmits an approximately 230µs pulse every 247.5ms in normal operation. The various 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: $93.9 dB\mu V/m + 20 dB = 113.9 dB\mu V/m @ 3m [15.35(b)]$

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

MEASUREMENTS

Radiated	l Emissi	ons Tab	le						Curtis-	Straus LLC
Date:	27-Sep-05			Company:	Dynastream				Work Order:	F0699
Engineer:	Evan Gould			EUT Desc:	Bike Speed Sens	or				
	Freque	ncy Range:	fundamental				Measure	ment Distance:	3 m	
Notes:	Duty Cycle fa	ctor = 20dB						RBW:	1MHz	
								VBW:	3MHz	
Antenna			Preamp	Antenna	Cable	Duty Cycle	Adjusted	47	7 CFR 15.249	(a)
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)
Hpk	2434.0	61.3	0.0	29.8	2.6	0.0	93.7	113.9	-20.2	Pass
Hpk	2457.0	64.2	0.0	29.9	2.6	0.0	96.7	113.9	-17.2	Pass
Hpk	2465.0	66.1	0.0	29.9	2.6	0.0	98.6	113.9	-15.3	Pass
Hav	2434.0	61.3	0.0	29.8	2.6	20.0	73.7	93.9	-20.2	Pass
Hav	2457.0	64.2	0.0	29.9	2.6	20.0	76.7	93.9	-17.2	Pass
Hav	2465.0	66.1	0.0	29.9	2.6	20.0	78.6	93.9	-15.3	Pass
Table	Result:	Pass	by	-15.3	dB	•	•	Worst Freq:	2465.0	MHz
Test Site:	"T"	Pre-Amp:	none	Cable:	EMIR-HIGH 10		Analyzer	: Orange	Antenna:	Orange Horn

Worse case 100ms on-time: 230µs

Duty Cycle Factor = 20*log(100ms/0.23ms) = 52.8dB (20dB maximum)



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

Radiated	l Emissi	ons Tab	ole						Curtis-	Straus LLC	
Date:	28-Sep-05			Company:	Dynastream			٧	Vork Order:	F0699	
Engineer: Evan Gould				EUT Desc: Bike Speed Sensor							
	Frequency Range: 2400-2483.5MHz Measurement Distance: 3 m										
Notes:								RBW:	1MHz		
								VBW:	3MHz		
Antenna			Preamp	Antenna	Cable	Duty Cycle	Adjusted		47 CFR 15.209		
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)	
High band edge											
Hpk	2485.4	54.5	20.0	30.0	2.6	0.0	67.1	74.0	-6.9	Pass	
Hav	2485.4	54.5	20.0	30.0	2.6	20.0	47.1	54.0	-6.9	Pass	
Low band edge											
Hpk	2399.8	36.6	20.4	29.7	2.5	0.0	48.4	54.0	-5.6	Pass	
Table	Result:	: Pass by -5.6 dB Worst Freq : 2399.8		2399.8	MHz						
Test Site:	"T"	Pre-Amp:	Yel-Blk	Cable:	EMIR-HIGH 10		Analyzer:	Orange	Antenna:	Orange Horn	



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	l Emissi	ons Tab	le						Curtis-	Straus LLC	
Date:	28-Sep-05			Company:	Dynastream			V	Nork Order:	. F0699	
Engineer:	Evan Gould			EUT Desc:	Bike Speed Sen	ISOT					
	Freque	ncy Range:	30MHz-7GHz				Measureme	nt Distance:	3 m		
Notes: RBW: 1MHz											
		VBW: 3MHz									
Antenna		ı 1	Preamp	Antenna	Cable	Duty Cycle	Adjusted		47 CFR 15.2	209	
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)	
Vpk	4867.9	41.8	18.9	35.4	3.8		62.1	74.0	-11.9	Pass	
Vav	4867.9	41.8	18.9	35.4	3.8	20.0	42.1	54.0	-11.9	Pass	
Table Result: Pass by -11.9 dB Worst Freq: 4867.9 MHz						MHz					
Test Site:	"T"	Pre-Amp:	Yel-Blk	Cable:	EMIR-HIGH 10		Analyzer:	. Orange	Antenna	: Orange Horn	
30-1000MHz	>>	Pre-Amp:	Green	Cable:	RFI Cables		Analyzer: Orange Antenna: Yellow-Bl			Yellow-Blk	

Date : 28-Sep-05				Company: I	Ovnastream			٧	Vork Order:	F0699	
	Evan Gould			EUT Desc: Bike Speed Sensor				Test Site: ⊤			
	Freque	ncy Range:	7-26GHz				Measureme	nt Distance:	1 m		
Notes:								RBW: VBW:			
Antenna			Preamp	Antenna	Cable	Duty Cycle	Adjusted		47 CFR 15.2	209	
Polarization (H / V)	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Factor (dB/m)	Factor (dB)	Factor (dB)	Reading (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail	
Vpk Vav	9736.0 9736.0	40.1 40.1	16.4 16.4	38.5 38.5	6.1 6.1	0.0 20.0	68.3 48.3	83.5 63.5	-15.2 -15.2	Pass Pass	
Table	e Result:	Pass	by	-15.2	dB		W	orst Freq:	9736.0	MHz	
7-18GHz >> Pre-Amp: Yel-Blk 18-26GHz >> Pre-Amp: Yellow				EMIR-HIGH 10 EMIR-HIGH 10		Analyzer: Analyzer:	9		Orange Hor White Horn		



Test Equipment Used

SPECTRUM ANALYZE	-DC /	Rangi	_					٨		REV. 16-SEP		
RECEIVERS	:RS/	RANG	= N	ΛN	MFR	SN		А	SSET	Сат		CALIBRATION DUE
RED		9kHz-1.80	GHz 85	91E	HP	3441A035	559	0	0024	. 1		13-JAN-2006
WHITE		9kHz-220	SHz 85	93E	HP	3547U012	252	0	0022	? I		08-MAR-2006
BLUE		9kHz-1.80	GHz 85	91E	HP	3223A002	227	0	0070) [03-NOV-2005
YELLOW		9kHz-2.90		94E	HP	3523A019	958	0	0100) [20-APR-2006
GREEN		9kHz-26.5	GHz 85	93E	HP	3829A036	318	0	0143	3 I		02-AUG-2006
BLACK		9kHz-12.8		96E	HP	3710A009	944	0	0337	' I		27-DEC-2005
YELLOW-BLACK		20Hz-40.0	MHz 35	85A	HP	2504A052	219	0	0030) [Out of Service
TELECOM 3585A	١	20Hz-40.0	MHz 35	85A	HP	1750A027	762	0	1067	' I		04-FEB-2006
Orange		9kHz-26.5	GHz E4	407B	HP	US394409	975	0	0394			22-JUN-2006
EMI TEST RECEIVE	R	20-1000N	1Hz ES	VS30	R&S	827957/0	01	0	1098	<u> </u>		27-OCT-2005
ODEN ADEA TEST	SITE (OAT)	C)	ECC	CODE		IC CODE		/CCI (CODE	САТ		CALIBRATION DUE
OPEN AREA TEST		3)										
SITE F				448		IC 2762-F		R-16		II II		04-APR-2007
SITE T				448		IC 2762-T		R-9		II		14-AUG-2007
SITE A				448 440		IC 2762-A		R-9 R-9		II II		13-AUG-2007
SITE M	1		93	448		IC 2762-M		K-9	04	<u> </u>		19-MAR-2007
MIXERS/DIPLEXERS	RANGE		MN	N	MFR	SN	I		A	ASSET	Сат	CALIBRATION DUI
Mixer / Horn 2	26.5-40 GHz	11970	A/28-442-6	HP	/ATM	2332A01695/A	10469	03-01		1087	ı	23-AUG-2006
	26.5-40 GHz	11970	A/28-442-6		/ATM	3003A07825/A	10469	03-01		1086	1	23-AUG-2006
MIXER / HORN	40-60 GHz		9HW/A		DML	U3011	0-1			0821	1	02-MAR-2007
	60-90 GHz		2HW/A		DML	E3011	0-1			0822	1	03-MAR-2007
	90-140 GHz		N/WH8		OML	F2120				0811	1	03-MAR-2007
	40-220 GHz		5HW/A		OML	G2120				0812	П	OUT OF CALIBRATI
	40-220 GHz		PL.26		OML	N/A	١			0813	ı	03-MAR-2007
PREAMPS / ATTENUATORS	. /											
FILTERS	RAN	IGE	N	IN		MFR		SN		ASSET	Сат	CALIBRATION D
RED	0.10-20	00MHz	ZFL-1	000-LN		C-S		N/A		00798	Ш	08-APR-2006
BLUE	0.01-20	00MHz		000-LN		C-S		N/A		00759	II	03-AUG-200
BLUE-BLACK	0.01-20	00MHz		000-LN		C-S		N/A		00800	İİ	10-FEB-2006
GREEN	0.01-20	00MHz		000-LN		C-S		N/A		00802	П	21-JUL-2006
BLACK	0.01-20	00MHz		000-LN		C-S		N/A		00799	Ш	25-AUG-200
ORANGE	0.01-20	00MHz	ZFL-1	000-LN		C-S		N/A		00765	Ш	10-FEB-2006
WHITE	1-200	GHz		-12A		C-S	4	12664	3	00760	II	04-AUG-2006
Brown	1-200	GHz	PM2-38-218	8-4R5-17 FF	7 -15-	C-S	F	PL165	5	1132	II	27-JUN-2006
YELLOW-BLACK	1-200	GHz		-12A		C-S	į	53505	5	00801	Ш	25-AUG-2006
HF (YELLOW)	18-26.		AFS4-18002		8P-4	C-S		16755		00758	ii	23-AUG-2007
HIGH PASS FILTER	1-18	GHz		-55204		K&L		36		00817	II	06-JAN-2006
Low Pass Filter	1-9 (11SL10-410			K&L		4		00816	ii.	06-JAN-2006
HF 20DB 50W ATTENUATOR				19-20		PASTERNACK		01		00791	ii	10-MAY-2007
HF 30DB 50W ATTENUATOR	0.03-20) GHz		19-30		PASTERNACK		02		1168	II	10-MAY-2007
Low FREQ LPF	10-10	0ĸHz		K1G1		MICROWAVE CIRCUITS		4460-01 DC0432		1019	II	OUT OF SERVICE
Low Freq LPF	10-10	0ĸHz		K1G1		MICROWAVE CIRCUITS		4777-01 DC0434	I	1088	II	30-AUG-2006
ANTENNAS	RANGE		MN	MF	 R	SN	Ass	ET	Са		CALIF	BRATION DUE
ANTENNAS			MN	MF		SN			Т			BRATION DUE
ANTENNAS GREEN BILOG GREEN-BLACK BILOG	RANGE 30-2000MI 30-2000MI	Hz CB	MN L6112B L6112B	MF CHA CHA	SE	SN 2742 2412	006 001	20			06-	BRATION DUE APR-2006 -JAN-2006

ANTENNAS	RANGE	MN	MFR	SN	ASSET	Ca T	CALIBRATION DUE
GREEN BILOG	30-2000MHz	CBL6112B	CHASE	2742	00620	Ш	06-APR-2006
GREEN-BLACK BILOG	30-2000MHz	CBL6112B	CHASE	2412	00127	П	06-JAN-2006
GREEN-RED BILOG	30-2000MHz	CBL6112B	CHASE	2435	00990	Ш	OUT OF SERVICE
BLUE BILOG	30-1000MHz	3143	EMCO	1271	00803	П	06-MAY-2007
GRAY BILOG	20-2000MHz	3141	EMCO	9703-1038	00066	П	06-MAY-2007(EMI) / 05-AUG-2006(RFI)
YELLOW-BLACK BILOG	20-2000MHz	CBL6140A	CHASE	1112	00126	П	06-MAY-2007(EMI) / 12-AUG-2006(RFI)
RED-WHITE BILOG	30-2000MHz	JB1	SUNOL	A091604-1	01105	П	28-SEP-2006
RED-BLACK BILOG	30-2000MHz	JB1	SUNOL	A091604-2	01106	П	28-SEP-2006
YELLOW HORN	1-18GHz	3115	EMCO	9608-4898	00037	- 1	27-MAY-2007(EMI) / 05-JUN-2006 (RFI)
BLACK HORN	1-18GHz	3115	EMCO	9703-5148	00056	- 1	17-JUN-2007
ORANGE HORN	1-18GHz	3115	EMCO	0004-6123	00390	- 1	09-JUN-2007
HF (WHITE) HORN	18-26.5GHz	801-WLM	WAVELINE	00758	00758	- 1	26-AUG-2007
SMALL LOOP	9kHz-30MHz	PLA-130/A	ARA	1024	00755	- 1	23-FEB-2006
LARGE LOOP	20Hz-5MHz	6511	EMCO	9704-1154	00067		12-NOV-2005



ACTIVE MONOPOLE	30Hz-30MHz	3301B	EMCO	3824	00068	П	04-MAY-2006
INDUCTION COIL	50-60Hz	1000-4-8	C-S	N/A	00778	Ш	26-SEP-2007
ADJUSTABLE DIPOLE	30-1000MHz	3121C	EMCO	1370	00757	Ш	18-MAR-2007
ADJUSTABLE DIPOLE	30-1000MHz	3121C	EMCO	1371	00756	Ш	18-MAR-2007
RE101 LOOP SENSOR	30Hz-100kHz	RE101-13.3cm	C-S	N/A	00818	Ш	13-MAR-2007
RS101 RADIATING LOOP	30Hz-100kHz	RS101-12cm	C-S	N/A	00819	Ш	13-MAR-2007
RS101 LOOP SENSOR	30Hz-100kHz	RS101-4CM	C-S	N/A	00820	Ш	13-MAR-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
- 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 to the CLIENT shall not exceed \$100,000 and the laboratory 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: O6RBKM-A IC: 3797A-BKMA

A2LA Accreditation

REPORT: EF0699-1

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 I1; EN 55011; SABS CISPR 11; AS/NZS CISPR I1; AS/NZS 2064; Canada ICES-001; CNS13803; KN11; CISPR 13; EN 55013; SABS CISPR 13; AS/NZS CISPR 13; AS/NZS 1053; KN13; CISPR 13; CISPR 14; AS/NZS 1044; 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

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(A2LA Cert. No. 1627.01) 3/20/06 Page 2 of 10

		t types marked with an asterisk, at other sites f site testing and site calibration laboratories.	
(A2LA Cert. No.	1627.01) 3/20/06	Pag	e 1 of 10
Other Radio Si	andards	RTTE 01 (DGT-Taiwan);	
FCC Standar	ds and Test methods Support TCB St	atus	
	- Unlicensed Radio Frequency Devices		
Al	1. 47 CFR Parts 11, 15 and 18		
	2. FCC MP-5,		
4.2	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,		
	- Licensed Radio Service Equipment		
B1	1. 47 CFR Parts 2, 22, 24, 25, and 27 2. ANSI/TIA-603-C (2004)	/	
B2	1. 47 CFR Parts 2, 22, 74, 90, 95, an	4.07	
102	2. ANSI/TIA-603-C (2004)	u 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)		

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; SANS 214-2/SABS CISPR 14-2; SANS 215/SABS CISPR 15; SANS 225/SABS CISPR 22
Hong Kong EMC Standards	HKTA 1006; HKTA 1007; HKTA 1008; HKTA 1010; HKTA 1015; HKTA 1026; HKTA 1035; HKTA 1039; HKTA 1041; HKTA 1042; HKTA 1045
Singapore EMC Standards	IDA TS SRD; IDA TS EMC
Japanese VCCI Standards	VCCI V-3, VCCI V-4

A Cert. No. 1627.01) 3/20/06	Page 3 of 10

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 Frequency Conducted Disturbances	EN 61000-2-2

GR-1089-CORE; GR-78-CORE (ESD) ENS0081-1; ENS0081-2; ENS0082-1; 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 510130-4; EN 50083-2; EN 60601-1-2; EN 60601-2-24; EN 60601-2-24; EN 60601-2-24; EN 60601-2-38; EN 60601-2-47; IEC 1800-3; EN 55020; CISPR 20; EN 60555 Part 2; EN 60559 Part 3; ETS 300 386-1; EN 303 886-2; EN 300 386, ETS 300 132-1; ETS 300 132-2; EN 6069-2-1; AS/NZS 3200.1.2; CNS 13783-1; ETR 283; CC2.41
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 301 893
EN 300 339; EN 301 489-01; EN 301 489-03; EN 301 489-17
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-141; RSS-142; RSS-101; RSS-191; RSS-193; RSS-195; RSS-210; RSS-212; RSS-213; RSS-215; RSS-243; RSS-GEN; RSS-310; GLS-213; RSS-215; RSS-243; RSS-GEN; RSS-310; GLS-36;
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*. Telecom Standards Title

North American standards	
FCC 47 CFR Part 68 Telephone	Connection of terminal equipment to the telephone
Terminal Equipment	network. Analog and Digital Equipment. TCB Scope C1.
CS-03 Issue 9	Specification for terminal equipment, terminal systems,
	Network protection devices, connection arrangements and
	hearing aids compatibility.
TIA/EIA TSB31-B 1998	Bulletin Part 68 Rationale and Measurement Guidelines
	(Feb 1998)
TIA-968-A, A1, A2, A3	Telecommunications Telephone Terminal
	Equipment Technical Requirements for Connection

Equipment Technical Requirements for Connection of Terminal Equipment to the Telephone Network Technical Requirements for SHDSL, HDSL2, HDSL4 Digital Subscriber Line Terminal Equipment to Prevent Harm to the Telephone Network Industry T1.TRQ.6-2001 Analogue interworking and non-interference

Analogue 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/ACIE S016-2001 AS/ACIF S031-2001 AS/ACIF S038-2001 AS/ACIF S043-2001 Requirements for ISDN Primary Rate Access intera 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

		1	
Telecom Standards	<u>Title</u>	European standards (cont'd)	
HKTA 2028	Network connection specification for connection of	TBR 21: 1998	Terminal Equipment (TE); Attachment requirements
	CPE to the PTNs in Hong Kong using digital leased circuits at data rate of 1544 kbit/s		For pan-European approval for connection to the Analogue Public Switched Telephone Networks
HKTA 2029	Network connection specification for connection of		(PSTNs) of TE (excluding TE supporting the voice
	CPE to the PTNs in Hong Kong using digital leased		telephony service) in which network addressing, if
HKTA 2030	circuits at data rate of 2048 kbit/s Network Connection Specification for Connection of		provided, is by means of Dual Tone Multi Frequency (DTMF) signaling
	Customer Premises Equipment (CPE) to the Public	TBR 24: 1997	Business TeleCommunications (BTC); 34 Mbit/s
	Telecommunications Network (PTN) in Hong Kong using Digital Leased Circuits at nx64 kbit/s		Digital Unstructured and structured leased lines (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
	Customer Premises Equipment (CPE) to the Public	IS6100	ISDN Terminal Equipment Technical Specifications
	Telecommunications Networks in Hong Kong using Asymmetric Digital Subscriber Lines (ADSL) based on ITU-T	PSTN01 (non-voice only)	Technical Specifications for Terminal Equipment for Connection to Public Switched Telephone Network
	Recommendation G.992.1	New Zealand standards	·
HKTA 2033	Network Connection Specification for Connection of Customer Premises Equipment (CPE) to Fixed	PTC 200 (non-voice only)	Requirements for Connection of Customer Equipment to Analogue Lines
	Telecommunications Networks in Hong Kong using	PTC 217	Requirements for Bandwidth Management Devices
	Splitterless Asymmetric Digital Subscriber Lines (ADSL)	TNA 117	Telecom 2048 kbit/s Standard Network Interface
European standards	based on ITU-T Recommendation G.992.2	PTC 270	Interim arrangements for ADSL CPE
TBR 1: 1995	Attachment requirements for terminal equipment to	Singapore Standards	
	Be connected to circuit switched data networks and	IDĀ TS ADSL	Type Approval Specification for Asymmetric Digital
	Leased circuits using a CCITT Recommendation X.21 interface, or at an interface physically,	IDA TS ADSL 2	Subscriber Line (Full-rate ADSL) Modems Type Approval Specification for Asymmetric Digital
	functionally and electrically compatible with CCITT		Subscriber Line Splitterless (G-Lite) Modems
	Recommendation X.21 but operating at any data	IDA TS DLCN 1	Type Approval Specification for Digital Interfaces based on
TBR 2: 1997	signaling rate up to, and including, 1 984 kbit/s Attachment requirements for Data Terminal		hierarchical bit rates of 2048 kbit/s, 34 368 kbit/s and 139 264 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 Recommendation X.25 interfaces at data signaling		Equipment to Integrated Services Digital Network (ISDN) Basic Access
	rates up to 1 920 kbit/s utilizing interfaces derived	IDA TS ISDN 2	Type Approval Specification for connection of Terminal
TDD 2, 1005 A 4, 1007	from CCITT Recommendations X.21 and X.21 bit		Equipment to Integrated Services Digital Network (ISDN)
TBR 3: 1995 + Amdt : 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		Equipment to Public Switched Telephone Network (PSTN)
TBR 4: 1995 + Amdt : 1997	Integrated Services Digital Network (ISDN); Attachment requirements for terminal equipment to	South Africa standards TE-001 (non-voice only)	Standard for Telecommunication Line Terminal Equipment
	connect to an ISDN using ISDN primary rate access	1E-001 (non-voice only)	(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 General test methods:		Product Safety Standards IEC 60825-1 2001	Title Classification requirements and user's quide
General test methods: Power input*, Permanence of marking*, Acces	ssibility*, Permissibly limits*, Energy hazard	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical
General test methods: Power input*, Permanence of marking*, Access 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 conditioni	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*, Accesseasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str	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 conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imp	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*, publes*, 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
General test methods: Power input*, Permanence of marking*, Accemeasurement*, 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*, Implame*, Needle flame*, Het flaming oil*, Lock	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*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Implame*, Needle flame*, Hot flaming oil*, Locl Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa	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	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
General test methods: Power input*, Permanence of marking*, Accessmeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditiont CTIP*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Implame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma	Limited current*, Capacitor Discharge / voltage ing*. Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, reses*, Battery reverse current*, Ball 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*, ill mount*, Laser radiation (excluding x-ray)*, Voltage surge*, ill*, 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 4M2 – 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*, Accemeasurement*, 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*, Implame*, Needle flame*, Hedt flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer short/soverloads*, Rain test*, Was 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*, alt*, Capacitor short circuit abnormal*, Output abnormal*, Multig 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*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditiont CTIP*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Inm flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma	Limited current*, Capacitor Discharge / voltage ing*. Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, reses*, Battery reverse current*, Ball 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*, ill mount*, Laser radiation (excluding x-ray)*, Voltage surge*, ill*, 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 CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Implame*, Needle flame*, Hedt flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer short/soverloads*, Rain test*, Wa 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*, alt*, Capacitor short circuit abnormal*, Output abnormal*, Multig 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*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signalt*, Humidity condition (CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str. Component abnormal*, Electric strength*, Implame*, Needle flame*, Hot flaming oil*, Loci Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma upply abnormal*, Cooling abnormal*, Heatin Product Safety Standards **Decific Product Safety Standards** Ut. 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 verflow*, 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* <u>Title</u> 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 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 Information Technology Equipment – Safety – Part1:
General test methods: Power iputs*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Implame*, Needle flame*, Hot flaming oil*, Loci Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 EEC 60950 1999	Limited current*, Capacitor Discharge / voltage ng*, 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*, 11th, 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	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) 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*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Implame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer short/soverloads*, Rain test*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950 1909 EN 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 verflow*, 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* <u>Title</u> 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 (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 inputs*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition (CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold sto Component abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Loci Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards. Specific Product Safety Standards UL 60950 2000 IEC 60950 2000 IEC 60950-1 2001 UL 60950-1 2001	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*, 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	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) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and
General test methods: Power input*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Implame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer short/soverloads*, Rain test*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950 1909 EN 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*, 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	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 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 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*, Accemeasurement*, 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*, Implame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 IEC 60950 1999 IEC 60950-1 2001 UL 60950-1 2003 UL 60950-1 2003 CSA C22.2 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*, 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 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
General test methods: Power iputs*, 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*, Imflame*, Needle flame*, Hot flaming oil*, Locl Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, We Trunctionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 Elec 60950 1999 EN 60950 2000 UL 60950 12001 UL 60950-1 2001 UL 60950-1 2001 CSA C22, No. 60950-10 SIEC 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*, il*, Capacitor short circuit abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements.	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004	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 iputs*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Implame*, Needle flame*, Hot flaming oil*, Loci Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 EEC 60950 1099 EN 60950 2000 EEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 ECSA C22.2 No. 60950-00 CSA C22.2 No. 60950-10 3 EEC 61010-1 1993, 2001 EEC 61010-1 1993, 2001	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 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 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 Safety Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety 1: Collateral Standard: Safety
General test methods: Power inputs*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition (CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold sto Component abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Loci Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards. Specific Product Safety Standards. UL 60950 2000 IEC 60950 2000 IEC 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-1 03 IEC 61010-1 1993, 2001 IEC 61010-1 1993, 2001 IEC 61010-1 1993, 2001 IEC 61010-1 2003	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*, publes*, 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- gd evice 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 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 Safety To Collateral Standard: Safety Requirements For Medical Electrical Systems 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 iputs*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Implame*, Needle flame*, Hot flaming oil*, Loci Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 EEC 60950 1099 EN 60950 2000 EEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 ECSA C22.2 No. 60950-00 CSA C22.2 No. 60950-10 3 EEC 61010-1 1993, 2001 EEC 61010-1 1993, 2001	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*, 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 mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all constitution of the strain 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 Safety 1: Collateral Standard: Safety Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety - Section 1-1. Collateral Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Safety - Section 1-1. Collateral	
General test methods: Power inputs*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition (CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold sto Component abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Loci Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards. Specific Product Safety Standards. UL 60950 2000 IEC 60950 2000 IEC 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-1 03 IEC 61010-1 1993, 2001 IEC 61010-1 1993, 2001 IEC 61010-1 1993, 2001 IEC 61010-1 2003	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*, 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 of information technology equipment 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 Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, solve 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. 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 & 4M 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010 - 1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000 EN 60601-1-1: 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 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 Standard: Safety Requirements For Medical Electrical Stystems
General test methods: Power iputs*, 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*, Imflame*, Needle flame*, Hot flaming oil*, Locl Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950 1990 EN 60950 2000 IEC 60950 12003 CSA C22 2 No. 60950-00 CSA C22 2 No. 60950-103 IEC 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010B-1 2003 CAN/CSA 1010-1 1999 (Including AM 2) IEC 60061-1 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 Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements For Safety — Collateral Standard: Safety Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety - Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus — Safety
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General test methods: Power inputs', Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 IEC 60950 1909 IEC 60950 1909 IEC 60950 1909 IEC 60950 1909 IEC 60950 1909 IEC 60950 1900 IEC 60950 1900 IEC 60950 1900 IEC 60950 1900 IEC 6010-1 2001 UL 60950 1903 IEC 61010-1 2003 IEC 61010-1 1993, 2001 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)	Limited current*, Capacitor Discharge / voltage ng*, 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*, 11th count*, Laser radiation (excluding x-ray)*, Voltage surge*, 11th count*, Laser radiation (excluding x-ray)*, Voltage surge*, 11th count*, 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 Medical electrical equipment Medical electrical equipment Part 1: General Requirements for safety. Medical electrical equipment Part 1: General Requirements for safety. Audio, video and similar electronic apparatus – Safety	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 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 60601-1-1: 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 — Part1: General Requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Electrical Electrical Electrical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems 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: General Requirements For Medical Electrical Systems
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General test methods: Power iputs*, 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*, Imflame*, Needle flame*, Hot flaming oil*, Loci Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, We Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 Elec 60950 1099 EN 60950 2000 Elec 60950 12003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-103 IEC 61010-1 1993, 2001 IEC 61010-1 1993, 2001 IEC 61010-1 1993 IEC 61010-1 1995 IEC 60060-1-1 1995 EN 60060-1-1 1995 EN 60061-1 1995 EN 60061-1 1995 EN 60061-1 1995 EN 60061-1 1995 Including AM 2) UL 2601-1 1997 IEC 60601-1 1995 Including AM 2) ANSI/UL 6500: 1998 CANI/CSA 60065-00 ANSI/UL 6500: 1998 CANI/CSA 60065-00	Limited current*, Capacitor Discharge / voltage ng*, 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*, 11th*, 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. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Electrical equipment for laboratory use Part 1: General requirements. Medical electrical equipment. Part 1: General requirements for safety. Medical electrical equipment. Part 1: General requirements for safety. Audio, video and similar electronic apparatus — Safety requirements Audio/video and musical instrument apparatus for Household, commercial and similar general use Australian/New Zealand Standard — Approval and test Specification — Mains operated electronic and related Equipment for household and similar	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 60950-1: 2001 UL 60605: 2003 IEC 60065: 2003 IEC 60065: 2003 IEC 60065: 2001 EN 60065: 2002 EN 60065-1: 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 — Part1: General requirements Information Technology Equipment — Safety — General requirements Information Technology Equipment — Safety — General requirements Information Technology Equipment — Safety — General requirements Information Technology Equipment — Safety — General requirements Information Technology Equipment — Safety — General Requirements Medical Electrical Equipment, Part 1: General Requirements For Safety 1: Collateral Standard: Safety Medical Electrical Equipment — Part 1: General Requirements For 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 Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements
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General test methods: Power inputs', Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnormas supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 12001 UL 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. 60950-1 03 IEC 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010-1 2003 CAN/CSA 1010-1 1999 (Including AM 2) IEC 60601-1 1995 EN 60601-1 1995 EN 60601-1 1995 EN 60601-1 1995 IEC 60065 1998, 2000 ANSI/UL 6500: 1998 CAN/CSA 60065-00 AS/NZS 60065-00 Canadian C22.2 No. 1-94 (1-98) 1994, 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*, 11*, 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. Electrical equipment for laboratory use Part 1: General requirements. Medical electrical equipment Medical electrical e	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 60950-1: 2001 UL 60605: 2003 IEC 60065: 2003 IEC 60065: 2003 IEC 60065: 2001 EN 60065: 2002 EN 60065-1: 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 — Part1: General Requirements Information Technology Equipment — Safety — General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements For Safety Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety 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 Audio, Video and Similar Electronic Apparatus — Safety Requirements Competed to the Public Telecommunications Competed to the Public Telecommunications Competed to the Public Telecommunications Connected to the Public Telecommunications
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General test methods: Power inputs', Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold stimulation and policy for the sphere impact*, Mold stimulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, We Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 2000 IEC 60950 12003 UL 60950-1 2003 USA 622.2 No. 60950-00 CSA C22.2 No. 60950-103 IEC 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010-1 2001 UL 61010-1 2003 CAN/CSA 1010-1 1999 (Including AM 2) IEC 60061-1 1995 EN 60601-1 1995 (Including AM 2) UL 2601-1 1999 IEC 60065 1998, 2000 ANSI/UL 6500: 1998 CAN/CSA 60065-00 AS/NZS 60065-00 Canadian C22.2 No. 1-94 (1-98) 1994, 1998 EN 60065 1994	Limited current*, Capacitor Discharge / voltage ng*, 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*, 11th count*, Reight	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 60950-1: 2001 UL 60605: 2003 IEC 60065: 2003 IEC 60065: 2003 IEC 60065: 2001 EN 60065: 2002 EN 60065-1: 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 — Part1: General Requirements Information Technology Equipment — Safety — General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements For Safety Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety 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 for General Requirements Safety of Machinery — Electrical Equipment of Machines — Part 1: Specification for General Requirements Compeliator of Safety and Electrical Protection Requirements for Subscriber Equipment Connected to the Public Telecommunications Networks
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Environmental Simulation 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 the date of publication of the standard test method or upon the date specified by the standard test method originator when the originator has implementation authority. When a superseded standard or method is required for an accredited test, the scope will include the superseded date/version. For those that support the TCB/CB status of the organization acting as a certifier on behalf of the FCC or IC the expectation is currency within 30 days of Federal Register publication of changes for FCC and 30 days after IC website update. This note shall not be construed as an Accreditation Body implication to adopt a more current standard than is required in a regulation or code (i.e. the legal requirement) which is adopted by the lab under their responsibility. Test Standard IEC 60529 GR-63-CORE Sec 4.6 GR-63-CORE Sec 4.5 GR-63-CORE Sec 4.1.3 Test Technology Accessibility* Acoustic Noise* Supporting Standards IP-0x thru IP-6x Airborne Contaminants Altitude Cold Start* MFG & Hygroscopic Dust IEC 60068-2-1 ETS 300 019 ETS 300 019 IEC 60529 ETS 300 019 GR-63-CORE Sec 4.3 IEC 60529 GR-487 IP-x1 & IP-x2 IEC 60068-2-32 IP-5x & IP-6x Firearms Resistance Testing * On-site test service is available for this technology, test, or method. ANSI.T1.319 Fire Resistance GR-63-CORE Sec 4.2 GR-63-CORE Sec 4.1.4 GR-63-CORE Sec 4.7 Fire & Needle Flame Heat Dissipation* Illumination Operational Temperature & Humidity (OpTH)* ETS 300 019 IEC 60068-2-1 IEC 60068-2-1 IEC 60068-2-14 IEC 60068-2-56 GR-63-CORE Sec 4.1.2 Salt Fog & Spray Spatial* Spraying-Splashing Storage (Temperature & Humidity)* ASTM B117 GR-63-CORE Sec 2.0 & 3.0 IP-x3 & IP-x4 IEC 60068-2-1 IEC 60068-2-2 IEC 60068-2-14 IEC 60529 IEC 60068-2-30 IEC 60068-2-56 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 Vibration IEC 60068-2-32 IEC 60068-2-57 IEC 60068-2-64 Earthquake, Office & Transportation IP-x7 & IP-x8 IP-x5 & IP-x6 GR-63-CORE Sec 4.4 Water Immersion IEC 60529 IEC 60529 Water Jet (A2LA Cert. No. 1627.01) 3/20/06 Page 9 of 10 (A2LA Cert. No. 1627.01) 3/20/06 Page 10 of 10