Curtis-Straus Test Report

Report No EG0805-1

Client | IR-TEC International Ltd.

Phone 886-2-29826332 Fax 886-2-29833163

FRN 0015242746

Models DP250, DP550, DP550P

FCC ID NRIGC171910

Equipment Type Field Disturbance Sensor FDS

Adaipment Code 1 DS

Standards 47 CFR 15.245 and DGT LP0002

Results As detailed within this report

Prepared by

Josh LeBlanc – Test Engineer

Authorized by

Michael Buchholz – EMC Manager

Issue Date

9/13/06

Conditions of issue

This Test Report is issued subject to the conditions stated in the 'Conditions of Testing' 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.



FCC ID: NRIGC171910

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Summary

This report is an application for certification of a transmitter operating pursuant to 47 CFR 15.245 and DGT LP0002. The product covered by this report is the DP250, DP550, and DP550P. They are low power motion detectors that all utilize the same model transmitter/receiver module operating at 10525MHz. Since the three models all utilize the same transceiver module, the DP550 was used for the intentional radiator tests. All three models were tested for spurious radiated and line conducted emissions.

Test Methodology

Radiated emissions testing was performed according to the procedures specified in ANSI C63.4 (2003). The EUT was maximized around all three orthogonal axes. The EUT has an integrated internal antenna which can not be maximized separately. The EUT is powered by 9-16Vdc. The standard test voltage was 12Vdc provided by a typical AC/DC power supply. The ambient environmental conditions were as follows:

Date	Temperature	Humidity
7/13/06	22.7°C	45%
7/14/06	25.2°C	43%
7/17/06	23.4°C	39%

Frequency range investigated:	.15MHz-53GHz

Measurement Distance:		
Frequency (MHz)	Distance (m)	Comments
Fundamental 10525	1 m	Radiated
Spurious & Harmonics 30 - 18000	3 m	Radiated
Spurious & Harmonics 18000 - 53000	.3 m	Radiated

All readings are peak unless otherwise noted. For frequencies below 30MHz, a RBW of 9 kHz, and a VBW of 30 kHz was used. For frequencies below 1000MHz, a RBW of 120 kHz and a VBW of 300 kHz was used. For frequencies above 1000MHz, a RBW of 1MHz and a VBW of 3MHz was used.

EUT Configuration

EUT Configuration

Work Order: G0805

Company: IR-TEC International Ltd.

Company Address: 4F, 14 Lane 530, Chung Cheng N. Road

Sanchung, Taipei Hsien, Taiwan

Contact: Jerry Lin

MN SN

EUT: DP250 Test Sample 1

EUT Description: Infrared and Microwave motion detector

EUT Max Frequency: 10525MHz

Support Equipment:	ΜN		SN	
Audiovox DC supply	CNR405			
EUT Cables:	Qty	Shielded?	Length	Ferrites
Alarms	1	no	1 m	none
Tamper	1	no	1 m	none
DC power	1	no	1 m	none
Unananalata d EUT Danta	O 1	D		

Unpopulated EUT Ports: Qty Reason

none

Software / Operating Mode Description:

The EUT was powered by an external 12V supply. It was continuosly monitoring for motion via infrared and microwave signals.

EUT Configuration

Work Order: G0805

Company: IR-TEC International Ltd.

Company Address: 4F, 14 Lane 530, Chung Cheng N. Road

Sanchung, Taipei Hsien, Taiwan

Contact: Jerry Lin

MN SN

EUT: DP550 Test Sample 1

EUT Description: Infrared and Microwave motion detector

EUT Max Frequency: 10525MHz

Support Equipment:	MN		SN					
Audiovox DC supply	CNR405		not labeled					
EUT Cables:	Qty	Shielded?	Length	Ferrites				
Alarms	1	no	1m	none				
Tamper	1	no	1m	none				
DC power	1	no	1m	none				
Unnanulated EUT Dayton	041/	Decem						

Unpopulated EUT Ports: Qty Reason

none

Software / Operating Mode Description:

The EUT was powered by an external 12V supply. It was continuously monitoring for motion via infrared and microwave signals.

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EUT Configuration

Work Order: G0805

Company: IR-TEC International Ltd.

Company Address: 4F, 14 Lane 530, Chung Cheng N. Road

Sanchung, Taipei Hsien, Taiwan

Contact: Jerry Lin

MN SN

EUT: DP550P Test Sample 1

EUT Description: Infrared and Microwave motion detector

EUT Max Frequency: 10525MHz

Support Equipment:	MN		SN		
Audiovox DC supply	CNR405				
EUT Cables:	Qty	Shielded?	Length	Ferrites	
Alarms	1	no	1m	none	
Tamper	1	no	1m	none	
DC power	1	no	1m	none	

Unpopulated EUT Ports: Qty Reason

none

Software / Operating Mode Description:

The EUT was powered by an external 12V supply. It was continuously monitoring for motion via infrared and microwave signals.

Statement of Conformity

The DP250, DP550, and DP550P have been found to conform to the following parts of the 47 CFR, and DGT LP0002 as detailed below:

LP0002	47 CFR Part #	Comments
2.1	15.15(b)	The product contains no user accessible controls that increase transmission power above allowable levels.
	15.19	The label is shown in the label exhibit.
2.10	15.21	Information to the user is shown in the instruction manual exhibit.
	15.27	No special accessories are required for compliance.
	15.31(e)	The voltage was varied to ±15% of the rated supply voltage
2.2	15.203	The device utilizes an integral antenna.
2.2	15.204	The antenna is not accessible to the user and therefore cannot be easily removed.
2.7 2.8	15.205 15.209 15.245(b)(3)	The fundamental is not in a restricted band and the spurious emissions in the restricted bands comply with the general emission limits of 15.209.
2.3	15.207	The EUT meets the line conducted emissions limits.
3.11.1	15.245(a)	The EUT is a field disturbance sensor that is not a perimeter protection system.
3.11.1(2)	15.245(b)	The EUT meets the fundamental and harmonic field strength limits for the 10500 -10550MHz band.
3.11.1(2)	15.249(b)(1)(i)	The EUT meets the harmonic emission limits for indoor field disturbance sensors at the 2 nd and 3 rd harmonics.
2.8	15.245(b)(4)	The EUT meets the provisions of section 15.35 for limiting peak emissions.

Modifications required for compliance:

No modifications were required.

Spurious Radiated Emissions

Sections 15.245(b)(3), 15.205, 15.209

Spurious	ourious Radiated Emissions Table										Curtis-Straus LLC		
Date:	Date: 13-Jul-06					Company: IR-TEC International Ltd.							
Engineer:	Josh LeBland	;	I	EUT Desc:	sc: DP250, DP550, DP550P								
	Freque	ncy Range:	30-1000MI	Hz					Measuremer	nt Distance:	3 m		
Notes:													
Antenna			Preamp	Antenna	Cable	Adjusted				FCC Class B			
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading	Limit	Margin	Result	Limit	Margin	Result	
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)	(dBµV/m)	(dB)	(Pass/Fail)	
No emissions w	ere found												
Test Site:	RFI 2	Pre-Amp:	Black	Cable:	RFI Cat	oles	Analyzer:	Brown		Antenna:	Grey		

Sparioa	purious Radiated Emissions Table										Curtis-Straus LLC		
Date: 14-Jul-06				Company: IR-TEC International Ltd.							Work Order: G0805		
Engineer:	EUT Desc: DP250, DP550, DP550P												
	Freque	ncy Range:	1-18GHz					ļ	Measuremer	nt Distance:	3 m		
Notes:													
Antenna			Preamp	Antenna	Cable	Adjusted					FCC Class I	3	
Antenna Polarization	Frequency	Reading	Preamp Factor	Antenna Factor	Cable Factor	Adjusted Reading	Limit	 Margin	Result	Limit	FCC Class E	3 Result	
	Frequency (MHz)	Reading (dBµV)					Limit (dBµV/m)		Result (Pass/Fail)				
Polarization	(MHz)		Factor	Factor	Factor	Reading		Margin		Limit	Margin	Result	

Radiated	l Emissi	ons Tab	ole								Curtis-St	raus LLC
Date: 17-Jul-06 Company: IR-TEC Inte						Internationa	onal Ltd. Work Order: G0805				G0805	
Engineer:	Engineer: Josh LeBlanc EUT D					DP550, DP5	550P					
	Freque	ncy Range:	18-26.5GH	łz				l	Measuremer	nt Distance:	0.3 m	
Notes:												
Antenna			Preamp	Antenna	Cable	Adjusted	F	CC part 15.2	45			
Polarization (H / V)	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Factor (dB/m)	Factor (dB)	Reading (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)
No emissions w	ere found											
Test Site:	"T"	Pre-Amp:	18-26.5GH	Cable:	40GHz l	Mixer/18-26	Analyzer:	Brown		Antenna:	18-26.5GHz	z Horn

	Radiate				IR-TEC	Internationa	l Ltd.			٧	Vork Order:	G0805
Engineer:	Josh LeBland	;		EUT Desc:	DP550							
	Freque	ncy Range:	26.5-40GH	łz				ı	Measuremen	t Distance:	0.3 m	
Antenna			Preamp	Antenna	Cable	Adjusted					FCC Class E	3
Polarization (H / V)	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Factor (dB/m)	Factor (dB)	Reading (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)
Hpk	27550.0	23.9	0.0	41.5	0.0	65.4				94.0	-28.6	Pass
Hpk	27950.0	24.1	0.0	41.6	0.0	65.7				94.0	-28.3	Pass
Havg	27950.0	9.6	0.0	41.6	0.0	51.2				74.0	-22.8	Pass
NF pk	30210.0	14.6	0.0	41.7	0.0	56.3				94.0	-37.7	Pass
NF avg	30210.0	0.1	0.0	41.7	0.0	41.8				74.0	-32.2	Pass
Hpk	30920.0	40.1	0.0	41.8	0.0	81.9				94.0	-12.1	Pass
Havg	30920.0	25.6	0.0	41.8	0.0	67.4				74.0	-6.6	Pass
Hpk	33120.0	31.6	0.0	42.7	0.0	74.3				94.0	-19.7	Pass
Havg	33120.0	17.1	0.0	42.7	0.0	59.8				74.0	-14.2	Pass
Hpk	33620.0	30.4	0.0	42.7	0.0	73.1				94.0	-20.9	Pass
Havg	33620.0	15.9	0.0	42.7	0.0	58.6				74.0	-15.4	Pass
Havg	27550.0	9.4	0.0	41.5	0.0	50.9				74.0	-23.1	Pass
Table	e Result:	Pass	by	-6.6	dB			•	Wo	rst Freq:	30920.0	MHz

	s Radiate	The state of the s			ID TEC	Internations	l I td	The state of the s	The second secon	14	ork Order:	COSOE
						Internationa	II LIU.			V	ork Order:	G0605
Engineer:	Josh LeBlanc			EUT Desc:	DP250							
	Freque	ncy Range:	26.5-40GH	lz				1	Measuremen	t Distance:	0.3 m	
Notes:	es:											
Antenna			Preamp	Antenna	Cable	Adjusted			F	CC Class	В	
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading	Limit	Margin	Result	Limit	Margin	Result
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)	(dBµV/m)	(dB)	(Pass/Fail
Hpk	27550.0	15.3	0.0	41.5	0.0	56.8				94.0	-37.2	Pass
Havg	27550.0	0.8	0.0	41.5	0.0	42.3				74.0	-31.7	Pass
Hpk	27950.0	15.0	0.0	41.6	0.0	56.6				94.0	-37.4	Pass
Havg	27950.0	0.5	0.0	41.6	0.0	42.1				74.0	-31.9	Pass
NF pk	30210.0	14.6	0.0	41.7	0.0	56.3				94.0	-37.7	Pass
NF avg	30210.0	0.1	0.0	41.7	0.0	41.8				74.0	-32.2	Pass
Hpk	30920.0	39.4	0.0	41.8	0.0	81.2				94.0	-12.8	Pass
Havg	30920.0	24.9	0.0	41.8	0.0	66.7				74.0	-7.3	Pass
Hpk	33120.0	21.7	0.0	42.7	0.0	64.4				94.0	-29.6	Pass
Havg	33120.0	7.2	0.0	42.7	0.0	49.9				74.0	-24.1	Pass
Hpk	33620.0	21.2	0.0	42.7	0.0	63.9				94.0	-30.1	Pass
Havg	33620.0	6.7	0.0	42.7	0.0	49.4				74.0	-24.6	Pass
Table	e Result:	Pass	by	-7.3	dB				Wo	orst Freq:	30920.0	MHz
Test Site:	"T-"	Dro Amni	40GHz Mix	Cables	40CLI=1	Miver/10 00	Analyzer:	Drawa		Antonno	40GHz Mix	or

Date:	17-Jul-06			Company:	IR-TEC	Internationa	l Ltd.			V	Vork Order:	G0805	
Engineer:	Josh LeBland	;		EUT Desc:	DP550F								
	Freque	ncy Range:	26.5-40GH	ŀz				ı	Measuremer	nt Distance:	0.3 m		
Notes:													
Antenna			Preamp	Antenna	Cable	Adjusted					CC Class I	3	
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading	Limit	Margin	Result	Limit	Margin	Result	
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)	(dBµV/m)	(dB)	(Pass/Fail)	
Hpk	27550.0	16.1	0.0	41.5	0.0	57.6				94.0	-36.4	Pass	
Havg	27550.0	1.6	0.0	41.5	0.0	43.1				74.0	-30.9	Pass	
Hpk	27950.0	14.3	0.0	41.6	0.0	55.9				94.0	-38.1	Pass	
Havg	27950.0	-0.2	0.0	41.6	0.0	41.4				74.0	-32.6	Pass	
NF pk	30210.0	14.6	0.0	41.7	0.0	56.3				94.0	-37.7	Pass	
NF avg	30210.0	0.1	0.0	41.7	0.0	41.8				74.0	-32.2	Pass	
Hpk	30920.0	30.9	0.0	41.8	0.0	72.7				94.0	-21.3	Pass	
Havg	30920.0	16.4	0.0	41.8	0.0	58.2				74.0	-15.8	Pass	
Hpk	33120.0	21.1	0.0	42.7	0.0	63.8				94.0	-30.2	Pass	
Havg	33120.0	6.6	0.0	42.7	0.0	49.3				74.0	-24.7	Pass	
Hpk	33620.0	20.4	0.0	42.7	0.0	63.1				94.0	-30.9	Pass	
Havg	33620.0	5.9	0.0	42.7	0.0	48.6				74.0	-25.4	Pass	
Table	Result:	Pass	by	-15.8	dB	Table Result: Pass by -15.8 dB Worst Freq: 30920.0 MHz							

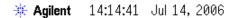
Date:	17-Jul-06			Company:	IR-TEC	Internationa	al Ltd.				Work Orde	r: G0805
Engineer:	Josh LeBland	;		EUT Desc:	DP250,	DP550, DP	550P					
	Freque	ncy Range:	33-53GHz	<u>.</u>					Measuremen	t Distance	: 0.3 m	
Notes:	·								·			
Antenna			Mixer	Antenna	Cable	Adjusted	FC	CC part 15.2	245			
Antenna					I		1.1	Manain	Result			
Polarization	Frequency	Reading	Loss	Gain	Factor	Reading	Limit	Margin	Result			
	Frequency (MHz)	Reading (dBµV)	Loss (dB)	Gain (dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)			
Polarization	(MHz)							_			<u> </u>	+

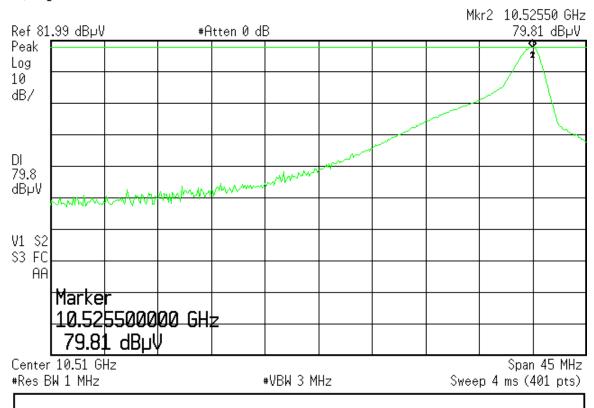
Sample Calculation:

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

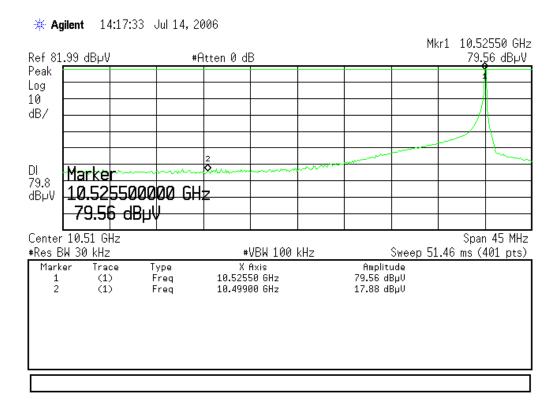
Bandedo	ies										Curtis-Str	aus LLC
	14-Jul-06			Company:	ADT Co	rn					Vork Order:	
	Josh LeBland			EUT Desc:		۱,				•	TOTAL OT GOT.	00000
Liigineer.					DI 330							
	Freque	ncy Range:	Bandedge	S					Measuremer	t Distance:	1 m	
Notes:	The marker of The average							evel.				
Antenna			Preamp	Antenna	Cable	Adjusted					FCC Class E	3
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading	Limit	Margin	Result	Limit	Margin	Result
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)	(dBµV/m)	(dB)	(Pass/Fail)
Marker Delta me	ethod; RBW = 1	MHz, VBW =	3MHz, span	= 45MHz								
Fund Pk	10525.0	79.8	0.0	38.8	7.3	125.9						Ì
Low BE: RBW =	30kHz, VBW =	= 100kHz, spa	n = 45MHz									Ì
Fund Pk	10525.0	79.6	0.0	38.8	7.3	125.7						
Low BE Pk	10499.0	17.9	0.0	38.8	7.4	64.1						Ì
Delta = 61.7												
Adj. BE Pk	10499.0	18.1	0.0	38.8	7.4	64.3				83.5	-19.2	Pass
BE average with	DCCF = -14.5											
Adj. BE Avg	10499.0	3.6	0.0	38.8	7.4	49.8				63.5	-13.7	Pass
High BE: RBW =	30kHz, VBW	= 100kHz, spa	n = 45MHz									
Fund Pk	10525.0	79.6	0.0	38.8	7.3	125.7						Ì
High BE Pk	10553.7	17.9	0.0	38.8	7.3	64.0						
Delta = 60.7												
Adj. BE Pk	10553.7	19.1	0.0	38.8	7.3	65.2				83.5	-18.3	Pass
BE average with												
Adj. BE Avg	10553.7	4.6	0.0	38.8	7.3	50.7				63.5	-12.8	Pass
Test Site:	"T"	Pre-Amp:	none	Cable:	EMIR-H	IGH 7	Analyzer:	Brown		Antenna:	Orange Hor	n

Plot showing fundamental peak at 1MHz RBW

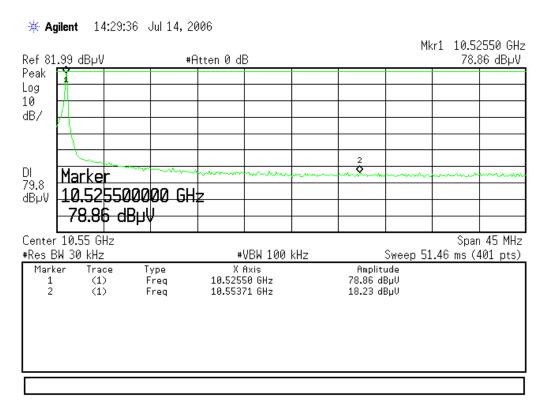




Plot showing lower bandedge delta at 30kHz RBW

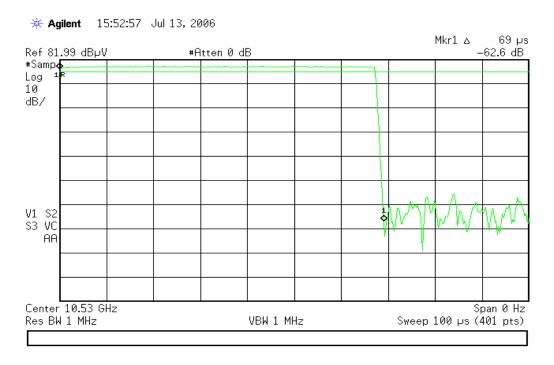


Plot showing upper bandedge delta at 30kHz RBW

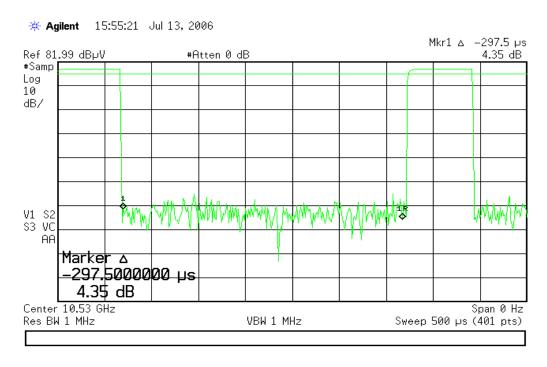


Duty Cycle Correction Factor

Plot showing transmission pulse width



Plot showing time between transmission pulses.



The transmission cycle time = 69uS pulse width +298uS off time = 367uS. Number of cycles in 100mS = 100mS/367uS = 272.48 cycles

Transmission on time in 100ms = 272.48 cycles * 69uS pulse width = 18.8mS

DCCF = 20*log (18.8mS/100mS) = -14.5dB

Fundamental and Harmonic Field Strengths

Section 15.245(b), 15.245(b)(1)

000000		(.0), .0.	 /	<u>,, </u>								
Fundam	ental Ra	diated E	Emissi	on Tab	le						Curtis-St	raus LLC
Date:	14-Jul-06			Company:	IR-TEC	Internationa	al Ltd.			٧	Vork Order:	G0805
Engineer: Josh LeBlanc EUT Desc: DP550												
	Freque	ncy Range:	Fundamer	ntal				I	Measuremer	t Distance:	1 m	
Notes:	The average	reading was	obtained b	y subtractin	g a DCC	F of 14.5dB	from the pea	ak reading.				
Antenna			Preamp	Antenna	Cable	Adjusted	FC	CC part 15.2	245			
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading	Limit	Margin	Result	Limit	Margin	Result
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)	(dBµV/m)	(dB)	(Pass/Fail)
Fund Pk	10525.0	79.8	0.0	38.8	7.3	125.9	157.5	-31.6	Pass			
Fund Avg	10525.0	65.3	0.0	38.8	7.3	111.4	137.5	-26.1	Pass			
Test Site:	"T"	Pre-Amp:	none	Cable:	EMIR-H	IGH 7	Analyzer:	Brown		Antenna:	Orange Hor	'n

Date:	17-Jul-06			Company:	IR-TEC	Internationa	ıl Ltd.			V	ork Order:	G0805
Engineer:	Josh LeBland	;		EUT Desc:								
	Freque	ncy Range:	18-26.5GF	lz				ı	Measuremer	nt Distance:	0.3 m	
Notes:												
Antenna			Preamp	Antenna	Cable	Adjusted	FC	CC part 15.2	45			
Ainteilla												
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading	Limit	Margin	Result	Limit	Margin	Result
	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Factor (dB/m)	Factor (dB)	Reading (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBµV/m)	Margin (dB)	
Polarization								_			•	Result (Pass/Fail)
Polarization (H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)		•	
Polarization (H / V) Hpk Havg	(MHz) 21051.0	(dBµV) 89.1	(dB) 20.2	(dB/m) 40.1	(dB) 0.0 0.0	(dBµV/m) 109.0	(dBµV/m) 128.0	(dB) -19.0	(Pass/Fail) Pass Pass		(dB)	(Pass/Fail)

Idillion	ic Radiat	.ca Liiii	3310113	Table							Curtis-St	raus EEO
Date:	17-Jul-06			Company:	IR-TEC	Internationa	al Ltd.			W	ork Order:	G0805
Engineer:	Josh LeBland	;	I	EUT Desc:	DP550							
Frequency Range: 26.5-40GHz Measurement Distance: 0.3 m												
					Internal Cable Adjusted FCC part 15 2/5							
Antenna			Preamp	Antenna	Cable	Adjusted	F	CC part 15.2	245			
Antenna Polarization	Frequency	Reading	Preamp Factor	Antenna Factor	Cable Factor	Adjusted Reading	F(CC part 15.2 Margin	45 Result	Limit	Margin	Result
	Frequency (MHz)	Reading (dBµV)								Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)
Polarization			Factor	Factor	Factor	Reading	Limit	Margin	Result		-	
Polarization (H / V)	(MHz)	(dBµV)	Factor (dB)	Factor (dB/m)	Factor (dB)	Reading (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)		-	
Polarization (H / V) Hpk Havg	(MHz) 31578.0	(dBµV) 40.8	Factor (dB)	Factor (dB/m) 42.0	(dB) 0.0 0.0	Reading (dBµV/m) 82.8	Limit (dBµV/m) 128.0	Margin (dB) -45.2	Result (Pass/Fail) Pass Pass		(dB)	(Pass/Fail)

Date:	17-Jul-06			Company:	IR-TEC	Internationa	al Ltd.			W	ork Order	: G0805
Engineer:	Josh LeBland			EUT Desc:	DP550							
	Freque	ncy Range:	33-53GHz						Measuremen	t Distance:	0.3 m	
Notes:												
Antenna			Mixer	Antenna	Cable	Adjusted	F	CC part 15.2	245			
Polarization	Frequency	Reading	Loss	Gain	Factor	Reading	Limit	Margin	Result			
(H / V)	(MHz)	(dBµV)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)			
	42105.0	32.1	23.1	24.0	1.3	32.5	128.0	-95.5	Pass			
Hpk		17.6	23.1	24.0	1.3	18.0	108.0	-90.0	Pass			
Hpk Havg	42105.0	17.0	_									
Havg	42105.0 e Result:	Pass	by	-90.0	dB				Wo	rst Freq:	42105.0) MHz

Sample Calculation:

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

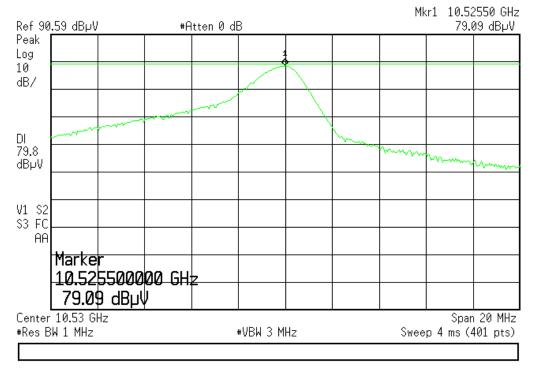
Curtis-Straus LLC • 527 Great Road • Littleton, MA • TEL (978) 486-8880 • FAX (978) 486-8828

Voltage Variations at the Fundamental

Section 15.31(e)

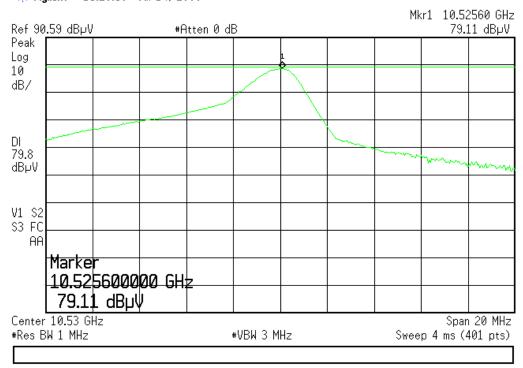
DC input voltage = 7.65Vdc

* Agilent 15:18:49 Jul 14, 2006



DC input voltage = 18.4Vdc

*** Agilent** 15:20:59 Jul 14, 2006



AC Line Conducted Emissions

Section 15.207

AC Main	s Cond	ucted E	missio	ons						C	Curtis-Stra	us LLC
Date:	17-Jul-06			company:	IR-TEC Interna	ational Ltd.					Work Order:	G0805
Engineer:	Josh LeBlan	С	E	UT Desc:	DP250						Test Site:	EMI3
Notes:	AC side of th	ne DC supply	/									
Measurement	Device:	Orange LISN	1									
Range:	0.15-30MHz								Spectr	um Analyzer:	Red	
					Impedance			FCC/	CISPR B	FCC/	CISPR B	
	Q.P. Re	adings	Ave. Re	eadings	Factor			FCC/CISPR B FCC/CI				Overall
Frequency	QP1	QP2	AV1	AV2		Limit	Margin	qp Limit	qp Margin	AVE Limit	AVE Margin	Result
(MHz)	(dBµV)	(dBµV)	(dBµV)	(dBµV)	(dB)	(dBµV)	dB	(dBµV)	dB	(dBµV)	dB	(Pass/Fail)
0.15	33.5	27.2	28.2	22.7	21.6			66.0	-10.9	56.0	-6.2	Pass
0.29	21.8	20.1	19.6	18.3	20.5			60.6	-18.3	50.6	-10.6	Pass
0.38	9.2	14.2	7.9	7.1	20.5			58.3	-23.6	48.3	-19.9	Pass
0.48	14.1	13.8	11.7	10.0	20.5			56.3	-21.7	46.3	-14.1	Pass
0.66	28.7	24.6	20.3	20.8	20.5			56.0	-6.8	46.0	-4.7	Pass
0.86	7.3	9.1	5.7	4.4	20.4			56.0	-26.5	46.0	-19.9	Pass
Table	Result:	Pass	by	-4.70	dB				Wo	orst Freq:	0.66	MHz

AC Main	s Cond	ucted E	missio	ons						C	urtis-Stra	us LLC
Date:	17-Jul-06			ompany:	IR-TEC Interna	ational Ltd.					Work Order:	G0805
Engineer:	Josh LeBlan	С	E	UT Desc:	DP550						Test Site:	EMI3
Notes:	AC side of the	ne DC supply	/									
Measurement	Device:	Orange LISN	1									
Range:	0.15-30MHz		Spectrum Analyzer: Red									
					Impedance	-		FCC/	CISPR B	FCC/	CISPR B	
	Q.P. Re	adings	Ave. Re	eadings	Factor			FCC/CISPR B FC				Overall
Frequency	QP1	QP2	AV1	AV2		Limit	Margin	qp Limit	qp Margin	AVE Limit	AVE Margin	Result
(MHz)	(dBµV)	(dBµV)	(dBµV)	(dBµV)	(dB)	(dBµV)	dB	(dBµV)	dB	(dBµV)	dB	(Pass/Fail)
0.15	28.1	33.9	22.6	28.0	21.6			66.0	-10.5	56.0	-6.4	Pass
0.29	22.7	21.0	16.2	17.1	20.5			60.6	-17.4	50.6	-13.0	Pass
0.48	17.5	9.2	9.0	8.9	20.5			56.3	-18.3	46.3	-16.8	Pass
0.57	14.4	10.4	7.2	6.5	20.5			56.0	-21.1	46.0	-18.3	Pass
0.66	22.0	21.3	21.4	20.8	20.5			56.0	-13.5	46.0	-4.1	Pass
0.95	12.1	11.3	6.2	6.1	20.4			56.0	-23.5	46.0	-19.4	Pass
Table	Result:	Pass	by	-4.10	dB				Wo	rst Freq:	0.66	MHz

Date:	17-Jul-06			company:	IR-TEC Interna	ational Ltd.					Work Order:	G0805
	Josh LeBland			UT Desc:	DP550P						Test Site:	EMI3
	AC side of th	e DC supply	/									
easurement	Device: (Orange LISN	1									
Range:	0.15-30MHz								Spectr	um Analyzer:	Red	
					Impedance	-	-	FCC/	CISPR B	FCC/0	CISPR B	
	Q.P. Re	adings	Ave. Re	eadings	Factor							Overal
Frequency	QP1	QP2	AV1	AV2		Limit	Margin	qp Limit	qp Margin	AVE Limit	AVE Margin	Result
(MHz)	(dBµV)	(dBµV)	(dBµV)	(dBµV)	(dB)	(dBµV)	dB	(dBµV)	dB	(dBµV)	dB	(Pass/Fa
0.15	27.5	33.8	22.4	27.9	21.6			66.0	-10.6	56.0	-6.5	Pass
0.29	18.5	17.7	13.5	13.1	20.6			60.7	-21.6	50.7	-16.6	Pass
0.37	11.7	12.1	5.0	7.1	20.5			58.5	-25.9	48.5	-20.9	Pass
0.49	11.5	10.6	6.2	6.9	20.5			56.3	-24.3	46.3	-18.9	Pass
0.66	23.9	23.4	20.7	20.2	20.5			56.0	-11.6	46.0	-4.8	Pass
0.72	15.9	18.5	11.1	16.6	20.5			56.0	-17.0	46.0	-8.9	Pass

Test Equipment Used

							F	REV. 12-JUL	-2006	
SPECTRUM ANALYZ RECEIVERS	ZERS /	RANGE	MN	MFR	SI	1	Asse	Г Са	Т	CALIBRATION DUE
RED BROWN (RENTA	L)	9kHz-1.8GHz 9kHz-26.5GHz	8591E E4407		3441A0 SG442		00024 Renta			30-DEC-2006 05-JAN-2007
LISNS/MEASUREME PROBES	NT	RANGE	M	N	MFR		SN	ASSET	Сат	CALIBRATION DUE
ORANGE	10	kHz-30MHz	8012-50-l	R-24-BNC	SOLAR	90	3707	00754	<u>II</u>	05-MAY-2007
OPEN AREA TEST		S)	FCC Co		IC CODE	\	CCI CODE		T (CALIBRATION DUE
SITE SITE			93448 93448		IC 2762-F IC 2762-T		R-1688 R-905	II II		04-APR-2007 14-AUG-2007
LINE CONDUCTE		5	FCC Co		IC CODE N/A		VCCI Cot		CAT	CALIBRATION DUE
Eivii			30110		14// (0 1000			107
MIXERS/DIPLEXERS	RANGE	MN		MFR		SN		ASSET	Сат	CALIBRATION DUE
Mixer / Horn Mixer Mixer / Horn	26.5-40 GHz 33-50 GHz 50-75 GHz	11970A/28- 119700 11970V/QWH-V	Q	HP/ATM HP HP/QUINSTAR		25/A046 3A03155 1197/879		1086 00104 1179	l I	23-AUG-2006 08-NOV-2007 15-NOV-2007
MIXER / HORN	50-75 GHZ	11970V/QWH-V	PRROU	HP/QUINSTAK	252 I A U	1197/679	4001	1179	1	15-NOV-2007
PREAMPS / ATTENUATOR FILTERS	RAN	GE	MN		MFR		SN	Asse	т Сат	Γ CALIBRATION DUE
BLACK	0.01-200	00MHz	ZFL-100	0-LN	C-S		N/A	0079	9 II	25-AUG-2006
ANTENNAS	RANGE	MN		MFR	SN	ASSE	т Сат		CALIB	RATION DUE
GRAY BILOG ORANGE HORN	20-2000MHz 1-18GHz	3141 3115			9703-1038 9004-6123	0006 0039		06-MA		MI) / 30-JUN-2007(RFI2) JUN-2007
CHAMBERS AND STRIPLI	NE	MN		MFR	5	SN .	ASSET	Сат	C	CALIBRATION DUE
RFI 2 CHAMBER		7' SHIELDING SYS	TEM	LINDGREN			00795	II		30-JUN-2007
RMS VOLTMETERS/C	LIDDENT CLA	MD M	1N	MNFR		SN	Λ.	SSET	Сат	CALIBRATION DUE
TRUE-RMS MU			9111	FLUKE		00298)769	I	25-OCT-2006
METEODO: 0010	AL METERS		MN		1FR	SN	Λ.	SSET	Сат	CALIDDATION DUE
METEOROLOGICA TEMP./HUMIDITY/ATM. F		ICE 7400 B	ERCEPTION		AVIS	N/A		965	II	CALIBRATION DUE 08-FEB-2007
TEMP./HUMIDITY/ATM. F			1G-912		AVIS IGER	40005)789	li I	01-FEB-2007
WEATHER CLOCK (PR			BA928		SCIENTIFIC	C3166	-	0831	i	02-FEB-2007

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

Conditions Of Testing

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

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

 13. CLIENT SHALL, EXCEPT TO THE EXTENT OF COMPANY'S LIABILITY TO CLIENT HEREUNDER (WHICH IN NO EVENT SHALL EXCEED THE LIMITATION OF LIABILITY HEREIN), HOLD HARMLESS AND INDEMNIFY THE COMPANY, ITS AFFILIATES AND THEIR RESPECTIVE DIRECTORS, OFFICERS, EMPLOYEES, AGENTS AND SUBCONTRACTORS AGAINST ALL ACTUAL OR ALLEGED THIRD PARTY CLAIMS FOR LOSS, DAMAGE OR EXPENSE OF WHATSOEVER NATURE AND

HOWSOEVER ARISING FROM OR RELATING TO (i) THE PERFORMANCE, PURPORTED PERFORMANCE OR NON-PERFORMANCE OF ANY SERVICES BY THE COMPANY OR (ii) THE SALE, RESALE, MANUFACTURE, DISTRIBUTION OR USE OF ANY TESTED GOODS.

- 14. EXCEPT AS MAY OTHERWISE BE EXPRESSLY AGREED TO IN WRITING BY THE COMPANY AND NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN OR IN ANY TEST REPORT, NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE. IS MADE.
- 15. (A) IN NO EVENT WHATSOEVER SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL, INCIDENTAL, EXEMPLARY OR PUNITIVE DAMAGES IN CONNECTION WITH, RELATING TO OR ARISING OUT OF THE TEST REPORT OR THE SERVICES PROVIDED BY THE COMPANY HEREUNDER, INCLUDING WITHOUT LIMITATION LOSS OF OR DAMAGE TO PROPERTY; LOSS OF INCOME, PROFIT OR USE; OR ANY CLAIMS OR DEMANDS MADE AGAINST CLIENT OR ANY OTHER PERSON BY ANY THIRD PARTY IN CONNECTION WITH, RELATING TO OR ARISING OUT OF THE SERVICES PROVIDED BY THE COMPANY HEREUNDER.

(B)NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN, AND IN RECOGNITION OF THE RELATIVE RISKS AND BENEFITS TO CLIENT AND THE COMPANY ASSOCIATED WITH THE TESTING SERVICES CONTEMPLATED HEREBY, THE RISKS HAVE BEEN ALLOCATED SUCH THAT UNDER NO CIRCUMSTANCES WHATSOEVER SHALL THE LIABILITY OF THE COMPANY TO CLIENT OR ANY THIRD PARTY IN RESPECT OF ANY CLAIM FOR LOSS, DAMAGE OR EXPENSE, OF WHATSOEVER NATURE OR MAGNITUDE, AND HOWSOEVER ARISING, EXCEED AN AMOUNT EQUAL TO FIVE (5) TIMES THE AMOUNT OF THE FEES PAID TO THE COMPANY FOR THE SPECIFIC SERVICES WHICH GAVE RISE TO SUCH CLAIM OR U.S.\$10,000, WHICHEVER IS THE LESSER AMOUNT.

- 16. The Company shall not be liable for any loss or damage resulting from any delay or failure in performance of its obligations hereunder resulting directly or indirectly from any event of force majeure or any event outside the control of the Company. If any such event occurs, the Company may immediately cancel or suspend its performance hereunder without incurring any liability whatsoever to Client.
- 17. Company's services, including these Conditions, shall be governed by, and construed in accordance with, the local laws of the country where the Company performs the tests or, in the case of tests performed in the United States of America, the laws of Massachusetts without regard to conflicts of laws principles. If any aspect(s) of these Conditions is found to be illegal or unenforceable, the validity, legality and enforceability of all remaining aspects of these Conditions shall not in any way be affected or impaired thereby. Any proceeding related to the subject matter hereof shall be brought, if at all, in the courts of the country where the Company performs the tests or, in the case of tests performed in the United States of America, in the courts of Massachusetts. Client waives the right to interpose any counterclaim or setoffs of any nature in any litigation arising hereunder.

Rev.160009121(2) #684340 v13CS

A2LA Accreditation

SCOPE OF ACCREDITATION TO ISO/IEC 17025-1999

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

Valid until: July 31, 2007

Certificate Number: 1627.01

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

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

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

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

(A2LA Cert. No. 1627.01) 3/27/06

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

Family Product or Industry Specific Specifications	GR-1089-CORE; GR-78-CORE (ESD)
including emissions and/or immunity	EN50081-1; EN50081-2; EN50082-2; EN50082-1;
including emissions and or immunity	EN 61000-6-1; EN 61000-6-2; EN 61000-6-3;
	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 50130-4; EN 50083-2; EN 60526, EN 60547, EN 50130-4; EN 50083-2; EN 60601-1-2;
	EN 60601-2-2; EN 60601-2-24; EN 60601-2-32;
	EN 60601-2-32; EN 60601-2-47; IEC 1800-3; EN
	61800-3; EN 55020; CISPR 20; EN 60555 Part 2;
	EN 60555 Part 3; ETS 300 386-1; EN 300 386-2;
	EN 300 386, ETS 300 132-1; ETS 300 132-2; EN
	60669-2-1; AS/NZS 3200.1.2; CNS 13783-1; ETR
7.7	283; C62.41
Radiocommunications	EN 200 220 4 EN 200 220 2 EN 200 220 4 EN
EU R&TTE Radio Standards;	EN 300 220-1; EN 300 220-3; EN 300 330-1; EN
	300 330-2; EN 300 440-1; EN 300 440-2; EN 300
	328; EN 300 385; EN 301 893
EU R&TTE EMC Standards	EN 300 339; EN 301 489-01; EN 301 489-03; EN
	301 489-17
Canada Radio Standards	RSS-102; RSS-117; RSS-118; RSS-119; RSS-123;
	RSS-125; RSS-128; RSS-129; RSS-130; RSS-131;
	RSS-132; RSS-133; RSS-134; RSS-135; RSS-136;
	RSS-137; RSS-138; RSS-141; RSS-142; RSS-170;
	RSS-181; RSS-182; RSS-187; RSS-188; RSS-191;
	RSS-192; RSS-193; RSS-195; RSS-210; RSS-212;
	RSS-213; RSS-215; RSS-243; RSS-GEN; RSS-
	310; GL-36;
Australia/New Zealand Radio Standards	AS/NZS 4268; AS/NZS 4771; RFS29;
	Radiocommunications (Data Transmission
	Equipment Using Spread Spectrum Modulation
	Techniques);
	Radiocommunications (Spread Spectrum Devices);
	Radiocommunications (Short Range Devices);
	Radiocommunications (Low Interference Potential
	Devices):

(A2LA Cert. No. 1627.01) 3/27/06

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Other Radio Standards		RTTE 01 (DGT-Taiwan);	
FCC Star	ndards and Test methods Support	TCB Status	
FCC Scop	pe A - Unlicensed Radio Frequency	Devices	
A1	1. 47 CFR Parts 11, 15 and	18	
	2. FCC MP-5,		
	ANSI C63.4-2003,		
A2	1. 47 CFR Part 15,		
	2. ANSI C63.4-2003,		
A3	1. 47 CFR Part 15,		
	ANSI C63.17-1998,		
	3. ANSI C63.4-2003,		
A4	1. 47 CFR Part 15,		
	2. ANSI C63.4-2003,		
FCC Scop	oe B – Licensed Radio Service Equip	ment	
B1	1. 47 CFR Parts 2, 22, 24, 2	5, and 27	
	2. ANSI/TIA-603-C (2004)		
B2	1. 47 CFR Parts 2, 22, 74, 9	0, 95, and 97	
	2. ANSI/TIA-603-C (2004)		
B3	1. 47 CFR Parts 2, 80, and 8	7	
	2. ANSI/TIA-603-C (2004)		
B4	1. 47 CFR Parts 2, 21, 74, at	nd 101	
	2. ANSI/TIA-603-C (2004)		

Country Specific Standards and Other		
ITU EMC Standards	K.20; K.21; K.41; K.44	
Swedish EMC Standards	BAKOM 3336.3	
South African EMC Standards other then CISPR equivalents	SABS 1718-1; SANS 211/SABS CISPR 11; SANS 224/SABS CISPR 24:	
equivaienis	SANS 213/SABS CISPR 13;	
	SANS 2200; SANS214-1/SABS CISPR 14-1;	
	SANS214-2/SABS CISPR 14-2;	
	SANS 215/SABS CISPR 15;	
	SANS 222/SABS CISPR 22	
Hong Kong EMC Standards	HKTA 1006; HKTA 1007; HKTA 1008;	
	HKTA 1010; HKTA 1015; HKTA 1026;	
	HKTA 1035; HKTA 1039; HKTA 1041;	
	HKTA 1042; HKTA 1045	
Singapore EMC Standards	IDA TS SRD; IDA TS EMC	
Japanese VCCI Standards	VCCI V-3, VCCI V-4	

Telecommunications Registration; General test methods; Lightning surge*; Drop testing*; Balance testing*; *: Leakage testing*: rotocol analysis* and Jitter

	Frequency measurements*; Pulse templates*; Leakage testing*; bility testing (excluding volume control)*; Protocol analysis* and Jitte
Telecom Standards	<u>Title</u>
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
	of Terminal Equipment to the Telephone Network
T1.TRQ.6-2001	Technical Requirements for SHDSL, HDSL2,
	HDSL4 Digital Subscriber Line Terminal Equipment
	to Prevent Harm to the Telephone Network Industry
Australia standards	
AS/ACIF S002-2001	Analogue interworking and non-interference
	requirements for Customer Equipment for connection to the
	Public Switched Telephone Network
AS/ACIF S016-2001	Requirements for Customer Equipment for

nent for requirements for Customer Equipment for connection to hierarchical digital interfaces Requirements for ISDN Basic Access Interface Requirements for Customer Equipment for Requirements for Customer Equipment for AS/ACIF S031-2001 AS/ACIF S038-2001 AS/ACIF S043-2001 Connection to a Metallic Local Loop Interface of a Telecommunications Network — 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 Digital interfaces Hong Kong standards HKTA 2011

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

Recommendations

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REPORT: EG0805-1			CC ID: NRIGC1/1910
Telecom Standards	Title	European standards (cont'd)	
HKTA 2028	Network connection specification for connection of	TBR 21: 1998	Terminal Equipment (TE); Attachment requirements
	CPE to the PTNs in Hong Kong using digital leased		For pan-European approval for connection to the
	circuits at data rate of 1544 kbit/s		Analogue Public Switched Telephone Networks
HKTA 2029	Network connection specification for connection of		(PSTNs) of TE (excluding TE supporting the voice
	CPE to the PTNs in Hong Kong using digital leased		telephony service) in which network addressing, if
	circuits at data rate of 2048 kbit/s		provided, is by means of Dual Tone Multi Frequency
HKTA 2030	Network Connection Specification for Connection of		(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 Unstructured and structured leased lines
	Digital Leased Circuits at nx64 kbit/s		(D34U and D34S); Attachment requirements for
HKTA 2031	Network Connection Specification for Connection of		Terminal equipment interface
	Customer Premises Equipment (CPE) to the Public	Taiwan standards (DGT)	
	Telecommunications Network (PTN) in Hong Kong using	ADSL01	Asymmetric Digital Subscriber Line Terminal Equipment and
	Digital Leased Circuits below 64 kbit/s		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	PSTN01 (non-voice only)	Technical Specifications for Terminal Equipment for
	Asymmetric Digital Subscriber Lines (ADSL) based on ITU-T		Connection to Public Switched Telephone Network
HIVE A 2022	Recommendation G.992.1	New Zealand standards	D i G G G G G G G G G G G G G G G G G G
HKTA 2033	Network Connection Specification for Connection of	PTC 200 (non-voice only)	Requirements for Connection of Customer Equipment to
	Customer Premises Equipment (CPE) to Fixed	PTC 217	Analogue Lines
	Telecommunications Networks in Hong Kong using Splitterless Asymmetric Digital Subscriber Lines (ADSL)	TNA 117	Requirements for Bandwidth Management Devices Telecom 2048 kbit/s Standard Network Interface
	based on ITU-T Recommendation G.992.2	PTC 270	Interim arrangements for ADSL CPE
European standards	based on 11 C-1 Recommendation G.552.2	110 270	Interim arrangements for ADSL CFE
TBR 1: 1995	Attachment requirements for terminal equipment to	Singapore Standards	
IBK 1: 1993	Be connected to circuit switched data networks and	IDA TS ADSL	Type Approval Specification for Asymmetric Digital
	Leased circuits using a CCITT Recommendation	IDA 13 ADSL	Subscriber Line (Full-rate ADSL) Modems
	X.21 interface, or at an interface physically,	IDA TS ADSL 2	Type Approval Specification for Asymmetric Digital
	functionally and electrically compatible with CCITT	D. TO ADOL 2	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
	signaling rate up to, and including, 1 984 kbit/s	IDA 13 DECN I	hierarchical bit rates of 2048 kbit/s, 34 368 kbit/s and 139 264
TBR 2: 1997	Attachment requirements for Data Terminal	1	kbit/s
12A 2. 1///	Equipment (DTE) to connect to Packet Switched	IDA TS ISDN 1	Type Approval Specification for connection of Terminal
	Public Data Networks (PSPDNs) for CCITT	IDA 13 I3DN 1	Equipment to Integrated Services Digital Network (ISDN)
	Recommendation X.25 interfaces at data signaling	1	Basic Access
	rates up to 1 920 kbit/s utilizing interfaces derived	IDA TS ISDN 2	Type Approval Specification for connection of Terminal
	from CCITT Recommendations X.21 and X.21 bit	IDA 13 ISDN 2	Type Approval Specification for connection of Terminal Equipment to Integrated Services Digital Network (ISDN)
TBR 3: 1995 + Amdt : 1997	Integrated Services Digital Network (ISDN);		Primary Rate Access (PRA)
1BK 3. 1993 + Alliut . 1997	Attachment requirements for terminal equipment to	IDA TS PSTN (non-voice only)	Type Approval Specification for connection of Terminal
	connect to an ISDN using ISDN basic access	IDA 13 131N (Holl-voice only)	Equipment to Public Switched Telephone Network (PSTN)
TBR 4: 1995 + Amdt : 1997	Integrated Services Digital Network (ISDN);	South Africa standards	Equipment to Fubric Switched Telephone Network (FSTN)
1BR 4. 1995 Allidi . 1997	Attachment requirements for terminal equipment to	TE-001 (non-voice only)	Standard for Telecommunication Line Terminal Equipment
	connect to an ISDN using ISDN primary rate access	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)
1BK 012. 1993 + Alliut . 1990	Provision (ONP) technical requirements; 2 048 kbit/s		Network (13114)
	digital unstructured leased line (D2048U) Attachment		
	requirements for terminal equipment		
TBR 013: 1996	Business TeleCommunications (BTC); 2 048 kbit/s		
IBK 013. 1990	digital structured leased lines (D2048S); Attachment		
	requirements for terminal equipment interface		
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		Product Safety Standards	Tide
Product Safety			Title
General test methods:		IEC 60825-1 2001	Classification, requirements and user's guide.
General test methods: Power input*, Permanence of marking*, Access			Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical
General test methods: Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, I	.imited 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*, Acces measurement*, SELV circuits*, TNV limits*, I limitation*, Ring signal*, Humidity conditionir	Limited current*, Capacitor Discharge / voltage ag*, 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*, Acces measurement*, SELV circuits*, TNV limits*, I limitation*, Ring signal*, Humidity conditionir CTI)*, Limited power measurement*, Ground	.imited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*,	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products
General test methods: Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, I limitation*, Ring signal*, Humidity conditionir CTI)*, Limited power measurement*, Ground I Applied force*, Steel sphere impact*, Mold str	.imited current*, Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, 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*, Acces measurement*, SELV circuits*, TNV limits*, I limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground I Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp	.imited current*, Capacitor Discharge / voltage g*, Creepage, 'Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Lakage current*, ulse*, 'Overvoltage*, Acoustic sound pressure*, 130mm / 20mm	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997)	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*, Access measurement*, SELV circuits*, TNV limits*, I limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground I Applied force*, Steel sphere impact*, Mold str. Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock	.imited current*, Capacitor Discharge / voltage ug*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*,	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AMZ 1997 & AM 12 – 1997) EN 60335-1 2001	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*, Permanene of marking*, Acces measurement*, SELV circuits*, TNV limits*, I limitation*, Ring signal*, Humidity conditionir CTI)*, Limited power measurement*, Ground I Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Crque*, Insulation resistance*, Sound level*,	.imited current*. Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Laskage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*,	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	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*, Permanene of marking*, Acces measurement*, SELV circuits*, TNV limits*, I limitation*, Ring signal*, Humidity conditionin; CTly*, Limited power measurement*, Ground I Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wal	.imited current*, Capacitor Discharge / voltage ge*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Lakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, I 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 AMZ – 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*, Acces measurement*, SELV circuits*, TNV limits*, I limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground I Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wal Functionality*, Protective impedance abnormal	.imited current*. Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thu Insulation (excluding Bond/Earthing*. Ground continuity*. Temperature*, Stability*. ses*, Battery reverse current*. Ball pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*. Liquid overflow*, Spillage*. Liquid leakage*, I mount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, 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 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*, Acces measurement*, SELV circuits*, TNV limits*, I limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground I Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wal Functionality*, Protective impedance abnormal	.imited current*, Capacitor Discharge / voltage ge*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Lakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, I mount*, Laser radiation (excluding x-ray)*, Voltage surge*,	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements
General test methods: Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, I limitation*, Ring signal*, Humidity conditionin (TT)*, Limited power measurement*, Ground I Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp flame*, Needlef flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wal Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heating	.imited current*, Capacitor Discharge / voltage ug*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, I mount*, Laser radiation (excluding x-rays)*, Voltage surge*, *, Capacitor short circuit abnormal*, Output abnormal*, Multi- t 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 AMZ – 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*, Acces measurement*, SELV circuits*, TNV limits*, I limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground I Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wal Functionality*, Protective impedance abnormal	.imited current*. Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thu Insulation (excluding Bond/Earthing*. Ground continuity*. Temperature*, Stability*. ses*, Battery reverse current*. Ball pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*. Liquid overflow*, Spillage*. Liquid leakage*, I mount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, 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*, Acces measurement*, SELV circuits*, TNV limits*, I limitation*, Ring signal*, Humidity conditionin (T1)*, Limited power measurement*, Ground I Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer sborts/overloads*, Rain test*, Wal Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heating Product Safety Standards.	.imited current*, Capacitor Discharge / voltage ug*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, I mount*, Laser radiation (excluding x-rays)*, Voltage surge*, *, Capacitor short circuit abnormal*, Output abnormal*, Multi- t 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 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
General test methods: Power input", Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, I limitation*, Ring signal*, Humidity conditionin; CTI)*, Limited power measurement*, Ground I Applied force*, Steel sphere impact*, Mold str. Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Orque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wal Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heating Product Safety Standards. Specific Product Safety Standards	.imited current*, Capacitor Discharige / voltage gi*, Creepage / Clearance / Distance thur Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm del rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, I mount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, Capacitor short circuit abnormal*, Output abnormal*, Multi- t device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title	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	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment
General test methods: Power input*, Permanene of marking*, Acces measurement*, SELV circuits*, TNV limits*, I limitation*, Ring signal*, Humidity conditionin (TI)*, Limited power measurement*, Ground I Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wal Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000	.imited current*, Capacitor Discharige / voltage g*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, ", Capacitor short circuit abnormal*, Output abnormal*, Multi- glevice abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (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	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 Information Technology Equipment - Safety – Part1:
General test methods: Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, I limitation*, Ring signal*, Humidity conditionin; CTI)*, Limited power measurement*, Ground I Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wal Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heating Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1999	.imited current*, Capacitor Discharige / voltage g*, Creepage / Clearance / Distance thur Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, I mount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, Capacitor short circuit abnormal*, Output abnormal*, Multi- et 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 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	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*, Access measurement*, SELV circuits*, TNV limits*, I limitation*, Ring signal*, Humidity conditionin; CTI)**, Limited power measurement*, Ground I Applied force*, Steel sphere impact*, Mold str. Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wal Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 IEC 60950 1999 EN 60950 2000 ES 60950 1999 EN 60950 2000	.imited current*, Capacitor Discharige / voltage gi*, Creepage / Clearance / Distance thur Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm/ 20mm der otor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, I mount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, Capacitor short circuit abnormal*, Output abnormal*, Multi- device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment, including	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 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	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part1: General Requirements Information Technology Equipment — Safety — General
General test methods: Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, I limitation*, Ring signal*, Humidity conditionin (TT)*, Limited power measurement*, Ground I Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wal Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL. 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2001	.imited current*, Capacitor Discharige / voltage g*, Creepage / Clearance / Distance thur Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, I mount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, Capacitor short circuit abnormal*, Output abnormal*, Multi- et 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 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	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements
General test methods: Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, I limitation*, Ring signal*, Humidity conditionin (TI)*, Limited power measurement*, Ground I Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Orque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wal Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001	.imited current*, Capacitor Discharige / voltage gi*, Creepage / Clearance / Distance thur Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm/ 20mm der otor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, I mount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, Capacitor short circuit abnormal*, Output abnormal*, Multi- device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment, including	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040-10 IEC 60335-1 1997 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	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*, Acces measurement*, SELV circuits*, TNV limits*, I limitation*, Ring signal*, Humidity conditionin (TI)*, Limited power measurement*, Ground I Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wal Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 CSA C2.2.2 No. 60950-00	.imited current*, Capacitor Discharige / voltage gi*, Creepage / Clearance / Distance thur Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm/ 20mm der otor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, I mount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, Capacitor short circuit abnormal*, Output abnormal*, Multi- device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment, including	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040-10 IEC 60335-1 1995 IEC 60335-1 1995 IEC 60335-1 1995 IEC 60335-1 1998 IEC 60335-1 1994 IEC 60335-1 1995 IEC 60335-1 1995 IEC 60335-1 1997 IEC 60325-1 1997 IEC 60335-1 1997 IEC 60325-1 1997 IEC 60335-1 1997 IEC	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Electrical Equipment for Measurement, Control and
General test methods: Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, I limitation*, Ring signal*, Humidity conditionin (TI)*, Limited power measurement*, Ground I Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Orque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wal Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heating Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950 1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-1 03	.imited current*, Capacitor Discharige / voltage gi*, Creepage / Clearance / Distance thur Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm del rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, I mount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, Capacitor short circuit abnormal*, Output abnormal*, Multi- ted evice 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 60825-4 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	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part 1: General Requirements Information Technology Equipment — Safety — General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General
General test methods: Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, I limitation*, Ring signal*, Humidity conditionin (TI)*, Limited power measurement*, Ground I Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wal Functionality*, Protective impedance abnormal* supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 CSA C22.2 No. 60950-00	.imited current*, Capacitor Discharge / voltage gg*, Creepage, Clearance / Distance thun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm/ 20mm der rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, I mount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, Capacitor short circuit abnormal*, Output abnormal*, Multi- device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement,	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040-10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004 UL 60601-1: 2004	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety
General test methods: Power input", Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, I limitation*, Ring signal*, Humidity conditionin; CTI)*, Limited power measurement*, Ground I Applied force*, Steel sphere impact*, Mold str. Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Orque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wal Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 IEC 60950 2000 IEC 60950 1200 UL 60950-1 2003 CSA C22-2 No. 60950-00 CSA C22-2 No. 60950-103 IEC 61010-1 1993 IEC 61010-1 1993 IEC 61010-1 1993	.imited current*. Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thur Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, 'Liquid overflow*, Spillage*, 'Liquid leakage*, I mount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, 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 IEC 60335-1 1995 IEC 60335-1 1995 IEC 60335-1 1998 IEC 60335-1 1994 IEC 60335-1 1995 IEC 60335-1 1995 IEC 60335-1 1997 IEC 60325-1 1997 IEC 60335-1 1997 IEC 60325-1 1997 IEC 60335-1 1997 IEC	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 Formation of Safety Medical Electrical Equipment - Part 1: General
General test methods: Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, I limitation*, Ring signal*, Humidity conditionin (TI)*, Limited power measurement*, Ground I Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wal Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 IEC 60950 1900 IEC 60950 1900 IEC 60950-1 2001 UL 60950-1 2003 UL 60950-1 2003 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	.imited current*. Capacitor Discharige / voltage gg*. Creepage / Clearance / Distance thur Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm der rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, I mount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, Capacitor short circuit abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, safety requirements for electrical equipment for measurement,	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040-10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004 UL 60601-1: 2004	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements for Safety I: Collateral Standard: Safety
General test methods: Power input", Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, I limitation*, Ring signal*, Humidity conditionin; CTI)*, Limited power measurement*, Ground I Applied force*, Steel sphere impact*, Mold str. Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Orque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wal Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 IEC 60950 2000 IEC 60950 1200 UL 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-103 IEC 61010-1 1993 IEC 61010-1 1993, 2001 IEC 61010-1 1993, 2001 IEC 61010-1 2001	.imited current*. Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thur Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, 'Liquid overflow*, Spillage*, 'Liquid leakage*, I mount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, 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 60825-2 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: 2004 UL 60601-1: 2003 IEC 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 I: Collateral Standard: Safety
General test methods: Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, I limitation*, Ring signal*, Humidity conditionin (TI)*, Limited power measurement*, Ground I Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Orque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wal Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-1 03 IEC 61010-1 1993, 2001 IEC 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010-1 2001 UL 61010-1 2001 UL 61010-1 2001	.imited current*, Capacitor Discharige / voltage gg*, Creepage / Clearance / Distance thun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Leakage current*, sluse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm de rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, I mount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, Capacitor short circuit abnormal*, Gutter abnormal*, Multi- device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements.	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040-10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004 UL 60601-1: 2004	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part1: General Requirements Information Technology Equipment — Safety — General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General
General test methods: Power input", Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, I limitation*, Ring signal*, Humidity conditionin; CTI)*, Limited power measurement*, Ground I Applied force*, Steel sphere impact*, Mold str. Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Orque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wal Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heating Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 2000 IEC 60950 12001 UL 60950-1 2001 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-10 IEC 61010-1 1993 IEC 61010-1 1993, 2001 IEC 61010-1 1993, 2001 IEC 61010-1 2001	.imited current*. Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thur Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, I mount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, Capacitor short circuit abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Electrical equipment for laboratory use Part 1: General	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: 2004 UL 60601-1: 2003 IEC 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 1: Collateral Standard: Safety Requirements For Medical Electrical Equipment - Part 1: General Requirements For Safety - Collateral Standard: Safety Requirements For Medical Electrical Equipment - Part 1: General Requirements For Safety - Section 1-1. Collateral
General test methods: Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, I limitation*, Ring signal*, Humidity conditionin (TT)*, Limited power measurement*, Ground I Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Orque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wal Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heating Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-1 03 IEC 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010-1 2001 UL 61010-1 2001 CAN/CSA 1010-1 1999 (Including AM 2)	.imited current*, Capacitor Discharige / voltage gg*, Creepage / Clearance / Distance thur Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm del rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, I mount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, Capacitor short circuit abnormal*, Output abnormal*, Multi- ted evice 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.	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: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part1: General Requirements Information Technology Equipment — Safety — General requirements Information Technology Equipment — Safety — General requirements Information Technology Equipment — Safety — 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 Requirements for Safety — Section 1-1. Collateral Requirements for Safety — Section 1-1. Collateral Standard: Safety Requirements For Safety = Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Systems
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General test methods: Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, I limitation*, Ring signal*, Humidity conditionin; CTI)*, Limited power measurement*, Ground I Applied force*, Steel sphere impact*, Mold str. Component abnormal*, Electric strength*. Imp flame*, Needle flame*, Hot flaming oil*, Lock Urque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wal Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heating Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 2000 IEC 60950 12001 UL 60950 12001 UL 60950-1 2003 CSA C22.2 No. 60950-10 CSA C22.2 No. 60950-10 SSA C22.2 No. 60950-10 IEC 61010-1 1993 IEC 61010-1 1993 IEC 61010-1 2001 UL 61010B-1 2003 UL 61010B-1 2003 UL 6010-1 1995 (Including AM 2) IEC 60601-1 1995 IEC 60601-1 1995 IEC 60065 1998, 2000 ANSI/UL 6500: 1998	.imited current*. Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thur Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, I mount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, 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. Electrical equipment for laboratory use Part 1: General requirements. Electrical equipment for laboratory use Part 1: General requirements. Medical electrical equipment Audio, video and similar electronic apparatus – Safety requirements Audio, video and similar electronic apparatus – Safety requirements Audio, video and similar electronic apparatus for Household,	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: 12 2003 UL 61010 -1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000 EN 60601-1-1: 2001 UL 60065: 2003 CSA 60065: 2003	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment - Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Medical Electrical Electrical Standard: Safety Requirements For Medical Electrical Stystems Audio, Video and Similar Electronic Apparatus – Safety Requirements Audio, Video and Similar Electronic Apparatus – Safety Requirements Audio, Video and Similar Electronic Apparatus – Safety Requirements 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 input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, I limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground I Applied force*, Steel sphere impact*, Mold str. Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Orque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wal Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heating Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 2000 IEC 60950 12001 UL 60950 12003 UL 60950 12003 USA C22.2 No. 60950-00 CSA C22.2 No. 60950-103 IEC 61010-1 1993 EN 61010-1 1993 EN 61010-1 1993 EN 61010-1 1999 (Including AM 2) IEC 60061-1 1995 EN 60601-1 1995 EN 60601-1 1995 EN 60601-1 1995 (EN 60061-1 1995, Uncluding AM 2) UL 2601-1 1997 IEC 60065 1998, 2000 ANSL/UL 6500: 1998 CAN/CSA 60065-00	.imited current*. Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thur Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, 'Liquid overflow*, Spillage*, 'Liquid leakage*, I mount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, Capacitor short circuit abnormal*, Autition*, Multi- gt device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Electrical equipment for laboratory use Part 1: General requirements. Medical electrical equipment. Part 1: General requirements for safety. Medical electrical equipment. Part 1: General Requirements for safety. Medical electrical equipment. Part 1: General Requirements for safety. Audio, video and similar electronic apparatus – Safety requirements Audio/video and similar electronic apparatus for Household, commercial and similar general use Australian/New Zealand Standard – Approval and test Specification – Mains operated electronic and related Equipment for household and 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 1995 Cholading 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: 2000 UL 61010-1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000 UL 60605: 2003 IEC 60065: 2003 IEC 60065: 2003 IEC 60065: 2002 EN 60065- 2002 EN 60065- 2002 EN 60065- 2002	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part1: General Requirements Information Technology Equipment — Safety — General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements for Safety I: Collateral Standard: Safety Requirements for Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements for Safety - Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Safety of Machinery — Electrical Equipment of Machines — Part 1: Specification for General Requirements Safety of Machinery — Electrical Equipment of Machines — Part 1: Specification for General Requirements
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ironmental Simulation			Note 1. For standards or methods listed on the scope of accreditation without a revision	data laboratorias as
Test Technology	Test Standard	Supporting Standards	•	
Accessibility*	IEC 60529	IP-0x thru IP-6x	expected to be competent in the use of the current version within one year of the date of	
Accessionity* Acoustic Noise*	GR-63-CORE Sec 4.6	Ir-ox uliu Ir-ox	standard test method or upon the date specified by the standard test method originator v	when the originator h
			implementation authority. When a superseded standard or method is required for an account	redited test, the scor
Airborne Contaminants	GR-63-CORE Sec 4.5	MFG & Hygroscopic Dust	will include the superseded date/version. For those that support the TCB/CB status of the	
Altitude	GR-63-CORE Sec 4.1.3			
Cold Start*	ETS 300 019	IEC 60068-2-1	as a certifier on behalf of the FCC or IC the expectation is currency within 30 days of F	ederal Register
Drip	IEC 60529	IP-x1 & IP-x2	publication of changes for FCC and 30 days after IC website update. This note shall no	t be construed as an
Drops*	ETS 300 019	IEC 60068-2-32	Accreditation Body implication to adopt a more current standard than is required in a re	
•	GR-63-CORE Sec 4.3			guiation of code (i.
Dust	IEC 60529	IP-5x & IP-6x	the legal requirement) which is adopted by the lab under their responsibility.	
Firearms Resistance Testing	GR-487	II -5x & II -0x		
			* On-site test service is available for this technology, test, or method.	
Fire Resistance	ANSI.T1.319	F: 0 N II FI	2.1. 2.1. 2.1. Acc to dramable for this reculotogy, rest, or method.	
	GR-63-CORE Sec 4.2	Fire & Needle Flame		
Heat Dissipation*	GR-63-CORE Sec 4.1.4			
Illumination	GR-63-CORE Sec 4.7			
Operational Temperature &				
Humidity (OpTH)*	ETS 300 019	IEC 60068-2-1		
rumuny (OPTT)	210 300 019	IEC 60068-2-2		
		IEC 60068-2-14		
		IEC 60068-2-56		
	GR-63-CORE Sec 4.1.2			
Salt Fog & Spray	ASTM B117			
Spatial*	GR-63-CORE Sec 2.0 & 3.0			
Spraying-Splashing	IEC 60529	IP-x3 & IP-x4		
Storage (Temperature & Humidity)*	ETS 300 019	IEC 60068-2-1		
		IEC 60068-2-2		
		IEC 60068-2-14		
		IEC 60068-2-14		
		IEC 60068-2-56		
	GR-63-CORE Sec 4.1.1			
Vibration	ETS 300 019	IEC 60068-2-6		
		IEC 60068-2-27		
		IEC 60068-2-29		
		IEC 60068-2-32		
		IEC 60068-2-57		
		IEC 60068-2-64		
		Earthquake, Office &		
	GR-63-CORE Sec 4.4	Transportation		
Water Immersion				
	IEC 60529	IP-x7 & IP-x8		
Water Jet	IEC 60529	IP-x5 & IP-x6		
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