

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK



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Accredited to
ISO/IEC 17025:2005

Blackwood Compliance Laboratories

Issue No: 008 Issue date: 11 October 2011

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Testing performed at the above address only

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
IT Equipment Telecommunication Equipment Domestic, Commercial and Industrial Equipment Medical Equipment Similar Electrical Equipment	1 <u>EMC Testing</u> 1.1 Conducted Emissions 150 kHz to 30 MHz	EN 55011:1998 + A1:1999 + A2:2002 EN 55013:2001 + A1:2003 excluding TVs and VCRs EN 55014-1:2000 + A1:2001 + A2:2002 EN 55014-1:2006 CISPR 14-1:2005 + A1:2008 EN 55014-1:2006 + A1:2009 EN 55022:1994 + A1:1995 + A2:1997 EN 55022:1998 + A1:2000 + A2:2003 EN 55022 :2006 + A1 :2007
	1.2 Discontinuous Conducted Emissions	EN 55014-1:2000 + A1:2001 + A2:2002 EN 55014-1:2006 CISPR 14-1:2005 + A1:2008 EN 55014-1:2006 + A1:2009



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As listed on Page 1	1 <u>EMC Testing</u> (cont'd)	
	1.3 Radiated Emissions Electric Field: 30 MHz to 1 GHz	EN 55011:1998 + A1:1999 + A2 :2002 EN 55013:2001 + A1:2003 EN 55014-1:2000 + A1:2001 + A2:2002 EN 55014-1:2006 CISPR 14-1:2005 + A1:2008 EN 55014-1:2006 + A1:2009 EN 55022:1994 + A1:1995 + A2:1997 EN 55022:1998 + A1:2000 + A2:2003 EN 55022 :2006 + A1:2007 up to 1GHz
	1.4 Magnetic field emissions 10 kHz to 400 kHz	EN 50366:2003 + A1:2006 EN 62233:2008 Time Domain Evaluation Method
	1.5 Disturbance Power (Absorption Clamp) 30 MHz to 1 GHz	EN 55013:2001 + A1:2003 EN 55014-1:2000 + A1:2001 + A2:2002 EN 55014-1:2006 CISPR 14-1:2005 + A1:2008 EN 55014-1:2006 + A1:2009
	1.6 Electrostatic Discharge Up to 25 kV	EN 61000-4-2:1995 IEC 1000-4-2:1995 EN 61000-4-2:1995 + A1:1998 + A2:2001 IEC 61000-4-2:1995 + A1:1998 + A2:2000 EN 61000-4-2:2009 IEC 61000-4-2:2008



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	1.8 Mains Harmonics	EN 61000-3-2:2000 EN 61000-3-2:2006 IEC 61000-3-2:2005
	1.9 Fast Burst Transients Up to 4 kV	EN 61000-4-4:1995 EN 61000-4-4:1995 + A1:2001 + A2:2001 IEC 61000-4-4:1995 EN 61000-4-4:2004 IEC 61000-4-4:2004
	1.10 Surge Immunity Up to 4 kV	EN 61000-4-5:1995 IEC 61000-4-5:1995 EN 61000-4-5:1995 + A1:2001 IEC 61000-4-5:1995 + A1:2000 EN 61000-4-5:2006 IEC 61000-4-5:2005
	1.11 Voltage Flicker	EN 61000-3-3:1995 + A1:2001 + A2:2005 IEC 61000-3-3: 1994 + A1:2001 + A2:2005 EN 61000-3-3:2008 IEC 61000-3-3:2008



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	1.12 Conducted RF Immunity 150 kHz to 230 MHz 20V rms	EN 61000-4-6:1996 IEC 1000-4-6:1996 EN 61000-4-6:1996 + A1:2001 IEC 61000-4-6:1996 + A1:2000 EN 61000-4-6:2007 EN 61000-4-6:2007 + Corr Aug 2007 IEC 61000-4-6:2003 + A1:2004 + A2:2006 EN 61000-4-6:2009 IEC 61000-4-6:2008
	1.13 Magnetic Immunity 30A/m	EN 61000-4-8:1993 IEC 61000-4-8:1993 EN 61000-4-8:1993 + A1:2001 IEC 61000-4-8:1993 + A1:2000
	1.14 Voltage Dips and Interrupts	EN 61000-4-11:1994 IEC 61000-4-11:1994 EN 61000-4-11:1994 + A1:2001 EN 61000-4-11:2004 IEC 61000-4-11:2004
As listed on Page 1	2 <u>Commercial EMC Testing</u> Generic and Project Specific Standards These standards are accredited to the extent that they call up the basic standards as detailed in Section 1 above	EN 61000-6-1:2001 EN 61000-6-1:2007 IEC 61000-6-1:2005 EN 61000-6-2:2001 EN 61000-6-2:2005 IEC 61000-6-2:2005 EN 61000-6-3:2001 EN 61000-6-3:2007 IEC 61000-6-3:2006 EN 61000-6-4:2001 EN 61000-6-4:2007 IEC 61000-6-4:2006 EN 50130-4:1995 + A1:1998 + A2:2003 EN 55014-2:1997 + A1:2001 CISPR 14-2:1997 + A1:2001 + A2:2008 EN 55014-2:1997 + A1:2001 + A2:2008



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As listed on Page 1	2 <u>Commercial EMC Testing</u> (cont'd)	EN 55024:1998 + A1:2001 + A2:2003 EN 55103-1:1996 EN 55103-2:1996 EN 60601-1-2:2001 EN 60601-1-2:2007 (excluding lighting equipment used in medical applications) EN 61800-3:1996 + A11:2000 EN 61326:1997 + A1:1998 + A2:2001 + A3:2003 CISPR 11:2003 CISPR 13: 2001 + A1 2003 CISPR 14:1993 CISPR 14-1:2002 CISPR 14-1:2005 CISPR 14-2: 1997 + A12001 CISPR 22:2003 CISPR 22:2005 + A1:2005 + A2:2006 Internal Method TP 0023, Rev A
	<u>Facilities:</u> Anechoic Chamber: 8m x 5m x 5 m Access Door: 2 m x 2 m Open Area Test Site: 3 m and 10 m 1.25 m Turntable - Maximum Weight 455 Kg Power Supplies: 415V 3-phase 50 Hz, 32A/phase	



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Household and similar electrical appliances General requirements	3 <u>Electrical Product Testing</u> Limitations Impulse voltage 6kV maximum	BS EN 60335-1: 2002, Amds 1 to 4, Corrigs 1 to 3 EN 60335-1:2002, Amds A1, A2, A11 and A12 EN 60335-1:2002, Amds A1, A2, A11, A12, A13 EN 60335-1:2002, Amds A1, A2, A11, A12, A13 and A14 Excluding: Clause 15.1, IP testing > IPX0 Clause 22.1 IP testing > IP4X Clause 22.32, Oxygen bomb test Clauses 22.46, Software Clause 29.2, Tracking test Annex N, Tracking test Annex R, Software
Shavers and Hair Clippers	Electrical Safety	BS EN 60335-2-8:2003, Amd 1, EN 60335-2-8:2003, Amd A1 EN 60335-2-8:2003, Amds A1, A2
Deep fat fryer, electric frying pans and similar appliances	Electrical safety	BS EN 60335-2-13:2003, Amd 1, Corrig 1 EN 60335-2-13:2003, Amd A1 EN 60335-2-13:2003, Amds A1, A2 IEC 60335-2-13:2002, Amd 1
Appliances for Skin or Hair Care	Electrical Safety	BS EN 60335-2-23:2003, Corrig 1 EN 60335-2-23:2003 EN 60335-2-23:2003, Amd A1 IEC 60335-2-23:2003 IEC 60335-2-23:2003 Amd A1
Clocks	Electrical safety	BS EN 60335-2-26:2003 EN 60335-2-26:2003 EN 60335-2-26:2003, Amd A1 IEC 60335-2-26:2002 IEC 60335-2-26:2002, Amd A1 Excluding: Clause 21 Mechanical Strength



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Sewing machines	3 <u>Electrical Product Testing</u> (cont'd) Electrical safety	BS EN 60335-2-28:2003 EN 60335-2-28:2003 EN 60335-2-28:2003, Amd A1 IEC 60335-2-28:2002
Battery Chargers	Electrical Safety	BS EN 60335-2-29:2004, Amd 1 and Corrig 1 EN 60335-2-29:2004 EN 60335-2-29:2004 Amd A2 IEC 60335-2-29:2002, Amd A1 Excluding: Clause 21.102, Vibration test
Oral Hygiene Appliances	Electrical Safety	BS EN 60335-2-52:2003 EN 60335-2-52:2003 EN 60335-2-52:2003 Amd A1 IEC 60335-2-52:2002 IEC 60335-2-52:2002 Amd A1
Insect Killers	Electrical Safety	BS EN 60335-2-59:2003 EN 60335-2-59:2003 EN 60335-2-59:2003 Amd A1 EN 60335-2-59:2003 Amds A1, A2 IEC 60335-2-59:2002 Amd A1 IEC 60335-2-59:2002 Amds A1, A2 Excluding: Clause, 31 Salt mist test Clause 32, UV test
Fixed immersion heaters	Electrical safety	BS EN 60335-2-73:2003, Amd A1 EN 60335-2-73:2003, Amd A1 EN 60335-2-73:2003, Amd A1, A2 IEC 60335-2-73:2002, Amd A1 EN 60335-2-73:2002, Amd A1, A2



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Commercial Dispensing appliances and Vending Machines	3 <u>Electrical Product Testing</u> (cont'd) Electrical Safety	BS EN 60335-2-75:2004, Amds 1 and 2 EN 60335-2-75:2004, Amds A1 and A11 EN 60335-2-75:2004 Amds, A1, A2, A11 EN60335-2-75 Amds A1, A12, A11, A12 Excluding: Clause 15.1.1, splash test
Fans	Electrical Safety	BS EN 60335-2-80:2003, Amd 1 EN 60335-2-80:2003, Amd A1 EN 60335-2-80:2003 Amd A1 and A2 IEC 60335-2-80:2002, Amd A1 IEC 60335-2-80:2002 Amd A1 and A2
Amusement and Personal Services Machines	Electrical Safety	BS EN 60335-2-82:2003 EN 60335-2-82:2003 EN 60335-2-82:2003 Amd A1 IEC 60335-2-82:2002 IEC 60335-2-82:2002 Amd A1 Excluding: Clause, 31 Salt mist test
Fabric steamers	Electrical safety	BS EN 60335-2-85:2003 EN 60335-2-85:2003 EN 60335-2-85:2003 Amd A1 IEC 60335-2-85:2002 IEC 60335-2-85:2002 Amd A1
Humidifiers	Electrical safety	BS EN 60335-2-98:2003, Amd 1 EN 60335-2-98:2003, Amd A1 EN 60335-2-98:2003 Amds A1 and A2 IEC 60335-2-98:2002, Amd 1 IEC 60335-2-98:2002 Amds A1 and A2
	END	