

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p><b>UKAS</b> TESTING</p> <p>2667</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p><b>Kiwa Ltd</b> <b>trading as Kiwa Electrical Compliance</b></p> <p>Issue No: 026    Issue date: 30 April 2021</p>	
	<p>Unit 8 Woodfieldside Business Park Pontllanfraith Blackwood Gwent NP12 2DG</p>	<p>Contact: Mrs G Baker Tel: +44 (0)1495 229219 Fax: +44 (0)1495 228331 E-Mail: ginnie.baker@kiwa.com Website: www.kiwa.co.uk</p>
<p><b>Testing performed at the above address only</b></p>		

### DETAIL OF ACCREDITATION

NOTE: Where EN Standards have exact equivalents in IEC, or BS EN Standards, these are also included in the 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 9 kHz to 30 MHz	EN 55011:1998 + A1:1999 + A2:2002 EN 55011:2009 (AMN) EN 55011:2009 + A1:2010 (AMN) EN 55011:2016 (AMN) CISPR 11:2015 (AMN) EN 55011:2016 + A1:2017 (AMN) CISPR 11:2015 + A1:2016 (AMN) 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 55014-1:2006 + A1:2009 + A2:2011 excluding Induction Hobs CISPR 14-1:2005 + A1:2008 + A2:2011 excluding Induction Hobs EN 55014-1:2017 CISPR 14-1:2016 + Cor1:2016  EN 55022:1994 + A1:1995 + A2:1997 EN 55022:1998 + A1:2000 + A2:2003 EN 55022 :2006 + A1 :2007 EN 55022:2010 EN 55032:2015 + A11:2020 (AMN only) excluding LAN ports, display & video function, sound and television broadcast receivers



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As listed on Page 1	1 EMC Testing (cont'd)	
	1.1 Conducted Emissions (cont'd)	EN 55016-2-1:2009 (AN's) CISPR 16-2-1:2008 (AN's) EN 55016-2-1:2009 + A1:2011 (AN's) CISPR 16-2-1:2008 + A1:2010 AN's) EN 55016-2-1:2014 (AN's) CISPR 16-2-1:2014 (AN's) EN 55016-2-1:2014 + A1:2017 (AN's) CISPR 16-2-1:2014 + A1:2017 (AN's)
	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 EN 55014-1:2006 + A1:2009 + A2:2011 excluding Induction Hobs CISPR 14-1:2005 + A1:2008 + A2:2011 excluding Induction Hobs EN 55014-1:2017 CISPR 14-1:2016 + Cor1:2016
	1.3 Disturbance Power (Absorption Clamp) 30 MHz to 300 MHz	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 55014-1:2017 CISPR 14-1:2016 + Cor1:2016 EN 55016-2-2:2004 + A1:2005 CISPR 16-2-2:2003 + A1:2004 EN 55016-2-2:2004 + A1:2005 + A2:2005 CISPR 16-2-2:2003 + A1:2004 + A2:2005 EN 55016-2-2:2011 CISPR 16-2-2:2011



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As listed on Page 1	1 EMC Testing (cont'd)  1.4 Radiated Emissions Electric Field: 30 MHz to 1 GHz 1 GHz to 6 GHz	EN 55011:1998 + A1:1999 + A2 :2002 EN 55011:2009 ( $\leq$ 1 GHz) EN 55011:2009 + A1:2010 ( $\leq$ 1 GHz) EN 55011:2016 ( $\leq$ 1 GHz) CISPR 11:2015 ( $\leq$ 1 GHz) EN 55011:2016 + A1:2017 ( $\leq$ 1 GHz) CISPR 11:2015 + A1:2016 ( $\leq$ 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 EN 55014-1:2006 + A1:2009 + A2:2011 excluding Induction Hobs CISPR 14-1:2005 + A1:2008 + A2:2011 excluding Induction Hobs EN 55014-1:2017 CISPR 14-1:2016 + Cor1:2016  EN 55022:1994 + A1:1995 + A2:1997 EN 55022:1998 + A1:2000 + A2:2003 EN 55022 :2006 + A1:2007 EN 55022:2010 EN 55032:2015 + A11:2020 excluding LAN ports, display & video function, sound and television broadcast receivers  EN 55016-2-3:2010 CISPR 16-2-3:2010 EN 55016-2-3:2010 + A1:2010 CISPR 16-2-3:2010 + A1:2010 EN 55016-2-3:2010 + A1:2010 + A2:2014 CISPR 16-2-3:2010 + A1:2010 + A2:2014 EN 55016-2-3:2017 CISPR 16-2-3:2016



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As listed on Page 1	1 EMC Testing (cont'd)  1.5 Mains Harmonics	EN 61000-3-2:2000 EN 61000-3-2:2006 IEC 61000-3-2:2005 EN 61000-3-2:2006 + A1:2009 + A2:2009 EN 61000-3-2:2014 IEC 61000-3-2:2014
	1.6 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 EN 61000-3-3:2013 IEC 61000-3-3:2013
	1 EMC Testing (cont'd)  1.7 Magnetic field emissions 10 kHz to 400 kHz	EN 50366:2003 + A1:2006 EN 62233:2008 Time Domain Evaluation Method
	1.8 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
	1.9 Radiated E-Field Immunity 80 MHz to 6 GHz ≤ 28V/m	EN 61000-4-3:1996 IEC 61000-4-3:1995 EN 61000-4-3:2002 + A1:2002 IEC 61000-4-3:2002 + A1:2002 EN 61000-4-3:2006 IEC 61000-4-3:2006 EN 61000-4-3:2006 + A1:2008 EN 61000-4-3:2006 + A1:2008 + A2:2010 IEC 61000-4-3:2006 + A1:2007 IEC 61000-4-3:2006 + A1:2007 + A2:2010



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As listed on Page 1	1 <u>EMC Testing</u> (cont'd)	
	1.10 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 EN 61000-4-4:2004 + A1:2010 EN 61000-4-4:2012
	1.11 Surge Immunity Up to 4.4 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 EN 61000-4-5:2014 EN 61000-4-5:2014 + A1:2017 IEC 61000-4-5:2014 + A1:2017
	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 EN 61000-4-6:2014
	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 EN 61000-4-8:2010



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As listed on Page 1	1 <u>EMC Testing</u> (cont'd) 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 EN 61000-4-11:2004 + A1: 2017 IEC 61000-4-11:2004 + A1: 2017



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As listed on Page 1	2 <u>Commercial EMC Testing</u>	CISPR 11:2003 EN 55011:1998 + A1:1999 + A2:2002 EN 55011:2009 (AMN) EN 55011:2009 + A1:2010 (AMN) EN 55011:2016 (AMN) CISPR 11:2015 (AMN) EN 55011:2016 + A1:2017 (AMN) CISPR 11:2015 + A1:2016 (AMN) CISPR 13: 2001 + A1 2003 EN 55013:2001 + A1:2003 excluding TVs and VCRs CISPR 14:1993 EN 55014-1:2000 + A1:2001 + A2:2002 CISPR 14-1:2002 EN 55014-1:2006 CISPR 14-1:2005 CISPR 14-1:2005 + A1:2008 EN 55014-1:2006 + A1:2009 EN 55014-1:2006 + A1:2009 + A2:2011 excluding Induction Hobs CISPR 14-1:2005 + A1:2008 + A2:2011 excluding Induction Hobs EN 55014-1:2017 CISPR 14-1:2016 + Cor1:2016 CISPR 14-2: 1997 + A1:2001 CISPR 14-2:2015 EN 55014-2:1997 + A1:2001 CISPR 14-2:1997 + A1:2001 + A2:2008 EN 55014-2:1997 + A1:2001 + A2:2008 EN 55014-2:2015 EN 55022:1994 + A1:1995 + A2:1997 EN 55022:1998 + A1:2000 + A2:2003 CISPR 22:2003 CISPR 22:2005 + A1:2005 + A2:2006 EN 55022 :2006 + A1 :2007 EN 55022:2010 EN 55024:1998 + A1:2001 + A2:2003 EN 55024:2010 EN 55024:2010 + A1:2015 EN 55032:2015 +A11:2020 (AMN)



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As listed on Page 1	<p>2 <u>Commercial EMC Testing</u></p> <p>Generic and Project Specific Standards</p> <p>These standards are accredited to the extent that they call up the basic standards as detailed in Section 1 above</p>	<p>only) excluding LAN ports, display &amp; video function, sound and television broadcast receivers EN 55035:2017 +A11:2020, excluding xDSL, display &amp; video function, sound &amp; television broadcast receivers, and Annex D display jitter EN 50130-4:1995 +A1:1998 +A2:2003 EN 50130-4:2011 EN 50130-4:2011 + A1:2014 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 60601-1-2:2015 IEC 60601-1-2:2014 EN 61000-6-1:2001 EN 61000-6-1:2007 EN 61000-6-1:2019 excluding EN 61000-4-34 IEC 61000-6-1:2005 EN 61000-6-2:2001 EN 61000-6-2:2005 EN 61000-6-2:2019 excluding EN 61000-4-34 IEC 61000-6-2:2005 EN 61000-6-3:2001 EN 61000-6-3:2007 IEC 61000-6-3:2006 EN 61000-6-3:2007 + A1:2011 IEC 61000-6-3:2006 + A1:2010 EN 61000-6-4:2001 EN 61000-6-4:2007 EN 61000-6-4:2019 IEC 61000-6-4:2006 EN 61000-6-4:2007 + A1:2011 IEC 61000-6-4:2006 + A1:2010 EN 61800-3:1996 + A11:2000 EN 61326:1997 + A1:1998 + A2:2001 + A3:2003 EN 61326-1:2013 IEC 61326-1:2012 EN 61326-2-6:2013 IEC 61326-2-6:2012 Internal Method TP 0023, Rev A</p>





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	<p><u>EMC Facilities:</u></p> <p>Anechoic Chamber: 8m x 5m x 5m Access Door: 2 m x 2 m Open Area Test Site: 3 m and 10m 1.25 m Turntable - Maximum Weight 455 Kg Power Supplies: 415V 3-phase 50 Hz, 32A/phase Programmable Power supply: 0 V to 300 V AC 6.5 Hz to 2kHz 20A 0 to 425 V DC</p>	
Household and similar electrical appliances  General requirements	<p><u>3 Electrical Product Safety Testing</u></p> <p>Limitations</p> <p>Impulse voltage 6kV maximum</p>	<p>EN 60335-1:2002 + A1 + A2 + A11 + A12 + A13 + A14 + A15</p> <p>EN 60335-1:2012 EN 60335-1:2012+A11:2014 EN 60335-1:2012 + A11 + A13:2017</p> <p>IEC 60335-1:2010 IEC 60335-1:2010+A1:2013+A2:2016 Excluding: 15.1, IP water ingress tests 19.11.4.7, Harmonics immunity test 22.1, IP access tests &gt; IP4X 22.32, Oxygen bomb test 22.46, Software Class B or Class C evaluation 29.2, Tracking test</p>
Shavers and Hair Clippers	Electrical Safety	EN 60335-2-8:2003 + A1 + A2
Deep fat fryer, electric frying pans and similar appliances	Electrical safety	<p>EN 60335-2-13:2003 + A1 + A2 IEC 60335-2-13:2002 + A1</p> <p>EN 60335-2-13:2010 IEC 60335-2-13:2009</p>



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Storage water heaters	3 <u>Electrical Product Safety Testing</u> (cont'd) Electrical safety	EN 60335-2-21:2003 +A1 +A2
Appliances for Skin or Hair Care	Electrical Safety	EN 60335-2-23:2003 + A1 + A11 IEC 60335-2-23:2003 + A1
Battery Chargers	Electrical Safety	EN 60335-2-29:2004 + A1 + A2 IEC 60335-2-29:2002 + A1 + A2 Excluding: 21.102, Vibration test
Room heaters	Electrical Safety	IEC 60335-2-30:2009 +A1:2016 Excluding: 21.105 vibration tests EN 60335-2-30:2009 + A11 Excluding: 15.1 water ingress tests 15.2 Spillage test 22.105 Thermal shock test 22.110 Paint coating test  19.103 Size limitation for test to maximum largest dimension of 0.4m
Heat exchangers and thermoelectric coolers (non-refrigerant type)	Electrical Safety	EN 60335-2-40:2003+ A1 + A2 + A11 + A12 + A13 IEC 60335-2-40:2002 + A1 + A2
Electric pumps for liquids	Electrical safety	EN 60335-2-41:2003 + A1 + A2 IEC 60335-2-41:2002 + A1 + A2  IEC 60335-2-41:2012
Oral Hygiene Appliances	Electrical Safety	EN 60335-2-52:2003 + A1 IEC 60335-2-52:2002 + A1



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Insect Killers	3 <u>Electrical Product Safety Testing</u> (cont'd)  Electrical Safety	EN 60335-2-59:2003 + A1 + A2 IEC 60335-2-59:2002 + A1 + A2 Excluding: 31 Salt mist test 32, UV emission test
Fixed immersion heaters	Electrical safety	EN 60335-2-73:2003 + A1 + A2 IEC 60335-2-73:2002 + A1
Commercial Dispensing appliances and Vending Machines	Electrical Safety	EN60335-2-75: 2004 + A1 + A2 + A11 + A12 IEC 60335-2-75: 2002 + A1 + A2 + A11 + A12 Excluding: 15.1.1, Splash test
Fans	Electrical Safety	EN 60335-2-80:2003 + A1 + A2 IEC 60335-2-80:2002 + A1 + A2
Amusement and Personal Services Machines	Electrical Safety	EN 60335-2-82:2003 + A1 IEC 60335-2-82:2002 + A1 Excluding: 31, Salt mist test
Fabric steamers	Electrical safety	EN 60335-2-85:2003 + A1 IEC 60335-2-85:2002 + A1
Humidifiers	Electrical safety	EN 60335-2-98:2003 + A1 + A2 IEC 60335-2-98:2002 + A1 + A2
Gas, oil and solid-fuel burning appliances having electrical connections	Electrical safety	EN 60335-2-102:2006 + A1 IEC 60335-2-102:2004 Excluding: 8.101 Spark ignition circuit test
END		