

# AUDIO AUDIO-VISUAL AND ENTERTAINMENT LIGHTING CONTROL APPARATUS EN55103-2:2009—Environments E1 E2 E3

IMMUNITY EN55103-2 : 2009					
Item	Port	Phenomenon	Basic Standard	Test Value	Notes
1	Enclosure	Electrostatic discharge (ESD)	EN61000-4-2	4 kV / 8 kV contact / air	B
		EM Radiated Field	EN61000-4-3	80 MHz - 1 GHz 1 KHz AM 3 V/m 1.4 GHz - 2.0 GHz 1 KHz AM 3 V/m 2.0 GHz - 2.7 GHz 1 KHz AM 1 V/m	A A
		Magnetic Fields (Homogenous) 50 Hz—10 kHz (E1)	EN55103-2	1 - 0.01 A/m 50 Hz - 5 KHz (E1) 0.01 A/m 5 KHz - 10 KHz	A
		Magnetic Fields 50 Hz—10 kHz (E2 E3)	EN55103-2	3—0.03 A/m 50 Hz - 5 KHz (E2 E3) 0.03 A/m 5 KHz - 10 KHz	A
		Magnetic Fields (Inhomogenous) 50 Hz— 10KHz (E1 E2 E3)	EN55103-2	4 - 0.4 A/m 50 Hz - 500 Hz 0.4 A/m 500 Hz - 10 KHz	
2	AC Power	Burst Surge	EN61000-4-4 EN61000-4-5 EN61000-4-5	1.0 kV 1.0 kV Line to Earth } 5 pulses +ve & -ve , I per minute 0.5 kV Line to Line }	B B B
		Conducted RF	EN61000-4-6	3 V rms 1 kHz 80% AM modulation	A
		Voltage Dips	EN61000-4-11	30% for 10ms ]	B
		Voltage Dips Voltage Interruptions	EN61000-4-11 EN61000-4-11	60% for 100 ms ] Voltage shift at zero crossing 100% for 5 s ]	C C
3	DC Power	Burst	EN61000-4-4	0.5 kV (ports > 3m - use capacitive clamp)	B
		Conducted RF	EN61000-4-6	3 V rms 1 kHz 80% AM modulation (ports > 3m )	A
4	Signal and Control ports	Burst	EN61000-4-4	0.5 kV ( ports > 3m)	A
		Conducted RF	EN61000-4-6	3 V rms 1 kHz 80% AM modulation ( ports > 1m)	A
		Magnetic Fields 50 Hz— 10KHz (E1 E2 E3)	EN55103-2		A
5	Functional Earth Ports	Burst	EN61000-4-4	0.5 kV ( ports > 3m)	B
		Conducted RF	EN61000-4-6	3 V rms 1 kHz 80% AM modulation ( ports > 3m)	A

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Dow 01-07-2012