NVLAP® **National Voluntary Laboratory Accreditation Program**

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Elite Electronic Engineering Inc.
1516 Centre Circle
Downers Grove, IL 60515-1082
Mr. Raymond Klouda
Phone: 630-495-9770 Fax: 630-495-9785
E-Mail: lbrooks@elitetest.com
URL: http://www.elitetest.com

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS **NVLAP LAB CODE 100278-0**

NVLAP Code	*Designation / Description*
Emissions Test Methods	
12/160D21	RTCA/DO-160D (1997): Environmental Conditions and Test Procedures for Airborne Equipment - Section 21 - Emission of Radio Frequency Energy
12/160F21	RTCA/DO-160F (2007): Environmental Conditions and Test Procedures for Airborne Equipment - Section 21 - Emissions of Radio Frequency Energy
12/60E213	RTCA DO-160E: Section 21.3, RF Emissions, Conducted
12/60E214	RTCA DO-160E: Section 21.4, RF Emissions, Radiated
12/61000g	EN 61000-6-3 (2007): Electromagnetic compatibility (EMC) - Part 6-3: Generic standard - Emission standard for residential, commericial and light industrial environments
12/61000h	AS/NZS 61000-6-3 (2007): Electromagnetic compatibility (EMC) - Generic standards - Emission standard for residential, commercial and light-industrial environments
12/CIS11ab	CNS 13803 (2003): Limits and methods of measurement of electromagnetic interference characteristics of industrial, scientific an medical (ISM) radio-frequency equipment
12/CIS11ac	CNS 13803 (1997): Limits and methods of measurement of electromagnetic interference characteristics of industrial, scientific an medical (ISM) radio-frequency equipment

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12/CIS11g	IEC/CISPR 11, Ed. 4.1 (2004-06): Industrial, scientific and medical (ISM) radio-frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurements
12/CIS11h	AS/NZS CISPR 11 (2004): Industrial, scientific and medical (ISM) radio frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement
12/CIS14	CISPR 14-1 (March 30, 2000): Limits and Methods of Measurement of Radio interference Characteristics of Household Electrical Appliances, Portable Tools and Similiar Electrical Apparatus - Part 1: Emissions
12/CIS14a	EN 55014-1 (1993), A1 (1997), A2 (1999):
12/CIS14a4	EN 55014-1 (2006): Electromagnetic Compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission
12/CIS14e	EN 55014-1 (2001) and A1 (2001): Electromagnetic Compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission
12/CIS22	IEC/CISPR 22 (1997) & EN 55022 (1998) + A1(2000): Limits and methods of measurement of radio disturbance characteristics of information technology equipment
12/CIS22c4	EN 55022 (1998) + A1(2000) + A2(2003): Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
12/CIS22f	CNS 13438 (2006) (up to 6GHz): LImits and Methods of Measurement of Radio Interference Characteristics of Information Technology Equipment
12/CIS22j	EN 55022 (2006): Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
12/CIS22k	IEC/CISPR 22 (2008-09): Limits and Methods of Measurement of Radio Disturbance Characteristics of Information Technology Equipment

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NVLAP Code	*Designation / Description*
12/EM02i	IEC 61000-3-2, Ed. 3.0 (2005-11): Electromagnetic compatability (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current <=16 A per phase)
12/EM03ii	IEC 61000-3-3, Edition 1.2 (2005-10): EMC- Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low- voltage supply systems, for equipment with rated current <= 16 A per phase and not subject to conditional connection
12/FCC15b	ANSI C63.4 (2003) with FCC Method 47 CFR Part 15, Subpart B: Unintentional Radiators
12/FCC15bb	ANSI C63.4 (2009) with FCC Method 47 CFR Part 15, Subpart B: Unintentional Radiators
12/KN11d	KN11 (2008-5) with RRL Notice No. 2008-3 (May 20, 2008): Conformity Assessment Procedure for Electromagnetic Interference; With KN 11
12/KN14b	KN 14-1 (2008-5) with RRL Notice No. 2008-3 (May 20, 2008): Electromagnetic Compatibility - Requirements for household appliances, electric tools and similar apparatus - Emission
12/KN22e	KN22 (2008-5) with RRL Notice No. 2008-3 (May 20, 2008): Conformity Assessment Procedure for Electromagnetic Interference; With KN 22
12/T51a	AS/NZS CISPR 22 (2004): Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
12/T51b	AS/NZS CISPR 22, 3rd Edition (2006): Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
12/VCCIe	Agreement of VCCI V-3 (2009.04): Agreement of Voluntary Control Council for Interference by Information Technology Equipment - Technical Requirements: V-3/2009.04 (radiated disturbance above 1 GHz)

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NVLAP Code	*Designation / Description*
Immunity Test Methods	
12/160D16	RTCA/DO-160D (1997): Environmental Conditions and Test Procedures for Airborne Equipment - Section 16 - Power Input
12/160D17	RTCA/DO-160D (1997): Environmental Conditions and Test Procedures for Airborne Equipment - Section 17 - Voltage Spike
12/160D18	RTCA/DO-160D (1997): Environmental Conditions and Test Procedures for Airborne Equipment - Section 18 - Audio Frequency Conducted Susceptibility - Power Inputs
12/160D19	RTCA/DO-160D (1997): Environmental Conditions and Test Procedures for Airborne Equipment - Section 19 - Induced Signal Susceptibility
12/160D20	RTCA/DO-160D (1997): Environmental Conditions and Test Procedures for Airborne Equipment - Section 20 - Radio Frequency Susceptibility (Radiated and Conducted)
12/160D22	RTCA/DO-160D (1997): Environmental Conditions and Test Procedures for Airborne Equipment - Section 22 - Lightning Induced Transient Susceptibility
12/160F15	RTCA/DO 160F (2007): Environmental Conditions and Test Procedures for Airborne Equipment - Section 15 - Magnetic Effect
12/160F16	RTCA/DO-160F (2007): Environmental Conditions and Test Procedures for Airborne Equipment - Section 16 - Power Input
12/160F17	RTCA/DO-160F (2007): Environmental Conditions and Test Procedures for Airborne Equipment - Section 17 - Voltage Spike
12/160F18	RTCA/DO-160F (2007): Environmental Conditions and Test Procedures for Airborne Equipment - Section 18 - Audio Frequency Conducted Suspceptibility - Power Inputs
12/160F19	RTCA/DO-160F (2007): Environmental Conditions and Test Procedures for Airborne Equipment - Section 19 - Induced Signal Susceptibility

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NVLAP Code	*Designation / Description*
12/160F20	RTCA/DO-160F (2007): Environmental Conditions and Test Procedures for Airborne Equipment - Section 20 - Radio Frequency Susceptibility (Radiated and Conducted)
12/160F22	RTCA/DO-160F (2007): Environmental Conditions and Test Procedures for Airborne Equipment - Section 22 - Lightning Induced Transient Susceptibility
12/160F25	RTCA/DO-160F (2007): Environmental Conditions and Test Procedures for Airborne Equipment - Section 25 - Electrostatic Discharge (ESD)
12/501304a	EN 50130-4 (1995) + A1(1998) & A2(2003): Alarm systems - Part 4. Electromagnetic compatibility - Product family standard: Immunity requirements for components of fire, intruder and social alarm systems
12/60E15	RTCA DO 160E: Section 15, Magnetic Effects
12/60E16	RTCA DO160E: Section 16, Power Input
12/60E17	RTCA DO-160E: Section 17, Voltage Spikes
12/60E18	RTCA DO-160E: Section 18, Audio Frequency Conducted Susceptibility
12/60E19	RTCA DO-160E: Section 19, Induced Signal Susceptibility
12/60E204	RTCA DO-160E: Section 20.4, RF Susceptibility, Conducted
12/60E205	RTCA DO-160E: Section 20.5, RF Susceptibility, Radiated
12/60E206	RTCA DO-160E: Section 20.6: RF Susceptability (Radiated Mode Tuned)
12/60E22	RTCA DO-160E: Section 22, Lightning Induced Transient Susceptibility
12/60E23	RTCA DO-160E: Section 23,Lightning Direct Effects
12/60E25	RTCA DO-160E: Section 25, Electrostatic Discharge (ESD)

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NVLAP Code	*Designation / Description*
12/610006h	IEC 61000-6-1, 2nd edition (2005-03): Electromagnetic compatibility (EMC) - Part 6: Generic standards - Section 1: Immunity for residential, commercial and light-industrial environments
12/610006j	EN 61000-6-2 (2005): Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments
12/61000k	EN 61000-6-1 (2007): Electromagnetic compatibility (EMC) - Part 6 - 1: Generic standards - Immunity for residential, commercial and light-industrial environments
12/CIS14i	EN 55014-2 (1997) and IEC/CISPR 14-2 (1997): Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2. Immunity - Product family standard
12/CIS24b	AS/NZS CISPR 24 (2002): Information technology equipment - Immunity characteristics - Limits and methods of measurement
12/I01	IEC 61000-4-2, Ed. 1.2 (2001); EN 61000-4-2: Electrostatic Discharge Immunity Test
12/I01a	IEC 61000-4-2 (1995), A1(1998), A2(2000); EN 61000-4-2(1995): ESD Immunity Test
12/I02c	IEC 61000-4-3 (1995), A1(1998), A2(2000): Radiated, radio-frequency, electromagnetic field immunity test
12/I02g	IEC 61000-4-3, Ed. 3.0 (2006-02): Electromagnetic compatibility (EMC) - Part 4-3: Testing measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test
12/I03	IEC 61000-4-4(1995), A1(2000), A2(2001); EN 61000-4-4: Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical Fast Transient/Burst Immunity Test
12/I03c	IEC 61000-4-4, Ed. 2.0 (2004-07): Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test

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12/I04a	IEC 61000-4-5(1995),A1(2000); EN 61000-4-5(1995),A1(2001): Surge Immunity Test
12/I04c	IEC 61000-4-5, Ed 1.1 (2005-11): EMC - Part 4-5: Testing and measurement techniques - Surge immunity test
12/I05a	IEC 61000-4-6 (1996),A1(2000); EN 61000-4-6(1996),A1(2001): Immunity to Conducted Disturbances, Induced by Radio Frequency Fields
12/I05f	IEC 61000-4-6, Ed 2.0 (2006-05): EMC - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
12/I06	IEC 61000-4-8, Ed. 1.1 (2001); EN 61000-4-8: Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test
12/I06a	IEC 61000-4-8(1993), A1(2000); EN 61000-4-8(1994), A1(2000): Power Frequency Magnetic Field Immunity Test
12/I07c	IEC 61000-4-11, Ed. 2 (2004-03) & EN 61000-4-11: Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests
12/I08	IEC/CISPR 24 (1997), Amd1, A1(2001); EN 55024 (1998): Information technology equipment - Immunity characteristics - Limits and methods of measurement
12/I08a	EN 55024 (1998) + A1 (2001) + A2 (2003): Information Technology Equipment - Immunity Characteristics - Limits and Methods of Measurement
12/I12b	EN 61000-4-12:2006: Electromagnetic compatibility (EMC). Testing and measurement techniques. Ring wave immunity test
12/KN11f	KN 61000-4-11 (2008-5); RRL Notice No. 2008-4 (May 20, 2008): Voltage Dips, Short Interruptions and Voltage Variations Immunity Tests
12/KN14c	KN14-2 (2008-5) with RRL Notice No. 2008-4 (May 20, 2008): Electromagnetic Compatibility - Requirements for household appliances, electric tools and similar apparatus - Immunity

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NVLAP Code	*Designation / Description*
12/KN24d	KN 24 (2008-5) with RRL Notice No. 2008-4 (May 20, 2008): Information Technology Equipment - immunity charateristics - limits and methods of measurements
12/KN2c	KN 61000-4-2 (2008-5); RRL Notice No. 2008-4 (May 20, 2008): Electrostatic Discharge Immunity Test
12/KN3c	KN 61000-4-3 (2008-5); RRL Notice No. 2008-4 (May 20, 2008): Radiated, radio-frequency, electromagnetic field immunity test
12/KN4c	KN 61000-4-4 (2008-5); RRL Notice No. 2008-5 (May 20, 2008): Electromagnetic compatibility (EMC): Testing and measurement techniques - Electrical Fast Transient/Burst Immunity Test
12/KN5c	KN 61000-4-5 (2008-5); RRL Notice No. 2008-4 (May 20, 2008): Surge Immunity Test
12/KN6c	KN 61000-4-6 (2008-5); RRL Notice No. 2008-4 (May 20, 2008): Electromagnetic compatibility (EMC): Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
12/KN8c	KN 61000-4-8 (2008-5); RRL Notice No. 2008-4 (May 20, 2008): Power Frequency Magnetic Field Immunity Test

Product Safety Test Methods

12/60255	IEC 60255-5:2000: Electrical Relays - Part 5: Insulation Coordination for Measuring Relays and Protection Equipment - Requirements and Tests
12/60601a	IEC 60601-1-2, Ed1(1993);Ed2(2001-09); JIS T0601-1-2(2002.7): Medical electrical equipment - Part 1 and Part 1-2: General requirements for safety: Collateral standard: EMC - Requirements and tests
12/CSA03	CAN/CSA E60065: Audio, Video and Similar Electronic Apparatus - Safety Requirements

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NVLAP Code	*Designation / Description*
Telecommunications Test Methods	
12/T01	Terminal Equipment Network Protection Standards, FCC/ACTA Method - 47 CFR Part 68 - Analog and Digital
12/T01a	68.302 (Par. c,d,e,f) Environmental simulation; 68.304 Leakage current limit.; 68.306 Hazardous voltage limit.; 68.308 Signal power limit.; 68.310 Longitudinal balance limit.; 68.312 On-hook impedance limit.; 68.314 Billing protection
12/T01b	68.316 and 68.317 Hearing Aid Compatibility: technical standards
12/T01c	68.302 Environmental simulation (Par. a,b)
12/T1TRQ6	T1.TRQ.6 (2001): Technical Requirements for SHDSL, HDSL2, HDSL4, Digital Subscriber Line Terminal Equipment to Prevent Harm to the Telephone Network
12/TIA31B	TIA/EIA TSB-31-B (1998): Part 68 Rational and Measurement Guidelines
12/TIA968	ANSI/TIA-968-A (2003): Telephone Terminal Equipment, Technical Requirements for Connection of Terminal Equipment to the Telephone Network
12/TIA968a	ANSI/TIA-968-A-1 (2003): Telephone Terminal Equipment, Technical Requirements for Connection of Terminal Equipment to the Telephone Network - Addendum 1
12/TIA968b	ANSI/TIA-968-A-2 (2004): Telephone Terminal Equipment, Technical Requirements for Connection of Terminal Equipment to the Telephone Network - Addendum 2
12/TIA968c	ANSI/TIA-968-A-3 (2005): Telephone Terminal Equipment, Technical Requirements for Connection of Terminal Equipment to the Telephone Network - Addendum 3
MIL-STD-462 : Conducted Emissions	
12/A01	MIL-STD-462 Method CE01
12/A04	MIL-STD-462 Method CE02

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NVLAP Code	*Designation / Description*
12/A06	MIL-STD-462 Method CE03
12/A08	MIL-STD-462 Method CE04
12/A10	MIL-STD-462 Method CE06
12/A12	MIL-STD-462 Method CE07
12/A13	MIL-STD-462 Version D Method CE101
12/A14	MIL-STD-462 Version D Method CE102
12/A15	MIL-STD-462 Version D Method CE106
12/A16	MIL-STD-461 Version E Method CE101
12/A17	MIL-STD-461 Version E Method CE102
12/A18	MIL-STD-461 Version E Method CE106
12/A19	MIL-STD-461 Version F Method CE101
12/A20	MIL-STD-461 Version F Method CE102
12/A21	MIL-STD-461 Version F Method CE106

MIL-STD-462 : Conducted Susceptibility

12/B01	MIL-STD-462 Method CS01
12/B02	MIL-STD-462 Method CS02
12/B04	MIL-STD-462 Method CS03/CS04/CS05
12/B05	MIL-STD-462 Method CS06
12/B06	MIL-STD-462 Method CS07

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NVLAP Code	*Designation / Description*
12/B07	MIL-STD-462 Method CS09
12/B08	MIL-STD-462 Method CS10
12/B09	MIL-STD-462 Method CS11
12/B10	MIL-STD-462 Method CS12
12/B11	MIL-STD-462 Method CS13
12/B12	MIL-STD-462 Version D Method CS101
12/B13	MIL-STD-462 Version D Method CS103
12/B14	MIL-STD-462 Version D Method CS104
12/B15	MIL-STD-462 Version D Method CS105
12/B16	MIL-STD-462 Version D Method CS109
12/B17	MIL-STD-462 Version D Method CS114
12/B18	MIL-STD-462 Version D Method CS115
12/B19	MIL-STD-462 Version D Method CS116
12/B20	MIL-STD-461 Version E Method CS101
12/B21	MIL-STD-461 Version E Method CS103
12/B22	MIL-STD-461 Version E Method CS104
12/B23	MIL-STD-461 Version E Method CS105
12/B24	MIL-STD-461 Version E Method CS109
12/B25	MIL-STD-461 Version E Method CS114

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NVLAP Code	*Designation / Description*
12/B26	MIL-STD-461 Version E Method CS115
12/B27	MIL-STD-461 Version E Method CS116
12/B28	MIL-STD-461 Version F Method CS101
12/B29	MIL-STD-461 Version F Method CS103
12/B30	MIL-STD-461 Version F Method CS104
12/B31	MIL-STD-461 Version F Method CS105
12/B32	MIL-STD-461 Version F Method CS106
12/B33	MIL-STD-461 Version F Method CS109
12/B34	MIL-STD-461 Version F Method CS114
12/B35	MIL-STD-461 Version F Method CS115
12/B36	MIL-STD-461 Version F Method CS116

MIL-STD-462 : Radiated Emissions

12/D01	MIL-STD-462 Method RE01
12/D02	MIL-STD-462 Method RE02
12/D03	MIL-STD-462 Method RE03
12/D04	MIL-STD-462 Version D Method RE101
12/D05	MIL-STD-462 Version D Method RE102
12/D06	MIL-STD-462 Version D Method RE103
12/D07	MIL-STD-461 Version E Method RE101

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NVLAP LAB CODE 100278-0

NVLAP Code	*Designation / Description*
12/D08	MIL-STD-461 Version E Method RE102
12/D09	MIL-STD-461 Version E Method RE103
12/D10	MIL-STD-461 Version F Method RE101
12/D11	MIL-STD-461 Version F Method RE102
12/D12	MIL-STD-461 Version F Method RE103

MIL-STD-462 : Radiated Susceptibility

12/E01	MIL-STD-462 Method RS01
12/E02	MIL-STD-462 Method RS02
12/E04	MIL-STD-462 Method RS03 employing RADHAZ procedures for high level testing (Consult laboratory for field strengths available)
12/E05	MIL-STD-462 Method RS05
12/E07	MIL-STD-462 Method RS06
12/E08	MIL-STD-462 Version D Method RS101
12/E09	MIL-STD-462 Version D Method RS103
12/E10	MIL-STD-462 Version D Method RS105
12/E11	MIL-STD-461 Version E Method RS101
12/E12	MIL-STD-461 Version E Method RS103
12/E13	MIL-STD-461 Version E Method RS105
12/E15	MIL-STD-461 Version F Method RS101

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NVLAP LAB CODE 100278-0

NVLAP Code	*Designation / Description*
12/E16	MIL-STD-461 Version F Method RS103

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United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 100278-0

Elite Electronic Engineering Inc.

Downers Grove, IL

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

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DEPARTMENT OF COMMERCE ★ UNITED STATES OF AMERICA ★

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NVLAP-01C (REV. 2009-01-28)