



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificato di Accreditamento

Perry Johnson Laboratory Accreditation, Inc., ha valutato il Laboratorio :

Radiomotive S.r.l.

Via Tevere 63, 22073 Fino Mornasco (CO), Italy

e dichiara che tale Laboratorio è accreditato in conformità alle prescrizioni della norma internazionale:

ISO/IEC 17025:2017

L'accreditamento comporta la verifica della competenza tecnica del Laboratorio relativamente alle prove accreditate e del suo sistema di gestione per la qualità (come previsto dal comunicato ufficiale di ISO-ILAC-IAF del aprile 2017):

Prove Elettriche
(come specificato in allegato)

Le prove e/o tarature devono essere eseguite esclusivamente presso l'indirizzo del Laboratorio sopra riportato. Il presente Accreditamento è assegnato in conformità alle regole che lo governano, e il Laboratorio conviene con le regole che l'ente di Accreditamento ha l'obbligo di rispettare.

Per PJLA:

Tracy Szerszen
Presidente / Operations Manager

Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

<i>Data di Accreditamento Iniziale:</i>	<i>Data di Emissione:</i>	<i>Data di Scadenza</i>
18 febbraio 2018	21 aprile 2020	30 aprile 2022

<i>N. di Accreditamento:</i>	<i>N. di Certificato:</i>
97933	L20-251

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: www.pjilabs.com



Certificate of Accreditation: Supplement

Radiomotive S.r.l.

Via Tevere 63, 22073 Fino Mornasco (CO), Italy
Contact Name: Vincenzo La Fragola Phone: +366 1533470

Accreditation is granted to the facility to perform the following testing:

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT
Electromagnetic Compatibility ^F	Computers and Peripherals Domestic Appliances: Electrical Electrical/Electronic Products and Control Electro-Mechanical Devices IT Equipment Measuring Equipment Medical ELECTRICAL Equipment Office Equipment: Electrical Radio and TV Equipment Security Equipment Telecommunications Equipment Luminaires Professional equipment: Electric/electronic Apparatus for railway applications Components of fire, intruder, hold up, CCTV, access control and social alarm systems Maritime Navigation and Radio Communication Equipment, Radio equipment Lifts, escalators and moving walks	EMC / EMC tests: Radio interference emission / Conducted emissions; LISN Method and Annex B method in place of radiated emissions	EN 55016-1-2 CISPR 16-1-2 EN 55011 CISPR 11 EN 55014-1 CISPR 14-1 EN 55015 CISPR 15 EN 55022 CISPR 22 EN 55032 CISPR 32 EN 61000-6-3 IEC 61000-6-3 EN 61000-6-4 IEC 61000-6-4 EN 61326-1 EN 61326-2-2 EN 61326-2-3 EN 60601-1-2 IEC 60601-1-2 EN 50121-3-2 EN 50121-4 EN 60730-1, §23 (EMC-Emission) IEC 60730-1, §23 (EMC-Emission) EN 12015 EN 60945 IEC 60945 EN 16361 EN 50428 EN 50491-5-1 EN 50491-5-2 EN 50491-5-3 EN 61204-3 EN 62040-2 ETSI EN 301489-1 ETSI EN 301489-3 ETSI EN 301489-4 ETSI EN 301489-9 ETSI EN 301489-17 ETSI EN 301489-19 ETSI EN 301489-50 ETSI EN 301489-52 ETSI EN 301489-53 ESTI EN 301-489-33	9 kHz to 30 MHz



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	IT Equipment Measuring Equipment Medical ELECTRICAL Equipment Office Equipment: Electrical Radio and TV Equipment Security Equipment Telecommunications Equipment Luminaires Professional equipment: Electric/electronic Apparatus for railway applications Components of fire, intruder, hold up, CCTV, access control and social alarm systems Maritime Navigation and Radio Communication Equipment, Radio equipment Lifts, escalators and moving walks	EMC / EMC tests: Emission of harmonic currents Mains Harmonic emissions	EN 61000-3-2 EN 61000-3-12	50 Hz to 2 000 Hz



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		EMC / EMC tests: Emission of voltage fluctuations / flicker Mains / voltage fluctuations emission	EN 61000-3-3 EN 61000-3-11	220 Vac to 240 Vac 50 Hz to 60 Hz Single phase; 380 V to 400 V Three phases, 50 Hz to 60 Hz



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Electromagnetic Compatibility ^F	Computers and Peripherals Domestic Appliances: Electrical Electrical/Electronic Products and Control Electro-Mechanical Devices IT Equipment Measuring Equipment Medical	EMC / EMC tests: Immunity to conducted disturbances Conducted RF Immunity	ETSI 301 489-33 EN 12405-1 Annex A EN 45501 Annex B.3 OIML R 46 -1 § 6.4 OIML R 46 -2 § 6.3 OIML R 49 -1 Annex A OIML R 49 -2 § 8 OIML R 50 -1 § 3.7 OIML R 50 -2 § 7.3 OIML R 51 -1 Annex A.6.3 OIML R 51 -2 § 9 OIML R 76 -1 Annex B.3 OIML R 76 -2 § 12 OIML R 137 -1/-2 Annex A.7	30 V (rms) 150 kHz to 80 MHz
	ELECTRICAL Equipment Office Equipment: Electrical Radio and TV Equipment Security Equipment Telecommunications Equipment Luminaires Professional equipment: Electric/electronic Apparatus for railway applications Components of fire, intruder, hold up, CCTV, access control and social alarm systems Maritime Navigation and Radio Communication Equipment, Radio equipment Lifts, escalators and moving walks	EMC / EMC tests: Immunity to irradiated disorders / Radiated RF immunity	EN 12016 EN 61000-4-3 IEC 61000-4-3 EN 55014-2 CISPR 14-2 EN 61547 IEC 61547 EN 55024 CISPR 24 EN 55035 CISPR 35 EN 50130-4 EN 60945 IEC 60945 EN 61326-1 EN 61326-2-2 EN 61326-2-3 EN 60601-1-2 IEC 60601-1-2 EN 50121-3-2 EN 50121-4 EN 60730-1, §26 (EMC-Immunity) IEC 60730-1, §26 (EMC-Immunity) EN 16361 EN 50428 EN 50491-5-1 EN 50491-5-2 EN 50491-5-3 EN 61204-3	80 MHz to 6 GHz Amplitude Modulation/Pulse Modulation Maximum Immunity: D.L. = 30 V/m



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		Prove EMC / EMC tests: Immunità ai disturbi condotti Conducted RF Immunity	ETSI EN 301489-1 ETSI EN 301489-3 ETSI EN 301489-4 ETSI EN 301489-9 ETSI EN 301489-17 ETSI EN 301489-19 ETSI EN 301489-50 ETSI EN 301489-52 ETSI EN 301489-53 ETSI EN 303 446-1 ETSI EN 303 446-2	
		EMC / EMC tests: Immunity to transients / rapid trains Immunity to Fast Transients / Bursts	EN 12016 EN 61000-4-4 IEC 61000-4-4 EN 55014-2 CISPR 14-2 EN 61547 IEC 61547 EN 55024 CISPR 24 EN 55035 CISPR 35 EN 50130-4 EN 60945 IEC 60945 EN 61326-1 EN 61326-2-2 EN 61326-2-3 EN 60601-1-2 IEC 60601-1-2 EN 50121-3-2 EN 50121-4 EN 60730-1, §26 (EMC-Immunity) IEC 60730-1, §26 (EMC-Immunity)	5.5 kV 5 ns to 50 ns 5 kHz to 100 kHz



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		EMC / EMC tests: High energy impulse immunity (Surge) / Immunity to Surge	EN 61000-4-5 IEC 61000-4-5 EN 55014-2 CISPR 14-2 EN 61547 IEC 61547 EN 55024 CISPR 24 EN 55035 CISPR 35 EN 50130-4 EN 60945	5 kV 1.2/50 (8/20) μs



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Electromagnetic Compatibility ^F	Computers and Peripherals Domestic Appliances: Electrical Electrical/Electronic Products and Control Electro-Mechanical Devices IT Equipment Measuring Equipment Medical ELECTRICAL Equipment Office Equipment: Electrical Radio and TV Equipment Security Equipment Telecommunications Equipment Luminaires Professional equipment: Electric/electronic Apparatus for railway applications Components of fire, intruder, hold up, CCTV, access control and social alarm systems Maritime Navigation and Radio Communication Equipment, Radio equipment Lifts, escalators and moving walks	Prove EMC / EMC tests: Immunità ai campi magnetici impulsivi/ Impulse magnetic field immunity test	EN 61000-4-9 IEC 61000-4-9 EN 55014-2 CISPR 14-2 EN 61547 IEC 61547 EN 55024 CISPR 24 EN 55035 CISPR 35 EN 50130-4 EN 60945 IEC 60945 EN 61326-1 EN 61326-2-2 EN 61326-2-3 EN 60601-1-2 IEC 60601-1-2 EN 50121-3-2 EN 50121-4 EN 60730-1, §26 (EMC-Immunity) IEC 60730-1, §26 (EMC-Immunity) EN 16361 EN 50428 EN 50428 EN 50491-5-1 EN 50491-5-2 EN 50491-5-3 EN 61204-3 EN 62040-2 ETSI EN 301489-1 ETSI EN 301489-3 ETSI EN 301489-4 ETSI EN 301489-9 ETSI EN 301489-17 ETSI EN 301489-19 ETSI EN 301489-50 ETSI EN 301489-52 ETSI EN 301489-53 ETSI EN 303 446-1 ETSI EN 303 446-2 ETSI 301 489-33 EN 12405-1 Annex A	8/20 μs 300 A/m



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FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT
Electromagnetic Compatibility ^F	Computers and Peripherals Domestic Appliances: Electrical Electrical/Electronic Products and Control Electro-Mechanical Devices IT Equipment Measuring Equipment Medical ELECTRICAL Equipment Office Equipment: Electrical Radio and TV Equipment Security Equipment Telecommunications Equipment Luminaires Professional equipment: Electric/electronic Apparatus for railway applications Components of fire, intruder, hold up, CCTV, access control and social alarm systems Maritime Navigation and Radio Communication Equipment, Radio equipment Lifts, escalators and moving walks	Prove EMC / EMC tests: Immunità ai campi magnetici impulsivi/ Impulse magnetic field immunity test	EN 45501 Annex B.3 OIML R 46 -1 § 6.4 OIML R 46 -2 § 6.3 OIML R 49 -1 Annex A OIML R 49 -2 § 8 OIML R 50 -1 § 3.7 OIML R 50 -2 § 7.3 OIML R 51 -1 Annex A.6.3 OIML R 51 -2 § 9 OIML R 76 -1 Annex B.3 OIML R 76 -2 § 12 OIML R 137 -1/-2 Annex A.	8/20 µs 300 A/m
		EMC / EMC tests: Immunity to magnetic fields at network frequency	EN 12016 EN 61000-4-8 IEC 61000-4-8 EN 55014-2 CISPR 14-2 EN 61547 IEC 61547 EN 55024 CISPR 24 EN 55035 CISPR 35 EN 50130-4 EN 60945 IEC 60945 EN 61326-1 EN 61326-2-2 EN 61326-2-3 EN 60601-1-2 IEC 60601-1-2 EN 50121-3-2 EN 50121-4 EN 60730-1, §26 (EMC-Immunity) IEC 60730-1, §26 (EMC-Immunity) EN 16361 EN 50428 EN 50491-5-1 EN 50491-5-2 EN 50491-5-3 EN 61204-3	50 Hz to 60 Hz 0 A/m to 100 A/m



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Electromagnetic Compatibility ^F	Computers and Peripherals Domestic Appliances: Electrical Electrical/Electronic Products and Control Electro-Mechanical Devices IT Equipment Measuring Equipment Medical ELECTRICAL Equipment Office Equipment: Electrical Radio and TV Equipment Security Equipment Telecommunications Equipment Luminaires Professional equipment: Electric/electronic Apparatus for railway applications Components of fire, intruder, hold up, CCTV, access control and social alarm systems Maritime Navigation and Radio Communication Equipment, Radio equipment Lifts, escalators and moving walks		EN 62040-2 ETSI EN 301489-1 ETSI EN 301489-3 ETSI EN 301489-4 ETSI EN 301489-9 ETSI EN 301489-17 ETSI EN 301489-19 ETSI EN 301489-50 ETSI EN 301489-52 ETSI EN 301489-53 ETSI EN 303 446-1 ETSI EN 303 446-2 ETSI 301 489-33 EN 12405-1 Annex A EN 45501 Annex B.3 OIML R 46 -1 § 6.4 OIML R 46 -2 § 6.3 OIML R 49 -1 Annex A OIML R 49 -2 § 8 OIML R 50 -1 § 3.7 OIML R 50 -2 § 7.3 OIML R 51 -1 Annex A.6.3 OIML R 51 -2 § 9 OIML R 76 -1 Annex B.3 OIML R 76 -2 § 12 OIML R 137 -1/-2 Annex A.	
		EMC tests / EMC tests: Proof of immunity to common mode conducted disturbances in the frequency range	EN 61000-4-16 IEC 61000-4-16 EN 60335-1, § 19.11.4.9 EN 60945 IEC 60945 EN 61326-1 EN 61326-2-2 EN 61326-2-3 EN 60601-1-2 IEC 60601-1-2 EN 50121-3-2 EN 50121-4 EN 60730-1, §26 (EMC-Immunity) IEC 60730-1, §26 (EMC-Immunity)	30 V 0 kHz to 150 kHz



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Electromagnetic Compatibility ^F	Electrical and electronic devices for vehicle application / electrical and electronic applications for vehicular	EMC / EMC tests: Conducted emissions: Voltage measurements Test method	CISPR 25 (2008); UNECE R10 Rev. 5: 2014	9 kHz to 30 MHz
		EMC / EMC tests: Radiated emissions: ALSE (Absorber-lined shielded enclosure) Test method	CISPR 25; UNECE R10 EN 15194 Annex C	150 kHz to 18 GHz
		EMC / EMC tests: Immunity to RF conducted disturbance: Harness excitation methods	ISO 11452-1 ISO 11452-4 Reg. UNECE R10 EN 15194 Annex C	0 mA to 300 mA 1 MHz to 400 MHz
		EMC / EMC tests: Immunity to Electrical disturbances: Conducted and coupled method	ISO 7637-1 ISO 7637-2 ISO 7637-3 Reg. UNECE R10	Pulse 1 Pulse 2a/2b Pulse 3a/3b Pulse 4
Electromagnetic Compatibility ^F	Electrical and electronic devices for vehicle application / electrical and electronic applications for vehicular	EMC / EMC tests: Immunity to RF radiated disturbance: ALSE (Absorber-lined shielded enclosure) Test methods	ISO 11452-1 ISO 11452-2 Reg. UNECE R10 EN 15194 Annex C	80 GHz to 6 GHz Amplitude Modulation/ Pulse Modulation D.L. = 30 V/m



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FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT
Effective use of Radio Spectrum ^F	Radio equipment : Short Range Devices Wideband transmission Systems Cellular terminals	Radio tests : Conducted powe: Spectrum analyzer method Power meter method	ETSI EN 300 220-2 ETSI EN 300 220-3-1 ETSI EN 300 220-3-2 ETSI EN 300 220-4 ETSI EN 300 328 ETSI EN 300 330 ETSI EN 300 440 ETSI EN 301 511 ETSI EN 301 893 ETSI EN 301 908-1 ETSI EN 301 908-2 ETSI EN 301 908-3 ETSI EN 300 328 ETSI EN 300 330 ETSI EN 300 440 ETSI EN 301 511 ETSI EN 301 893 ETSI EN 301 908-1 ETSI EN 301 908-2 ETSI EN 301 908-3 ETSI EN 301 908-13 ETSI EN 303 417 ETSI EN 302 296 ETSI EN 302 217-2	9 kHz to 40 GHz
		Radio tests : Radiated power: Anechoic chamber + Spectrum analyzer method	EN 55016-1-4 CISPR 16-1-4 ETSI EN 300 220-2 ETSI EN 300 220-3-1 ETSI EN 300 220-3-2 ETSI EN 300 220-4	



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FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT
Effective use of Radio Spectrum ^F	Radio equipment : Short Range Devices Wideband transmission Systems Cellular terminals	Radio tests : Frequency Spectrum analyzer method measurements:	ETSI EN 300 220-2 ETSI EN 300 220-3-1 ETSI EN 300 220-3-2 ETSI EN 300 220-4 ETSI EN 300 328 ETSI EN 300 330 ETSI EN 300 440 ETSI EN 301 511 ETSI EN 301 893 ETSI EN 301 908-1 ETSI EN 301 908-2 ETSI EN 301 908-3 ETSI EN 303 413 ETSI EN 301 908-13 ETSI EN 303 417 ETSI EN 302 296 ETSI EN 302 217-2	9 kHz to 40 GHz
		Radio tests : Sensitivity measurements: Spectrum analyzer method	ETSI EN 300 220-2 ETSI EN 300 220-3-1 ETSI EN 300 220-3-2 ETSI EN 300 220-4 ETSI EN 300 328 ETSI EN 300 330 ETSI EN 300 440 ETSI EN 301 511 ETSI EN 301 893 ETSI EN 301 908-1 ETSI EN 301 908-2 ETSI EN 301 908-3 ETSI EN 303 413 ETSI EN 301 908-13 ETSI EN 303 417	
		Radio tests : Time measurements: Spectrum analyzer method	ETSI EN 300 220-2 ETSI EN 300 220-3-1 ETSI EN 300 220-3-2 ETSI EN 300 220-4 ETSI EN 300 328 ETSI EN 300 330 ETSI EN 300 440 ETSI EN 301 511 ETSI EN 301 893 ETSI EN 301 908-1 ETSI EN 301 908-2 ETSI EN 301 908-3 ETSI EN 301 908-13 ETSI EN 303 417	



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Accreditation is granted to the facility to perform the following testing:

1. The presence of a superscript F means that the laboratory performs testing of the indicated parameter at its fixed location. Example: Outside Micrometer^F would mean that the laboratory performs this testing at its fixed location.

