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CERTIFICATE OF ACCREDITATION

This is to attest

PRECISION MACHINERY RESEARCH & DEVELOPMENT CENTER INTELLIGENT ELECTROMECHANICAL TESTING LABORATORY

NO. 27, GONGYEQU 37TH RD, XITUN DISTRICT
TAICHUNG, 407, TAIWAN

Testing Laboratory TL-1434

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date May 8, 2026



International Accreditation Service

Issued under the authority of IAS management

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SCOPE OF ACCREDITATION

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PRECISION MACHINERY RESEARCH & DEVELOPMENT CENTER INTELLIGENT ELECTROMECHANICAL TESTING LABORATORY

<https://www.pmc.org.tw/>

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Accredited to ISO/IEC 17025:2017

Effective Date May 8, 2026

FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
EMC	Electronic device	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current \leq 16 A per phase)	IEC 61000-3-2 EN 61000-3-2 BS EN IEC 61000-3-2 AS/NZS 61000.3.2
		Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current \leq 16 A per phase and not subject to conditional connection	IEC 61000-3-3 EN 61000-3-3 BS EN 61000-3-3
		Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	IEC 61000-4-2 EN 61000-4-2 BS EN 61000-4-2 AS/NZS 61000.4.2
		Electromagnetic compatibility (EMC) - Part 4-3 : Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	IEC 61000-4-3 EN 61000-4-3 BS EN IEC 61000-4-3 AS/NZS 61000.4.3
		Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast	IEC 61000-4-4 EN 61000-4-4 BS EN 61000-4-4 AS/NZS 61000.4.4

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
EMC (cont'd.)	Electronic device (cont'd.)	transient/burst immunity test	
		Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	IEC 61000-4-5 EN 61000-4-5 BS EN 61000-4-5 AS/NZS 61000.4.5
		Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	IEC 61000-4-6 EN 61000-4-6 BS EN IEC 61000-4-6 AS/NZS 61000.4.6
		Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test	IEC 61000-4-8 EN 61000-4-8 BS EN 61000-4-8 AS/NZS 61000.4.8
		Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current up to 16 A per phase	IEC 61000-4-11 EN 61000-4-11 BS EN IEC 61000-4-11 AS/NZS 61000.4.11
		FCC METHODS OF MEASUREMENTS OF RADIO NOISE EMISSIONS FROM INDUSTRIAL, SCIENTIFIC, AND MEDICAL EQUIPMENT	FCC MP-5 (1986)
		American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	ANSI C63.4 (2014)
	Wheelchairs	Wheelchairs - Part 21: Requirements and test methods for	ISO 7176-21

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
Electronic device (cont'd)	Wheelchairs (cont'd)	electromagnetic compatibility of electrically powered wheelchairs and scooters, and battery changers	
		American National Standard for Wheelchairs – Volume 2: Additional Requirements for Wheelchairs (including Scooters) with Electrical Systems - Section 21: Requirements and test methods for electromagnetic compatibility of electrically powered wheelchairs and scooters, and battery	ANSI RESNA WC-2 SEC 21
	Vehicles	Uniform provisions concerning the approval of vehicles with regard to electromagnetic compatibility	UN ECE R10
	Cycles	Cycles - Electrically power assisted cycles - EPAC Bicycles	EN 15194 BS EN 15194
	Industrial, scientific and medical equipment	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement	CISPR 11 EN IEC 55011 BS EN IEC 55011 AS/NZS CISPR 11
	multimedia equipment	Electromagnetic compatibility of multimedia equipment - Emission requirements	CISPR 32 EN 55032 BS EN 55032 AS/NZS CISPR32
		Electromagnetic compatibility of multimedia equipment - Immunity requirements	CISPR 35 EN 55035 BS EN 55035 AS/NZS CISPR35
	Unintentional Radiators	FCC Part 15 Subpart B - Unintentional Radiators	47 CFR FCC Part 15 Subpart B
Industrial, Scientific, and Medical Equipment	FCC Part 18 Industrial, Scientific, and Medical Equipment (ISM Equipment)	47 CFR FCC Part 18	

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
Electronic device (cont'd)	Test Site requirements	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz Amendment 1: Test Site Validation	ANSI C63.4a (2017)
	Industrial, Scientific, and Medical Equipment	ICES-001 — Industrial, Scientific and Medical (ISM) Equipment	ICES-001
	Information Technology Equipment	ICES-003 — Information Technology Equipment (including Digital Apparatus)	ICES-003
	Medical electrical equipment	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral Standard: Electromagnetic disturbances - Requirements and tests (Exclusion: 8.11)	IEC 60601-1-2 EN 60601-1-2 BS EN 60601-1-2
	Machine tools	Electromagnetic compatibility (EMC) - Product family standard for machine tools - Part 1: Emission	EN 50370-1 BS EN 50370-1
		Electromagnetic compatibility (EMC) - Product family standard for machine tools - Part 2: Immunity	EN 50370-2 BS EN 50370-2
	Vehicles Component	Road vehicles — Component test methods for electrical disturbances from narrowband radiated electromagnetic energy	ISO 11452-4 BS ISO 11452-4
	Electrical equipment for measurement, control and laboratory use	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements (Exclusion: IEC 61000-3-11 and IEC 61000-3-12)	IEC 61326-1 EN 61326-1 BS EN IEC 61326-1

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Electronic device (cont'd)	Electrical equipment for measurement, control and laboratory use (cont'd)	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD) medical electrical equipment	IEC 61326-2-6 EN 61326-2-6 BS EN IEC 61326-2-6
	Household appliances, electric tools and similar apparatus	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission	CISPR 14-1 EN 55014-1 BS EN IEC 55014-1 AS/NZS CISPR 14.1
		Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard	CISPR 14-2 EN 55014-2 BS EN IEC 55014-2 AS/NZS CISPR 14.2
	Adjustable speed electrical power drive systems	Adjustable speed electrical power drive systems - Part 3: EMC requirements and specific test methods for PDS and machine tools (Exclusion: IEC 61000-2-2, IEC 61000-3-11, and IEC 61000-3-12)	IEC 61800-3 EN 61800-3 BS EN IEC 61800-3
	Residential, commercial and light-industrial environments	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity standard for residential, commercial and light-industrial environments	IEC 61000-6-1 EN 61000-6-1 BS EN IEC 61000-6-1 AS/NZS 61000.6.1
	Industrial environments	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments	IEC 61000-6-2 EN 61000-6-2 BS EN IEC 61000-6-2 AS/NZS 61000.6.2
	Residential, commercial and light-industrial environments	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for	IEC61000-6-3 EN 61000-6-3 BS EN IEC 61000-6-3 AS/NZS 61000.6.3

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Electronic device (cont'd)		equipment in residential environments	
	Industrial environments	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments	IEC 61000-6-4 EN 61000-6-4 BS EN IEC 61000-6-4 AS/NZS 61000.6.4
	Radio equipment and services	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard for ElectroMagnetic Compatibility (Exclusion: ISO 7637-2, IEC 61000-3-11, IEC 61000-3-12, IEC 61000-4-34 tests)	ETSI EN 301 489-1
		ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonised Standard for ElectroMagnetic Compatibility	ETSI EN 301 489-17
Safety	Electrically powered wheelchairs, scooters and their chargers	Electrically powered wheelchairs, scooters and their chargers - Requirements and test methods NOTE: 1. The clauses 8.1.5 (Dynamic stability) and 8.1.7 (Static stability) tests are conducted at CAB's another site, NO.17, GONGYEQU 37th ROAD, XITUN DISTRICT, TAICHUNG CITY. 2. The clauses 8.1.9 (Distance range) and 8.2 (Static, impact and fatigue	EN 12184 BS EN 12184

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Safety (cont'd)	Electrically powered wheelchairs, scooters and their chargers (cont'd)	strength) tests are conducted at CAB's another site, NO. 225, YUANPEI STREET, XIANGSHAN DISTRICT, HSINCHU CITY.	EN 12184 BS EN 12184 (cont'd)
	Wheelchairs	Wheelchairs - Part 14: Power and control systems for electrically powered wheelchairs and scooters – Requirements and test methods NOTE: The clause 7 (Single fault safety) tests are conducted at CAB's another site, NO. 17, GONGYEQU 37th ROAD, XITUN DISTRICT, TAICHUNG CITY.	ISO 7176-14
		Wheelchairs – Part 25: Lead-acid batteries and changers for powered wheelchairs – Requirements and test method	ISO 7176-25
		Wheelchairs – Part 31: Lithium-ion battery systems and changers for powered wheelchairs – Requirements and test method	ISO 7176-31
	Power and control systems for electrically powered wheelchairs, scooters and add-on devices	American National Standard for Wheelchairs – Volume 2: Additional Requirements for Wheelchairs (including Scooters) with Electrical Systems - Section 14: Power and control systems for electrically powered wheelchairs, scooters and add-on devices – Requirements and test methods	ANSI RESNA WC-2 SEC 14

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Safety (cont'd)	Light motorized vehicles for the transportation of persons and goods and related facilities and not subject to type-approval for on-road use	Light motorized vehicles for the transportation of persons and goods and related facilities and not subject to type-approval for on-road use - Personal light electric vehicles (PLEV) - Requirements and test methods	EN 17128 BS EN 17128	
	Rotating electrical machines	Rotating electrical machines - Part 1: Rating and performance	EN 60034-1 IEC 60034-1 BS EN 60034-1	
	Machinery - Electrical equipment of machines	Safety of machinery - Electrical equipment of machines - Part 1: General requirements	IEC 60204-1 EN 60204-1 BS EN 60204-1	
	Medical electrical equipment		Medical electrical equipment - Part 2-18: Particular requirements for the basic safety and essential performance of endoscopic equipment	IEC 60601-2-18 EN 60601-2-18 BS EN 60601-2-18
			Medical electrical equipment - Part 2-46: Particular requirements for the basic safety and essential performance of operating tables	IEC 60601-2-46 EN IEC 60601-2-46 BS EN IEC 60601-2-46
			Medical electrical equipment Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment	ISO 80601-2-61 EN ISO 80601-2-61 BS EN ISO 80601-2-61
			Medical electrical equipment - Part 2-47: Particular requirements for the basic safety and essential performance of ambulatory electrocardiographic systems (Exclusion: Algorithm testing)	IEC 60601-2-47 EN 60601-2-47 BS EN 60601-2-47
			Medical electrical equipment - Part 1-11: General requirements for	IEC 60601-1-11 EN 60601-1-11 BS EN 60601-1-11

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Safety (cont'd)	Medical electrical equipment (cont'd)	basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment	IEC 60601-1-11 EN 60601-1-11 BS EN 60601-1-11 (cont'd)
		Medical electrical equipment - Part 2-10: Particular requirements for the basic safety and essential performance of nerve and muscle stimulators	IEC 60601-2-10 EN 60601-2-10 BS EN 60601-2-10
		Medical electrical equipment Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement (Exclusion: Clinical Accuracy Validation)	ISO 80601-2-56 EN ISO 80601-2-56 BS EN ISO 80601-2-56
		Medical electrical equipment Part 2-52: Particular requirements for the basic safety and essential performance of medical beds	IEC 60601-2-52 EN 60601-2-52 BS EN 60601-2-52
		Medical electrical equipment - Part 1: General requirements for basic safety and essential performance (Exclusions: CF AP and APG)	IEC 60601-1 EN 60601-1 BS EN 60601-1 ANSI/AAMI ES 60601-1
	In vitro diagnostic test systems	In vitro diagnostic test systems — Requirements for blood-glucose monitoring systems for self-testing in managing diabetes mellitus (Exclusion: User performance evaluation)	ISO 15197 EN ISO 15197 BS EN ISO 15197
	Electrical equipment for measurement,	Safety requirements for electrical equipment for	IEC 61010-2-030 EN 61010-2-030

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Safety (cont'd)	control, and laboratory use	measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	BS EN IEC 61010-2-030
		Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-010: Particular requirements for laboratory equipment for the heating of materials	IEC 61010-2-010 EN 61010-2-010 BS EN IEC 61010-2-010
		Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	IEC 61010-2-081 EN 61010-2-081 BS EN IEC 61010-2-081
		Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	IEC 61010-2-101 EN 61010-2-101 BS EN IEC 61010-2-101
		Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	IEC 61010-1 EN 61010-1 BS EN 61010-1
	Adjustable speed electrical power drive systems	Adjustable speed electrical power drive systems - Part 5-1: Safety requirements - Electrical, thermal and energy	IEC 61800-5-1 EN 61800-5-1 BS EN IEC 61800-5-1
Other	Internal combustion engines or electric drive trains	Internal combustion engines or electric drive trains intended for the propulsion of motor vehicles of categories m and n with regard to the measurement of the net power and the maximum	UN ECE R85

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Other (cont'd.)		30 minutes power of electric drive trains	
	Semiconductor Processing Equipment	Specification for Semiconductor Processing Equipment Voltage Sag Immunity	SEMI-F47
		Safety guideline for the Electrical design of Semiconductor manufacturing Equipment	SEMI-S22
	ECG	Disposable ECG electrodes	ANSI/AAMI EC12
	Medical device software	Medical device software - Software life cycle processes	IEC 62304 EN 62304