



財團法人全國認證基金會  
Taiwan Accreditation Foundation

## Certification Accreditation

(Certificate No : L2035-220902)

This is to certify that

**Jim-E Technology Corporation**

**Calibration Laboratory**

4F-11, No. 36, Tai Yuan Street, Jubei City, Hsinchu, Taiwan (R.O.C.)

**is accredited in respect of laboratory**

**Accreditation Criteria** : ISO/IEC 17025:2017 ; CNS 17025:2018

**Accreditation Number** : 2035

**Originally Accredited** : October 07, 2008

**Effective Period** : October 07, 2020 to October 06, 2023

**Accredited Scope** : Calibration Field, see described in the Appendix



Scan to verify

*Ching-Chang Lien*

Ching-Chang Lien  
President, Taiwan Accreditation Foundation  
September 02, 2022

Accreditation Number : 2035

Laboratory Head : RONG, Johnney

## Electricity

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
			brand /model	document name /no.	minimum value	units		maximum value	units
KF1001 DC Voltage Source (on-site calibration included) DC Voltage Meter (on-site calibration included)	Multi-Function Calibrator /FLUKE 5700A Multimeter /Agilent 3458A	Document No.: QI-0111	0.1	V	0.1	V	DC Voltage Source	30	μV/V
		Document No.: QI-0112	1	V	1	V	DC Voltage Source	20	μV/V
		Document No.: QI-0131	10	V	10	V	DC Voltage Source	20	μV/V
		Document No.: QI-0132	100	V	100	V	DC Voltage Source	25	μV/V
		Document No.: QI-0011	1	kV	1	kV	DC Voltage Source	35	μV/V
		Document No.: QI-0012	0.1	V	0.1	V	DC Voltage Source (on-site)	55	μV/V
		Document No.: QI-0031	1	V	1	V	DC Voltage Source (on-site)	40	μV/V
		Document No.: QI-0032	10	V	10	V	DC Voltage Source (on-site)	40	μV/V
			100	V	100	V	DC Voltage Source (on-site)	45	μV/V
			1	kV	1	kV	DC Voltage Source (on-site)	55	μV/V
			0.1	V	0.1	V	DC Voltage Meter	45	μV/V
			1	V	1	V	DC Voltage Meter	30	μV/V
			10	V	10	V	DC Voltage Meter	30	μV/V
			100	V	100	V	DC Voltage Meter	35	μV/V
			1	kV	1	kV	DC Voltage Meter	45	μV/V
			0.1	V	0.1	V	DC Voltage Meter (on-site)	45	μV/V
			1	V	1	V	DC Voltage Meter (on-site)	30	μV/V
			10	V	10	V	DC Voltage Meter (on-site)	30	μV/V
			100	V	100	V	DC Voltage Meter (on-site)	35	μV/V

The Appendix forms an integral part of this Certificate, which shall be invalid when use without the Appendix

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calibration items	working standard brand /model	calibration method document name /no.	measurand level or range				measurement conditions /independent variable explanation	smallest uncertainty	
			minimum value	units	maximum value	units		value	units
KF1001 DC Voltage Source (on-site calibration included) DC Voltage Meter (on-site calibration included)	Multi-Function Calibrator /FLUKE 5700A Multimeter /Agilent 3458A	Document No.: QI-0111	1	kV	1	kV	DC Voltage Meter (on-site)	45	$\mu$ V/V
		Document No.: QI-0112	0.1	V	1	V	DC Voltage Source (range)	60	$\mu$ V/V
		Document No.: QI-0131	1	V	10	V	DC Voltage Source (range)	70	$\mu$ V/V
		Document No.: QI-0132	10	V	100	V	DC Voltage Source (range)	0.10	mV/V
		Document No.: QI-0011	100	V	1	kV	DC Voltage Source (range)	0.20	mV/V
		Document No.: QI-0012	0.1	V	1	V	DC Voltage Source (on-site) (range)	0.12	mV/V
		Document No.: QI-0031	1	V	10	V	DC Voltage Source (on-site) (range)	90	$\mu$ V/V
		Document No.: QI-0032	10	V	100	V	DC Voltage Source (on-site) (range)	0.12	mV/V
			100	V	1	kV	DC Voltage Source (on-site) (range)	0.22	mV/V
			0.1	V	1	V	DC Voltage Meter (range)	70	$\mu$ V/V
			1	V	10	V	DC Voltage Meter (range)	75	$\mu$ V/V
			10	V	100	V	DC Voltage Meter (range)	0.11	mV/V
			100	V	1	kV	DC Voltage Meter (range)	0.21	mV/V
			0.1	V	1	V	DC Voltage Meter (on-site) (range)	0.10	mV/V
			1	V	10	V	DC Voltage Meter (on-site) (range)	80	$\mu$ V/V
			10	V	100	V	DC Voltage Meter (on-site) (range)	0.11	mV/V
			100	V	1	kV	DC Voltage Meter (on-site) (range)	0.21	mV/V

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calibration items	working standard brand /model	calibration method document name /no.	measurand level or range				measurement conditions /independent variable explanation	smallest uncertainty	
			minimum value	units	maximum value	units		value	units
KF1002 DC Current Source (on-site calibration included) DC Current Meter (on-site calibration included)	Multi-Function Calibrator /FLUKE 5700A Multimeter /Agilent 3458A	Document No.: QI-0113	100	μA	100	μA	DC Current Source	70	μA/A
		Document No.: QI-0114	1	mA	1	mA	DC Current Source	70	μA/A
		Document No.: QI-0133	10	mA	10	mA	DC Current Source	70	μA/A
		Document No.: QI-0134	100	mA	100	mA	DC Current Source	0.10	mA/A
		Document No.: QI-0013	1	A	1	A	DC Current Source	0.25	mA/A
		Document No.: QI-0014	100	μA	100	μA	DC Current Source (on-site)	0.20	mA/A
		Document No.: QI-0033	1	mA	1	mA	DC Current Source (on-site)	0.15	mA/A
		Document No.: QI-0034	10	mA	10	mA	DC Current Source (on-site)	0.15	mA/A
			100	mA	100	mA	DC Current Source (on-site)	0.23	mA/A
			1	A	1	A	DC Current Source (on-site)	0.42	mA/A
			100	μA	100	μA	DC Current Meter	0.16	mA/A
			1	mA	1	mA	DC Current Meter	0.11	mA/A
			10	mA	10	mA	DC Current Meter	0.11	mA/A
			100	mA	100	mA	DC Current Meter	0.15	mA/A
			1	A	1	A	DC Current Meter	0.35	mA/A
			100	μA	100	μA	DC Current Meter (on-site)	0.16	mA/A
			1	mA	1	mA	DC Current Meter (on-site)	0.11	mA/A
			10	mA	10	mA	DC Current Meter (on-site)	0.11	mA/A
			100	mA	100	mA	DC Current Meter (on-site)	0.15	mA/A
			1	A	1	A	DC Current Meter (on-site)	0.35	mA/A
	10	μA	100	μA	DC Current Source (range)	0.11	mA/A		
	0.1	mA	1	mA	DC Current Source (range)	0.11	mA/A		
	1	mA	10	mA	DC Current Source (range)	80	μA/A		
	10	mA	100	mA	DC Current Source (range)	0.14	mA/A		

The Appendix forms an integral part of this Certificate, which shall be invalid when use without the Appendix

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calibration items	working standard brand /model	calibration method document name /no.	measurand level or range				measurement conditions /independent variable explanation	smallest uncertainty	
			minimum value	units	maximum value	units		value	units
KF1002 DC Current Source (on-site calibration included) DC Current Meter (on-site calibration included)	Multi-Function Calibrator /FLUKE 5700A Multimeter /Agilent 3458A	Document No.: QI-0113	0.1	A	1	A	DC Current Source (range)	0.21	mA/A
		Document No.: QI-0114	10	μA	100	μA	DC Current Source (on-site) (range)	0.23	mA/A
		Document No.: QI-0133	0.1	mA	1	mA	DC Current Source (on-site) (range)	0.16	mA/A
		Document No.: QI-0134	1	mA	10	mA	DC Current Source (on-site) (range)	0.15	mA/A
		Document No.: QI-0013	10	mA	100	mA	DC Current Source (on-site) (range)	0.24	mA/A
		Document No.: QI-0014	0.1	A	1	A	DC Current Source (on-site) (range)	0.44	mA/A
		Document No.: QI-0033	10	μA	100	μA	DC Current Meter (range)	0.19	mA/A
		Document No.: QI-0034	0.1	mA	1	mA	DC Current Meter (range)	0.14	mA/A
			1	mA	10	mA	DC Current Meter (range)	0.13	mA/A
			10	mA	100	mA	DC Current Meter (range)	0.20	mA/A
			0.1	A	1	A	DC Current Meter (range)	0.28	mA/A
			10	μA	100	μA	DC Current Meter (on-site) (range)	0.21	mA/A
			0.1	mA	1	mA	DC Current Meter (on-site) (range)	0.14	mA/A
			1	mA	10	mA	DC Current Meter (on-site) (range)	0.13	mA/A
			10	mA	100	mA	DC Current Meter (on-site) (range)	0.20	mA/A
			0.1	A	1	A	DC Current Meter (on-site) (range)	0.40	mA/A

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calibration items	working standard brand /model	calibration method document name /no.	measurand level or range				measurement conditions /independent variable explanation	smallest uncertainty	
			minimum value	units	maximum value	units		value	units
KF1011 AC Voltage Source (on-site calibration included) AC Voltage Meter (on-site calibration included)	Multi-Function Calibrator /FLUKE 5700A Multimeter /Agilent 3458A	Document No.: QI-0115	0.1	V	0.1	V	AC Voltage Source (1 kHz)	0.20	mV/V
		Document No.: QI-0116	1	V	1	V	AC Voltage Source (1 kHz)	0.13	mV/V
		Document No.: QI-0015	10	V	10	V	AC Voltage Source (1 kHz)	0.15	mV/V
		Document No.: QI-0016	100	V	100	V	AC Voltage Source (1 kHz)	0.30	mV/V
			700	V	700	V	AC Voltage Source (1 kHz)	0.40	mV/V
			0.1	V	0.1	V	AC Voltage Source (1 kHz) (on-site)	0.38	mV/V
			1	V	1	V	AC Voltage Source (1 kHz) (on-site)	0.28	mV/V
			10	V	10	V	AC Voltage Source (1 kHz) (on-site)	0.29	mV/V
			100	V	100	V	AC Voltage Source (1 kHz) (on-site)	0.48	mV/V
			700	V	700	V	AC Voltage Source (1 kHz) (on-site)	0.70	mV/V
			0.1	V	0.1	V	AC Voltage Meter (1 kHz)	0.30	mV/V
			1	V	1	V	AC Voltage Meter (1 kHz)	0.18	mV/V
			10	V	10	V	AC Voltage Meter (1 kHz)	0.20	mV/V
			100	V	100	V	AC Voltage Meter (1 kHz)	0.35	mV/V
			700	V	700	V	AC Voltage Meter (1 kHz)	0.45	mV/V
			0.1	V	0.1	V	AC Voltage Meter (1 kHz) (on-site)	0.30	mV/V
			1	V	1	V	AC Voltage Meter (1 kHz) (on-site)	0.18	mV/V
			10	V	10	V	AC Voltage Meter (1 kHz) (on-site)	0.20	mV/V
			100	V	100	V	AC Voltage Meter (1 kHz) (on-site)	0.35	mV/V
			700	V	700	V	AC Voltage Meter (1 kHz) (on-site)	0.45	mV/V
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calibration items	working standard brand /model	calibration method document name /no.	measurand level or range				measurement conditions /independent variable explanation	smallest uncertainty	
			minimum value	units	maximum value	units		value	units
KF1012 AC Current Source (on-site calibration included) AC Current Meter (on-site calibration included)	Multi-Function Calibrator /FLUKE 5700A Multimeter /Agilent 3458A	Document No.: QI-0117	1	mA	1	mA	AC Current Source (1 kHz)	0.60	mA/A
		Document No.: QI-0118	10	mA	10	mA	AC Current Source (1 kHz)	0.60	mA/A
		Document No.: QI-0017	100	mA	100	mA	AC Current Source (1 kHz)	0.60	mA/A
		Document No.: QI-0018	1	A	1	A	AC Current Source (1 kHz)	1.5	mA/A
			1	mA	1	mA	AC Current Source (1 kHz) (on-site)	0.90	mA/A
			10	mA	10	mA	AC Current Source (1 kHz) (on-site)	0.90	mA/A
			100	mA	100	mA	AC Current Source (1 kHz) (on-site)	0.90	mA/A
			1	A	1	A	AC Current Source (1 kHz) (on-site)	2.2	mA/A
			1	mA	1	mA	AC Current Meter (1 kHz)	0.65	mA/A
			10	mA	10	mA	AC Current Meter (1 kHz)	0.65	mA/A
			100	mA	100	mA	AC Current Meter (1 kHz)	0.65	mA/A
			1	A	1	A	AC Current Meter (1 kHz)	1.7	mA/A
			1	mA	1	mA	AC Current Meter (1 kHz) (on-site)	0.65	mA/A
			10	mA	10	mA	AC Current Meter (1 kHz) (on-site)	0.65	mA/A
			100	mA	100	mA	AC Current Meter (1 kHz) (on-site)	0.65	mA/A
			1	A	1	A	AC Current Meter (1 kHz) (on-site)	1.7	mA/A

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calibration items	working standard brand /model	calibration method document name /no.	measurand level or range				measurement conditions /independent variable explanation	smallest uncertainty	
			minimum value	units	maximum value	units		value	units
KF3001 Resister (on-site calibration included)	System 1 – Item (1) , (2) : Multi-Function Calibrator /FLUKE 5700A Multimeter /Agilent 3458A System 2 – Item (3) , (4) : Multimeter /Agilent 3458A Standard Resistor /YOKOGAW A 2792	(1) Document No.: QI-0019	1	$\Omega$	1	$\Omega$	(1) Resister	0.13	m $\Omega$ / $\Omega$
		(2) Document No.: QI-0119	10	$\Omega$	10	$\Omega$	(1) Resister	40	$\mu\Omega$ / $\Omega$
		(3) Document No.: QI-0073	100	$\Omega$	100	$\Omega$	(1) Resister	35	$\mu\Omega$ / $\Omega$
		(4) Document No.: QI-0173	1	k $\Omega$	1	k $\Omega$	(1) Resister	25	$\mu\Omega$ / $\Omega$
			10	k $\Omega$	10	k $\Omega$	(1) Resister	25	$\mu\Omega$ / $\Omega$
			100	k $\Omega$	100	k $\Omega$	(1) Resister	30	$\mu\Omega$ / $\Omega$
			1	M $\Omega$	1	M $\Omega$	(1) Resister	35	$\mu\Omega$ / $\Omega$
			10	M $\Omega$	10	M $\Omega$	(1) Resister	90	$\mu\Omega$ / $\Omega$
			1	$\Omega$	1	$\Omega$	(2) Resister (on-site)	0.20	m $\Omega$ / $\Omega$
			10	$\Omega$	10	$\Omega$	(2) Resister (on-site)	70	$\mu\Omega$ / $\Omega$
			100	$\Omega$	100	$\Omega$	(2) Resister (on-site)	60	$\mu\Omega$ / $\Omega$
			1	k $\Omega$	1	k $\Omega$	(2) Resister (on-site)	45	$\mu\Omega$ / $\Omega$
			10	k $\Omega$	10	k $\Omega$	(2) Resister (on-site)	45	$\mu\Omega$ / $\Omega$
			100	k $\Omega$	100	k $\Omega$	(2) Resister (on-site)	50	$\mu\Omega$ / $\Omega$
			1	M $\Omega$	1	M $\Omega$	(2) Resister (on-site)	60	$\mu\Omega$ / $\Omega$
			10	M $\Omega$	10	M $\Omega$	(2) Resister (on-site)	0.15	m $\Omega$ / $\Omega$
			0.1	$\Omega$	10	$\Omega$	(3) Resister	0.50	m $\Omega$ / $\Omega$
	0.1	$\Omega$	10	$\Omega$	(4) Resister (on-site)	1.1	m $\Omega$ / $\Omega$		

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calibration items	working standard brand /model	calibration method document name /no.	measurand level or range				measurement conditions /independent variable explanation	smallest uncertainty	
			minimum value	units	maximum value	units		value	units
KF3001 Ohm Meter (on-site calibration included)	System 1 – Item (1) , (2) : Multi-Function Calibrator /FLUKE 5700A Multimeter /Agilent 3458A System 2 – Item (3) , (4) : Multimeter /Agilent 3458A Standard Resistor /YOKOGAW A 2792	(1) Document No.: QI-0020	1	$\Omega$	1	$\Omega$	(1) Ohm Meter	0.16	m $\Omega$ / $\Omega$
		(2) Document No.: QI-0120	10	$\Omega$	10	$\Omega$	(1) Ohm Meter	60	$\mu\Omega$ / $\Omega$
		(3) Document No.: QI-0074	100	$\Omega$	100	$\Omega$	(1) Ohm Meter	50	$\mu\Omega$ / $\Omega$
		(4) Document No.: QI-0174	1	k $\Omega$	1	k $\Omega$	(1) Ohm Meter	40	$\mu\Omega$ / $\Omega$
			10	k $\Omega$	10	k $\Omega$	(1) Ohm Meter	40	$\mu\Omega$ / $\Omega$
			100	k $\Omega$	100	k $\Omega$	(1) Ohm Meter	40	$\mu\Omega$ / $\Omega$
			1	M $\Omega$	1	M $\Omega$	(1) Ohm Meter	50	$\mu\Omega$ / $\Omega$
			10	M $\Omega$	10	M $\Omega$	(1) Ohm Meter	0.12	m $\Omega$ / $\Omega$
			1	$\Omega$	1	$\Omega$	(2) Ohm Meter (on-site)	0.16	m $\Omega$ / $\Omega$
			10	$\Omega$	10	$\Omega$	(2) Ohm Meter (on-site)	60	$\mu\Omega$ / $\Omega$
			100	$\Omega$	100	$\Omega$	(2) Ohm Meter (on-site)	50	$\mu\Omega$ / $\Omega$
			1	k $\Omega$	1	k $\Omega$	(2) Ohm Meter (on-site)	40	$\mu\Omega$ / $\Omega$
			10	k $\Omega$	10	k $\Omega$	(2) Ohm Meter (on-site)	40	$\mu\Omega$ / $\Omega$
			100	k $\Omega$	100	k $\Omega$	(2) Ohm Meter (on-site)	40	$\mu\Omega$ / $\Omega$
			1	M $\Omega$	1	M $\Omega$	(2) Ohm Meter (on-site)	50	$\mu\Omega$ / $\Omega$
			10	M $\Omega$	10	M $\Omega$	(2) Ohm Meter (on-site)	0.12	m $\Omega$ / $\Omega$
					0.1	$\Omega$	10	$\Omega$	(3) Ohm Meter
			0.1	$\Omega$	10	$\Omega$	(4) Ohm Meter (on-site)	0.80	m $\Omega$ / $\Omega$

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calibration items	working standard brand /model	calibration method document name /no.	measurand level or range				measurement conditions /independent variable explanation	smallest uncertainty	
			minimum value	units	maximum value	units		value	units
KF3003 Capacitance meter (on-site calibration included) Capacitor (on-site calibration included)	LCR METER /HP 4284A STANDARD CAPACITOR /HP16380A STANDARD CAPACITOR /HP16380C	Document No: QI-0075 Document No: QI-0076 Document No: QI-0175 Document No: QI-0176	10	pF	10	pF	Capacitor (1 kHz)	0.75	mF/F
			100	pF	100	pF	Capacitor (1 kHz)	0.75	mF/F
			1000	pF	1000	pF	Capacitor (1 kHz)	0.45	mF/F
			0.01	μF	0.01	μF	Capacitor (1 kHz)	0.25	mF/F
			0.1	μF	0.1	μF	Capacitor (1 kHz)	0.26	mF/F
			1	μF	1	μF	Capacitor (1 kHz)	0.25	mF/F
			10	pF	10	pF	Capacitor (on-site) (1 kHz)	1.5	mF/F
			100	pF	100	pF	Capacitor (on-site) (1 kHz)	1.4	mF/F
			1000	pF	1000	pF	Capacitor (on-site) (1 kHz)	1.3	mF/F
			0.01	μF	0.01	μF	Capacitor (on-site) (1 kHz)	1.2	mF/F
			0.1	μF	0.1	μF	Capacitor (on-site) (1 kHz)	1.2	mF/F
			1	μF	1	μF	Capacitor (on-site) (1 kHz)	1.2	mF/F
			10	pF	10	pF	Capacitance meter (1 kHz)	1.5	mF/F
			100	pF	100	pF	Capacitance meter (1 kHz)	1.4	mF/F
			1000	pF	1000	pF	Capacitance meter (1 kHz)	1.3	mF/F
			0.01	μF	0.01	μF	Capacitance meter (1 kHz)	1.2	mF/F
			0.1	μF	0.1	μF	Capacitance meter (1 kHz)	1.2	mF/F
			1	μF	1	μF	Capacitance meter (1 kHz)	1.2	mF/F
			10	pF	10	pF	Capacitance meter (on-site) (1 kHz)	1.5	mF/F
			100	pF	100	pF	Capacitance meter (on-site) (1 kHz)	1.4	mF/F
1000	pF	1000	pF	Capacitance meter (on-site) (1 kHz)	1.3	mF/F			
0.01	μF	0.01	μF	Capacitance meter (on-site) (1 kHz)	1.2	mF/F			
0.1	μF	0.1	μF	Capacitance meter (on-site) (1 kHz)	1.2	mF/F			
1	μF	1	μF	Capacitance meter (on-site) (1 kHz)	1.2	mF/F			

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## Time And Frequency

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	minimum value	units	maximum value	units	explanation	value	units
KJ0200 Frequency standard and frequency signal source (on-site calibration included)	Rubidium Standard /FEI FE-5680A	Document No.: QI-0311 Document No.: QI-0312 Document No.: QI-0211 Document No.: QI-0212	10	MHz	10	MHz		5.0E-9	
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Note: Smallest uncertainty represents an expanded uncertainty using a coverage factor approximately 95 % level of confidence.

(Null Below)

