



Certificate No. : L0245-210324

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

## Certificate of Accreditation

This is to certify that

**Chroma Ate Inc.**

**Electrical and Time and Frequency Calibration Laboratory**

No. 88, Wenmao Rd., Guishan Dist., Taoyuan City, Taiwan

**is accredited in respect of laboratory**

<b>Accreditation Criteria</b>	: ISO/IEC 17025:2017 ; CNS 17025:2018
<b>Accreditation Number</b>	: 0245
<b>Originally Accredited</b>	: November 01, 1995
<b>Effective Period</b>	: November 01, 2019 to October 31, 2022
<b>Accredited Scope</b>	: Calibration Field, see described in the Appendix

Ching-Chang Lien  
President, Taiwan Accreditation Foundation  
Date : March 24, 2021



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Accreditation Number : 0245

Laboratory Head : CHIANG, Ming-Yao

## Electricity

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KF1001 DC Voltage Source (on-site calibration included)	Agilent 3458A	DC Voltage Calibration Procedure (Document No.: E-04-22-001)	100	mV	100	mV	(on-site calibration included)	20	μV/V
			1	V	1	V	(on-site calibration included)	11	μV/V
			10	V	10	V	(on-site calibration included)	9.7	μV/V
			100	V	100	V	(on-site calibration included)	13	μV/V
			1000	V	1000	V	(on-site calibration included)	14	μV/V
			10	mV	100	mV	(on-site calibration included)	82	μV/V
			>100	mV	1	V	(on-site calibration included)	20	μV/V
			>1	V	10	V	(on-site calibration included)	13	μV/V
			>10	V	100	V	(on-site calibration included)	13	μV/V
			>100	V	1000	V	(on-site calibration included)	36	μV/V
Approval Signatory: CHIANG, Ming-Yao; LEE, Wen-Yu									

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	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KF1001 DC Voltage Meter (on-site calibration included)	Fluke 5700A	DC Voltage Calibration Procedure (Document No.: E-04-22-001)	100	mV	100	mV	(on-site calibration included)	23	μV/V
			1	V	1	V	(on-site calibration included)	15	μV/V
			10	V	10	V	(on-site calibration included)	14	μV/V
			100	V	100	V	(on-site calibration included)	17	μV/V
			1000	V	1000	V	(on-site calibration included)	19	μV/V
			10	mV	100	mV	(on-site calibration included)	88	μV/V
			>100	mV	1	V	(on-site calibration included)	36	μV/V
			>1	V	10	V	(on-site calibration included)	29	μV/V
			>10	V	100	V	(on-site calibration included)	26	μV/V
			>100	V	1000	V	(on-site calibration included)	36	μV/V
Approval Signatory: CHIANG, Ming-Yao; LEE, Wen-Yu									
KF1002 DC Current Source (on-site calibration included)	Agilent 3458A	DC Current Calibration Procedure (Document No.: E-04-22-003)	100	μA	100	μA	(on-site calibration included)	50	μA/A
			1	mA	1	mA	(on-site calibration included)	48	μA/A
			10	mA	10	mA	(on-site calibration included)	48	μA/A



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	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KF1002 DC Current Source (on-site calibration included)	Agilent 3458A	DC Current Calibration Procedure (Document No.: E-04-22-003)	100	mA	100	mA	(on-site calibration included)	60	μA/A
			1	A	1	A	(on-site calibration included)	0.15	mA/A
			0.01	mA	1	mA	(on-site calibration included)	83	μA/A
			>1	mA	10	mA	(on-site calibration included)	68	μA/A
			>10	mA	100	mA	(on-site calibration included)	65	μA/A
			>100	mA	1	A	(on-site calibration included)	0.22	mA/A
Approval Signatory: CHIANG, Ming-Yao; LEE, Wen-Yu									
KF1002 DC Current Meter (on-site calibration included)	Fluke 5700A	DC Current Calibration Procedure (Document No.: E-04-22-003)	100	μA	100	μA	(on-site calibration included)	0.17	mA/A
			1	mA	1	mA	(on-site calibration included)	87	μA/A
			10	mA	10	mA	(on-site calibration included)	87	μA/A
			100	mA	100	mA	(on-site calibration included)	0.11	mA/A
			1	A	1	A	(on-site calibration included)	0.20	mA/A
			0.01	mA	1	mA	(on-site calibration included)	0.22	mA/A
			>1	mA	10	mA	(on-site calibration included)	0.16	mA/A



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	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KF1002 DC Current Meter (on-site calibration included)	Fluke 5700A	DC Current Calibration Procedure (Document No.: E-04-22-003)	>10	mA	100	mA	(on-site calibration included)	0.11	mA/A
			>100	mA	1	A	(on-site calibration included)	0.22	mA/A
Approval Signatory: CHIANG, Ming-Yao; LEE, Wen-Yu									
KF1003 DC High Voltage Source	Zentech 900B	DC High Voltage Calibration Procedure (Document No.: E-04-22-073)	1	kV	4	kV		11	mV/V
			>4	kV	20	kV		13	mV/V
Approval Signatory: CHIANG, Ming-Yao; LEE, Wen-Yu									
KF1003 DC High Voltage Meter	Spellman SL40P150	DC High Voltage Calibration Procedure (Document No.: E-04-22-073)	1	kV	4	kV		12	mV/V
			>4	kV	20	kV		14	mV/V
Approval Signatory: CHIANG, Ming-Yao; LEE, Wen-Yu									
KF1004 DC High Current Source (on-side calibration included)	Agilent 3458A Prodigit 7550A Guildline 9230A	DC High Current Calibration Procedure (Document No.: E-04-22-130)	1	A	20	A	(on-site calibration included)	1.5	mA/A
			>20	A	100	A	(on-site calibration included)	0.92	mA/A
			>100	A	1000	A	(on-site calibration included)	7.9	mA/A
Approval Signatory: CHIANG, Ming-Yao; LEE, Wen-Yu									





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	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KF1004 DC High Current Meter (on-side calibration included)	Agilent 3458A Prodigit 7550A Guildline 9230A	DC High Current Calibration Procedure (Document No.: E-04-22-130)	1	A	20	A	(on-site calibration included)	2.2	mA/A
			>20	A	100	A	(on-site calibration included)	2.3	mA/A
			>100	A	1000	A	(on-site calibration included)	7.3	mA/A
Approval Signatory: CHIANG, Ming-Yao; LEE, Wen-Yu									
KF1004 DC Current Shunt (on-side calibration included)	Agilent 3458A Prodigit 7550A Guildline 9230A	DC High Current Calibration Procedure (Document No.: E-04-22-130)	0.01	Ω	0.01	Ω	(1 A to 20 A) on-site calibration included	0.16	mΩ/Ω
			0.001	Ω	0.001	Ω	(>20 A to 100 A) on-site calibration included	0.16	mΩ/Ω
			0.05	mΩ	0.05	mΩ	(>100 A to 1000 A) on-site calibration included	0.49	mΩ/Ω
Approval Signatory: CHIANG, Ming-Yao; LEE, Wen-Yu									
KF1011 AC Voltage Source (on-side calibration included)	Agilent 3458A	AC Voltage Calibration Procedure (Document No.: E-04-22-002)	10	V	10	V	(on-side calibration included) (@ 50 Hz)	1.1	mV/V
			100	V	100	V	(on-side calibration included) (@ 50 Hz)	0.82	mV/V
			700	V	700	V	(on-side calibration included) (@ 50 Hz)	1.2	mV/V
			100	mV	100	mV	(on-side calibration included) (@ 60 Hz)	3.6	mV/V
			1	V	1	V	(on-side calibration included) (@ 60 Hz)	0.83	mV/V



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	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KF1011 AC Voltage Source (on-side calibration included)	Agilent 3458A	AC Voltage Calibration Procedure (Document No.: E-04-22-002)	10	V	10	V	(on-side calibration included) (@ 60 Hz)	0.83	mV/V
			100	V	100	V	(on-side calibration included) (@ 60 Hz)	0.83	mV/V
			700	V	700	V	(on-side calibration included) (@ 60 Hz)	1.2	mV/V
			10	V	700	V	(on-side calibration included) (@ 50 Hz)	21	mV/V
			0.01	V	0.1	V	(on-side calibration included) (@ 60 Hz)	4.2	mV/V
			> 0.1	V	1	V	(on-side calibration included) (@ 60 Hz)	4.2	mV/V
			> 1	V	10	V	(on-side calibration included) (@ 60 Hz)	2.3	mV/V
			> 10	V	100	V	(on-side calibration included) (@ 60 Hz)	2.6	mV/V
			> 100	V	700	V	(on-side calibration included) (@ 60 Hz)	1.9	mV/V
Approval Signatory: CHIANG, Ming-Yao; LEE, Wen-Yu									



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	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KF1011 AC Voltage Meter (on-side calibration included)	Fluke 5700A	AC Voltage Calibration Procedure (Document No.: E-04-22-002)	10	V	10	V	(on-side calibration included) (@ 50 Hz)	1.1	mV/V
			100	V	100	V	(on-side calibration included) (@ 50 Hz)	1.2	mV/V
			700	V	700	V	(on-side calibration included) (@ 50 Hz)	1.2	mV/V
			100	mV	100	mV	(on-side calibration included) (@ 60 Hz)	3.6	mV/V
			1	V	1	V	(on-side calibration included) (@ 60 Hz)	0.84	mV/V
			10	V	10	V	(on-side calibration included) (@ 60 Hz)	0.84	mV/V
			100	V	100	V	(on-side calibration included) (@ 60 Hz)	0.84	mV/V
			700	V	700	V	(on-side calibration included) (@ 60 Hz)	1.2	mV/V
			10	V	700	V	(on-side calibration included) (@ 50 Hz)	21	mV/V
			0.01	V	0.1	V	(on-side calibration included) (@ 60 Hz)	4.2	mV/V
			>0.1	V	1	V	(on-side calibration included) (@ 60 Hz)	4.2	mV/V
			>1	V	10	V	(on-side calibration included) (@ 60 Hz)	2.3	mV/V
			>10	V	100	V	(on-side calibration included) (@ 60 Hz)	2.6	mV/V
			>100	V	700	V	(on-side calibration included) (@ 60 Hz)	1.9	mV/V
Approval Signatory: CHIANG, Ming-Yao; LEE, Wen-Yu									
KF1012 AC Current Source (on-side calibration included)	Agilent 3458A	AC Current Calibration Procedure (Document No.: E-04-22-004)	1	mA	1	mA	(on-side calibration included)(@ 60 Hz)	0.95	mA/A
			10	mA	10	mA	(on-side calibration included)(@ 60 Hz)	0.95	mA/A
			100	mA	100	mA	(on-side calibration included)(@ 60 Hz)	0.95	mA/A
			1	A	1	A	(on-side calibration included)(@ 60 Hz)	1.2	mA/A
Approval Signatory: CHIANG, Ming-Yao; LEE, Wen-Yu									





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	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KF1012 AC Current Source (on-side calibration included)	Agilent 3458A	AC Current Calibration Procedure (Document No.: E-04-22-004)	0.1	mA	10	mA	(on-side calibration included) (@ 60 Hz)	1.8	mA/A
			>10	mA	100	mA	(on-side calibration included) (@ 60 Hz)	3.3	mA/A
			>100	mA	1	A	(on-side calibration included) (@ 60 Hz)	3.3	mA/A
Approval Signatory: CHIANG, Ming-Yao; LEE, Wen-Yu									
KF1012 AC Current Meter (on-side calibration included)	Fluke 5700A	AC Current Calibration Procedure (Document No.: E-04-22-004)	1	mA	1	mA	(on-side calibration included) (@ 60 Hz)	0.97	mA/A
			10	mA	10	mA	(on-side calibration included) (@ 60 Hz)	0.97	mA/A
			100	mA	100	mA	(on-side calibration included) (@ 60 Hz)	0.99	mA/A
			1	A	1	A	(on-side calibration included) (@ 60 Hz)	1.5	mA/A
			0.1	mA	10	mA	(on-side calibration included) (@ 60 Hz)	1.8	mA/A
			>10	mA	100	mA	(on-side calibration included) (@ 60 Hz)	3.3	mA/A
			>100	mA	1	A	(on-side calibration included) (@ 60 Hz)	3.3	mA/A
Approval Signatory: CHIANG, Ming-Yao; LEE, Wen-Yu									



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	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KF1013 AC High Voltage Source	Kikusui 149-10A	AC High Voltage Calibration Procedure (Document No.: E-04-22-077)	1	kV	10	kV	(@ 60 Hz)	18	mV/V
Approval Signatory: CHIANG, Ming-Yao; LEE, Wen-Yu									
KF1013 AC High Voltage Meter	Chroma 9055	AC High Voltage Calibration Procedure (Document No.: E-04-22-077)	1	kV	10	kV	(@ 60 Hz)	39	mV/V
Approval Signatory: CHIANG, Ming-Yao; LEE, Wen-Yu									
KF1014 AC High Current Source (on-side calibration included)	Agilent 3458A Prodigit 7550A	AC High Current Calibration Procedure (Document No.: E-04-22-131)	2	A	20	A	(on-side calibration included) (@ 60 Hz)	7.4	mA/A
			>20	A	40	A	(on-side calibration included) (@ 60 Hz)	1.7	mA/A
Approval Signatory: CHIANG, Ming-Yao; LEE, Wen-Yu									
KF1014 AC High Current Meter (on-side calibration included)	Agilent 3458A Prodigit 7550A	AC High Current Calibration Procedure(Document No.:E-04-22-131)	2	A	20	A	(@ 60 Hz) (on-side calibration included)	9.2	mA/A
			>20	A	40	A	(@ 60 Hz) (on-side calibration included)	2.4	mA/A
Approval Signatory: CHIANG, Ming-Yao; LEE, Wen-Yu									



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	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KF2001 AC Electrical Power Source	Chroma 66202	AC Electrical Power Calibration Procedure (Document No.: E-04-22-012)	120	W	120	W	120 V,1 A, PF=1(Single phase 60 Hz)	1.8	mW/VA
			240	W	240	W	240 V,1 A, PF=1(Single phase 60 Hz)	1.8	mW/VA
			1200	W	1200	W	120 V,10 A, PF=1(Single phase 60 Hz)	2.4	mW/VA
			2400	W	2400	W	240 V10 A, PF=1(Single phase 60 Hz)	2.4	mW/VA
			60	W	60	W	120 V,1 A, PF= 0.5Lag (Single phase 60 Hz)	3.6	mW/VA
			120	W	120	W	240 V,1 A, PF= 0.5Lag (Single phase 60 Hz)	3.6	mW/VA
			600	W	600	W	120 V,10 A, PF= 0.5Lag (Single phase 60 Hz)	5.6	mW/VA
			1200	W	1200	W	240 V,10 A, PF= 0.5Lag (Single phase 60 Hz)	5.6	mW/VA
Approval Signatory: CHIANG, Ming-Yao; LEE, Wen-Yu									
KF2001 AC Electrical Power Meter	Fluke 5500A	AC Electrical Power Calibration Procedure (Document No.: E-04-22-012)	120	W	120	W	120 V,1 A, PF=1(Single phase 60 Hz)	2.4	mW/VA
			240	W	240	W	240 V,1 A, PF=1(Single phase 60 Hz)	2.4	mW/VA
			1200	W	1200	W	120 V,10 A, PF=1(Single phase 60 Hz)	2.7	mW/VA
			2400	W	2400	W	240 V,10 A, PF=1(Single phase 60 Hz)	2.6	mW/VA
Approval Signatory: CHIANG, Ming-Yao; LEE, Wen-Yu									



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	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KF2001 AC Eectrical Power Meter	Fluke 5500A	AC Electrical Power Calibration Procedure (Document No.: E-04-22-012)	60	W	60	W	120 V,1 A,PF=0.5Lag(Single phase 60 Hz)	6.5	mW/VA
			120	W	120	W	240 V,1 A,PF=0.5Lag(Single phase 60 Hz)	6.5	mW/VA
			600	W	600	W	10 V,10 A,PF=0.5Lag(Single phase 60 Hz)	7.8	mW/VA
			1200	W	1200	W	240 V,10 A,PF=0.5Lag(Single phase 60 Hz)	7.8	mW/VA
Approval Signatory: CHIANG, Ming-Yao; LEE, Wen-Yu									
KF3001 Ground Bond Tester	Zentech 9002	Ground Bond Tester Calibration Procedure (Document No.: E-04-22-049)	10	mΩ	10	mΩ	(25 A, 60 Hz)	20	mΩ/Ω
			100	mΩ	100	mΩ	(25 A, 60 Hz)	19	mΩ/Ω
Approval Signatory: CHIANG, Ming-Yao; LEE, Wen-Yu									
KF3001 Resistor (on-site calibration included)	Agilent 3458A	Resistance Calibration Procedure (Document No.: E-04-22-005)	10	Ω	10	Ω	(on-site calibration included)	30	μΩ/Ω
			100	Ω	100	Ω	(on-site calibration included)	30	μΩ/Ω
			1	kΩ	1	kΩ	(on-site calibration included)	18	μΩ/Ω
			10	kΩ	10	kΩ	(on-site calibration included)	17	μΩ/Ω
			100	kΩ	100	kΩ	(on-site calibration included)	18	μΩ/Ω
			1	MΩ	1	MΩ	(on-site calibration included)	29	μΩ/Ω
			10	MΩ	10	MΩ	(on-site calibration included)	96	μΩ/Ω
			100	MΩ	100	MΩ	(on-site calibration included)	0.65	mΩ/Ω
Approval Signatory: CHIANG, Ming-Yao; LEE, Wen-Yu									





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	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KF3001 Ohmmeter (on-site calibration included)	Fluke 5700A	Resistance Calibration Procedure (Document No.: E-04-22-005)	10	Ω	10	Ω	(on-site calibration included)	48	μΩ/Ω
			100	Ω	100	Ω	(on-site calibration included)	41	μΩ/Ω
			1	kΩ	1	kΩ	(on-site calibration included)	30	μΩ/Ω
			10	kΩ	10	kΩ	(on-site calibration included)	29	μΩ/Ω
			100	kΩ	100	kΩ	(on-site calibration included)	31	μΩ/Ω
			1	MΩ	1	MΩ	(on-site calibration included)	45	μΩ/Ω
			10	MΩ	10	MΩ	(on-site calibration included)	0.12	mΩ/Ω
			100	MΩ	100	MΩ	(on-site calibration included)	0.67	mΩ/Ω
Approval Signatory: CHIANG, Ming-Yao; LEE, Wen-Yu									
KF3002 Inductor	HP 4284A	Inductance Calibration Procedure (Document No.: E-04-22-072)	100	μH	100	μH	(@ 1 kHz)	1.5	mH/H
			1	mH	1	mH	(@ 1 kHz)	0.65	mH/H
			10	mH	10	mH	(@ 1 kHz)	0.68	mH/H
			100	mH	100	mH	(@ 1 kHz)	0.63	mH/H
			1	H	1	H	(@ 1 kHz)	0.84	mH/H
			10	H	10	H	(@ 1 kHz)	2.2	mH/H
Approval Signatory: CHIANG, Ming-Yao; LEE, Wen-Yu									
KF3002 Inductance Meter	Quadtech 1482B (100 μH) /1482 <sup>E</sup> (1 mH) /1482H (10 mH) /1482L (100 mH) /1482P (1 H) /1482T (10 H)	Inductance Calibration Procedure (Document No.: E-04-22-072)	100	μH	100	μH	(@ 1 kHz)	1.5	mH/H
			1	mH	1	mH	(@ 1 kHz)	0.68	mH/H
			10	mH	10	mH	(@ 1 kHz)	0.70	mH/H
			100	mH	100	mH	(@ 1 kHz)	0.66	mH/H
			1	H	1	H	(@ 1 kHz)	0.86	mH/H
			10	H	10	H	(@ 1 kHz)	2.2	mH/H
Approval Signatory: CHIANG, Ming-Yao; LEE, Wen-Yu									





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	brand /model	document name /no.	mini mum value	units	maxi mum value	units	explanation	value	units
KF3003 Capacitance	HP 4284A	Capacitance Calibration Procedure (Document No.: E-04-22-071)	100	pF	100	pF	(@ 1 kHz)	0.58	mF/F
			1	nF	1	nF	(@ 1 kHz)	0.58	mF/F
			10	nF	10	nF	(@ 1 kHz)	0.58	mF/F
			100	nF	100	nF	(@ 1 kHz)	0.58	mF/F
			1	μF	1	μF	(@ 1 kHz)	0.59	mF/F
Approval Signatory: CHIANG, Ming-Yao; LEE, Wen-Yu									
KF3003 Capacitance Meter	HP 16383A (100 pF) /16384A (1000 pF) /16385A (0.01 μF) /16386A (0.1 μF) /19387A (1 μF)	Capacitance Calibration Procedure (Document No.: E-04-22-071)	100	pF	100	pF	(@ 1 kHz)	0.72	mF/F
			1	nF	1	nF	(@ 1 kHz)	0.72	mF/F
			10	nF	10	nF	(@ 1 kHz)	0.60	mF/F
			100	nF	100	nF	(@ 1 kHz)	0.60	mF/F
			1	μF	1	μF	(@ 1 kHz)	0.60	mF/F
Approval Signatory: CHIANG, Ming-Yao; LEE, Wen-Yu									



Certificate No. : L0245-210324

**財團法人全國認證基金會**  
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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 Counter	HP 105B	Frequency Calibration Procedure (Document No.: E-04-22-016)	100	kHz	100	kHz		3.5 E-07	Hz/Hz
			1	MHz	1	MHz		3.5 E-07	Hz/Hz
			5	MHz	5	MHz		3.5 E-07	Hz/Hz
			10	MHz	10	MHz		3.5 E-07	Hz/Hz
Approval Signatory: CHIANG, Ming-Yao; LEE, Wen-Yu									

Note : Smallest uncertainty represents an expanded uncertainty using a coverage factor approximately 95 % level of confidence.

(Null Below)