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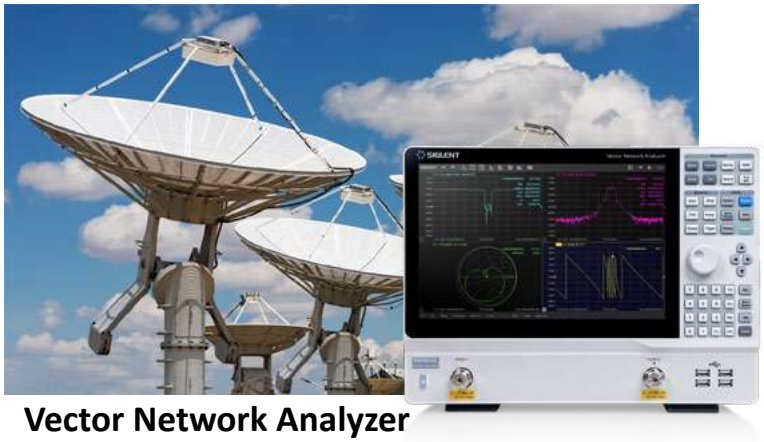
●Telecommunication ●Oil & Gas ●Mining ●Manufacture

Handheld XRF
Mineral Ore Analyzer

Precision
Digital Oscilloscopes

Spectrum Analyzer



Vector Network Analyzer

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About Us

PT. Young Dinamis Indonesia didirikan dengan tujuan menjadi yang terdepan untuk distributor Partner Test & Measuring Instruments di Industri telekomunikasi, militer, pendidikan, listrik, lingkungan, manufaktur minyak dan gas. Dengan visi yang kuat, kami berkomitmen untuk memberikan pelayanan terbaik dalam menyuplai alat ukur dan peraga yang berkualitas.

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Info Halaman

SIGLENT

SNA6000A

Vector Network Analyzer

Specification

Model	SNA6034A SNA6134A	SNA6032A SNA6132A	SNA6024A SNA6124A	SNA6022A SNA6122A
Frequency Range	100 kHz~26.5 GHz		100 kHz~13.5 GHz	
Ports	4	2	4	2
Frequency resolution	1 Hz			
Level resolution	0.05 dB			
Range of IFBW	1 Hz~10 MHz			
Number of points	2 to 100,001			
Setting range of output level	-55 dBm ~ +10 dBm			
Dynamic range	135 dB			
Types of calibration	Response calibration, Enhanced Response calibration, Full-one port calibration, Full-two port calibration, Full-three port calibration, Full-four port calibration, TRL calibration			
Types of measurement	Scattering-parameter measurement, differential-parameter measurement, receiver measurement, time-domain parameter analysis, limit test, ripple test, impedance conversion, fixture simulation, adapter removal/insertion, enhanced time-domain parameter analysis (TDR), spectrum analysis, frequency offset, scalar mixer measurement, pulse measurement, Material Measurement			
Bias-Tees	Support			
Interface	LAN, USB Device, USB Host (USB-GPIB)			
Remote control	SCPI/ Labview/ IVI based on USB-TMC/ VXI-11/ Socket/ Telnet/ WebServer			
Display	12.1-inch touch screen			

Ordering Information

Product Description	Description & Order Number
Products	4 ports, 26.5G Vector Network Analyzer (SNA6034A), 2 ports, 26.5G Vector Network Analyzer (SNA6032A), 4 ports, 13.5G Vector Network Analyzer (SNA6024A), 2 ports, 13.5G Vector Network Analyzer (SNA6022A), 4 ports, 26.5G Vector Network Analyzer (Includes front panel jumper interface) (SNA6134A), 2 ports, 26.5G Vector Network Analyzer (Includes front panel jumper interface) (SNA6132A), 4 ports, 13.5G Vector Network Analyzer (Includes front panel jumper interface) (SNA6124A), 2 ports, 13.5G Vector Network Analyzer (Includes front panel jumper interface) (SNA6122A)
Standard Accessories	1 x Quick-start, 1 x Power-cable, 1 x USB-cable, 1 x calibration-certificate, 1 x Wireless mouse, 1 x Protective Cover
Optional Accessories	High-performance reference source (SNA6000-HPR), Time-Domain analysis (SNA6000-TDA), Enhanced Time-Domain analysis (SNA6000-TDR), Spectrum analysis (SNA6000-SA), Scalar mixer measurement (SNA6000-SMM), Pulse measurement (SNA6000-PM), Material Measurement (SNA6000-MT), SEM5000A series electronic calibrators (SEM5000A), N-type, Male, 50Ω Calibration Kit, 0-4.5 GHz (F503ME), N-type, Female, 50Ω Calibration Kit, 0-4.5 GHz (F503FE), N-type, Male, 50Ω Calibration Kit, 0-9 GHz (F504MS), N-type, Female, 50Ω Calibration Kit, 0-9 GHz (F504FS), N-type, Male, 50Ω Calibration Kit, 0-9 GHz (Y504MS), N-type, Female, 50Ω Calibration Kit, 0-9 GHz (Y504FS), N-type, Male and Female, 50Ω Calibration Kit,0-9 GHz (F504TS), N-type, Male and Female, 50Ω Calibration Kit,0-18 GHz (F505TS), 3.5 mm, Male, 50Ω Calibration Kit, 0-4.5 GHz (F603ME), 3.5 mm, Female, 50Ω Calibration Kit, 0-4.5 GHz (F603FE), 3.5 mm, Male, 50Ω Calibration Kit, 0-9 GHz (F604MS), 3.5 mm, Female, 50Ω Calibration Kit, 0-9 GHz (F604FS), 3.5 mm, Male and Female, 50Ω Calibration Kit, 0-9 GHz (F604TS), 3.5 mm, Male, 50Ω Calibration Kit, 0-26.5 GHz (Y606MS), 3.5 mm, Female, 50Ω Calibration Kit, 0-26.5 GHz (Y606FS), 3.5 mm, Female, 50Ω Calibration Kit, 0-26.5 GHz (F606FS), 3.5 mm, Male and Female, 50Ω Calibration Kit, 0-26.5 GHz (F606TS), 50Ω Waveguide calibration kit, 18-26.5 GHz (KWR42A), N(M)-SMA(F) RF Cable DC~6 GHz,1000 mm (S06-NMSF-1M), N(M)-SMA(F) RF Cable DC~18 GHz,1000 mm (S18-NMSF-1M), 2.9 mm(M)- 2.9 mm (F) RF Cable DC~40 GHz,1000 mm (S40-29M29F-1M), N(M)-SMA(M) RF Cable DC~18 GHz,1000 mm (N-SMA-18L), N(M)-N(M) RF Cable DC~18 GHz,1000 mm (N-N-18L), SMA(M)-SMA(M) RF Cable DC~18 GHz,1000 mm (SMA-SMA-18L), SMA(M)-SMA(M) RF Cable DC~26.5 GHz,1000 mm (SMA-SMA-26L), SMA(F)-SMA(M) RF Cable DC~26.5 GHz,1000 mm (SMAF-SMA-26L), NMD 3.5 female-NMD 3.5 Male DC-26.5 GHz,635 mm (V26-N35MN35F-25IN), NMD 3.5 female-APC 3.5 female DC-26.5 GHz,635 mm (V26-N35FA35F-25IN), USB-GPIB Adapter (USB-GPIB), RF demonstration board (SNA-TB01), Adjustable Differential TDR probe DC-18 GHz (ADP-18), Adjustable Differential TDR probe DC-26.5 GHz (ADP-26), Adjustable Single-end TDR probe DC-18 GHz (ASP-18), Adjustable Single-end TDR probe DC-26.5 GHz (ASP-26)

SIGLENT

SNA5000A

Vector Network Analyzer

Specification

Model	SNA5002A SNA5004A	SNA5012A SNA5014A	SNA5022A	SNA5032A
Frequency range	9 kHz~4.5 GHz	9 kHz~8.5 GHz	100 kHz~13.5 GHz	100 kHz~26.5 GHz
Ports	2/4	2/4	2	2
Frequency resolution	1 Hz			
Level resolution	0.05 dB			
Range of IFBW	1 Hz~10 MHz			
Setting range of output level	-55 dBm ~ +10 dBm			
Dynamic range	125 dB			
Types of calibration	Response calibration, Enhanced Response calibration, Full-one port calibration, Full-two port calibration, Full-three port calibration, Full-four port calibration, TRL calibration			
Types of measurement	Scattering-parameter measurement, differential-parameter measurement, receiver measurement, time-domain parameter analysis, limit test, ripple test, impedance conversion, fixture simulation, adapter removal / insertion, enhanced time-domain parameter analysis (TDR), spectrum analysis, frequency offset, scalar mixer measurement			
Bias-Tees	Support			
Interface	LAN, USB Device, USB Host(USB-GPIB)			
Remote control	SCPI/Labview/IVI based on USB-TMC/VXI-11/Socket/Telnet/WebServer			
Display	12.1-inch touch screen			
Video output	HDMI			

Ordering Information

Items	Description & Order Number
Products	2 ports, 4.5 G Vector Network Analyzer (SNA5002A)
	2 ports, 8.5 G Vector Network Analyzer (SNA5012A)
	4 ports, 4.5 G Vector Network Analyzer (SNA5004A)
	4 ports, 8.5 G Vector Network Analyzer (SNA5014A)
	2 ports, 13.5G Vector Network Analyzer (SNA5022A)
	2 ports, 26.5G Vector Network Analyzer (SNA5032A)
Standard Accessories	1 x Quick-start, 1 x Power-cable, 1 x USB-cable, 1 x calibration-certificate, 1 x Wireless mouse, 1 x Protective Cover
Optional Accessories	High-performance reference source (SNA5000-HPR), Time-Domain analysis (SNA5000-TDA), Enhanced Time-Domain analysis (SNA5000-TDR), Spectrum analysis (SNA5000-SA), Scalar mixer measurement (SNA5000-SMM), Performance Tests (SNA5000-PV), Pulse measurement (SNA5000-PM), Material Measurement (SNA5000-MT), Gain Compression measurement (SNA5000-GC), Vector mixer measurement (SNA5000-VMM), SEM5000A series electronic calibrators (SEM5000A), N-type, Male, 50Ω Calibration Kit, 0-4.5 GHz (F503ME), N-type, Female, 50Ω Calibration Kit, 0-4.5 GHz (F503FE), N-type, Male, 50Ω Calibration Kit, 0-9 GHz (F504MS), N-type, Female, 50Ω Calibration Kit, 0-9 GHz (F504FS), N-type, Male, 50Ω Calibration Kit, 0-9 GHz (Y504MS), N-type, Female, 50Ω Calibration Kit, 0-9 GHz (Y504FS), N-type, Male and Female, 50Ω Calibration Kit,0-9 GHz (F504TS), N-type, Male and Female, 50Ω Calibration Kit,0-18 GHz (F505TS), 3.5 mm, Male, 50Ω Calibration Kit, 0-4.5 GHz (F603ME), 3.5 mm, Female, 50Ω Calibration Kit, 0-4.5 GHz (F603FE), 3.5 mm, Male, 50Ω Calibration Kit, 0-9 GHz (F604MS), 3.5 mm, Female, 50Ω Calibration Kit, 0-9 GHz (F604FS), 3.5 mm, Male and Female, 50Ω Calibration Kit, 0-9 GHz (F604TS), 3.5 mm, Male, 50Ω Calibration Kit, 0-26.5GHz (Y606MS), 3.5 mm, Female, 50Ω Calibration Kit, 0-26.5 GHz (Y606FS), 3.5 mm, Female, 50Ω Calibration Kit, 0-26.5 GHz (F606FS), 3.5 mm, Male and Female, 50Ω Calibration Kit, 0-26.5 GHz (F606TS), 50Ω Waveguide calibration kit, 18-26.5 GHz (KWR42A), N(M)-SMA(F) RF Cable DC~6 GHz,1000 mm (S06-NMSF-1M), N(M)-SMA(F) RF Cable DC~18 GHz,1000 mm (S18-NMSF-1M), 2.9 mm(M)- 2.9 mm (F) RF Cable DC~40 GHz,1000 mm (S40-29M29F-1M), N(M)-SMA(M) RF Cable DC~18 GHz,1000 mm (N-SMA-18L), N(M)-N(M) RF Cable DC~18 GHz,1000 mm (N-N-18L), SMA(M)-SMA(M) RF Cable DC~18 GHz,1000 mm (SMA-SMA-18L), SMA(M)-SMA(M) RF Cable DC~26.5 GHz,1000 mm (SMA-SMA-26L), SMA(F)-SMA(M) RF Cable DC~26.5 GHz,1000 mm (SMAF-SMA-26L), NMD 3.5 female-NMD 3.5 Male DC-26.5 GHz,635 mm (V26-N35MN35F-25IN), NMD 3.5 female-APC 3.5 female DC-26.5 GHz,635 mm (V26-N35FA35F-25IN), USB-GPIB Adapter (USB-GPIB), RF demonstration board (SNA-TB01), Adjustable Differential TDR probe DC-18 GHz (ADP-18), Adjustable Differential TDR probe DC-26.5 GHz (ADP-26), Adjustable Single-end TDR probe DC-18 GHz (ASP-18), Adjustable Single-end TDR probe DC-26.5 GHz (ASP-26)

SHN900A

Portable Vector Network Analyzer

Specification

Model	SHN914A	SHN920A	SHN926A
Frequency range	30 kHz~14 GHz	30 kHz~20 GHz	30 kHz~26.5 GHz
Ports	2		
Frequency resolution	1 Hz		
Level resolution	0.05 dB		
Range of IFBW	10 Hz~3 MHz		
Setting range of output level	-45 dBm ~ +10 dBm		
Dynamic range	110 dB (Typ.)		
Types of calibration	Response calibration, Enhanced Response calibration, Full-one port calibration, Full-two port calibration, TRL calibration		
Types of measurement	Scattering-parameter measurement, differential-parameter measurement, receiver measurement, time-domain parameter analysis, limit test, ripple test, impedance conversion, fixture simulation, adapter removal/insertion, enhanced time domain parameter analysis (TDR), spectrum analysis, frequency offset, scalar mixer measurement, pulse measurement		
Bias-Tees	Support		
Interface	LAN, USB Device, USB Host (USB-GPIB)		
Remote control	SCPI/ Labview/ IVI based on USB-TMC/ VXI-11/ Socket/ Telnet/ WebServer		
Display	8.4-inch touch screen		
GPS	Support		

Ordering Information

Items	Description	Order Number
Products	2 ports, 14 G Vector Network Analyzer	SHN914A
	2 ports, 20 G Vector Network Analyzer	SHN920A
	2 ports, 26.5 G Vector Network Analyzer	SHN926A
Standard fittings	Quick Start, USB Type C Line, Rechargeable lithium battery, AC-DC adapter, Portable bag	
TDA Option	Time Domain Analysis	SHN900-TDA
TDR Option	Enhanced Time Domain Analysis	SHN900-TDR
SA Option	Spectrum analysis	SNA5002A
3.5 mm, Male, 50 Ω Calibration Kit, 0~4.5 GHz		F603ME
3.5 mm, Female, 50 Ω Calibration Kit, 0~4.5 GHz		F603FE
3.5 mm, Male, 50 Ω Calibration Kit, 0~9 GHz		F604MS
3.5 mm, Female, 50 Ω Calibration Kit, 0~9 GHz		F604FS
3.5 mm, Male and Female, 50 Ω Calibration Kit, 0~9 GHz		F604TS
3.5 mm, Male and Female, 50 Ω Calibration Kit, 0~26.5 GHz		F606TS
Electronic Calibration Kit		SEM5000A
Adjustable Differential TDR probe DC-18 GHz		ADP-18
Adjustable Differential TDR probe DC-26.5 GHz		ADP-26
Adjustable Differential TDR probe DC-18 GHz		ASP-18
Adjustable Differential TDR probe DC-26.5 GHz		ASP-26
SMA(M)-SMA(M) cable DC-18 GHz, 1000 mm		SMA-SMA-18L
SMA(M)-SMA(M) cable DC-26.5 GHz, 1000 mm		SMA-SMA-26L
SMA(F)-SMA(M) cable DC-26.5 GHz, 1000 mm		SMAF-SMA-26L
NMD 3.5 female-NMD 3.5 Male DC-26.5 GHz, 635 mm		V26-N35MN35F-25IN
NMD 3.5 female-APC 3.5 female DC-26.5 GHz, 635 mm		V26-N35FA35F-25IN
USB-GPIB Adaptor		USB-GPIB
GPS antenna, SMA(M), 1000 mm		ANT-GPS1

SSM5000A
Switch Matrix

Specification

Model	SSM5122A	SSM5124A	SSM5142A	SSM5144A	SSM5321A	SSM5342A
Frequency Range	9 kHz ~ 9 GHz	9 kHz ~ 9 GHz	9 kHz ~ 9 GHz	9 kHz ~ 9 GHz	100 kHz ~ 26.5 GHz	100 kHz ~ 26.5 GHz
Input	2	2	4	4	2	4
Output	12	24	12	24	6	12
RF connector	3.5 mm Female					
Maximum input power	20 dBm					
Maximum input DC voltage	35 V					
Screen size	2.4-inch					
Size	W×H×D = 88.5×425×417.6 mm					

Ordering Information

Items	Description	Frequency range	Order number
Products	2 input ports, 12 output ports	9 kHz ~ 9 GHz	SSM5122A
	2 input ports, 24 output ports	9 kHz ~ 9 GHz	SSM5124A
	4 input ports, 12 output ports	9 kHz ~ 9 GHz	SSM5142A
	4 input ports, 24 output ports	9 kHz ~ 9 GHz	SSM5144A
	2 input ports, 6 output ports	100 kHz ~ 26.5 GHz	SSM5321A
	4 input ports, 12 output ports	100 kHz ~ 26.5 GHz	SSM5342A
Standard Accessories	One Quick-start, One Power-cable, One USB-cable, One certificate of qualification	-	-

SSU5000A
Mechanical Switch

Specification

Model	SSU5181A/SSU5182A SSU5183A/SSU5184A	SSU5261A/SSU5262A SSU5263A/SSU5264A	SSU5265A SSU5266A	SSU5501A/SSU5502A SSU5503A/SSU5504A
Frequency range	DC ~ 18 GHz	DC ~ 26.5 GHz	DC ~ 26.5 GHz	DC ~ 50 GHz
Number of Switches	1/2/3/4	1/2/3/4	1/2	1/2/3/4
Switch Type	SPDT	SPDT	SP6T	SPDT
RF connector	SMA female			2.4 mm female
Driving voltage	12 V			
Maximum driving current	1.25 A			
Size	W×H×D = 153×62.4×137.5 mm			
Weight	885 g			

Ordering Information

Product Description	SSA3000X Spectrum Analyzer
SSU5181A	DC ~ 18 GHz, including one SPDT mechanical switch
SSU5182A	DC ~ 18 GHz, including two SPDT mechanical switchs
SSU5183A	DC ~ 18 GHz, including three SPDT mechanical switchs
SSU5184A	DC ~ 18 GHz, including four SPDT mechanical switchs
SSU5261A	DC ~ 26.5 GHz, including one SPDT mechanical switch
SSU5262A	DC ~ 26.5 GHz, including two SPDT mechanical switchs
SSU5263A	DC ~ 26.5 GHz, including three SPDT mechanical switchs
SSU5264A	DC ~ 26.5 GHz, including four SPDT mechanical switchs
SSU5265A	DC ~ 26.5 GHz, including one SP6T mechanical switch
SSU5266A	DC ~ 26.5 GHz, including two SP6T mechanical switchs
SSU5501A	DC ~ 50 GHz, including one SPDT mechanical switch
SSU5502A	DC ~ 50 GHz, including two SPDT mechanical switchs
SSU5503A	DC ~ 50 GHz, including three SPDT mechanical switchs
SSU5504A	DC ~ 50 GHz, including four SPDT mechanical switchs
Product Description	**SSA3000X Spectrum Analyzer**
USB-cable	1
Quick-start	1
AC-DC adapter	1
Power cord	1
Certificate of qualification	1

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SVA1000X

Spectrum & Vector Network Analyzer

Specification

Model	SVA1015X	SVA1032X	SVA1075X
Spectrum Analyzer Frequency Range	9 kHz~1.5 GHz	9 kHz~3.2 GHz	9 kHz~7.5 GHz
Vector Network Analyzer Frequency Range	100 kHz~1.5 GHz	100 kHz~3.2 GHz	100 kHz~7.5 GHz
Resolution Bandwidth	1 Hz~1 MHz	1 Hz~1 MHz	1 Hz~3 MHz
Displayed Average Noise Level	-156 dBm/Hz	-161 dBm/Hz	-165 dBm/Hz
SSB Phase Noise	<-99 dBc/Hz	<-98 dBc/Hz	<-98 dBc/Hz
Total Amplitude Accuracy	< 1.2 dB	< 0.7 dB	< 0.7 dB
Tracking Generator	100 kHz~1.5 GHz	100 kHz~3.2 GHz	100 kHz~7.5 GHz
VNA measurement	Vector S11,Vector S21		
Distance to Fault	VNA Timing Domain Analysis Locator		
Touch Screen	Multi Touch, Mouse and Keyboard supported		
Advanced Measurement	CHP, ACPR, OBW, CNR, Harmonic, TOI, Monitor		
Reflection Measurement	VSWR measurement using Reflection Bridge		
EMI Test	EMI Filter and Quasi-Peak Detector, Log Scale and Limit Line		
Modulation Analysis	AM, FM; ASK, FSK, MSK, PSK, QAM		
Communication Interface	LAN, USB Device, USB Host (USB-GPIB)		
Remote Control Capability	SCPI/Labview/IVI based on USB-TMC/VXI-11/Socket/Telnet		
Remote Controller	NI-MAX, Web Browser, Easy Spectrum software, File Explorer		

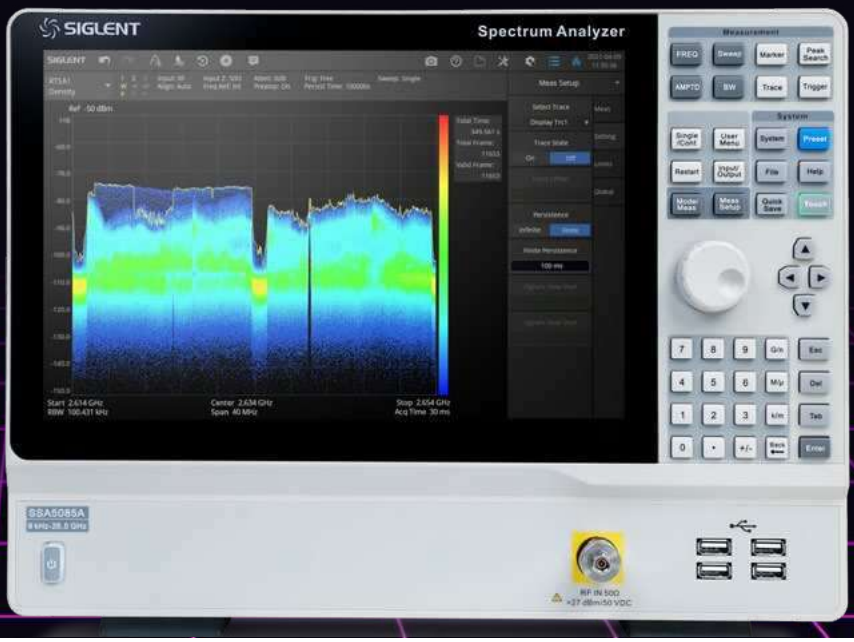
Ordering Information

Product	Description & Order Number	
Product Code	Spectrum & Vector Network Analyzer, 1.5 GHz (SVA1015X), Spectrum & Vector Network Analyzer, 3.2 GHz (SVA1032X), Spectrum & Vector Network Analyzer, 7.5 GHz (SVA1075X)	
Standard Accessories	Quick Start, USB Cable, Power Cord	
Common Options and Accessories	Advanced Measurement Kit	SVA1000X-AMK
	Utility Kit: N (M)-SMA (M) cable (6 GHz), N (M)-N (M) cable (6 GHz), N (M)-BNC (F) adaptor x 2, N (M)-SMA (F) adaptor x 2, 10 dB 1W attenuator	UKitSSA3X
	N (M)-SMA (M) cable, 70 cm, 6 GHz (N-SMA-6L), N (M)-N (M) cable, 70 cm, 6 GHz (N-N-6L), N (M)-BNC (M) cable, 70 cm, 2 GHz (N-BNC-2L), N (M)-N (M) cable, 100 cm, 18 GHz (N-N-18L), N (M)-SMA (M) cable, 100 cm, 18 GHz (N-SMA-18L), SMA(M)-SMA(M) cable, 100 cm, 18 GHz (SMA-SMA-18L), USB-GPIB Adaptor (USB-GPIB), Soft carrying bag (BAG-S2), 6U Rack Mount Kit (SSA-RMK)	
VNA Options	Distance To Fault (SVA1000X-DTF), Mechanical Calibration Kit: Open (M), Short (M), Match (M,50), Through (F-F), 4.5 GHz, N-Male connector (F503ME), Mechanical Calibration Kit: OSLT, DC - 4.5 GHz, N-Female connector (F503FE), Mechanical Calibration Kit: OSLT, DC - 4.5 GHz, 3.5mm SMA-Male connector (F603ME), Mechanical Calibration Kit: Open (M), Short (M), Match (M,50), Through (F-F), 4.5 GHz, SMA-Female connector (F603FE), Mechanical Calibration Kit: OSLT, DC - 9 GHz, N-Male connector (F504MS), Mechanical Calibration Kit: OSLT, DC - 9 GHz, N-Female connector (F504FS), Mechanical Calibration Kit: OSLT, DC - 9 GHz, 3.5 mm SMA-Male connector (F604MS), Mechanical Calibration Kit: OSLT, DC - 9 GHz, 3.5 mm SMA-Female connector (F604FS), N-type, Male and Female, 50 Ω Calibration Kit, 0~9 GHz (F504TS), 3.5 mm, Male and Female, 50 Ω Calibration Kit, 0~9 GHz (F604TS)	
EMI test Options	EMI Measurement Kit: EMI Filter and Quasi Peak Detector, EMI Receiver Mode in EasySpectrum Software	SVA1000X-EMI
	300 kHz~3 GHz Near Field Probe Kit: 3 H-probes (20/10/5 mm), 1 E-probe (5 mm)	SRF5030T
Modulation Analysis Options	Digital Modulation: ASK, FSK, MSK, PSK, QAM	SVA1000X-DMA
	Analog Modulation: AM, FM	SVA1000X-AMA
Modulation Analysis Options	Digital Modulation: ASK, FSK, MSK, PSK, QAM (SVA1000X-DMA), Analog Modulation: AM, FM (SVA1000X-AMA)	
VNA Options	2 ports, 9 kHz ~ 4.5 GHz, SMA female (SEM5002A), 2 ports, 9 kHz ~ 9 GHz, SMA female (SEM5012A), 2 ports, 100 kHz ~ 13.5 GHz, 3.5 mm female (SEM5022A), 2 ports, 100 kHz ~ 26.5 GHz, 3.5 mm female (SEM5032A), 4 ports, 9 kHz ~ 4.5 GHz, SMA female (SEM5004A), 4 ports, 9 kHz ~ 9 GHz, SMA female (SEM5014A), 4 ports, 100 kHz ~ 13.5 GHz, 3.5 mm female (SEM5024A), 4 ports, 100 kHz ~ 26.5 GHz, 3.5 mm female (SEM5034A)	

SIGLENT

SSA5000A

Spectrum Analyzer



Specification

Model	SSA5083A	SSA5085A
Frequency Range	9 kHz~13.6 GHz	9 kHz~26.5 GHz
Displayed Average Noise Level	-165 dBm/Hz	
SSB Phase Noise	<-105 dBc/Hz	
Analysis Bandwidth	25 MHz, 40 MHz (opt.)	

Ordering Information

Product	Description	Order Number
Product Code	Spectrum Analyzer, 9 kHz ~ 13.6 GHz	SSA5083A
	Spectrum Analyzer, 9 kHz ~ 26.5 GHz	SSA5085A
Standard Accessories	Quick Start, USB Cable, Power Cord, Wireless Mouse, 2.92F-2.92F-40A	
Options	SSA5083A upgrade to SSA5085A	SSA5000-F5
	Pre-Amplifier, 9 kHz ~ 13.6 GHz	SSA5000-P3
	Pre-Amplifier, 9 kHz ~ 26.5 GHz	SSA5000-P5
	40 MHz analysis bandwidth	SSA5000-B40
	Real-Time Spectrum Analysis	SSA5000-RTA1
	Advanced Measurement Kit	SSA5000-AMK
	IQ Data Acquisition	SSA5000-IQA
	Pulse Measurement	SSA5000-PU
	Phase Noise Measurement	SSA5000-PN
	Noise Figure Measurement	SSA5000-NF
	Analog Modulation Analysis	SSA5000-AMA
	Digital Modulation Analysis	SSA5000-DMA
	Bluetooth Analysis	SSA5000-BT
	EMI Measurement	SSA5000-EMI
	IF Output	SSA5000-IFO
Accessories	OCXO Precise Reference source, Factory installed	10M_OCXO_L
	2.92mm(F)-2.92mm(F) adaptor, DC ~ 40 GHz	2.92F-2.92F-40A
	N(M)-N(M) cable, DC ~ 18 GHz, 1000 mm	N-N-18L
	N(M)-SMA(M) cable, 18 GHz, 1000 mm	N-SMA-18L
	SMA(M)-SMA(M) cable, 18 GHz, 1000 mm	SMA-SMA-18L
	SMA(M)-SMA(M) cable, 26.5 GHz, 1000 mm	SMA-SMA-26L
	SMA(F)-SMA(M) cable, 26.5 GHz, 1000 mm	SMAF-SMA-26L
	USB-GPIB Adaptor	USB-GPIB
	300 kHz~3 GHz Near Field Probe Kit: 3 H-probes (20/10/5 mm), 1 E-probe (5 mm)	SRF5030T

SIGLENT

SSA3000X Plus

Spectrum Analyzer

Specification

Model	SSA3015X Plus	SSA3021X Plus	SSA3032X Plus	SSA3075X Plus
Frequency Range	9 kHz~1.5 GHz	9 kHz~2.1 GHz	9 kHz~3.2 GHz	9 kHz~7.5 GHz
Resolution Bandwidth	1 Hz~1 MHz	1 Hz~1 MHz	1 Hz~1 MHz	1 Hz~3 MHz
Displayed Average Noise Level	-156 dBm/Hz	-161 dBm/Hz	-161 dBm/Hz	-165 dBm/Hz
SSB Phase Noise	< -99 dBc/Hz	< -98 dBc/Hz	<-98 dBc/Hz	<-98 dBc/Hz
Third-order intercept	+10 dBm	+10 dBm	+10 dBm	+14 dBm
Total Amplitude Accuracy	< 1.2 dB	< 0.7 dB	< 0.7 dB	< 0.7 dB
Tracking Generator	100 kHz~1.5 GHz	100 kHz~2.1 GHz	100 kHz~3.2 GHz	100 kHz~7.5 GHz
Touch Screen	Multi Touch, Mouse and Keyboard supported			
Advanced Measurement	CHP, ACPR, OBW, CNR, Harmonic, TOI, Monitor			
Reflection Measurement	VSWR measurement using Reflection Bridge			
EMI Test	EMI Filter and Quasi-Peak Detector, Log Scale and Limit Line			
Modulation Analysis	AM, FM; ASK, FSK, MSK, PSK, QAM			
Communication Interface	LAN, USB Device, USB Host (USB-GPIB)			
Remote Control Capability	SCPI/Labview/IVI based on USB-TMC/VXI-11/Socket/Telnet			
Remote Controller	NI-MAX, Web Browser, Easy Spectrum software, File Explorer			

Ordering Information

Product	Description & Order Number	
Product Code	Spectrum Analyzer, 9 kHz ~ 1.5 GHz (SSA3015X Plus), Spectrum Analyzer, 9 kHz ~ 2.1 GHz (SSA3021X Plus), Spectrum Analyzer, 9 kHz ~ 3.2 GHz (SSA3032X Plus), Spectrum Analyzer, 9 kHz ~ 7.5 GHz (SSA3075X Plus)	
Standard Accessories	Quick Start, USB Cable, Power Cord	
Common Options and Accessories	Tracking Generator	SSA3000XP-TG
	Advanced Measurement Kit	SSA3000XP-AMK
	Utility Kit: N (M)-SMA (M) cable (6 GHz), N (M)-N (M) cable (6 GHz), N (M)-BNC (F) adaptor x2, N (M)-SMA (F) adaptor x2, 10 dB 1W attenuator	UKitSSA3X
	N (M)-BNC (M) cable, 70 cm, 2 GHz	N-BNC-2L
	N (M)-SMA (M) cable, 70 cm, 6 GHz	N-SMA-6L
	N (M)-N (M) cable, 70 cm, 6 GHz	N-N-6L
	N (M)-SMA (M) cable, 100 cm, 18 GHz	N-SMA-18L
	N (M)-N (M) cable, 100 cm, 18 GHz	N-N-18L
	SMA (M)-SMA (M) cable, 100 cm, 18 GHz	SMA-SMA-18L
	USB-GPIB Adaptor	USB-GPIB
	Soft carrying bag	BAG-S2
	6U Rack Mount Kit	SSA-RMK
Reflection Measurement Options	Tracking Generator	SSA3000XP-TG
	Reflection Measurement	SSA3000-Refl
	Reflection Bridge Kit: Reflection Bridge (1 MHz~2.5 GHz), N(M)-N(M) adaptors x2	RB3X25
	50 Ω, N type Male, 4.5 GHz Economic Calibration Kit: Open(M), Short(M), Match(M), Through Adapter(F-F)	F503ME
EMI test Options	EMI Measurement Mode	SSA3000XP-EMI
	300 kHz~3 GHz Near Field Probe Kit: 3 H-probes (20/10/5 mm), 1 E-probe (5 mm)	SRF5030T
Modulation Analysis Options	Digital Modulation: ASK, FSK, MSK, PSK, QAM	SSA3000XP-DMA
	Analog Modulation: AM, FM	SSA3000XP-AMA

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SSA3000X-R

Real-Time Spectrum Analyzer

Specification

Model	SSA3032X-R	SSA3050X-R	SSA3075X-R
Frequency Range	9 kHz~3.2 GHz	9 kHz~5.0 GHz	9 kHz~7.5 GHz
Resolution Bandwidth	1 Hz~3 MHz	1 Hz~3 MHz	1 Hz~3 MHz
Displayed Average Noise Level	-165 dBm/Hz	-165 dBm/Hz	-165 dBm/Hz
SSB Phase Noise	<-98 dBc/Hz	<-98 dBc/Hz	<-98 dBc/Hz
Third-order intercept(TOI)	+14 dbm	+14 dbm	+14 dbm
Total Amplitude Accuracy	< 0.7 dB	< 0.7 dB	< 0.7 dB
Tracking Generator	100 kHz~3.2 GHz	100 kHz~5.0 GHz	100 kHz~7.5 GHz
Real Time Band Width	25 MHz, 40 MHz (Option)		
RTSA SFDR	60 dB		
100% POI	7.20 μs		
RTSA Measurement	Density, Spectrogram, 3D, PvT		
VNA measurement	Vector S11, Vector S21		
VNA Dynamic Range	90 dB		
Distance to Fault	Timing Domain Analysis Locator		
Touch Screen	Multi Touch, Mouse and Keyboard supported		
Advanced Measurement	CHP, ACPR, OBW, CNR, Harmonic, TOI, Monitor		
Modulation Analysis	AM, FM, ASK, FSK, MSK, PSK, QAM		
EMI Measurement	EMI Filter and Quasi-Peak Detector, Log Scale and Limit Line		
Communication Interface	LAN, USB Device, USB Host (USB-GPIB)		
Remote Control Capability	SCPI/Labview/IVI based on USB-TMC/VXI-11/Socket/Telnet		
Remote Controller	NI-MAX, Web Browser, Easy Spectrum software, File Explorer		

Ordering Information

Product	Description & Order Number	
Product Code	Real Time Spectrum Analyzer, 9 kHz~3.2 GHz, Preamp and TG standard, VNA standard (SSA3032X-R) Real Time Spectrum Analyzer, 9 kHz~5.0 GHz, Preamp and TG standard, VNA standard (SSA3050X-R) Real Time Spectrum Analyzer, 9 kHz~7.5 GHz, Preamp and TG standard, VNA standard (SSA3075X-R)	
Standard Accessories	Quick Start, USB Cable, Power Cord	
Common Options and Accessories	Advanced Measurement Kit (SSA3000XR-AMK), 40 MHz Analysis BandWidth (SSA3000XR-RT40)	
	Utility Kit: N(M)-SMA(M) cable(6 GHz), N(M)-N(M) cable(6 GHz), N(M)-BNC(F) adaptor x2, N(M)-SMA(F) adaptor x2, 10 dB 1W attenuator	UKitSSA3X
	N(M)-BNC(M) cable, 70 cm, 2 GHz (N-BNC-2L), N(M)-SMA(M) cable, 70 cm, 6 GHz (N-SMA-6L), N(M)-N(M) cable, 70 cm, 6 GHz (N-N-6L), N(M)-SMA(M) cable, 100 cm, 18 GHz (N-SMA-18L), N(M)-N(M) cable, 100 cm, 18 GHz (N-N-18L), SMA(M)-SMA(M) cable, 100 cm, 18 GHz (SMA-SMA-18L), USB-GPIB Adaptor (USB-GPIB), Soft carrying bag (BAG-S2), 6U Rack Mount Kit (SSA-RMK)	
VNA Options	N type Economic Calibration Kit, DC~4.5 GHz, 50 Ω (F503ME), N type Economic Calibration Kit, DC~4.5 GHz, 50 Ω (F503FE), 3.5 mm type Economic Calibration Kit, DC~4.5 GHz, 50 Ω (F603ME), 3.5 mm type Economic Calibration Kit, DC~4.5 GHz, 50 Ω (F603FE), N type Standard Calibration Kit, DC~9 GHz, 50 Ω (F504MS), N type Standard Calibration Kit, DC~9 GHz, 50 Ω (F504FS), 3.5 mm type Standard Calibration Kit, DC~9 GHz, 50 Ω (F604MS), 3.5 mm type Standard Calibration Kit, DC~9 GHz, 50 Ω (F604FS)	
EMI Measurement Options	EMI Measurement Mode (SSA3000XR-EMI), 300 kHz~3 GHz Near Field Probe Kit: 3 H-probes (20/10/5 mm), 1 E-probe (5 mm) (SRF5030T)	

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SHA850A

Handheld Spectrum & Vector Network Analyzer

Specification

Model	SHA851A	SHA852A
Spectrum Analyzer	9 kHz~3.6 GHz	9 kHz~7.5 GHz
Cable and Antenna Test	100 kHz~3.6 GHz	100 kHz~7.5 GHz

Ordering Information

Product	Description	Order Number
Product code	Spectrum & Vector Network Analyzer, 9 kHz~3.6 GHz	SHA851A
	Spectrum & Vector Network Analyzer, 9 kHz~7.5 GHz	SHA852A
Standard Accessories	Quick Start, USB type-C cable, Power cord, AC-DC adapter, Rechargeable lithium battery, Portable bag	
Options	SHA851A to SHA852A (SHA850-F2), Source (SHA850-SOR), Vector Network Analysis (SHA850-VNA), Advanced Measurement Kit (SHA850-AMK), Analog Modulation Analysis (SHA850-AMA), Digital Modulation Analysis (SHA850-DMA), DC Bias Out (SHA850-BIAS), GPS Receiver (SHA850-GPS), GPS Logging(need GPS Receiver) (SHA850-GPSM)	
General Accessories	Rechargeable lithium battery	10V8_BAT
	AC-DC adapter	12V_AP_4A
	Portable bag	BAG-H2
	GPS antenna, SMA(M), 100 cm	ANT-GPS1
	S5000 Directional Antenna Suit: S5001-VHF (10 MHz~200 MHz), S5001-UHF (200 MHz~500 MHz), S5001-LP (500 MHz~8 GHz), Preamp (10 dB, 9 kHz~8 GHz)	ANT-DA1
	Near field probe kit: 300 kHz~3 GHz, H-field probes (20 mm,10 mm,5 mm), E-field probe (5 mm)	SRF5030T
	Utility Kit: N(M)-SMA(M) cable(6 GHz), N(M)-N(M) cable(6 GHz), N(M)-BNC(F) adaptor x2, N(M)-SMA(F) adaptor x2, 10 dB 1W attenuator	UKitSSA3X
	N(M)-BNC(M) cable, DC~2 GHz, 700 mm	N-BNC-2L
	N(M)-SMA(M) cable, DC~6 GHz, 700 mm	N-SMA-6L
	N(M)-N(M) cable, DC~6 GHz, 700 mm	N-N-6L
	N(M)-N(M) cable ,DC~18 GHz, 1000 mm	N-N-18L
	N(M)-SMA(M) cable ,DC~18 GHz, 1000 mm	N-SMA-18L
	SMA(M)-SMA(M) cable ,DC~18 GHz, 1000 mm	SMA-SMA-18L
CAT&VNA Accessories	N type Integrated Calibration Kit, Male, DC~9 GHz,50 Ω	Y504MS
	N type Integrated Calibration Kit, Female, DC~9 GHz,50 Ω	Y504FS
	N type Precision Calibration Kit, DC~9 GHz, 50 Ω	F504TS
	3.5 mm type Precision Calibration Kit, DC~9 GHz, 50 Ω	F604TS
VNA Options	2 ports, 9 kHz ~ 4.5 GHz, SMA female	SEM5002A
	2 ports, 9 kHz ~ 9 GHz, SMA female	SEM5012A
	2 ports, 100 kHz ~ 13.5 GHz, 3.5 mm female	SEM5022A
	2 ports, 100 kHz ~ 26.5 GHz, 3.5 mm female	SEM5032A
	4 ports, 9 kHz ~ 4.5 GHz, SMA female	SEM5004A
	4 ports, 9 kHz ~ 9 GHz, SMA female	SEM5014A
	4 ports, 100 kHz ~ 13.5 GHz, 3.5 mm female	SEM5024A
	4 ports, 100 kHz ~ 26.5 GHz, 3.5 mm female	SEM5034A

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SSG5000X

RF Signal Generator

Specification

Model	SSG5040X	SSG5060X	SSG5040X-V	SSG5060X-V
Frequency Range	CW MODE 9 kHz~4 GHz	CW MODE 9 kHz~6 GHz	CW MODE 9 kHz~4 GHz	CW MODE 9 kHz~6 GHz
			IQ MODE 10 MHz~4 GHz	IQ MODE 10 MHz~6 GHz
Frequency Resolution	0.001 Hz			
Amplitude Resolution	0.01 dB			
Phase noise	-120 dBc/Hz @1 GHz, offset 20 kHz (typ.)			
Display	5 inch capacitance touch screen, RGB (800*480)			

Ordering Information

Product Description	SSG5000X Signal Generator	Order Number
Product code	Analog Signal Generator 9 kHz ~ 4 GHz	SSG5040X
	Analog Signal Generator 9 kHz ~ 6 GHz	SSG5060X
	Vector Signal Generator 10 MHz ~ 4 GHz	SSG5040X-V
	Vector Signal Generator 10 MHz ~ 6 GHz	SSG5060X-V
Standard configurations	Quick start, an USB cable, calibration certificate, power cord	
Options	Pulse train generator	SSG5000X-PT
	Rack mount kit	SSG-RMK
	USB-GPIB adapter	USB-GPIB
	Upgrade 4 GHz to 6 GHz	SSG5000X_F60
	Upgrade IQ bandwidth from 75 MHz to 150 MHz	SSG5000XV_B150
	Precision Frequency Reference	10M_OCXO_L [1]
	Generate IOT waveform at device	SSG5000XV-IOT
	SigIQPro for Bluetooth waveform playback license[2]	SigIQPro-BT
	SigIQPro for IOT waveform playback license	SigIQPro-IOT
	SigIQPro for OFDM waveform playback license	SigIQPro-OFDM

[1] Assembled and calibrated in factory only

[2] See the SigIQPro User Manual for details

• SigIQPro Signal Generation Software (Optional)

SigIQPro is a flexible PC-based signal generation software that takes signal generation to a whole new level, making it easy to generate complex signals that are fully compliant with Bluetooth, IoT and other communication standards. SIGLENT instruments and SigIQPro signal generation software integrate simulation, design and test to easily meet the needs of users at all stages of design, R&D, and production

SSG6000A

RF Signal Generator

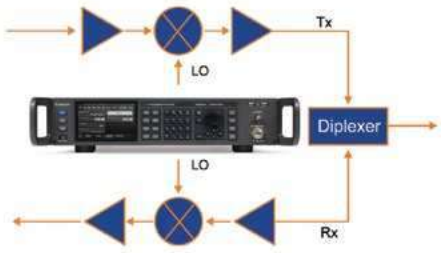
Specification

Model	SSG6083A	SSG6085A	SSG6087A
Frequency Range	CW MODE 100 kHz~13.6 GHz	CW MODE 100 kHz~20 GHz	CW MODE 100 kHz~40 GHz
Frequency Resolution	0.001 Hz		
Amplitude Resolution	0.01 dB		
Level error	≤ 0.7 dB(typ.)		
Phase noise	-135 dBc/Hz @1 GHz, offset 20 kHz (typ.)		
Display	5 inch capacitance touch screen, RGB (800*480)		

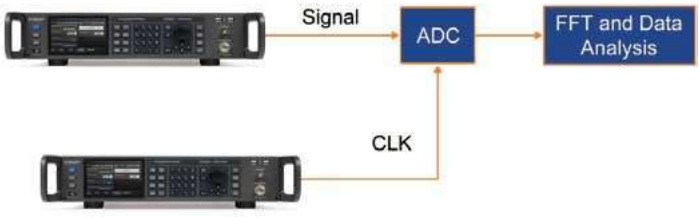
Ordering Information

Product Description	SSG6000A Signal Generator	Order Number
Product code	Analog Signal Generator 100 kHz~13.6 GHz	SSG6083A
	Analog Signal Generator 100 kHz~20 GHz	SSG6085A
	Analog Signal Generator 100 kHz~40 GHz	SSG6087A
Standard configurations	Quick start, an USB cable, calibration certificate, power cord, 2.92 mm female to female adapter	
Option	Pulse modulation	SSG6080A-PU
	Pulse train generator	SSG6080A-PT
	Rack mount kit	SSG6000A-RMK
	USB-GPIB adapter	USB-GPIB
	Upgrade 13.6 GHz to 20 GHz	SSG6080A-F85

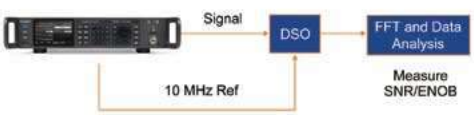
• LO in Up/Down Converter Measurement



• ADC Measurement

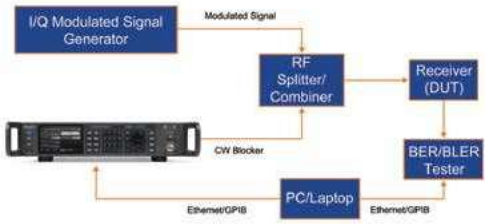


• DSO Measurement



• DAC Measurement

• Receiver Blocking Test



SSG5000A
RF Signal Generator

Specification

Model	SSG5083A	SSG5085A
Frequency Range	CW MODE 9 kHz~13.6 GHz	CW MODE 9 kHz~20 GHz
Frequency Resolution	0.001 Hz	
Amplitude Resolution	0.01 dB	
Level error	≤ 0.7 dB(typ.)	
Phase noise	-120 dBc/Hz @1 GHz, offset 20 kHz (typ.)	
Display	5 inch capacitance touch screen, RGB (800*480)	

Ordering Information

Product Description	SSG5000A Signal Generator	Order Number
Product code	Analog Signal Generator 9 kHz~13.6 GHz	SSG5083A
	Analog Signal Generator 9 kHz~20 GHz	SSG5085A
Standard configurations	Quick start, an USB cable, calibration certificate, power cord	
option	Pulse modulation	SSG5080A-PU
	Pulse train generator	SSG5080A-PT
	110 dB Attenuator module[1]	SSG5080A-LP
	Rack mount kit	SSG-RMK
	USB-GPIB adapter	USB-GPIB
	Upgrade 13.6 GHz to 20 GHz	SSG5080A-F85

[1] Assembled and calibrated in factory only

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Oscilloscope

SDS7000A, SDS6000A, SDS6000L, SDS5000X, SDS3000X HD, SDS2000X HD, SDS2000X plus

	SDS7000A	SDS6000A	SDS6000L	SDS5000X	SDS3000X HD	SDS2000X HD	SDS2000X plus
Bandwidth	3 GHz ~ 6 GHz	350 MHz ~ 2 GHz	500 MHz ~ 2 GHz	350 MHz ~ 1 GHz	350 MHz ~ 1 GHz	200 MHz ~ 350 MHz	100 MHz ~ 500 MHz
Sample rate	20 GSa/s	5 GSa/s (10 GSa/s ESR)	5 GSa/s (10 GSa/s ESR)	5 GSa/s	4 GSa/s	2 GSa/s	2 GSa/s
Analog channel	4	4	4/8	4	4	4	2/4
Memory depth	1 Gpts	500 Mpts	500 Mpts	250 Mpts	400 Mpts	200 Mpts	200 Mpts
Waveform update Rate	1,100,000 wfm/s	750,000 wfm/s	750,000 wfm/s	500,000 wfm/s	890,000 wfm/s	500,000 wfm/s	500,000 wfm/s
Protocol analysis	Standard: I2C, SPI, UART, CAN, LIN Optional: CAN FD, FlexRay, I2S, MIL-STD-1553B, SENT, Manchester (decode only), ARINC429(only SDS7000A, SDS6000A, SDS5000A, SDS3000X HD)						
Sequence	Yes	Yes	Yes	Yes	Yes	Yes	Yes
History	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Math traces	4	4	4	2	4	2	2
FFT points	32 Mpts	8 Mpts	8 Mpts	2 Mpts	4 Mpts	2 Mpts	2 Mpts
Search and Navigate	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DVM	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Counter	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Histogram	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bode plot	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power analysis	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Eye/Jitter analysis	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Compliance Test	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Digital channels	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AWG	50 MHz	25 MHz	25 MHz	25 MHz	50 MHz	25 MHz	50 MHz
Zone Trigger	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Webserver	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HDMI output	Yes	Yes	Yes				
Porbe Adapters	Yes	Yes	Yes	Yes	Yes		
Screen	15.6” touch	12.1” touch	None	10.1” touch	10.1” touch	10.1” touch	10.1” touch

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Oscilloscope

SDS2000X-E, SDS1000X HD, SDS800X HD, SDS1000X-E, SDS1104X-U, SDS1000CML+

	SDS2000X-E	SDS1000X HD	SDS800X HD	SDS1000X-E	SDS1104X-U	SDS1000CML+
Bandwidth	200 MHz ~ 350 MHz	100 MHz ~200 MHz	70 MHz ~200 MHz	350 MHz ~ 1 GHz	350 MHz ~ 1 GHz	200 MHz ~ 350 MHz
Sample rate	2 GSa/s	2 GSa/s	2 GSa/s	5 GSa/s	4 GSa/s	2 GSa/s
Analog channel	2	2/4	2/4	4	4	4
Memory depth	28 Mpts	100 Mpts	100/50 Mpts	250 Mpts	400 Mpts	200 Mpts
Waveform update Rate	400,000 wfm/s	500,000 wfm/s	500,000 wfm/s	500,000 wfm/s	890,000 wfm/s	500,000 wfm/s
Protocol analysis	I2C, SPI, UART, CAN, LIN	I2C, SPI, UART, CAN, LIN, CAN FD(Decode Only), FlexRay(Decode Only)	I2C, SPI, UART, CAN, LIN			
Sequence	Yes	Yes	Yes	Yes	Yes	
History	Yes	Yes	Yes	Yes	Yes	
Math traces	1	4	4	1	1	1
FFT points	1 Mpts	2 Mpts	2 Mpts	1 Mpts	128 kpts	
Search and Navigate	Yes	Yes	Yes	Yes	Yes	
DVM						
Counter		Yes	Yes			
Histogram						
Bode plot	Yes	Yes	Yes	Yes		
Power analysis		Yes	Yes			
Eye/Jitter analysis						
Digital channels	Yes	Yes	Yes	Yes		
AWG	25 MHz	25 MHz	25 MHz	25 MHz		
Zone Trigger						
Webserver	Yes	Yes	Yes	Yes		
HDMI output						
Porbe Adapters						
Screen	7″ LCD	10.1″ touch	7″ touch	7″ LCD	7″ LCD	7″ LCD

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Arbitrary Waveform Generator

SDG7000A, SDG6000X, SDG2000X, SDG1000X Plus, SDG1000X, SDG800

	SDG7000A	SDG6000X	SDG2000X	SDG1000X Plus	SDG1000X	SDG800
Bandwidth	350/500 MHz, 1 GHz	200/300/500 MHz	40/80/120 MHz	25/30/60 MHz	30/60 MHz	5/10/30 MHz
Number of channels	2 Differential/ Single-ended	2 Single-ended	2 Single-ended	2 Single-ended	2 Single-ended	1 Single-ended
Output range	± 24 V (48 V)	±10V	±10V	±10V	±10V	±10V
Digital bus(Optional)	16-bit, LVTTL or LVDS output Bit rate1μbps ~ 1 Gbps					
Sampling rate	5 GSa/s	2.4 GSa/s (2X Interpolation)	1.2 GSa/s (4X Interpolation)	1 GSa/s (4X Interpolation)	150 MSa/s	125MSa/s
Vertical resolution	14-bit	16-bit	16-bit	16-bit	14-bit	14-bit
Arbitrary waveform length	24 pts ~ 512 Mpts/ch	2 ~ 20 Mpts	8 ~ 8 Mpts	8 Mpts/CH	16 kpts	16 kpts
Modulation types	AM, FM, PM, PWM, FSK, PSK, ASK, QAM	AM,FM,PM,ASK,FSK, PSK,PWM, QAM	AM,FM,PM,ASK, FSK,PSK,PWM	AM, DSB-AM, FM, PM, FSK, ASK, PSK, PWM	AM, DSB-AM, FM,PM, FSK, ASK, PSK, PWM	AM, DSB-AM, FM, PM, FSK, ASK, PWM
Harmonic output	16	10	10	16	16	
Sweep & Burst	Yes	Yes	Yes	Yes	Yes	Yes
IQ Signal Generator	Yes	Yes				
PRBS Generator	Yes	Yes		Yes		
Display	5" touch screen , 800*480	4.3" touch screen, 480*272	4.3" touch screen, 480*272	4.3" LCD, 480*272	4.3" LCD, 480*272	3.5" LCD, 320*240

Power Supply

	SPS6000X	SPS5000	SPD4000X	SPD3000X	SPD3303C	SPD1000X
Output Channel	1	1/2/3	4	3	3	1
Max. Voltage	100/200 V	40/50/80/160 V	15/30/32 V	32 V	32 V	16/30 V
Max. Current	25/50 A	7.5/15/22.5/30/45/60/90 A	3.2/6/10 A	3.2 A	3.2 A	5/ 8 A
Max. Power	1500 W	180/360/720/1080 W	240/285/400 W	220 W	220 W	128/150 W
Resolution	10	1 mV/1 mA	1 mV/1 mA	1 mV/1 mA	10 mV/10 mA	1 mV / 1 mA
Screen	3.12-inch OLED	2.4" OLED	4.3" LCD	4.3" LCD	LED	2.8" LCD

DC Electronic Load

	SDL1020X	SDL1020X-E	SDL1030X	SDL1030X-E
Min. readback resolution	0.1 mV, 0.1 mA	1 mV, 1 mA	0.1 mV, 0.1 mA	1 mV, 1 mA
Input power	200 W		300 W	
Input current	30 A			
Input voltage	150 V			
CC Dynamic mode frequency	25 kHz			
Current slew rate	0.001 A/us~2.5 A/us			
Display	3.5 inch TFT-LCD display			

Digital Multimeter

	SDM3045X	SDM3055	SDM3065X
Reading resolution	4 1/2	5 1/2	6 1/2
DC voltage	600 mV ~ 1000 V	200 mV ~ 1000 V	200 mV ~ 1000 V
AC voltage	600 mV ~ 750 V	200 mV ~ 750 V	200 mV ~ 750 V
DC current	600 μA ~ 10 A	200 μA ~ 10 A	200 μA ~ 10 A
AC current	60 mA ~ 10 A	20 mA ~ 10 A	200 μA ~ 10 A
Scanner card	Not support	Support	Support
Display	4.3" TFT-LCD, 480*272		

HIKMICRO THERMAL CAMERA

Thermal Imaging Camera For Smartphone Mini 2 Plus V2

IR Resolution: 256 × 192 (49,152 pixels)
NETD: < 40 mK (@ 25 °C, F#=1.0)
Image Frequency: 25 Hz
Field of View (FOV): 25° × 18.8°
Min. Focus Distance: 0.1 m (0.33 ft)
Focus Mode: Manual Focus
Object Temperature Range:
-20°C to 400°C(-4°F to 752°F)
Protection Level: IP40
Working Temperature Range:
-10°C to 50°C (14°F to 122°F)

Thermal Imaging Camera For Smartphone Mini 3

IR Resolution: 384× 288 (110,592 pixels)
NETD: ≤35 mK (@ 25 °C, F#=1.0)
Image Frequency: 25Hz/50Hz (Need 8 GB RAM on the mobile devices or more if you want to enable 50Hz)
Field of View (FOV): 26° × 19°
Min. Focus Distance: 0.3 m (0.98 ft)
Focus Mode: Manual Focus
Object Temperature Range:
-20°C to 650°C(-4°F to 1202°F)
Protection Level: IP40

Thermal Imager Wireless Dual Camera Mini X

IR Resolution: 256 × 192 (49, 152 pixels)
NETD: < 40 mK (@ 25 °C, F#=1.0)
Image Frequency: 25 Hz
Field of View (FOV): 37.2° × 50.0°
Min. Focus Distance: 0.05 m (0.164 ft)
Focus Mode: Manual Focus
Object Temperature Range:
-20°C to 550°C(-4°F to 1022°F)
Accuracy: Max (±2°C/3.6°F, ±2%), for the ambient temp. 15°C to 35°C (59°F to 95°F) and object temp. above 0°C (32°F)

Pocket Thermal Camera Pocket2

IR Resolution: 256 × 192 (49, 152 pixels)
NETD: < 40 mK (@ 25 °C, F#=1.0)
Image Frequency: 25 Hz
Field of View (FOV): 50° × 37.2°
Min. Focus Distance: 0.3 m (0.98 ft)
Focus Mode: Focus Free
Object Temperature Range:
-20°C to 400°C (-4°F to 752°F)
Protection Level: IP54
Display: 640 × 480 Resolution, 3.5" LCD Touch Screen with auto-rotation

Pocket Thermal Camera Pocket E

IR Resolution: 96 × 96 (9, 216 pixels)
NETD: < 50 mK (@ 25 °C, F#=1.0)
Image Frequency: 25 Hz
Field of View (FOV): 50° × 50°
Min. Focus Distance: 0.1 m (0.33 ft)
Focus Mode: Focus Free
Object Temperature Range:
-20°C to 350°C (-4°F to 662°F)
Display:
320 × 240 Resolution, 3.5" LCD Touch Screen
Protection Level : IP54

Handheld Thermal Camera B20S

IR Resolution: 256 × 192 (49,152 pixels)
NETD: < 40 mK (@ 25 °C, F#=1.0)
Image Frequency: 25 Hz
Field of View (FOV): 37.2° × 50.0°
Min. Focus Distance: 0.3 m (0.98 ft)
Focus Mode: Focus Free
Object Temperature Range:
-20°C to 550°C (-4°F to 1022°F)
Visual Camera: 1600 × 1200 (2 MP)
Display: 480 × 640 Resolution, 3.2" LCD Screen
Protection Level: IP54

Firefighting Thermal Camera FT31

IR Resolution: 384 x 288 (110,592 pixels)
NETD: <30 mK (@ 25°C, F#=1.0)
Image Frequency: 60 Hz
Field of View (FOV): 54.1°× 40.2°
Min. Focus Distance: 1 m (3.28 ft)
Focus Mode: Focus Free
Object Temperature Range:
-20°C to 1200°C (-4°F to 2192°F)
Display: 800 × 480 Resolution, 4.3" LCD Screen
Digital Zoom: 1x, 2x, 4x
Protection Level: IP67, IEC 60529

Compact Intrinsically Safe Thermal Camera BX20

IR Resolution: 256 × 192 (49,152 pixels)
NETD: < 40 mK (@ 25 °C, F#=1.0)
Image Frequency: 25 Hz
Field of View (FOV): 37.2° × 50.0°
Min. Focus Distance: 0.3 m (0.98 ft)
Focus Mode: Focus Free
Object Temperature Range:
-20°C to 550°C (-4°F to 1022°F)
Visual Camera: 1600 × 1200 (2 MP)
Display: 240 × 320 Resolution, 3.2"LCD Screen
Protection Level: IP64

Thermal Monocular CQ50L

Max. Resolution: 640 × 512
Frame Rate: 50 Hz
NETD: Less than 20 mK (@25°C), F# = 1.0
Focus Mode: Focus Ring
Detection Range: 2600 m
Min. Focusing Distance: 5 m
Magnification: 3.0× to 24.0× (8×)
Field of View(H × V), Degrees / m @100 m:
8.7° × 7.0°/15.2 m × 12.2 m@100 m
Display: 1024 × 768, 0.39 inch, OLED
Protection Level: IP67

Thermal Image Scope Thunder TQ50 2.0

Max Resolution: 640 × 512
NETD: Less than 20 mK (25°C. F#=1.0)
Frame Rate: 50 Hz
Pixel Interval: 12 μm
Min. Focusing Distance: 10 m
Detection Range: 2600 m
Magnification: 2.6×
Field of View(H × V), Degrees / m @100 m:
8.78° × 7.03° × / 15.36 m x 12.29 m
Display: 1024 × 768, 0.39 inch, OLED
Protection Level: IP67

HIKMICRO THERMAL CAMERA

Acoustic Imaging Camera AI56

Number of Microphones: 64
Acoustic Image Resolution: 800 × 480
Bandwidth: 0 kHz to 96 kHz, adjustable range
MEMS sampling frequency: 192 kHz
Distance: 0.3m~150m
Camera FOV: 50.2°× 35.4°
Acoustic Image Frame Rate: 25 fps
Discharge Detection: Automatic detection 50/60 Hz
Discharge Type: Corona Discharge, Particle Discharge, Floating Discharge, Surface Discharge
Protection level: IP54

Acoustic Imaging Camera AI76

Number of Microphones: 136
Acoustic Image Resolution: 800 × 480
Bandwidth: 0 kHz to 96 kHz, adjustable range
MEMS sampling frequency: 192 kHz
Distance: 0.3m~150m
Camera FOV: 50.2°× 35.4°
Acoustic Image Frame Rate: 25 fps
Discharge Detection: Automatic detection 50/60 Hz
Discharge Type: Corona Discharge, Particle Discharge, Floating Discharge, Surface Discharge
Protection level: IP54

Handheld Thermal Camera SP40

IR Resolution: 480 × 360 (172,800 pixels)
SuperIR: 960 x 720 (691,200 pixels)
NETD: < 30 mK (@ 30 °C, F#=1.0)
Image Frequency: 30 Hz
Focal Length: L6: 77.4 mm; L9: 51.4 mm; L19: 25.6 mm; L37: 12.6 mm
Field of View (FOV): L6: 6° × 4.5°; L9: 9° × 6.8°; L19: 18.7° × 14°; L37: 37.3° × 27.8°
Visual Camera: 3264 × 2448 (8 MP)
Accuracy: Max. (± 2°C/3.6°F, ± 2%)
Protection Level: IP54, IEC 60529

Handheld Thermal Camera SP60

IR Resolution: 640 × 480 (307,200 pixels)
SuperIR: 1280 x 960 (1,228,800 pixels)
NETD: < 30 mK (@ 30 °C, F#=1.0)
Image Frequency: 30 Hz
Focal Length: L8: 77.4 mm; L12: 51.4 mm; L25: 25.6 mm; L50: 12.6 mm
Field of View (FOV): L8: 8° × 6°; L12: 12° × 9°; L25: 24.5° × 18.4°; L50: 50° × 37.3°
Visual Camera: 3264 × 2448 (8 MP)
Accuracy: Max. (± 2°C/3.6°F, ± 2%)
Protection Level: IP54, IEC 60529

Handheld Thermal Camera G61

IR Resolution: 640 x 480 (307,200 pixels)
SuperIR: 1280 x 960 (1,228,800 pixels)
NETD: < 35 mK (@ 25 °C, F#=1.0)
Image Frequency: 50 Hz
Field of View (FOV): 25° × 19°
Focus Mode: Laser Assisted AF/Continuous AF/AF/Manual Focus/Touch AF
Object Temperature Range:
-20 °C to 650 °C (-4 °F to 1202 °F)
Accuracy: Max (±2°C/3.6°F, ±2%)
Protection Level: IP54, IEC 60529

Handheld Thermal Camera G61H

IR Resolution: 640 x 480 (307,200 pixels)
SuperIR: 1280 x 960 (1,228,800 pixels)
NETD: < 35 mK (@ 25 °C, F#=1.0)
Image Frequency: 50 Hz
Field of View (FOV): 25° × 19°
Focus Mode: Laser Assisted AF/Continuous AF/AF/Manual Focus/Touch AF
Object Temperature Range:
-20 °C to 2000 °C (-4 °F to 3632 °F)
Accuracy: Max (±2°C/3.6°F, ±2%)
Protection Level: IP54, IEC 60529

Handheld Thermal Camera M31

IR Resolution: 384 x 288 (110,592 pixels)
SuperIR: 768 x 576 (442,368 pixels)
NETD: < 30mK (@ 25 °C, F#=1.0)
Image Frequency: 50Hz
Field of View (FOV): 41.1°×30.5°
Focus Mode: Manual Focus
Object Temperature Range:
-20 °C to 650 °C (-4 °F to 1202 °F)
Working Temperature Range:
-20°C to 50°C (-4°F to 122°F)
Protection Level: IP54

Handheld Thermal Camera M60

IR Resolution: 640 x 480 (307,200 pixels)
SuperIR: 1280 x 960 (1,228,800 pixels)
NETD: < 35 mK (@ 25 °C, F#=1.0)
Image Frequency: 30 Hz
Field of View (FOV): 41.9° × 33.3°
Focus Mode: Manual Focus
Object Temperature Range:
-20 °C to 650 °C (-4 °F to 1202 °F)
Working Temperature Range:
-20°C to 50°C (-4°F to 122°F)
Protection Level: IP54

Thermal Monocular TQ50C 3.0

Max Resolution: 640 × 512
NETD: Less than 15 mK (@25 °C, F# = 1.0)
Frame Rate: 50 Hz
Pixel Interval: 12 μm
Min. Focusing Distance: 10 m
Magnification: 1×
Focus Mode: Focus Knob
Field of View(H × V),Degrees / m @100m:
8.8° × 7.0°/15.4 m × 12.3 m
Display: 1920 × 1080, 0.49 inch, OLED
Protection Level: IP67

Thermal Binocular RQ50L

Max Resolution: 640 × 512
NETD: < 20 mK (@ 25°C, F#=1.0)
Frame Rate: 25 Hz
Pixel Interval: 12 μm
Min. Focusing Distance: 5 m
Magnification: 3.4×
Focus Mode: Manual
Field of View(H × V),Degrees / m @100m:
8.8° × 7.0°(H × V)/15.4 m × 12.2 m
Display: 0.49 inch, OLED, 1024 × 768
Protection Level: IP67






Skyray

Explorer Handheld XRF Alloy Analyzer & Handheld Mineral Ore Analyzer

EXPLORER 5000 | EXPLORER 7000 | EXPLORER 8000

Easy Operation

- Lightweight and ergonomic design is more convenient to use in the field, heavy duty travel case ensures safe transportation of the instrument
- 5 inch high-definition screen with 360 degree rotation displays results clearly at low visibility conditions
- Waterproof and dustproof design, Explorer XRF can be used in harsh environments.
- Avoid sample preparation and directly measure raw materials in the field or in the lab with Portable table stand.
- Rapid nondestructive detection and quick measurement with results within two seconds. With performance similar to most benchtop XRF Models, Explorer XRF sets a new standard for Handheld XRF Analyzers
- Fast analysis of Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Ga, Ge, Zr, Nb, Mo, Ru, Rh, Pd, Ag, In, Sn, Sb, Hf, Ta, W, Re, Pt, Au, Pb, Bi, Mg, Al, Si, P, S. Other elements can be easily added as per customers application
- Detect the light elements without helium gas

Higher Configuration

- Benchtop XRF acuracy is possible thanks to four core components: Miniature X-ray tube, SDD or optional Fast-SDD detector, digital signal processor and multichannel intelligent analysis module
- Skyray patented digital multi-channel technology features up to 500K CPS(spectral counts per second)
- Automatic collimators and filters make Explorer able to analyze different applications and ensure Explorer can meet many testing requirements
- Users can observe samples position at any time thanks to built-in 5 mega-pixels HD camera

Instrument introduction

EXPLORER7000 is the latest hand held XRF from Skyray based on the 20 years experience on the research and development of XRF spectrometer. It is specially designed for the minerals exploration and onsite test of various kinds of minerals.

EXPLORER 5000 can make accurate and nondestructive detection on a variety of precious metal alloys, low alloy steel, stainless steel, tool steel, chrome / molybdenum steel, nickel alloys, cobalt alloys, nickel / cobalt-resistant alloys, titanium, copper alloy, bronze, zinc alloy, tungsten alloy, etc. You can identify material composition and alloy grade in two seconds. Rapid detection on aluminum and magnesium alloy grades allows to make reliable identification and confirmation of the material (PMI) for quick and reliable Quality Control.

Applications fields:

EXPLORER 8000 : Precious metal alloy, Steel smelting, Waste metal recycling, Machinery manufacturing and processing, Boiler pressure vessel, Aerospace industry, Shipbuilding

EXPLORER 7000 : Minerals exploration and onsite test of various kinds of minerals.

EXPLORER 5000 : Positive Material Identification (PMI), Precious metal alloy, Iron and steel smelting, Aerospace industry, Boiler pressure vessel, Machinery manufacturing and processing, Waste metal recycling

Skyray

FLAME AND GRAPHITE FURNACE ATOMIC ABSORPTION SPECTROMETER

AAS 9000

Applications fields:

- Geology, minerals, metallurgy, steel, non-ferrous metals
- Environmental analysis: air, water quality, soil and solid waste
- Petrochemical industry and light industrial products, crude oil and additional products
- Food, biomedicine and health products
- Building materials (glass, ceramic, paints, etc.)

Auto-sampler

Disc type universal auto-sampler with 150 cup positions
Polar coordinates disc type auto-sampler, with high positioning accuracy, stable operationand easy maintenance (manual sampling for AAS8000-M and AAS9000-M, no auto-sampler supplied)

Flame System

1. Pure Ti atomizing chamber and burner Prevent acid gas corrosion effectively and maximize service life
2. Efficient glass nebulizer Efficient glass nebulizer with higher nebulization efficiency, easy to maintain and replace
3. Mass flow controller makes the flow of C2H2 controllable Control C2H2 flow adjustable, monitoring the flow dynamically, ensuring it to be convenient and safe.
4. Multiple safety protection measures, ensuring the reliability of the sample analysis:
   (1)C2H2 leaking preventive measure | (2)C2H2 pressure monitoring | (3)Air pressure monitoring | (4)Burner monitoring | (5)Flaming burning monitoring | (6)Water seal monitoring

Graphite Furnace System

1. Internal power supply The power supply of graphite furnace and host machine are incorporated in one instrument, which makes it more compact, shortens cable length, reduces the electromagnetic interference of graphite furnace power supply and improves heating efficiency of graphite tube.
2. High temperature control precision, quick temperature rise Large power transformer, micro resistance cable and light control heating mode are used, combined with software and hardware temperature calibration systems, ensuring ±1% control precision under high temperature
3. Multiple safety protection measures, ensuring the reliability of the sample analysis
   1)Cooling water flow monitoring | 2)Carrier gas pressure monitoring | 3)Graphite tube temperature monitoring | 4)Graphite furnace temperature monitoring
4. Carrier gas flow auto-control The internal and external gas of graphite furnace are automatically controlled by computer based on software heating procedures.

Skyray

PORTABLE X-RAY FLUORESCENCE SPECTROMETER

Cube 100

Rapid and accurate XRF Analysis in the lab or on-site with Cube 100 XRF

Skyray Instruments Cube 100 X-Ray Fluorescence Spectrometer combines Desktop XRF Spectrometer performance and accuracy with a convinient portable design. Cube 100 features large high-resolution LCD and new digital signal processor. Small, lightweight and portable, Cube 100 XRF offers fast and reliable elemental analysis on the factory floor or in the field.

Applications fields:

Jewelry factories, Jewelry shops, Pawnshops, Banks, Gold testing labs or fire assay labs, Refiners who buy and sell gold, Precious metals, RoHS Hazardous substances, Analysis of Sulfur-Uranium(S-U)

Multi-functional:

Besides the gold, the non precious metals, such as Ni,Cu and Zn which are frequently used in the jewelries can also be simultaneously tested by our XRF.

Specification:

- Measurable elements: K to U | ● Measurable range: ppm to 99.99% | ● Sample type: Solid and liquid
- Analysis accuracy: 0.05% (content ≥96%) | ● Ambient temperature: 15ºC-30ºC | ● Operation humidity: ≤70%
- Power supply: AC 220V/110V/Battery | ● Sample chamber size: 15*15*10cm | ● Instrument dimension: 22*26*26cm
- Net weight: 4.8Kg | ● Simultaneous test of more than 24 elements | ● Multi-optional analysis and identification models

Configurations:

- Detector: Si Pin detector/SDD detector Optional | ● X-ray tube: 40kV,100uA | ● Collimator: Auto switch of Φ1mm,Φ2mm & Φ4mm | ● Filter types: Al, Ti, Cu
- PDA: High definition & resolution 5 inch PDA. | ● Light indications: Power and radiation lights. | ● Protection system: High voltage auto switch-off while cover is open
- Carryring Case: Carrying case with wheels for easy transportation

Skyray

SEQUENTIAL INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETER & INDUCTIVELY COUPLED PLASMA OPTICAL EMISSION SPECTROMETER

ICP 2060T

ICP 2060T Sequential Inductively Coupled Plasma Emission Spectrometer is designed to measure major, minor and trace elements in various samples with excellent analytical precision and accuracy. ICP2060 has wide wavelength range of 190nm to 800nm with 2400 line grating. The instrument feature high optical resolution, full automation, Solid State RF system as well as powerful analysis software with auto-matching.

Application fields:

Food and agricultural industries, Pharmaceuticaland medical industries, Biological and chemical industries, Petrochemical and metallurgic industries, Others: environmental, semi-conductor, criminal science and general research

Features:

- Elements ranges: it is able to analysis Over 70 elements | ● Fast analysis: 5-8 elements per minute
- Excellent detection limits:at ppb level for most elements | ● Wide linear dynamic range:reaching 6 orders of magnitude, from ppb to percentage | ● Lower gas consumption:Each argon gas cylinder can be used for 8 hours
- Wide wavelength range: 190nm to 500nm with 3600 line grating, 190nm to 800nm with 2400 line grating
- Computer controlled plasma platform optimizes the viewing position to reduce interferences,improve SNR and minimize background emissions | ● 27.12 MHz RF generator delivers unsurpassed performance

ICP-3000

ICP-3000 Inductively Coupled Plasma Optical Emission Spectrometer is powerful simultaneous full—spectrum direct-reading spectrometer designed to trace elemental analysis in various samples with excellent analytical precision and accuracy. ICP2060 has wide wavelength range of 190nm to 800nm with 2400 line grating. The instrument features superb optical system, full automation as well as powerful analysis software with auto-matching.

Application fields:

- Metallurgical industry: analyze As, Bi, Pb, Sb, Sn and other elements
- Geological mineral industry: analyze Ca, Mg, Na, Fe, Cu, Mn, Zn, Co, Ni, Au, Ag and other elements in the rock samples
- Biological and chemical industries
- Petrochemical and metallurgic industries: Analysis of 30+ elements in crude oils- Fe, Na, Mg, Ni, V, Ca, Pb, Mo, Mn, Cr, Co, Ba, As, etc.
- Pharmaceutical, Health and Food safety

Features:

- Advanced CID detector and Full-frame Imaging entire ICP-OES spectrum can be analyzed(165-900 nm)
- Fast analysis, analyzing 5-8 elements per minute
- Intuitive Software controls all parts of the instrument
- Fast auto-matching
- Automatic cooling water system

Portable Water Quality Analyzer - Heavy Metals

HM-3000P

● Measurable Elements: Cu, Cd, Pb, Zn, Hg, As, Cr, Ni, Mn, and Tl, etc | ● Precision: up to 1ppb | ● IP67 dustproof and waterproof level
● Test Time: 30 Seconds-5 minutes | ● Battery Life: 100 times of continuous testing or 10 hous

HM-5000P

● Measurable Elements:Cu, Cd, Pb, Zn, Hg, As, Tl, Mn, Cr, Ni, Fe, Sb, etc | ● Precision: up to 0.1ppb
● IP67 dustproof and waterproof level | ● Test Time: 30 Seconds-5 minutes | ● Battery Life: 100 times of continuous testing or 10 hous

Application fields:

HM-3000P

● On-site application in urgent cases (For instance, on-site testing of water pollution) | ● Precise heavy metals detection in labs
● Water quality monitoring to surface water, underground water, seawater, industrial wastewater, drinking water and another waters
● Heavy metals testing in soil, food, and other waste solids (analytes should be extracted from solids before testing)

HM-5000P

● Portable, applicable for on-site emergency detection, e.g. water environmental pollution emergency monitoring | ● Laboratory heavy metal detection and analysis | ● Surface water, ground water, sea water, industrial waste water, drinking water and other environmental water monitoring
● Widely used in the detection of the heavy metal content in the soil, solid waste and other solid substances (by extracting)

GC-MS 6800 Gas Chromatograph Mass Spectrometer

Application fields:

● Industrial: textile, electronics, plastics & cosmetics | ● Petrochemical industry: refinery, chemical plants
● Food safety: pesticides, fragrances, additives & food packaging | ● Public security: explosives, drugs & evidence
● Environmental protection: air, water, soil and waste | ● Pharmaceutical industry: pharmaceutical and drugs

GC Specification:

● Inlet temperature: Max. 450ºC | ● Pressure range: 0-100psi,±0.002psi | ● Heating rate: Up to 120ºC/min
● Pressure control mode: Electronic pressure control (EPC), support CV and CC
● Split mode: Split/splitless, max. split ratio: 1000:1 | ● Column oven working temperature: Room temperature+4ºC~450ºC | ● Temperature programming: 7 stages/ 8 platforms | ● Auto Sampler: Optional

MS specification:

● EI source ionization energy: 5 eV ---250 eV (Adjustable) | ● Mass range: 1.5- 1000amu | ● Resolution: Unit resolution (full width at half maximum) | ● stability: ±0.10 amu/48 hrs
● Ion source temperature: 100-350ºC | ● Filament emission current: 0-350 μA | ● GC-MS Interface Temperature: Max. 450ºC | ● Detector: High-energy dynode electron multiplier
● Sensitivity: Full scan, 1pg OFN at m/z 272 with S/N ≥30:1 (RMS) | ● Scan rate: Up to 10000 amu/s | ● Vacuum: Turbo molecular pump(67 L/s)

EDX6000C New Generation Energy-Dispersive Spectrometer

Application fields:

● Analysis of harmful elements for RoHS, ELV, toy safety, footwear leather, and similar applications | ● Elemental analysis for environmental soil, solid waste, soil remediation, etc.| ● Geological and mineral product analysis | ● Composition analysis of alloys (copper, stainless steel, etc.) | ● Measurement of metal coating thickness, determination of plating solution and coating content | ● Detection of precious metals such as gold, platinum, silver, and various types of jewelry | ● Analysis of petroleum and chemical product content | ● Elemental analysis in building materials industry (cement, refractory materials, glass, etc.)
● Determination of beneficial and harmful elements in feeds, fertilizers, etc. | ● Other inorganic elemental analysis industries

Instrument Parameters

● Elemental Analysis Range: Fluorine (F) to Uranium (U) | ● Analytical Detection Limit: As low as 0.2 ppm (for light matrices)
● Analytical Range: ppm to 99.99% | ● Sample Introduction System: 9 sample chambers (with cup rotation), 12 sample chambers + single chamber, 20 sample chambers + single chamber (optional), controlled by PLC | ● Analytical Accuracy: <0.05% (RSD value for multiple repeated measurements of main elements in samples with a content >96%) | ● Detector Energy Resolution: SDD detector, ≤129eV | ● Excitation Source: Tube voltage 5~50kV, tube current 0~1000uA

OES 8000S Direct-reading Optical Emission Spectrometer

Application fields:

Widely used in content measurement of metal elements, such as in industries of metal smelting, casting, and processing, or in mechanical industries where element testing is a traditional item during research and development, production control, quality inspection, etc.
It is most optimized for analyzing Fe-based, Cu-based, Al-based, Ti-based, Pb-based, Mg-based, Co-based materials.

Instrument Parameters

● Full spectrum technology for convenient configuration of more matrices and elements by customers | ● The instrument requires no big laboratory space due to its small size. | ● All-weather working, with excellent stability and reliability
● High test speed, with single test in less than 40 seconds | ● Easy to use and maintain, and low requirements for operators' qualifications | ● Original factory program, which delivers accurate test data and has a complete alloy grades library;
● Standard samples are provided for periodic calibration of instruments | ● The test process is safe and environmental-friendly, as chemical reagents are not used.

Thick800A XRF Plating Thickness Analyzer

Application fields:

● Content measurement of gold, platinum, silver and various jewelries
● Thickness measurement of metal coating, content analysis of electroplating solution and coating
● Precious metal processing, jewelry processing; banks, jewelry sales and testing, etc

Technical Specifications

● Measurable elements: Sulfur (S) - Uranium (U) | ● Plating Thickness: up to 20um | ● Repeatability: 0.1%
● Stability: 0.1% | ● Energy Resolution: 135eV | ● Work Temperature: 15°C -30°C

Product Features:

● Meeting test requirements of samples in different thicknesses and shapes | ● The Φ0.1mm collimator facilitates the measurement of small test point. | ● Highly precise mobile platform positions test point accurately, with repeatability less than 0.005mm | ● The height positioning laser positions test height automatically. | ● The positioning laser produces a light spot, and the test point should be aligned with this spot. | ● The testing tip is protected by a height-sensitive sensor.

Skyray

Flame Atomic Absorption Spectrometer
AAS 6000

Application fields:

● Geology, minerals, metallurgy, steel, non-ferrous metals | ● Environmental analysis: air, water quality, soil and solid waste
● Petrochemical industry and light industrial products, crude oil and additional products

Specification:

● Optical system: all-reflective single-beam CT optical path |● Blazed wavelength of gratings: 230nm
● Focal length of monochromator: 350mm, oil/water proof air compressor |● Number of grating grooves: 1800g /mm
● Wavelength range: 190nm-900nm |● Wavelength accuracy: ±0.1nm |● Wavelength repeatability: ±0.1nm
● Noise: 0.005 Abs(static); 0.006 Abs(Dynamic) |● Baseline drift: 0.003 Abs/0.5h; best performance
● Background correction:D2 lamp + self reversal |● Number of the lamps: 8
● Number of preload lamps: software controlled, ≤8 |● Gas path safety measures: yes
● Atomizer: flame atomizer |● Automation: lamp / slit / wavelength / gas path / ignition / burner / safety measures / C2H2 monitoring

Liquid Chromatograph Mass Spectrometer
LC-MS 2000

Application fields:

● Biopharmaceutical: Synthetic drug detection(including CRO organic synthesis and biopeptide synthesis) and the detection of API(including synthetic API and traditional Chinese Medicine).
● Detection for RoHS and REACH: Super-fast screening of PAEs, PAHs, bisphenol A,PBBs and PBDEs.
● Industrial Analysis: Production quality control of synthetic intermediate and finished products.
● Environmental Monitoring: Monitoring and analysis of environmental pollutants.
● Food Safety: Detection of food additives, food residues, pollutants,illegal additives, etc.

GC Specification:

● Inlet temperature: Max. 450ºC | ● Pressure range: 0-100psi,±0.002psi | ● Heating rate: Up to 120ºC/min
● Pressure control mode: Electronic pressure control (EPC), support CV and CC
● Split mode: Split/splitless, max. split ratio: 1000:1 | ● Column oven working temperature: Room temperature+4ºC~450ºC
● Temperature programming: 7 stages/ 8 platforms | ● Auto Sampler: Optional

Inductively Coupled Plasma Mass Spectrometer
ICP-MS 2000

Application fields:

● Environmental: drinking water, seawater, food, hygiene and disease control, goods inspection
● Semiconductor: metals, reagents, Si chips, photoresists
● Pharmaceutical: medical research on hair, blood, serum, urine sample, biological tissues, Lead testing in blood
● Nuclear: nuclear fuel radioisotope, cooling water pollution
● Others: chemical, and petrochemical industries, geology

Technical Specifications

● Mass Range: 2-255 amu |● Dynamic (Linear) Range: >10^8
● Sensitivity(cps/mg/L): Be> 5x10^9 In> 60x10^6 U>60x10^6
● Limit of Detection(ng/L): Be <5; In <0.5; U <0.5
● Resolution(amu): 0.6-0.8 |● SNR(Signal to Noise Ratio): > 50x10^9
● Background: <2 cps (full mass range) |● Variance: <0.05 amu/24h
● Stability (RSD): short term <2% ; long term <3%
● Sample Chamber: Modular sample introduction system with externally, mounted atomizer and optional autosampler

X-ray Fluorescence Spectrometer
EDX2800B

Application fields:

● RoHS testing |● Mining and alloy (Cu, stainiess steel and so on) componential analysis
● Measurement of plating thickness,measurement of electroplate liquid and plating content
● The content test of precious metai such as gold, platinum and silver and different kinds of jeweiry
● Mainly applied in RoHS directive industries.precious metals and jewelries processing industies banks, jewelry shops and test institutes; electroplating industries

Technical Specifications

● Measurable elements: Sulfur (S) - Uranium (U) | ● Limits of Detection: 1 ppm
● Analysis Range: ppm up to 99.999% |● Ambient temperature: 15°C-30°C
● Repeatability: 0.1% |● Energy Resolution: 160±5eV
● Power: AC 220V ± 5V or AC 110V ± 5V. AC purified voltage power supply
● Sample chamber size: 44cm x 30cm x 5cm

Features

● Specifically developed for RoHS testing: Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent Chromium and other hazardous elements
● Automatic collimators and filters |● Built-in SNE (Signal to Noise Enhancer)
● Intelligent RoHS analytical software |●Optional Plating-thickness analysis software
● Variable non-linear regression

HZ-IV Transformer Winding Low Voltage LV Short Circuit Impedance Tester

- Scope of voltage measurement: 5~400V
- Scope of current measurement: 0.1~20A
- Accuracy of measurement: 0.2d
- Operating power: AC220V±10%
- Operating temperature: -10°C~50°C
- Power frequency: 50Hz
- Ambient humidity: ≤85%RH

Transformer LV Short-circuit Impedance Tester applies to LV load impedance test during delivery, overhaul, trial test and handover test of power transformers (single phase or three-phase). It tests the short-circuit impedance (%) of power voltage on site and compares it with the value indicated on the nameplate or the factory default to find out any defects including but not limited to winding displacement or deformation due to currents from major failure during transformation, installation or operation following the delivery test.

Transformer Oil BDV Tester HZJQ-1B 100KV & HZJQ-1B 80KV

- Output voltage: 0~100KV (optional), 0~80KV (optional)
- Voltage distortion rate: <3% |• Voltage raising speed: 0.5~5 KV/S (adjustable) |• Standing time: 15min (adjustable)
- Boosting interval: 5 min (adjustable) |• Boosting frequency: 1~9time(s) (optional) |• Booster capacity: 1.5KVA
- Measuring accuracy: ±3% |• Supply voltage: AC220V±10% 50Hz±1 Hz |• Power: 200W |• Applicable temperature: 0°C~45°C |• Applicable humidity: <75%RH
- Applicable temperature: 0°C~45°C

Insulating Oil Dielectric Loss And Resistivity Tester HZJD-2Z

- **Measuring range:** Electric capacity: 5pF~200pF, Relative Permittivity: 1.000~30.000, Dielectric loss factor: 0.00001~100, DC Resistivity: 2.5MΩm~20TΩm
- **Measuring accuracy:** Electric capacity: ± (1% of measured value+0.5pF), Relative Permittivity: ±1% of measured value, Dielectric dissipation factor± (1% of measured value+0.0001), DC Resistivity: ±10% of measured value

Automatic Switch Tester Three Phase Loop Contact Resistance Tester HZ2363

- **Measurement range:** 100A (customized), 200A (customized), 300A (customized), 400A (customized), 500A (customized), 600A (customized), 10-5000A (Current customized 1, two-phase 2, three-phase)
- **Test range:** 0~19999mW expandable
- **Test precision:** 0.5%rdg±10dgt
- **Resolution:** 0.01mW
- **Working power:** AC 220V±10%, 50Hz±2%
- **Environment temperature:** -25°C ~50°C

Sweep Frequency Response Analysis Transformer Winding Deformation Tester HZ-600A

- Measuring speed: 1 minute to 2 minutes for single-phase winding |• Output voltage: Automatic adjustment during Vpp-25V test |• Output impedance: 50Ω
- Input impedance: 1MΩ (built-in 50Ω matching resistance in response channel) |• Sweep frequency range: 10Hz-2MHz |• Frequency accuracy: 0.001% |• Sweep mode: Linear or logarithmic, sweep interval and number of points can be set arbitrarily |• Curve display: Amplitude-frequency curve

Automatic Transformer Capacitance And Tan Delta Test Set HZ2000H

- Accuracy: Cx: ± (reading ×1%+1pF) |• tgδ: ± (reading ×1%+0.00040) |• Capacitance range: applied high voltage: 3pF~60000pF/10kV 60pF~1.2μF/0.5kV
- Applied high pressure: 3pF~1.5μF/10kV 60pF~30μF/0.5kV
- Resolution: up to 0.001pF, 4 significant digits
- Test current range: 10μA ~5A |• Tg delta range: no limit, resolution 0.001%, automatic identification of capacitor, inductor and resistor |• Internal application of high voltage: setting voltage range: 0.5~10kV

40kV VLF Cable High Voltage Test System HZDP-40KV

- Rated Voltage: 40kV (Peak Value)
- Load: 0.1Hz,≤1.1μF, 0.05Hz,≤2.2μF, 0.02Hz,≤5.5μF
- Fuse: 8A |• Advancedtechnology: digital frequency conversion technology,microcomputer control, pressure rise, pressure reduction, measurement, protection, etc |• Largetest range: 0.1Hz, 0.05Hz and 0.02hz multi frequency selection, largetest range.
- Thetest process is fully automated |• Easytooperate: simple wiring, fool operation.

Primary Current Injection Tester HZDL130

- Input voltage: AC220V ±10% |• Power: 5KVA
- Output voltage: series: AC0~500A(10V) parallel: AC0~1000A (5V) Stepless adjustable, panel with digital display ammeter |• Output voltage: (>10V)
- Current stability: 0.2% |• Structure and form: integrated
- Wiring mode: according to requirements
- Current stability: 0.2%
- protection Settings: over-current and over-voltage
- 0.001S-99999.999S

Circuit Breaker Analyzer HZC-3980

The Basic Parameters:

- Time: range: 20000.0ms resolution: 0.1ms, Dgt error: 200ms 0.1ms ± 1 dgt, 2000ms 0.1% ± 1 dgt, 20000ms 0.1% ± 1dgt
- Speed: span 20.00m / s resolution 0.01m/s, Dgt error: 0-2m / s within ± 0.1m / s ± 1 dgt, 100ms or ± 0.2m / s ± 1 dgt
- Current: 10.00A resolution range 0.01A
- Output power: DC30 ~ 250V digital adjustable / 10A

Variable Frequency Automatic Current Transformer CT PT Analyzer HZCT-100B

- **Voltage measurement accuracy:** ±0.1%
- **CT Ratio:** Range: 1~40000, Accuracy: ±0.05%
- **PT Ratio:** Range: 1~40000, Accuracy: ±0.05%
- **Phase:** Range: ±2min, Accuracy: 0.5min
- **DC resistance:** Range: 0~300Ω, Accuracy: 0.2%±2mΩ
- **Burden:** Range: 0~1000VA, Accuracy: 0.2%±0.02VA
- **Output:** 0~180Vrms,12Arms,36A(peak value)
- **Environmental Conditions:** Operating temperature: -10°C~50°C ,Humidity :≤90%

Single Phase Protection Relay Test Kit HZJB-D

AC Output: Range(A): 0~10, 0~40, 0~100
Range(V): 0~250(AC), 0~300(DC)
No-load Voltage (Minimum)V: 90,25,10,250,320
Full-load Voltage (Minimum)V: 80,22,<8, 240,250
Full-load Current (Maximum)A: 10,40,150,3,3
DC auxiliary Output: Range V: 0~110, 110~220
Voltage V: 120,220, Maximum current A: 0.5, 0.5
Stop watch: Range: 0.0000~999999S, Resolution: 0.1mS, Accuracy: ±5

Hydraulic Test Pressure Kit 700HTPK

Easy to use, rugged and reliable construction, capable of generating hydraulic pressure up to 10,000 psi/690 bar

Combine with one of the Fluke 700G Precision Pressure Gauges for a complete pressure testing and calibration solution

In addition, combine with the Fluke 700G/ TRACK Software to upload over 8,000 pressure measurements logged in the field to a PC

Intrinsically Safe True-rms Digital Multimeter 28 II EX

DC voltage:
Range : 0.1 mV to 1000 V
Accuracy : ±(0.05 % + 1)
AC voltage:
Range : 0.1 mV to 1000 V
Temperature:
Range : -200°C to +1090°C
(-328°F to +1994°F)
A completely sealed, IP67 rated case
Dustproof per IEC 60529 IP6x

GEO Earth Ground Tester 1625-2

Operating temperature:
-10°C to 50°C (14°F to 122°F)
Storage temperature :
-30°C to 60°C (-22°F to 140°F)
Temperature coefficient:
±0.1% of reading/°C < 18°C > 28°C
Type of protection: IP56 for case, IP40 for battery door according to EN60529
Safety: Protection by double and/or reinforced insulation. Max. 50 V to earth per IEC61010-1.
Pollution degree 2

Three-Phase Power Quality Loggers 1736

Voltage: 1000 V | 0.1 V | ±(0.2% + 0.01%)
Frequency:
42.5 Hz to 69 Hz | 0.01 Hz | ±(0.1%)
Auxillary input:
±10 V dc | 0.1 mV | ±(0.2% + 0.02%)
Voltage min/max:
1000 V I 0.1 V I ±(1% + 0.1%)
Voltage min/max: 1000 V | 0.1 V | ±(1% + 0.1%)
THD on voltage: 1000% | 0.1% | ±0.5
THD on current: 1000% | 0.1% | ±0.5
**Range I Resolution I Intrinsic Accuracy at Reference Conditions (% of Reading +% of Full Scale)*

Multifunction Process Calibrator 725

Ramp functions:
Source functions: Voltage, current, resistance, frequency, temperature
Ramps: Slow ramp, Fast ramp, 25% step-ramp
Loop power function:
Voltage: 24 V | Accuracy: 10%
Maximum current: 22 mA, short circuit protected
Step functions:
Source functions: Voltage, current, resistance, frequency, temperature
Steps: 25% of range, 100% of range

Installation Multifunction Tester 1663 SCH

AC voltage measurement
Range: 500 V
Resolution: 0.1 V
Accuracy 45 Hz – 66 Hz: 0.8% + 3
Input impedance: 360 kΩ
Overload protection: 660 V rms
Accuracy of Test Voltage (at rated test current): +10%, -0%
Continuity testing (RLO)
Range (autoranging) : 20 Ω / 200 Ω / 2000 Ω
Resolution: 0.01 Ω / 0.1 Ω / 1 Ω

Insulation Resistance Testers 1555 Kit

CAT III 1000 V, CAT IV 600 V safety rating
Selectable test voltages in 50 V steps from 250 to 1000 V, and 100 V steps above 1000 V
Bar Graph Range: 0 to 1 TΩ
Insulation test voltage accuracy:
-0 %, +10 % at 1 mA load current
Induced ac mains current rejection:
2 mA maximum
Charging rate for capacitive load: 5 seconds per µF
Discharge rate for capacitive load: 1,5 s/µF
Enclosure sealing: IP40

Battery Analyzers BT521

Operating temperature: 0°C to 40°C
Storage temperature: -20°C to 50°C
Lithium-ion battery charging temperature:
0°C to 40°C
Operating humidity: Non-condensing (10°C)
≤ 80% RH (at 10°C to 30°C)
≤ 75% RH (at 30°C to 40°C)
Operating altitude: Sea level to 2000 meters
Storage altitude: Sea level to 12,000 meters
IP rating: IP40
Vibration requirements: MIL-PRF-28800F: Class 2

Thermal Camera TiS75+

Infrared resolution: 384 x 288 (110,592 pixels)
IFOV: 1.91 mRad
Field of view: 42° x 30°
Minimum focus distance: 0.15 m
Focus system: Manual focus
Minimum span (in manual mode): 3° °C (4.5 °F)
Minimum span (In auto mode): 5°C (9.0 °F)
Built-in digital camera (visible light): 640 x 480
Frame rate: 9 Hz or 27 Hz models
Thermal sensitivity: 40mk
Infrared spectral band: ~8-14µm

Pocket Thermal Camera PTi120

IFOV (spatial resolution): 7.6 mRad
Infrared resolution: 120 x 90 (10,800 pixels)
Field of view: 50° H x 38° V
Focus system:
Fixed focus, minimum focus distance 22.8 cm
Thermal sensitivity (NETD): 60 mK
Frame rate: 9 Hz
Distance to spot: 130:1
Temperature measurement range (not calibrated below -10 °C): -20 °C to +400 °C and -20 °C to +150 °C models

Ceyear

SIGNAL GENERATOR, SPECTRUM ANALYZER VECTOR NETWORK ANALYZER, MICROWAVE ANALYZER


Signal Generator 1466C/D/E/G/H/L/N/P-V

Frequency Range: 6kHz~13GHz,20GHz,33GHz, 45GHz, 53GHz, 67GHz, 90GHz, 110GHz
SSB Phase Noise (Typ.): -145dBc/HZ@10kHz offset at 1GHz Carrier, -132dBc/HZ@10kHz offset at 10GHz Carrier, -161dBc/HZ@30MHz offset at 20GHz Carrier
Internal Modulation Bandwidth: Maximum 2 GHz Modulation Bandwidth, Support 5G NR, Bluetooth, WLAN, Radar Scene Signal Modulation
External Modulation Bandwidth: Maximum 5 GHz Modulation Bandwidth

Signal/Spectrum Analyzer 4082B/D/E/F/H/L/N/P

Frequency Range: 2Hz~8.4GHz, 18GHz, 26.5GHz, 45GHz, 50GHz, 67GHz, 90GHz, 110GHz
Signal Analysis Bandwidth: Supports 10MHz/ 40MHz/200MHz/400MHz/600MHz/102GHz/ 2GHz/4GHz signal analysis bandwidth
Resolution Bandwidth: 0.1Hz to 20MHz
SSB Phase Noise (1GHz carrier) (Typ.):
-125dBc/Hz@1kHz offset at 1GHz Carrier
-133dBc/Hz@10kHz offset at 1GHz Carrier
-135dBc/Hz@100kHz offset at 1GHz Carrier
-138dBc/Hz@1MHz offset at 1GHz Carrier

Microwave Power Meter 2438CA/CB/PA/PB

Frequency Range: 9kHz~750GHz (sensor dependent)
Pulse Power Range: -40dBm~+20dBm (2438PA/PB)
CW Power Range: -70dBm~+50dBm (sensor dependent)
Video Bandwidth: ≥30MHz (2438PA/PA)
Display Resolution: 1dB to 0.001dB in Log mode
1 to 4 digits in Linear mode
Calibration Source: 1.000mW (1±1.0%)
CW power sensor or peak power sensor can be configured

Handheld Signal Generator 1433

Frequency range: 1MHz~20GHz, 26.5GHz, 40GHz, 50GHz
Frequency resolution: 0.1Hz
SSB Phase Noise: -110dBc/Hz @10kHz offset at 10GHz Carrier
Output Power Range: -120dBm to +10dBm (2.5GHz to 10GHz)
Modulation Type: Analog modulation, Pulse modulation

Vector Network Analyzer 3674B/C/D/E/F/G/H/K/L/N/P

Frequency range: 10MHz~9GHz, 14GHz, 20GHz, 26.5GHz, 32GHz, 44GHz, 50GHz, 53GHz, 67GHz, 90GHz, 110GHz, Minimum frequency up to 500Hz
Frequency Resolution: 0.1Hz
Dynamic Range (typ.): 102dB(10~50MHz), 124dB(50~500MHz),137dB (0.5~1GHz), 141dB (1~2GHz), 142dB(2~4GHz),142dB(4~10GHz), 139dB(10~16GHz),138dB (16~26.5GHz), 137dB(26.5~30GHz), 134dB (30~32GHz), 135dB(32~40GHz),128dB(40~50GHz), 118dB(50~60GHz), 116dB(60~64GHz), 114dB(64~67GHz)

Spectrum Analyzer 4024A/B/C/D/E/F/G/H/L

Frequency range: 9kHz~4GHz, 6.5GHz, 9GHz, 20GHz, 26.5GHz, 32GHz, 44GHz, 50GHz, 67GHz
DANL: -163dBm/Hz RBW (Typ.)
SSB Phase Noise: -112dBc/Hz@100kHz frequency offset@1GHz carrier (4024A/B/C)
-106dBc/Hz@100kHz frequency offset@1GHz carrier (4024D/E/F/G/H/L)
Sweep speed resoution bandwidth: <20ms (shortest sweep time at 1 GHz span)
Full-band Pre-amplifier: 1Hz~10MHz

Optical Spectrum Analyzer 6362 Series

Frequency range: 350~1200nm (6362C), 600~1700nm(6362D), 1200~2400nm(6362E), 1000~2500nm(6362EA)
Frequency resolution: 0.2~1100nm (full range span)
SSB Phase Noise: up to ±0.01nm (see detailed specification of each model)
Wavelength resolution setting: 0.02, 0.05, 0.1,0.2, 0.5, 1, 2, 5, 10nm
Minimum sampling resolution: 0.001nm
Maximum input power: +20dBm (per channel, full wavelength range)

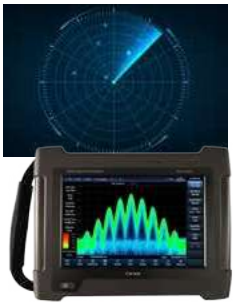
Lightwave Component Analyzer 6433

Frequency range: 10MHz to 20GHz (6433D)
10MHz to 50GHz (6433F), 10MHz to 90GHz (6433N)
10MHz to 43.5GHz (6443F), 10MHz to67MHz (6433L)
10MHz to 110GHz(6433P)
Test modes: E/E measurement mode, E/O measurement mode, O/E measurement mode, O/O measurement mode
Standard S12 and S21 parameters test, balanced device test, automatic fixture removal, flexible calibration method and calibration kits

Microwave Analyzer 4957D/E/F

Antenna feeder test: Frequency range: 30kHz~6.5GHz (4957B), 30kHz~18GHz, 26.5GHz (4957D/E), 50MHz~40GHz (4957F)
Vector network analysis: Frequency range: 30kHz~6.5GHz (4957B), 50MHz~40GHz(4957F) 30kHz~18GHz/26.5GHz (4957D/E),
Spectrum analysis mode: Frequency range: 9kHz~6.5GHz (4957B), 100kHz~26.5GHz (4957D/E), 100kHz~40GHz (4957F)

(Minimum frequency can up to 10MHz)



Handheld Spectrum Analyzer 4025 Series

Frequency range:
9kHz~6GHz/9GHz/20GHz/26.5GHz/44GHz/54GHz
DANL: -165dBm/Hz (Typ.)
SSB phase noise:
-113dBc/Hz@100kHz frequency offset@1GHz carrier
-108dBc/Hz@100kHz frequency offset@10GHz carrier
Sweep time: 1Hz~20MHz

Real-time signal analysis: 120MHz real-time analysis bandwidth, supports 5G NR, LTE, GSM signal analysis, support WIFI wireless communication

TUNKIA

MAGNETIC

Magnetometers Calibration System TM9000

A standard source of bipolar excitation current equipped with dual channels.
The stability of the current source reaches 30 ppm / min.
Accuracy class 0.01, the annual error variation is better than 50 ppm.
Adjustment fineness is a minimum of 5ppm.
Magnetic field coil generates a standard magnetic field of ± (0.1 mT to 100 mT).
Electromagnets generate a highly stable magnetic field of ± (10 mT ~ 2.5 T).
The system uses a modular integrated design.

DC Magnetic Properties Measuring System for Soft Magnetic Materials TS4000

Output: Current Range: 0 ~ ±25 A, Maximum power: 1000 W, Adjustment Fineness: 0.005%*RG[1]
Current Uncertainty(k=2): 0.2%
Flux Meter: Range: 500 μWb,5 mWb,25 mWb,
Drift: Max. value of 0.05%*RG/min or 1 μWb/min,
Uncertainty(k=2): 0.3% + 5 μWb
Tesla Meter (Optional): Range: 0~2000 mT,
Uncertainty(k=2): 0.5%*RG(B≤2000 mT),
Features: Hall probe nonlinear correction function
Modular design, easy to upgrade or maintenance.
Note [1]: RG is the range value

Electrical Steel Magnetic Measurement Device Calibration System TH8010

- Supports various electrical parameter measurements within the frequency range of DC to 10 kHz.
- Supports three measurement modes: average, peak, and effective value.
- The voltage/current accuracy reaches class 0.01, and the power reaches class 0.02.
- It can also ensure accurate measurement of iron loss under high frequency, low power factor and high magnetic induction.

Verification Device for Withstanding Voltage Tester TD1230

- AC/DC voltage measurement:100 V~15 kV.
- AC/DC current measurement:0.1 mA~250 mA.
- Distortion / Ripple function and voltage duration time test function.
- Built-in adjustable resistive load with fineness of 1 kΩ.
- Optional high power load box (TD1240) help calibrate the output capacity.
- Oscilloscope and data statistical analysis function.
- Setting output values by keys.

Helmholtz Coil TM2300

TM2300-150mm-5G ~ TM2300-1000mm-100G
Diameter (mm): 150 - 1000
Maximum magnetization field (G): 5G - 100 G
Homogeneous area @uniformity: • Φ30 mm@1%, Φ25 mm@0.5%,Φ20 mm@0.2%,Φ16 mm@0.1%, • Φ40 mm@1%,Φ33 mm@0.5%,Φ26 mm@0.2%, Φ22 mm@0.1% | • Φ60 mm@1%,Φ50 mm@0.5%, Φ40 mm@0.2%,Φ33 mm@0.1% | • Φ100 mm@1%, Φ83 mm@0.5%,Φ66 mm@0.2%,Φ55 mm@0.1%, • Φ200 mm@1%,Φ166 mm@0.5%,Φ130 mm@0.2%, Φ110 mm@0.1%
Maximum current (A): ± 5 ~ ± 25

AC Magnetic Properties Measuring System for Soft Magnetic Materials TD81 Series

- Electrical parameters calibration function.
- Testing mode: setting H to measure B or setting B to measure Ps.
- Testing in full frequency range with good accuracy and repeatability.
- Automatically testing with professional software.
- Automatically calculating magnetic parameters and curves.
- Complete curves drawing and data management functions.

Gauss Meter TM6100

- Range: 2 mT ~ 3000 m T.
- Accuracy: 0.2% or 0.5%.
- Optional AC measurement mode.
- Unit switch: G, mT, A /m, Oe.
- N/S and +/- polarity display.
- Alarm of exceeding the upper / lower limit.
- Max. hold function.
- One-key clear function.
- Measuring parameter correction.
- Radial and axial Hall probes are optional.
- Digital and analog signal output.
- Optional magnetic shielded cavity.

Magnetic Properties Measuring System for Permanent Magnetic Materials TY1000

- Electrical parameters calibration function
- Slowly reduce amplitude demagnetization for sample
- Zero drift of flux meter: <1 μWb / min
- Low nonlinear error of the hall probe
- Continuously adjustable bipolar magnetization current source
- Use flux meter and coils to measure B or J
- Hmax of the 150 mm electromagnet is up to 2.5 T
- Hmax of the 130 mm electromagnet is up to 2.45 T
- Typical single measurement time is 30 s

Fluxmeter TM7500

- Range:0.2 mWb~2 Wb.
- Accuracy: 0.2% or 0.5%.
- Drift after zeroing ≤ 1 μWb/min.
- 5-digits display, minimum resolution 0.1 μWb.
- Unit switch: Wb, mWb, Vs, mVs, Mx.
- Maximum hold function.
- Alarm of exceeding the upper / lower limit.
- One-key reset and zero drift.
- Test parameter correction.
- Touch screen and button operation.
- Digital and analog signal (option) output.
- Supporting various of measuring coils.

Surface Magnetic Field Automatic Testing System TY2100

Tesla Meter: Measuring range: 0~2000mT, minimum resolution: 10μT, uncertainty of measurement: 0.5%.
Rotating Test Platform: The test platform is equipped with a rotary chuck, which is driven by a precision stepping motor to drive the tested sample to rotate in the W -axis direction. | **Chuck and Bearing:** the concentricity of the standard chuck is 0.05 mm, which makes the operation more stable.
4 Axis Motion Cotrol: The motion control of XYZW axis has two modes: software automatic control and key manual control.

WBGT-2010SD Heat Index WBGT Meter

Wet bulb globe temperature (WBGT): Range: °C: Indoor: 0 to 59 °C | Outdoor: 0 to 56 °C | °F: Indoor: 32 to 138 °F Outdoor: 32 to 132 °F | **Accuracy *(Indoor)***: °C: ±1 (15 to 59), ±1.5 (Others) | °F: ±1.8 (59 to 138), ±2.7 (Others) **Accuracy *(Outdoor)***: °C: ±1.5 (15 to 56), ±2 (Others) | °F: ±2.7 (59 to 132), ±3.6 (Others)
WBGT Formula: Indoor *(Outdoor and no sun)*: WBGT= 0.7WB + 0.3TG | **Outdoor *(Outdoor and full sun)***: WBGT= 0.7WB + 0.2TG + 0.1TA | **Air Temperature (TA): Range**: °C: 0 to 50 °C, °F: 32 to 122 °F | **Resolution**: °C: 0.1 °C, °F: 0.1 °F | **Accuracy *(@ 15 to 40 °C)***: °C: Indoor: ±0.8 °C, °F: ±1.5 °F | **Black globe temperature (TG): Range**: °C: 0 to 80 °C, °F: 32 to 176°F | **Resolution**: °C: 0.1 °C, °F: 0.1 °F | **Accuracy *(@ 15 to 40 °C)***: °C: ±0.6 °C, °F: ±1.1 °F
Humidity: Range: 5% to 95% R.H., **Resolution**: 0.1 % R.H., **Accuracy**: ≥ 70% RH: ±(3% reading + 1% RH), < 70% RH : ±3% RH | **Dew Point Temp.:** °C: Range: -25.3 to 48.9 °C, Resolution: 0.1 °C | °F: Range-13.5 to 120.1 °F Resolution: 0.1 °F | **Wet bulb Temp.:** °C: Range: -21.6 to 50.0 °C, Resolution 0.1 °C | °F: Range-6.9 to 122.0 °F, Resolution 0.1 °F

5 in 1 METER - Anemometer, Thermometer, Humidity, Light, Sound Level Meter LM-8102

- Sound level meter: 30 to 130 dB, auto range
- Humidity: 10 to 95 %RH, Temp.. (°C/°F)
- Anemometer: 0.4 to 30 m/s, Temp.. (°C/°F)
- Light: 0 to 20,000 Lux, 0 to 1,660 Ft-cd, auto range
- Type K Thermometer: -100 to 1300 °C, °C/°F
- Sound level meter meet IEC 61672 TYPE 2
- Data hold, Record (Max., Min.), RS232/USB

4 in 1 - Anemometer, Humidity Light Meter, Thermometer LM-8000A

Air velocity: Range: 80 to 5910 ft/min, 0.4 to 30.0 m/s Resolution: 1 ft/min, 0.1 m/s
Humidity: Range: 10 to 95 %RH, 32 to 122°F, 0 to 50°C Resolution: 0.1 %RH, 0.1 °F, 0.1 °C
Light: Range: 0 to 20,000 Lux, 0 to 2,000 Fc Resolution: 1 Lux, 1 Ft-cd
Temperature (Type K): Range: -148 to 2372 °F, -100 to 1300 °C | Resolution: 0.1 °F, 0.1 °C

Air Quality Monitor/Recorder - SD Card Real Time - PM2.5, CO2, %RH, Temp., Barometer PM-1064SD

PM2.5: Range: 0 to 250µ g/m^3, Resolution: 1µ g/m^3, Accuracy: ± (10% reading ± 20µ g/m^3) | **Humidity:** Range: 5 % to 95 %RH, Resolution: 0.1 %RH, Accuracy: < 70 %RH: ± 3 %RH | **Temperature:** Range: 0.0°C to 50.0°C, Resolution: 0.1 °C, Accuracy: ± 0.8 °C m | **CO2:** Range: 0 to 10000 ppm, Resolution: 1 ppm, Accuracy: ± 40 ppm, ≤ 1000 ppm, **Barometric pressure:** Range: 7.5 to 825.0, Resolution: 0.1mmHg Accuracy: ± 1.2 mmHg

3 Axis RF Electromagnetic Field Meter EMF-819

Wide measuring frequency ranges, 50 MHz to 3 GHz.
Accuracy: < 2 dB (in the band 100 MHz ~ 2.5 GHz)
Units of measurement: V/m, W/m2, mW/cm2
Range: 0~200 V/m (0.01 V/m); 0~99.999 W/m2 (0.001 W/m2); 0~9.9999 mW/cm2 (0.0001 mW/cm2)
Functions: MIN / MAX / Data Hold / Peak Hold
Probe size: φ70 mm x 240 mm
Frequency team selection: two points, Normal, 2.45 GHz
Probe Input Impedance: 50 OHM

Vane Anemometer/Barometer/Humidity/Temp. ABH-4225

Anemometer unit : m/S, Km/h, FPM, mph, Knot.
Barometer unit : hPa, mmHg, inHg. | **Anemometer:** Range: 0.4 to 30.0 m/s, Resolution: 0.1 m/S, Accuracy: ≤ 20 m/s: ±3% F.S. >20 m/s: ±4% F.S. | **Temperature:** Measuring Range: 0°C to 50°C/32°F to 122°F, Resolution: 0.1°C/0.1°F, Accuracy: ±0.8°C/1.5 °F | **Humidity:** Range: 10% to 95% R.H., Resolution: 0.1% R.H. Accuracy: ≥ 70% RH ±(3% reading + 1% RH). < 70% RH - 3% RH. ±3% RH.

Cup Anemometer/Barometer/Humidity/Temp. ABH-4224

Air velocity: 0.9 to 35.0 m/s,ft/min.,km/h,mile/h, knots.
Barometer : 10 to 1100 hPa, mmHg, inHg.
Humidity : 10% to 95% RH, Dew.
Temperature : 0 to 50 °C, °C/°F
Cup type probe, no wind direction.
Two display can select the six mode (function): Humidity/Temp., Humidity/Dew point, Anemometer/ Temp., Barometer/Temp., Barometer/Humidity, Barometer/Anemometer

Humidity/Barometer/Temp. Monitor SD Card real time data logger MHB-382SD

Humidity range: 10 % to 95 % R.H.
Temperature range: 0°C to 50°C / 32°F to 122°F
Barometer: 10 to 1100 hPa; 7.5 to 825 mmHg; 0.29 to 32.48 inHg
0.1 %RH resolution for the humidity reading
0.1 degree resolution for the Temp. reading
Professional barometer, unit : hPa, mmHg, inHg
SD card capacity : 1 GB to 16 GB

Pitot Tube Anemometer + Differential Manometer - SD Card real time data recorder PAM-9212SD

Dual & differential input, ± 200 mbar max. range.
Measurement units:
Air vilocity: m/s, km/h, FPM, mph, knots
Air pressure: 10 kind display units (mbar, Kg/cm2, mm Hg, meter H2O Atmosphere, psi, inch Hg, inch H2O, hpa, kpa) select by push button on the front panel
Operating Humidity: Less than 85% R.H.
Single plugs for pipe connection

4 Channels Thermometer SD Card, real time data logger, Patent TM-947SD

- 4 channels for K/J/T/E/R/S thermocouples
- 2 channels for Pt100 resistor sensors (3.5mm Jack connector) | • Temperature range -100 to 1300 °C (depending on the sensor used). | • Resolution 0.1 °C.
- Displays all 4 channels on the display at the same time.
- The possibility of displaying the difference temperature between the first two channels (T1-T2).
- Pt 100 ohm : -199.9 to 850.0 °C

UVC Light Meter UVC-254SD

- 254 nm UVC light meter, used to measure the UVC irradiation value under the UVC light (black light) source | • Two ranges: 2 mW/cm^2, 20 mW/cm^2
- **Sensor Type K:** Resolution: 0.1 °C, Range: -50.0 to 1300.0 °C, -50.1 to -100.0 °C, Accuracy: ±(0.4% + 0.5°C), ±(0.4% + 1 °C)
- **Sensor Type J:** Resolution: 0.1°C, -50.0 to 1200.0°C, -50.1 to -100.0°C, Accuracy: ±(0.4% + 0.5 °C), ±(0.4% + 1°C)





VB-8200 Vibration Meter

Measurement: Velocity, Acceleration, RMS value, Peak value, Data hold, Max. & Min. value.
Range: ***Velocity***: 200 mm/s : 0.5 to 199,9 mm/s, ***Acceleration***: 200 m/S^2 : 0.5 to 199.9 m/s^2
Frequency range: 10 Hz to 1 KHz **Sensitivity relativive during the frequency range meet ISO 2954*
Accuracy: ±(5% + 2d) reading, *@ 160 Hz, 80 Hz @ 23 ±5 °C*
Calibration: ***Velocity***: 50 mm/s (160 Hz), ***Acceleration***: 50 m/s^2 (160 Hz)
Circuit: Exclusive microcomputer circuit
Data hold: Freeze the desired reading
Peak hold: To measure the peak value
Memory: Maximum & Minimum value
Sampling time: Approx. 1 second
Operating temperature: 0°C to 50°C (32°F to 122°F)

Vibration Meter
VB-8202

- Range: Velocity: 200 mm/s : 0.5 to 199.9 mm/s
  Acceleration: 200 m/s: 0.5 to 199.9 m/s2
- Frequency range: 10 Hz to 1 KHz
  **Sensitivity relativive during the frequency range meet ISO 2954*
- Accuracy: ±(5% + 2d), 160 Hz, 80 Hz @ 23 ±5°C
- Calibration point: Velocity: 50 mm/s (160 Hz)
  Acceleration: 50 m/s2(160 Hz)

Vibration/Tachometer
Vibration, Photo tach., Contact tach., Patent
VT-8204

Vibration function: ***Velocity range:*** 0.5 to 199.9 mm/s, 0.05 to 19.99 cm/s, 0.02 to 7.87 in/s | ***Acceleration range:*** 0.5 to 199.9 m/s^2, 0.05 to 20.39 g, 2 to 656 ft/s^2
Tachometer (photo, contact) function:
Range: Photo Tachometer: 10 to 99,999 RPM, Contact Tachometer: 0.5 to 19,999 RPM, Surface Speed (m/min.): 0.05 to 1,999.9 m/min.
Accuracy: ±(0.05 % + 1 digit)

X, Y, Z, 3 Axis - Vibration Meter
BVB-8217SD

SD Card real time data recorder
Measurement: Velocity, Acceleration, Displacement
Acceleration: Range: 0.5 to 199.9 m/s^2, Resolution: 0.1 m/s^2, Accuracy: ±(5%+5d) reading @ 160 Hz, 80 Hz,23 ± 5°C | **Velocity:** Range: 0.5 to 199.9 mm/s, Resolution: 0.1 mm/s | **Accuracy:** ±(5% + 5d) reading, @160 Hz, 80 Hz, 23 ± 5°C, **Displacement:** Range: 1.999 mm, Resolution: 0.001 mm, Accuracy: ±(5% + 5d) reading @160Hz, 80Hz, 23 ± 5°C | **Operating Temp. & Humidity:** 0 to 50°C. Less than 85% R.H.

LCR + Multimeter
DM-9972SD

Bench type, professional - SD card real time data recorder
DMM Features: • Multi function measurement. DCV, ACV, DCA, ACA, Resistance, Frequency, Duty cycle, Diode, Continuity beeper | • 6000 counts A/D, high resolution • 0 M ohm impedance for voltage circuit | **LCR Features:** • 6000 counts ADC resolution | Four different test frequency are available: 100 Hz/120 Hz/1 KHz/10 KHz for L/C/R measurement | • Test range: (ex.F=1 KHz), L: 600.0 uH to 60.00 H, C: 600.0 pF to 600.0 uF, R: 60.00Ω to 20.00 MΩ

Sound Level Meter
SD Card, real time data logger, Patent
SL-4023SD

Measurement range: 30 - 130 dB
Resolution: 0.1 dB
Frequency: 31.5 to 8,000 Hz
Accuracy (23 ±5°C): Under 94 dB input signal, the accuracy are: 31.5Hz ±3.5 dB, 63 Hz ±2.5 dB, 125Hz ±2.0 dB, 250Hz ±1.9 dB, 500Hz ±1.9 dB, 1 KHz ±1.4 dB, 2 KHz ±2.6 dB, 4 KHz ±3.6 dB, 8 KHz ±5.6 dB
Remark: The above spec. are tested under the environment RF Field Strength less than 3 V/M & frequency less than 30 MHz only

Integrating Sound Level Meter
SL-4035SD

SD card real time data recorder
Applicable standards : IEC 61672 Class 2,ANSI S1.4 TYPE 2
Measurement Range: 30 dB to 130 dB
Resolution: 0.1 dB
Measurement Frequency Range: 31.5 Hz to 8 KHz
Frequency & Accuracy (23 ± 5°C): 31.5 Hz ± 3.5 dB, 63 Hz ± 2.5 dB, 125 Hz ± 2.0 dB, 250 Hz ± 1.9 dB, 500 Hz ± 1.9 dB, 1 KHz ± 1.4 dB, 2 KHz ± 2.6 dB, 4 KHz ± 3.6 dB, 8 KHz ± 5.6 dB

Noise Dosimeter
SD Card data recorder
DS-2013SD

Measurement range: SPL:Auto 30 - 130 dB, Dose: 70~130dB
Resolution: 0.1 dB
Accuracy (23 ±5°C): Characteristics of " A " frequency weighting network meet IEC 61672 class 2. Under 94 dB input signal, the accuracy are: 31.5 Hz ±3.5 dB, 63 Hz ±2.5 dB, 125 Hz ±2.0 dB, 250 Hz ±1.9 dB, 500 Hz ±1.9 dB, 1K Hz ±1.4 dB, 2K Hz ±2.6 dB, 4K Hz ±3.6 dB, 8K Hz ±5.6 dB

Solar Power Meter
SPM-1116SD

Spectral response: 400 to 1100 nm
Solar power Accuracy: ±10 W/m^2 typically, ±3 Btu / (ft^2 x h) typically, or ± 5% reading, @ whichever is greater in sunligh @ 23 ± 5°C
Angular Accuracy: Cosine corrected <5% for angles < 60°
Solar power Range/ Solar power Resolution: Range: 2000 W/m^2, 634 Btu/(ft^2 x h), 0.1 W/m^2 <1000 W/m^2, 1 W/m^2 ≥ 1000 W/m^2, 0.1 Btu/(ft^2 x h) < 317 Btu/(ft^2 x h), 1 Btu/(ft^2 x h) ≥ 317 Btu/(ft^2 x h)

AC/DC Magnetic Meter
SD card real time recorder
MG-3003SD

- Unit : G (Gauss), mT (milli Tesla)
- DC magnetic range: 300.00 mT, 3000.0 mT
- AC magnetic range: 150.00 mT, 1500.0 mT
- Resolution: 0.01 mT/0.1 mT, 0.1 G/1 G
- DC polarity: N/S (north/south pole)
- Frequency Response: AC measurement: 50 Hz / 60 Hz
- Accuracy: DC: ± (5% rdg. + 10 digit)
  AC : ± (5% rdg. + 20 digit)

Precision milligauss AC/DC magnetic
Bench type
BMG-3004SD

- Measurement ranges: **DC**: 300.00 mT/3000.0 mT, 3,000.0 G/30,000 G **AC**: 150.00 mT/1500.0 mT, 1,500.0 G/15,000 G | • Unit: mG (milli Gauss), uT (micro Tesla) | • Resolution: 0.1 G/1 G, 0.01 mT/0.1 mT
- Use Hall sensor with automatic Temp. compensation
- DC and AC magnetic field measurement
- N pole/S pole indicator
- Zero button for DC magnetic function





MO-2014 Micro-Ohm Meter

4 terminal devices for accurate measurement of very low resistance.

ELECTRICAL SPECIFICATIONS (23±5°C):

Range: ***Velocity***: 60000 u Ω, 600 m Ω, 6000 mΩ, 60000 mΩ, 600 Ω, 6000 Ω

Resolution: 1 u Ω, 10 u Ω, 100 u Ω, 1000 u Ω, 10 mΩ, 100 mΩ

Test current: 10 A, 1 A, 100 mA, 10 mA, 1 mA, 100 uA

Accuracy: ±(0.25 % + 25 d), ±(0.75 % + 3 d)

@ The above accuracy is based on the reading value. @ Spec. tested under the environment RF Field Strength less than 3 V/M & frequency less than the 30 MHz only.

Range: 60000 u Ω, 600 m Ω, 6 Ω, 60 Ω, 600 Ω, 6000 Ω

Open Circuit Voltage: Approx. DC 4.33 V, Approx. DC 4.33 V, Approx. DC 4.33 V, Approx. DC 4.33 V, Approx. DC 4.33 V, Approx. DC 4.33 V

3 Phase Power Analyzer DW-6093

• Analysis for 3 phase multi-power system, 1P/2W, 1P/3W, 3P/3W, 3P/4W | • Current probe input signal volage (ACV):200 mV/300 mV/500 mV/1 V/2 V/3 V
• Current probe input current range (ACA): 20 A/200 A/2000 A (1200 A)/30 A/300A /3000 A
• Programmable CT ratio (1 to 600) and PT ratio (1 to 1000)
• ACV input impedance is 10 Mega ohms
• Voltage measurement range : 10 to 600 ACV
• Power Factor (PF)`Phase Angle(Φ)

3 Phase Power Analyzer with Harmonic Measurement DW-6195

• Analysis for 3 phase multi-power system, 1P/2W, 1P/3W, 3P/3W, 3P/4W |• Current probe input signal/ranges with selection: Input signal (ACV): 200mV/300mV/500mV/1V/2V/3V, Ranges (ACA): 20A/200A/2000A/30A/300A/3000A 60A/600A/6000A |• Harmonics display (1-50th order)
• Analysis of Total Harmonic Distortion (THD) Measurement: V (phase-to-phase), V (phase-to-ground), A (phase-to-ground), KW/KVA/KVAR/PF (phase), KW/KVA/ KVAR/PF (system), KWH/KVAH/KVARH/PFH (system), Phase angle

Precision Watt Meter DW-6063

• 0.01 W resolution, precision Watt meter is special for low power measurement
• LSI - circuit provides high reliability and durability
• Measurement: WATT (AC): 99.99 W x 0.01 W, 520 W x 0.1 W, ACV : 260V x 0.1 V, ACA: 2A x 1 mA/ 1A x 0.1 mA, PF: 1.00 x 0.01
• True Power and Wide range 0 W to 520 Watt
• True RMS measurement of ACV / ACA |• Designed for the high resolution low power measurement

Clamp Power Analyzer PC-6011SD

• ACV input impedance is 10 Mega ohms |• Voltage & Current harmonic analysis (1-50th order) |• Voltage measurement range: 10 to 600 ACV |• Current measurement range: 5 to 2000 ACA|•Thermocouple Temp. sensor:Type K (-100.0°C to 199.9°C/ 200°C to 1300°C),°C/°F |• True Power (KW`MW`GW)measurement
• Apparent Power (KVA`MVA`GVA) measurement
• Reactive Power (KVAR`MVAR`GVA) measurement
• Power Factory (PF)`Phase Angle (Φ) measurement
• Energy (KWh`KVAh`KVARh`PFh) measurement

DCA/ACA Clamp Meter SD Card real time data recorder, true rms CM-6010SD

• Measurement functions: ACA. DCA. ACV, DCV. Resistance, Diode, Continuity, Capacitance, Temp. (optional Temp. probe)
• ACA range: 0 to 2000 ACA, auto range
• DCA range: 0 to 2000 DCA, auto range
• ACV range: 0 to 1000 ACV, auto range
• DCV range: 0 to 1000 DCV, auto range
• Resistance range : 0 to 60 Megohm, auto range
• True rms measurement for ACV, ACA
• CAT III 1000V, CAT IV 600V

Air Quality Meter - 6 in 1 AQ-9901SD

CO2,CO,O2, Humidity,Temp, 6 in 1 - SD Card real time data recorder, Patent

• CO2 range: 0 to 4,000 ppm x 1 ppm |• O2 range: 0 to 30.0 % x 0.1 % |• CO range: 0 to 1,000 ppm x 1 ppm
• Humidity range: 10 to 95% RH |• Temp. range: 0 to 50.0°C, °C/°F |• CO2 sensor: NDIR, long term reliability
• CO, O2 sensor: Galvanic cell type |• Humidity sensor: Precision capacitance sensor |• Sampling time for data recorder is 2 seconds to 8 hours

High Precision Milliohm Meter MO-2013

• Test Range (Test Current): 20 m ohm (1 A DC),200 m ohm (1 A DC),2 ohm (100 mA DC),20 ohm (10 mA DC),200 ohm (1 mA DC), 2 K ohm (100 uA DC), 20 K ohm (10 uA DC)
• Range & Open Circuit Voltage: 20 m ohm Approx. DC 4.54 V, 200 m ohm Approx. DC 4.54 V, 2 ohm Approx. DC 4.50 V, 20 ohm Approx. DC 4.06 V, 200 ohm Approx. DC 3.51 V, 2 K ohm Approx. DC 3.08 V, 20 K ohm Approx. DC 2.32 V, |• Operating Temp.: 0 to 50°C (32 to 122°F)

UVA Light Meter +TYPE K/J Thermometer UVA-365SD

SD Card real time data recorder

UVA Light: ***Measurement ranges & resolution:*** Range 1: 2 mW/cm^2 Range 2: 20 mW/cm^2: 19.99 mW/cm^2 x 0.01 mW/cm^2 | ***Accuracy:*** ±(4% FS + 2 dgt), FS: full scale **UVA Calibration is executed under the UVA light & and compare with the standard UVA light meter* | **Type K/J thermometer:** ***Type K:*** Resolution: 0.1°C Range: -50.0 to 1300.0°C, Accuracy: ± (0.4% + 0.5) | ***Type J:*** Resolution: 0.1 °C, Range: -50.0 to 1200.0°C, Accuracy: ± ± (0.4 % + 0.5)

3 Axis Radio Frequency Electromagnetic Field Meter - 100 KHz to 3 GHz, 2 probes EMF-839

ELECTRICAL SPECIFICATIONS (23 ± 5)°C:

Strength Range: 0~200.00 V/m, 0~99.999 W/m^2, 0~9.9999 mW/cm^2, **Resolution:** 0.01 V/m, 0.001 W/m^2 0.0001 mW/cm^2, **Effective Value:** >1 V/m,>0.03 W/m^2, >0.0003 mW/cm^2, Frequency range: 400 KHz to 100 MHz, 50 MHz to 2.5 GHz, Accuracy: <2 dB,<2 dB,Cal.level: 30 V/m, 60 V/m, Probe no.: EP-04L, EP-03H
Wide measuring frequency ranges, 100 KHz to 3 GHz

LCR METER - 100 Hz 120 Hz 1 KHz 10 KHz 100 KHz, Professional LCR-9184

• Intelligent microprocessor circuit, professional
• Test range: (ex: F=1 KHz): L: 200.00 uH to 2000.0 H, C: 2000.0 pF to 2.000 mF, R : 20.000 Ω to 200.0 M Ω
• DCR mode 200.00Ω to 200.0MΩ
• Five test frequency are available: 100 Hz/120 Hz/1 KHz/10 KHz/100 KHz
• Ls/Lp/Cs/Cp with D / Q / / ESR Parameter.
• 19999/1999 counts dual LCD display

TU-2016 Turbidity Meter

- Range: 0.00 to 50.00 NTU, 50 to 1,000 NTU * *NTU : Nephelometric Turbidity Unit * Auto range*
- Resolution: 0.00 to 49.99 NTU 0.01 NTU, 50 to 1000 NTU 1 NTU
- Accuracy (23 ± 5°C): 0.00 to 49.99 NTU: ± 5% reading or ± 0.5 NTU, whichever is greater
  50 to 1000 NTU: ± 5% reading or ± 5 NTU, whichever is greater
- Calibration points: 0 NTU, 100 NTU | • Operating Temperature: 0 to 50°C
- Operating Humidity: Less than 85% R.H | • Circuit: Custom one-chip of microprocessor LSI circuit
- Display: LCD size : 41 mm x 34 mm | • Light source: LED, 850 nm | • Detector: Photo diode
- Standard: Meet ISO 7027 | • Response time: Less than 10 seconds | • Sample volume needed: 10 mL
- Data Hold: Freeze the display reading | • Memory Recall: Maximum & Minimum value
- Display Sampling Time: Approx. 1 second | • Power Current: Stand by: Approx. DC 3.5 mA, Testing Approx. DC 36 mA

Chlorine Meter
CL-2006

- Range: Free chlorine (CL): 0.00 to 3.50 ppm (mg/L)
- Total chlorine (CL): 0.00 to 3.50 ppm (mg/L)
- Resolution: 0.01 ppm (mg/L)
- Accuracy: ± 0.02 ppm (mg/L) @ *1.00 ppm (mg/L)*
- Calibration points: Zero chlorine, 1.00 ppm (Free chlorine), 1.00 ppm (Total chlorine)
- Light source: LED, 525 nm
- Light detector: Photo diode
- Response time: Less than 10 seconds

O_2 METER
PO2-250

- **O2 (Air oxygen):** Range: 0 to 30 %O2
Resolution: 0.1 %O2, Accuracy: ±(1% reading + 0.2% O2) @ *After calibration*
- **Temperature (Air Temp.):** Range: 0°C to 50°C, 32°F to 122°F, Resolution: 0.1 degree,
Accuracy: °C - ±0.8 °C, °F - ± 1.5
- O2 (Air oxygen) and Temp. (Air Temp.) measurement
- Galvanic cell type for O2 sensor
- High reliability Oxygen sensor, not be affected by acidic gases like CO2

PH Controller/Monitor
PPH-2108 + PE-21

- **pH:** Range: 0 to 14 PH, Resolution: 0.01 PH
Accuracy: ±(0.02 PH + 2 d)
- **Temperature (used optional Temp. probe, TP-07 A):** Range: 0°C to 65°C, 32°F to 149°F
Resolution: 0°C to 65°C, 32°F to 149°F
Accuracy: 0.8°C, 1.5°F
pH Input Impedance: 10^12 ohm
- Temperature Compensation for pH measurement: Manual: -30 to 100 , be adjusted by push button on front panel

Water Harderness/Pure Water Meter
CD-4319SD

- Function: Conductivity, TDS, Salt, Temp, Hardness
- High conductivity resolution,5 ranges : 20uS x 0.01 uS,200uS x 0.1uS,2 mS x 0.001 mS, 20 mS x 0.01 mS, 200 mS x 0.1 mS
- Resistivity,5 ranges: 100 M-cm,10 M-cm,1 M-cm,100 K-cm, 10 K-cm
- TDS,5 ranges: 20/200/2,000/20,000/200,000 ppm
- Hardness, 5 ranges: 10/100/1,000/10,000/100,000 ppm
- Automatic temp compensation

Dissolved Oxygen Controller/Monitor
PDO-8220

- **Measurement & Range:** Dissolved Oxygen: 0 to 50.0 mg/L (liter), Oxygen in Air: 0 to 100.0%, Temperature: 0 to 50 °C
- **Resolution:** Dissolved Oxygen: 0.1 mg/L, Oxygen in Air: 0.1% O2, Temperature: 0.1°C
- **Accuracy (23±5 °C):** Dissolved Oxygen: ±0.4 mg/L Oxygen in Air: ±0.7% O2, Temperature: ±0.8°C/1.5°F
- **Probe Compensation & Adj:**
Temperature: 0 to 50°C Automatic, Salt: 0 to 39% Salt, Height (M. T.): 0 to 3900 meter

pH/ORP, DO, CD/TDS, Salt
WA-2017SD

SD Card, real time data logger, Water quality, Patent
- pH: 0 to 14.00 pH, ORP: ±1999 mV
- Conductivity: 200 uS/2 mS/20 mS/200 mS
- Dissolved oxygen: 0 to 20.0 mg/L
- Salt: 0 to 12 % salt (% weight)
- Optional PH,ORP,CD/TDS/Salt,DO & ATC probe
- PH meter function can select PH or ORP
- PH measurement can make the auto calibration for pH 7, pH 4 and pH 10 or other value

pH/ORP, DO, CD, TDS, Salt - all in one
WAC-2019SD

SD Card real time data recorder
- pH: 0 to 14.00 pH, ORP : ±1999 mV
- Conductivity: 200 uS/2 mS/20 mS/200 mS
- Hardness: 0 to 100,000 ppm
- Resistance: 5 ohm to 99.99 M ohm
- Dissolved oxygen: 0 to 20.0 mg/L
- Salt: 0 to 12 % salt (% weight)
- Optional PH,ORP,CD/TDS/Salt,DO and ATC probe
- PH measurement can make the auto calibration for pH 7, pH 4 and pH 10 or other value

CO2 Meter + Humidity/Temp.
CO2-9904SD

SD Card real time data recorder
- **CO2:** Range: 0 to 6,000 ppm, Resolution: 1 ppm
Accuracy: ±40 ppm *≤ *1,000 ppm*, ± 5% of reading *> *1,000 ppm ≤ 3,000 ppm*, ±250 ppm typically *> *3,000 ppm, reference only* | • **Humidity/Temperature:**
Humidity: Range: 5 % to 95 % R.H, Resolution: 0.1 % R.H
Accuracy: ≥ 70% RH: ±(3% reading + 1% RH),< 70% RH: ±3% RH | • **Dew Point Temp. (Humidity):** Range: -25.3°C to 48.9°C, Resolution: 0.1°C

1,000 Infrared Thermometer
Dual laser targeting + type K thermometer
TM-969

- IR Measurement Range: -60 to 1000°C (-76 to 1832°F)
- IR Accuracy: ±1°C (1.8°F) *Object Temp.=15 to 35*°C
**Ambient Temp. = 25*°C
±2% of reading or ±2°C (± 4°F) whichever is greater
* *Object Temp.= -33 to 1000*°C * *Ambient Temp.= 23 ± 3*°C
- Type K Thermometer Range: -64 to 1400°C (-83.2 to 2552°F)
- Adjustable emissivity value from 0.1 to 1.00

12 Channels Temp. RECORDER
SD card real time data recorder
BTM-4208SD

- Channels no.: 12 channels (CH1 to CH12) temperature measurement
- Sensor type : Type J/K/T/E/R/S thermocouple
- Type K thermometer: -100 to 1300°C
- Type J thermometer: -100 to 1200°C
- Page select, show CH1 to CH8 or CH9 to CH12 in the same LCD
- Display resolution : 1 degree/0.1 degree





88170 High Temperature Stainless Data Logger - SUS 316

• **Temperature Range:** PT1000 RTD sensor, -40.0~140.0°C , -40.0~284.0°F |• **Temperature Resolution:** 0.1°C, 0.1°F
• **Temperature Accuracy:** ±0.4°C for full range | • **IP:** IP68 (10 meters water deep @30mins)
• **Housing/Probe materials:** Stainless steel SUS316 | • **Logging Type:** Multiple time use till battery power is low
• **Meter Size:** 64 (L) * 31.2 (Dia)mm| • **Probe Size:** 25.8 (L)*3.5 (Dia)mm | • **Sampling Points:** 48,000 readings
• **Weight:** ~175g | • **LED Indicator:** Green:REC, Red: Low battery
• **T90 Response time:** <20 seconds (room Temp. to 90°C) | • **Start Delay:** 0,5,30,45,60,90,120 minutes or 24 hours
• **Operation time:** No longer than 48 hour @121°C autoclave, No longer than 30 mins @134°C autoclave, No longer than 1 week @140°C oven | • **Operating Temp.:** -40~140°C (Logging status); room temp.(PC status)
• **Operating RH%:** Humidity < 80% | • **Storage Temp.:** -40~85°C | • **Storage RH%:** >Humidity < 90%
• **Battery:** 1PC 3.6V Lithium battery (installed before shipment), Battery can last 1 year at 5 seconds sampling rate, in full temperature measuring range | • **Sampling Interval:** 1,5,10,30 seconds, 5,10,30,60,90,120 minutes

Temperature USB 2.0 Data logger
88160

• **Temp. Range:** NTC Thermistor, -30~70°C, -22~158°F •**Temp. Resolution:** 0.1°C, 0.1°F |• Temp. Accuracy: ±0.5°C |•**Sampling Points:** 48000 readings •**Operating Temp.:** -30~70°C (Logging Status); Room Temp. (PC Mode) |•**Operating RH%:** Humidity <90% | • **Storage Temp.:** -40~85°C | • **Storage RH%:** Humidity <90% |•**Sampling Interval:** 30 seconds, 5,10,30,60,90,120 minutes | • **Start Delay:** 0,5,30,45, 60,90,120 minutes and 24 hours

Air Flow Meter with Air Volume Calculation Function-PC link
8906

• **Wind Speed Range:** 0.4~30 m/s; 80~5900 ftm
• **Wind Speed Accuracy:** ±(2% of reading+0.2 m/s)
• **Air Temp. Range:** -10~50.0°C |• **Air Temp. Resolution:** 0.1°C, 0.1°F |• **Air Temp. Accuracy:** ±1°C
• **Temp. Response Time:** 60 seconds (typical)
• **Air Volume Display:** 0~99999 m3/minute
• **Air Volume Resolution:** 0.1 (0~999.9) or 1 (1000~9999)
• **Operating Temp.:** 0~50°C |• **Operating RH%:** Humidity <80% |• **Storage Temp.:** -10~50°C

Temperature USB Data Logger
88181

• **Temp. Range:** NTC Thermistor, -30~70°C, -22~158°F
• **Temp. Resolution:** 0.1°C, 0.1°F |• **Temp. Accuracy:** ±0.5°C |• **Logging Type:** Single Use |• **Sampling Points:** 8192 readings |• **Shelf Life:** 12 months shelf time
• **Operating Temp.:** -30~70°C (Logging Status); Room Temp. (PC Mode) |• **Operating RH%:** Humidity <90%
• **Storage Temp.:** -40~85°C |• **Storage RH%:** Humidity <90% |• **Sampling Interval:** 30 seconds,5,10, 30,60,90, 120 minutes |• **Start Delay:** 0,5,30,45,60,90, 120 minutes

Dual Temp. Recorder with External Probe
88161

• **Temp. Range:** NTC Thermistor, -30~70°C, -22~158°F
• **Temp. Resolution:** 0.1°C, 0.1°F |• **Temp. Accuracy:** ±0.5°C |• **External Temp. Range:** NTC Thermistor, -30~70°C, -22~158°F |• **External Temp. Resolution:** 0.1°C, 0.1°F |• **External Temp. Accuracy:** ±0.5°C |• **Sampling Points:** 24000 Int. and 24000 Ext. readings |• **Operating Temp.:** -30°C~70°C (Logging Status); Room Temp. (PC Mode)
• **Operating RH%:** Humidity <90% |• **Storage Temp.:** -40~85°C | • **Storage RH%:** >Humidity <90%

Sound Level Meter
8922

• **Measure Range:** A weight: 30~130 dB, C weight: 35~130 dB
• **Digital Display (6 ranges):** 30~80, 40~90, 50~100, 60~110, 70~120, 80~130 dB |• **Digital Display Resolution:** 0.1 dB
• **Digital Updating Time:** 160 ms |• **Quasi-analog Bar (6 ranges):** 30~80, 40~90, 50~100, 60~110, 70~120,80~130 dB |• **Quasi-analog Resolution:** 1 dB |• **Bar Updating Time:** 40 ms |• **Accuracy at 94 dB, 1KHz:** ±1.5 dB
• **Analog Output:** AC 0.707 Vrms (at full scale): DC 10 mV/dB
• **Frequency Range:** 31.5 Hz~8 KHz |• **Operating Temp.:** 0~50°C |• **Operating RH%:** Humidity <80%

Professional Sound Level Calibrator
8930

• Calibration Frequency: 1000 Hz |• Frequency Accuracy: ±1.7% |• Sound Pressure Level: 94 dB, 104 dB, 114 dB
• Sound Pressure Accuracy: ±0.4 dB |• Stabilization Time: 10 Seconds |• Total Distortion: <3% |• Ambient Condition Influence: Temperature and Humidity Influence Static Pressure Influence: <0.4 dB at 0~40°C, 25~90% RH
• Stability Levels Short-term Stability (<60s) Stability after 1 year with normal use: ±0.15 dB, ±0.35 dB
• Operating Temperature: 20~30°C

IN/OUT Temperature & RH% Monitor
87792

• Temp. Range: 0~50°C |• Temp. Resolution: 0.1°C, 0.1°F
• Temp. Accuracy: ±1°C |• Temperature Display: -10.0~70.0°C |• Humidity Resolution: 0.1% RH |• Humidity Accuracy: ±5%RH (at 25°C. 10~90%RH, others ±7%RH)
• Humidity Display: 0~99.9% RH |• External Temp. Range: -10~70°C (Display: -30~70°C) |• External Temp. Resolution: 0.1°C, 0.1°F |• External Temp. Accuracy: ±0.6°C(0~50°C), ±1.2°C (-10~0°C, 50~70°C), No Specified for -30~70°C
• Beeper (dB): ~65dB |• Operating Temp.: 0~50°C
• Operating RH%: Humidity <90%

15 psi Economic Digital Manometer
82152

• psi Range (Resolution): Range: 0 to 6,000 ppm, Resolution: 1 ppm |• kPa Range (Resolution): ±103.42 (0.01) |• mmHg Range (Resolution): ±775.7 (0.1) |• Kg/cm2 Range (Resolution): ±1.055 (0.001) |• mbar (hpa) Range (Resolution): ±1034.2 (0.1) |• bar Range (Resolution): ±1.034 (0.001) |• inH2O Range (Resolution): ±415.20 (0.01)
• mmH2O Range (Resolution): ±10546 (1) |• inHg Range (Resolution): ±30.5 (0.001) |• ftH2O Range (Resolution): ±34.6 (0.001) |• oz/inch2 Range (Resolution):±240.00 (0.01)

HACCP Thermometer with RTD Temperature Sensor - Waterproof IP67 Food Safety
8821

• Measure Range: -100.00~300.00°C (-148.00~572.00°F)
• Temp. Resolution: 0.01°C, 0.01°F |• Temp. Accuracy:±0.15°C
• IP rating: IP67 |• Temp. Response Time: 3 mins Typical
• LCD Update Time: Every Second |• Operating Temperature: 10~35°C |• Operating RH%: Humidity <80% |• Storage Temp.: -20~50°C |• Storage RH%: Humidity <90% |• Probe Size: Length: 150 mm, Diameter: 3.2 mm, Handle Length: 100 mm, Cable Length: 1100 mm

K Type Sensor Thermometer Data Logger with Printer
9881

• K Temp. Range: -200~1370°C, -328~2498°F
• K Temp. Accuracy: ±(0.3% rdg+0.7°C), ±(0.3% rdg+1.4°F), (Under 18~28°C ambient tempreature)
• K Temp. Resolution: 0.1°C, 0.1°F
• Operating Temperature: 0~50°C
• Operating RH%: Humidity <80%
• Storage Tempe.:-20~50°C
• Storage RH%: Humidity <90%





86031 Combo Water Quality Tester-pH/COND./SALT/TDS/D.O - Waterproof IP 67

- **pH Measuring Range:** 2.00~12.00 |• **pH Resolution:** 0.01 |• **pH Accuracy:** ±0.1
- **Conductivity Measuring Range:** 0~199.9, 0~1999 us/cm, 0~19.99, 0~150.0 ms/cm
- **Conductivity Resolution:** 0.1 us/cm, 1 us/cm, 0.01ms/cm, 0.1 ms/cm
- **Conductivity Accuracy:** ±1% of F.S ±1 digit |• **TDS Accuracy:** 0.1, 1 ppm, 0.01, 0.1 ppt
- **TDS Measuring Range:** 0~199.9*f, 0~1999*f ppm, 0~19.99*f, 0~150.0*f ppt, (f is TDS factor)
- **TDS Resolution:** ±1% of F.S ±1 digit |• **TDS Factor:** 0.30~1.00 |• **Salinity Resolution:** 0.01 ppt, 0.1 ppt
- **Salinity Measuring Range:** 0~10.00 ppt, 0~42.0 ppt (SEA Water) • **Salinity Accuracy:** ±1% of F.S ±1 digit
- **D.O. Measuring Range:** 0.0~199.9% (0.0~30.0mg/L) |• **D.O. Resolution:** 0.1 | • **D.O. Accuracy:** ±3% of F.S ±1 digit
- **Temperature Measuring Range: -5~60.0°C** | • **Temperature Resolution:** 0.1
- **Temperature Accuracy:** ±0.5°C |• **Compatible Probe:** pH probe (863PAZ), EC probe(833PAZ), D.O. Probe (843PAZ), could be used on one meter at the same time

DO Meter with Memory Function
8403

• DO Measuring Range: 0~199.9 (in %) |• DO Accuracy: ±1.5% F.S (in %) |• DO Resolution: 0.1% (in %)
• DO Measuring Range: 0~19.99 (in ppm or mg/l)
• DO Accuracy: ±1.5% F.S (in ppm or mg/l)
• DO Resolution: 0.01 (in ppm or mg/l) |• Temp. Measuring Range: 0~50.0°C |• Temp. Accuracy: ±0.3°C
• Salinity Adjustable Range: 0.0~50.0 ppt
• Salinity Resolution: 0.1 ppt |• Barometric Pressure Adjustable Range: 500~1499 mmHg/66.6~199.9 Kpa

Red LED Temp. RH Recorder
8809

• Temp. Range: -20~70°C | • Temp. Resolution: 0.1°C, 0.1°F
• Temp. Accuracy: ±0.6°C (0~50°C), others ±1.2°C
• Humidity Range: 0~100% RH |• Display Type: RED LED
• Humidity Resolution: 0.1% RH
• Humidity Accuracy: ±3%RH (at 25°C. 10~ 90%RH, others ±5%RH) |• Sampling Points: 8K:T, 8K:RH%
• Start Logging Method: Schedule / Immediately Start/ Key Start/ Repeat Start
• Storage Temperature: -20~50°C
• Storage RH%: Humidity <90%

Dissolved Oxygen Pen with Floating Probe
84131

• DO Measuring Range: 0.0~199.9 (in %)
• DO Accuracy: ±3% F.S (in %) |• DO Resolution: 0.1% (in %)
• DO Measuring Range: 0.00~20.00 (in mg/l)
• DO Accuracy: ±0.4 (in mg/l) |• DO Resolution: 0.01 (in mg/l)
• Temp. Measuring Range: 0~50.0°C, 32~122°F
• Temp. Accuracy: ±0.5°C, 0.9°F |• Temp. Resolution: 0.1°C
• Salinity Adjustable Range: 0.0~45.0 ppt
• Salinity Resolution: 0.1 ppt | • Barometric Pressure Adjustable Range: 500~760 mmHg/101.3~66.7 Kpa

Multi-parameter Benchtop Water Quality Meter - pH/ORP/Cond./TDS/Salinity
86505

• pH Measuring Range: 0.00~14.00 |• pH Accuracy: ±0.02 • mV Measuring Range: ±1999 mV |• mV Accuracy: ±0.2 mV (-199.9~199.9mV) or ±2 mV (others) |• Cond. Measuring Range: 0~19.99, 0~199.9, 0~1999 us/cm, 0~19.99, 0~199.9 ms/cm |• Cond. Accuracy: ±1% F.S ±1 digit |• TDS Measuring Range: 0~19.99, 0~199.9, 0~1999 ppm, 0~19.99, 0~199.9 ppt |• TDS Accuracy: ±1% F.S ±1 digit |• Salinity Measuring Range: 0~11.38 ppt, 0~80.0 ppt (NaCl) |• Salinity Accuracy: ±1% F.S ±1

Digital Water pH Meter with PC Link
8601

• pH Measuring Range: 0.00~14.00 |• pH Accuracy: ±0.02
• pH Resolution: 0.01 |• mV Measuring Range: -499~499 mV |• mV Accuracy: ±0.2 mV (±0.1~195.0) or ±2 mV (±190~499) |• mV Resolution: ±0.1 mV (±0.1~195.0) or ±1 mV (±190~499) |• Temperature Measuring Range: 0~60.0°C |• Temperature Accuracy: ±0.3°C |• Temperature Resolution: 0.1°C | • pH Calibration: Up to 3 points |• Operating Temperature 0~50°C |• Operating RH%: Humidity <80% |• Storage Temperature: -10~50°C

Professional 8960FPS High Speed Camera
9502

• CMOS: 5 Mega pixel, 1" optical format, global shutter
• Maximum Speed: 8960 FPS (320 x 128) |
• Res (H x V) vs FPS: Ratio 5:2, Ratio 16:9, Ratio 5:4
• Pixel Size: 5 um Sq.pixels |• Maximum Shutter: 1uS
• Light Sensitivity (Analog gain control): ISO 100-6400 (monochrome), 1x/2x/4x/8x/16x/32x/64x
• Digital Gain Control: 0.01~16x
• Image Output: *.bmp/*.jpg/*.png/
• Video Output: MPEG2 (*.mpg)/H.264(*.mp4)

CO2 & Temp. & RH with Relay Function
7722

• CO2 Range: 0~9999 ppm (2001~9999 ppm out of scale range) |• CO2 Resolution: 1 ppm |• CO2 Accuracy: ±50 ppm ±5% of reading (0~2000 ppm), other range are not specified |• CO2 Response Time: < 30 Seconds (90% step change) |• CO2 Warm-up Time: 30 Seconds |• Air Temp. Range: -10~60°C, 14~140°F |• Air Temp. Resolution: 0.1°C, 0.1°F
• Air Temperature Accuracy: ±0.6°C, ±0.9°F
• Humidity Range: 0.1~99.9% RH | • Humidity Accuracy: ±3%RH (at 25°C, 10~90%RH);

CO2 & Temperature & Relative Humidity Meter
7755

• CO2 Range: 0~9999 ppm, (2001~9999 ppm out of scale range) |• CO2 Resolution: 1 ppm |• CO2 Accuracy: ±50 ppm ±5% of reading (0~2000 ppm), other range are not specified |• CO2 Response Time: < 30 Seconds (90% step change) |• CO2 Warm-up Time: 30 Seconds |• Air Temp. Range: -10~60°C, 14~140°F |• Air Temp. Accuracy: ±0.6°C, ±0.9°F
• Humidity Range: 0.1~99.9% RH |• Humidity Accuracy: ±3%RH (at 25°C, 10~90%RH); others ±5%RH

CO2 Monitor & Controller (Relay Function) with Remote Sensor
7530

• CO2 Range: 0~5000 ppm |• CO2 Accuracy: (below 3000 ppm): ±50 ppm or ±5% of reading, whichever is greater
• CO2 Accuracy (above 3000 ppm): ±7% of reading
• Warm-up Time: 30 Seconds |• CO2 Response Time: < 2 min for 63% of step change or < 4.6min for 90% step change | • Operating Temperature: 0~50°C
• Operating RH%: 5~95% RH (avoid condensation)
• Storage Temperature:-20~60°C

WBGT Heat Stress Monitor with 75 mm Black Ball
8778

• Temp. Range: 0~50°C |• Temp. Resolution: 0.1°C, 0.1°F |• Temp. Accuracy: ±0.6°C |• Humidity Range: 0.1~99.9% RH |• Humidity Resolution: 0.1% RH
• Humidity Accuracy: ±3%RH (at 25°C, 10~90%RH); others ±5%RH |• Global Temperature (Inside Black Ball): 0~80°C |• Global Temp. Accuracy (Indoor): ±1°Cat 15~40°C, others ±1.5°C |• Global Temp. Accuracy (Outdoor): ±1.5°Cat 15~40°C, others ±2°C

86031
pH/ COND./ SALT/TDS/DO Meter
Waterproof IP 67

TU-2016
Turbidity Meter

CL-2006
Chlorine Meter

Explorer Handheld XRF

HM-3000P
Portable Water Quality Analyzer
Heavy Metal