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ELECTRONIC MEASUREMENT INSTRUMENTS

Microwave/Millimeter-wave Measurement Instruments

Basic Measurement Instruments

Opto-Electronic Measurement Instruments

Automatic Test System Solutions

Microwave/ Millimeter-Wave Components



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About Us

Ceyear Technologies Co., Ltd has been committed to providing customers with precise, high quality electronic measurement instruments and services over the last 50 years.

Now we have become one of the largest manufacturers of electronic test and measurement equipment in the world. We supply electronic measurement instruments with frequency up to 500GHz, such as signal generators, signal analyzers, network analyzers, power meters and microwave components, which can be used for electronic test and measurement in aviation industry, material test and communications upgrading. We, as an important partner of electronic industry, network operators and public laboratory, provide comprehensive solutions on the basis of perfect products, including simulation and analysis of complex electromagnetic signal, construction and maintenance of optical fiber communications network, construction and maintenance of wireless communications network, and establishment of general laboratory.

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Automatic Test System Solutions

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- Comprehensive Electromagnetic Material Comprehensive Test Platform

Microwave/ Millimeter-Wave Components

- Passive Components
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 Signal Generators

Signal Generators
1435A/B/C/D/F
Signal Generator

Frequency Range	9kHz~3GHz (1435A) 9kHz~20GHz(1435D)	9kHz~6GHz(1435B) 9kHz~40GHz(1435F)	9kHz~12GHz(1435C)
Frequency Resolution	0.001Hz		
SSB Phase Noise	(1GHz carrier):<-136dBc/Hz @ 10kHz	(10GHz carrier):<-116dBc/Hz @ 10kHz	
Harmonic	<-30dBc		
Power Range	-135dBm~+20dBm		
Modulation Type	AM, FM, Phase Modulation, Pulse Modulation and Narrow Pulse Modulation		



Signal Generators
1465C/D/F/H/L
Signal Generator

Frequency Range	100kHz~10GHz(1465C) 100kHz~50GHz(1465H)	100kHz~20GHz(1465D) 100kHz~67GHz(1465L)	100kHz~40GHz(1465F)
Frequency Resolution	0.001Hz		
SSB Phase Noise	(1GHz carrier): < -142dBc/Hz @ 10kHz	(10GHz carrier): < -126dBc/Hz @ 10kHz	
Maximum Output Power	1W @ 20GHz	Sweep Mode:Step Sweep,List Sweep,Analog Sweep,Power Sweep	
Modulation Type	Analog modulation,Pulse modulation and Narrow Pulse Modulation		



Signal Generators
1435A/B-V
Signal Generator

Frequency Range	9kHz~3GHz(1435A-V)	9kHz~6GHz(1435B-V)
Frequency Resolution	0.001Hz	
SSB Phase Noise	(6GHz carrier):<-104dBc/Hz @ 10kHz	
With Ultra-low Phase Noise Option	(6GHz carrier):<-120dBc/Hz @ 10kHz	
Power Range	-135dBm~+20dBm	
Modulation Type	AM, FM, Phase Modulation, Pulse Modulation and Narrow Pulse Modulation	
RF Bandwidth	120, 200MHz	
External Modulation Bandwidth	200MHz	
Supported Calibrated AWGN Signal Generation		



Signal Generators
1465C/D/F/H/L -V
Signal Generator

Frequency Range	100kHz~10GHz(1465C-V) 100kHz~50GHz(1465H-V)	100kHz~20GHz(1465D-V) 100kHz~67GHz(1465L-V)	100kHz~40GHz(1465F-V)
Internal Modulation Bandwidth	120, 200MHz		
External Modulation Bandwidth	2GHz		
EVW	< 1.4%(4Msps) in full frequency		
SSB Phase Noise	(10GHz carrier): < -126dBc/Hz @ 10kHz		
Arbitrary wave data of five storage formats	Mat-File 5, ASCII, Binary, Cap, CSV, can be directly downloaded and played, with 2G sample memory depth.		

▼ THz Test Solution



THz Test Solution

82401/6 Series Millimeter-Wave Source Module

Frequency Range	50GHz~75GHz(82406) 90GHz~140GHz(82401QA) 170GHz~260GHz(82401SA) 325GHz~500GHz(82406E)	60GHz~90GHz(82401N) 110GHz~170GHz(82406B) 220GHz~325GHz(82406D)	75GHz~110GHz(82406A) 170GHz~220GHz(82406C) 260GHz~400GHz(82401TA)
Input Frequency	<20GHz		
Compact and portable, low consumption, low heating volume, standard waveguide output			
Built-in high gain microwave amplifier which lowers the requirement on signal generator			



Signal/Spectrum Analyzers

4051A/B/C/D/E/F/G/H/L/N Signal/Spectrum Analyzer

Frequency Range	3Hz~4GHz(4051A) 3Hz~18GHz(4051D) 3Hz~45GHz(4051G) 3Hz~85GHz(4051N)	3Hz~9GHz(4051B) 3Hz~26.5GHz(4051E) 3Hz~50GHz(4051H)	3Hz~13.2GHz(4051C) 3Hz~40GHz(4051F) 3Hz~67GHz(4051L)
Max. Signal Analysis Bandwidth	40, 200, 550MHz, 1GHz, 1.6GHz		
Resolution Bandwidth	1Hz~3MHz (1, 2, 3, 5 steps), 4, 5, 6, 8, 10, 20 MHz		
SSB Phase Noise(1GHz carrier)	<-129dBc/Hz @ 10kHz(typical)		
DANL	-135dBm/Hz(67GHz typical)		
Abundant function options	Vector Signal Analysis, Real-time Spectrum Analysis, Noise Figure Analysis, Phase Noise Measurement etc.		
Flexible Analog and Digital signal output interfaces			

▼ Signal/Spectrum Analyzers



Signal/Spectrum Analyzers

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

Frequency Range	9kHz~4GHz(4024A) 9kHz~20GHz(4024D) 9kHz~44GHz(4024G)	9kHz~6.5GHz(4024B) 9kHz~26.5GHz(4024E) 9kHz~50GHz(4024H)	9kHz~9GHz(4024C) 9kHz~32GHz(4024F) 9kHz~67GHz(4024L)
Resolution Bandwidth	1Hz~10MHz		
Displayed Average Noise Level	-163dBm @ 1HzRBW(typ.)		
Phase Noise (1GHz carrier)	-112dBc/Hz @ 100kHz (4024A/B/C) -106dBc/Hz @ 100kHz (4024D/E/F/G/H/L)		
Measurement Functions	Field Strength Measurement, Channel Power, Occupied Bandwidth, ACPR, Tune & Listen, Carrier-to-Noise Ratio, Emission Mask, Interference Analysis etc.		



Signal/Spectrum Analyzers

4051A/B/C/D/E-S Signal/Spectrum Analyzer

Frequency Range	3Hz~4GHz(4051A-S) 3Hz~18GHz(4051D-S)	3Hz~9GHz(4051B-S) 3Hz~26.5GHz(4051E-S)	3Hz~13.2GHz(4051C-S)
Resolution Bandwidth	1Hz~3MHz (1, 2, 3, 5 steps), 4, 5, 6, 8, 10, 20 MHz		
SSB Phase Noise(1GHz carrier)	<-118dBc/Hz @ 10kHz		
DANL	-141dBm/Hz(26.5GHz typical)		
Phase Noise Measurement Function			
An Economical Spectrum Analyzer with a relative High Performance			

Signal/Spectrum Analyzers**82407 Series Millimeter-Wave Harmonic Mixer**

Frequency Range	50GHz~75GHz(82407) 75GHz~110GHz(82407A) 170GHz~220GHz(82407C) 325GHz~500GHz(82407R)	60GHz~90GHz(82407NB) 90GHz~140GHz(82407QA) 220GHz~325GHz(82407D)	60GHz~90GHz(82407NC) 110GHz~170GHz(82407B) 260GHz~400GHz(82407TA)
Displayed Average Noise Level <-150dBm/Hz			
Intelligent USB interface to connect with spectrum analyzer, automatic recognition of harmonic mixer and automatic configuration of conversion loss, etc.			

Network Analyzers**3656A/BA/B/D Vector Network Analyzer**

Frequency Range	100kHz~3GHz(3656A) 100kHz~8.5GHz(3656B)	100kHz~6.8GHz(3656BA) 300kHz~20GHz(3656D)
Dynamic Range	up to 125dB, suitable for accurate measurement of high suppression ratio devices	
	75Ω testing port impedance option, suitable for cable TV components measurement	
	Provide 64 independent testing channels	
	Measurement Functions: Ripple test, Bandwidth test, Limits test, Time Domain Analysis, 4-port test and Fixture Simulation, etc.	
Interface Type	LAN, GPIB, USB	

Network AnalyzersNetwork Analyzers**3680A/B Cable & Antenna Analyzer**

Frequency Range	1MHz~4GHz(3680A)	1MHz~8GHz(3680B)
Directivity	≥42dB (3680A)	≥42dB (1MHz~6 GHz) (3680B)
Measurement Speed	1ms/ point(10kHzIF bandwidth)	
Build-in Electronic Calibration Kit		
Support SWR, Return Loss, Impedance and Phase Format Measurement		
Accurate Location OfFault (DTF) Test		
Touch screen, auto adjustable brightness		
Weight	<2.5kg	

Network Analyzers**3672A/B/C/D/E Vector Network Analyzer**

Frequency Range	10MHz~13.5GHz(3672A) 10MHz~50GHz(3672D)	10MHz~26.5GHz(3672B) 10MHz~67GHz(3672E)	10MHz~43.5GHz(3672C)
Flexible calibration types, compatible with multiple calibration kits			
Multiple windows and channels			
Display Format	Logarithmic amplitude, linearity amplitude, SW, Smith chart, etc.		
USB, GPIB, LAN and VGA			
12.1-inch High Resolution Touch Screen			
Record/Operate Operation to realize one-key measurement			
Function: Pulse S-parameter measurement, Time-Domain measurement, Mixer measurement, 2D Gain Compression measurement, Noise Figure Measurement, Millimeter-wave spectrum extension, Antenna and RCS measurement etc.			

**Network Analyzers****3671C/D/E
Vector Network Analyzer**

Frequency Range	100kHz/10MHz~14GHz(3671C) 100kHz/10MHz~26.5GHz(3671E)	100kHz/10MHz~20GHz(3671D)
Maximum IF Bandwidth	up to 30MHz	
Dynamic Range	135dB (Typ.)	
Advanced TDR option		
AFR Application for PCB Measurement		
Calibration kits are flexible for your choice, compatible with abundant calibration kits		
Multiple windows and channels		
Display Format	Log Amplitude, Linearity Amplitude, Standing Wave Ratio, Smith chart, etc.	
Interface	USB, GPIB, LAN and VGA	
12.1-inchHigh-Resolution Touch Screen		

**Network Analyzers****Mechanical
Calibration Kits**

Frequency Range	DC~67GHz(coaxial series)	2.6GHz~500GHz(waveguide series)
Abundant models and types		
High Calibration Accuracy and ExcellentRepeatability		

**Network Analyzers****Electronic
Calibration Kits**

Frequency Range	300kHz~18GHz(20402) 10MHz~50GHz(20404)	10MHz~26.5GHz(20403) 10MHz~67GHz(20409)	10MHz~20GHz(20405)
Max. Damage Level	+10dBm		
Easy Connection, Fast Calibration			
USB interface for communication and power supply			

**Network Analyzers****3643 Series Millimeter-
Wave VNA Extender**

Frequency Range	40GHz~60GHz(3643K) 75GHz~110GHz(3643P) 140GHz~220GHz(3643SA) 260GHz~400GHz(3643TA)	50GHz~75GHz(3643NA) 90GHz~140GHz(3643QA) 170GHz~260GHz(3643R) 325GHz~500GHz(3649B)	60GHz~90GHz(3643N) 110GHz~170GHz(3643Q) 220GHz~325GHz(3643S)
System Dynamic Range	≥100dB		
Effective Directivity	≤-35dB		
Standard Waveguide Flange Interface			
VNA Match	3672 Series Vector Network Analyzer, PNA-X Series Vector Network Analyzer etc		

 Noise Figure Analyzer

Noise Figure Analyzer

**3986A/D/E/F/H
Noise Figure Analyzer**

Frequency Range	10MHz~4GHz(3986A) 10MHz~18GHz(3986D) 10MHz~26.5GHz(3986E) 10MHz~40GHz(3986F) 10MHz~50GHz(3986H)
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Standard Pre-LNA Configuration

Noise Figure Measurement Range 0~30dB; Uncertainty: $\pm<0.1$ dBGain Measurement Range -20dB ~+40dB; Uncertainty: $\pm<0.17$ dB

Jitter (Uneven) <0.17dB

Measurement Mode Amplifier, Up-converter, Down-converter Measurement

Measurement Function single sideband measurement, double sideband measurement

 Microwave Power Meter

Microwave Power Meter

**2438CA/CB/PA/PB
Microwave Power Meter**

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



Noise Figure Analyzer

**16603/16604
Series Noise Source**

Frequency Range	10MHz~18GHz(16603DA/16604DA) 10MHz~26.5GHz(16603EB/16604EB) 10MHz~50GHz(16603HB/16604HB)	10MHz~18GHz(16603DB/16604DB) 10MHz~40GHz(16603FB/16604FB)
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Excess Noise Ratio	5dB~8dB (16603DA/16604DA) 12dB~17dB (16603EB/16604EB) 10dB~19dB (16603HB/16604HB)	14dB~17dB (16603DB/16604DB) 12dB~19dB (16603FB/16604FB)
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Microwave Power Meter

**71710 Series
CW Power Sensor**

Frequency Range	9kHz~12GHz (71710A) 50MHz~40GHz (71710F)	10MHz~18GHz (71710D) 50MHz~67GHz (71710L)	50MHz~26.5GHz (71710E)
Power Range	60dBm~+20dBm (71710A)	-70dBm~+20dBm (71710D/E/F/L)	



Microwave Power Meter

**81702 Series Peak
Power Sensor**

Frequency Range	50MHz~18GHz (81702D) 500MHz~40GHz(81702F)	500MHz~26.5GHz (81702E) 500MHz~67GHz(81702L)
Power Range	20dBm~+20dBm	
Rise Time	≤ 10 ns(Carrier Frequency ≥ 500 MHz)	



Microwave Power Meter

81703 Series Peak Power Sensor

Frequency Range	50MHz~18GHz (81703D) 500MHz~40GHz(81703F)	500MHz~26.5GHz (81703E) 500MHz~67GHz (81703L)
Power Range	-40dBm~+20dBm	
Rise Time	≤100ns	



Microwave Power Meter

87230 Series USB CW Power Sensor

Frequency Range	9kHz~6GHz(87230) 50MHz~26.5GHz(87232)	10MHz~18GHz(87231) 50MHz~40GHz(87233)
Power Range	-60dBm~+20dBm(87231/87232/87233)	-50dBm~+20dBm(87230)
Zeroing Accuracy	≤1nW(87231/87232/87233)	≤10nW(87230)
Available for accurate measurement of CW signal absolute power		
Compatible with common computers and some Ceyear measurement instruments		
Fast setup of microwave power testing system		



Microwave Power Meter

87234 Series USB Peak Power Sensor

Frequency Range	50MHz~18GHz(87234D) 50MHz~40GHz(87234F)	50MHz~26.5GHz(87234E) 500MHz~67GHz(87234L)
Power Range	-30dBm~+20dBm(50MHz to 500MHz) -45dBm~+20dBm (Average Mode)	-35dBm~+20dBm(≥500MHz)
Rise/Fall Time	≤13ns	
Sampling Rate	80MSamples/sec, continuous sampling	
Minimum Pulse Width	50ns	

RF and Microwave Multifunctional Analyzers



CAT and VNA Mode

Frequency Range	30kHz~6.5GHz(4957B)30kHz~18GHz(4957D) 30kHz~26.5GHz(4957E)50MHz~40GHz(4957F)
SA Mode	
Frequency Range	9kHz~6.5GHz(4957B)100kHz~18GHz(4957D) 100kHz~26.5GHz(4957E)100kHz~40GHz(4957F)
Resolution Bandwidth	1Hz~10MHz(4957B) 1Hz~5MHz(4957D/E/F)
SSB Phase Noise(1GHz carrier)	≤-112dBc/Hz @ 100kHz(4957B) ≤ -99dBc/Hz @ 100kHz(4957D/E/F)
Test Function	Cable and Antenna Test, Vector Network Analyzer, Spectrum Analyzer, Power Monitoring, Vector Voltmeter, USB Power Measurement, etc.
Storage Device	internal memory, USB or SD card
Test data can be saved and recalled	
Battery-powered, suitable for field application	
Intelligent Power Management: remaining charge indication, low battery alarm	
Interface Type	LAN, USB
Weight	<4.3 kg



RF and Microwave Multifunctional Analyzers

4992A Radio Test Set

Frequency Range	2MHz ~ 1GHz/2.7GHz
Integrates RF emitter and receiver, audio source and analyzer, etc	
Dual RF sources, excellent spectrum purity	
Operating Temp.	-10 ~ +50°C, Dust Resistant
Weight	2.6kg



RF and Microwave Multifunctional Analyzers

4945B/C Radio Communications Test Set

Max. Damage Level	150W
RF testing Function	sweep spectrum analysis, power measurement frequency error measurement, RF signal generation
Analog Format Communication Test	AM, FM, SSB signal generation and analysis Audio signal generation and analysis
Digital Format Communication Test(Option)	10MHz bandwidth digital vector signal generation and analysis, error rate measurement
Frequency Hopping Test(Option)	60MHz bandwidth frequency hopping signal generation and analysis
Dual-Channel Oscilloscope(Option)	DC~4MHz
Auto Testing Software	DUT parameter edit, self –initializing test, testing result management
Power Supply	AC220V, DC24V, lithium battery(option)
LAN interface for remote control	
Touch screen	
Weight	≤ 12kg



RF and Microwave Multifunctional Analyzers

3943 Monitoring Receiver

Frequency Range	9kHz~8GHz
Maximum 20MHz Analysis Bandwidth	
Phase Noise(500MHz Carrier)	<-95dBc/Hz @ 10kHz <-95dBc/Hz @ 100kHz
DANL	≤-153dBm/Hz(7.5GHz to 8GHz)
Support FFM, FSCAN, PSCAN, MSCAN, HSCAN Sweep Mode	
Compatible with ITU Standard	
Integrated with Record, Replay, Hunt, Interception, Measurement, Demodulation, Analyze, DF Measurement, Locate and Video Recovery	
Equipped with Micro-USB, RJ45, USB Interface	

Power Amplifier

**Power Amplifier****387XX Series Solid-State Power Amplifier**

Frequency Range	500MHz~6GHz(3871AS/AT/AU) 1GHz~6GHz(3871AB) 18GHz~26.5GHz(3871EA/EB/EC) 32GHz~40GHz(3871FB) 18GHz~40GHz(3871FP/FQ/FR)	1GHz~2.5GHz(3871AA/AP) 6GHz~18GHz(3871DA/DB/DC/DD) 26GHz~32GHz(3871FA) 26GHz~40GHz(3871FE/FF/FG)
Gain(Min.)	50/53/56dB(3871AS/AT/AU) 48dB(3871AB) 43/46/53dB(3871EA/EB/EC) 43dB(3871FB) 46/50/53dB(3871FP/FQ/FR)	53/55dB(3871AA/AP) 46/50/53/56dB(3871DA/DB/DC/DD) 43dB(3871FA) 43/49/53dB(3871FE/FF/FG)
	Wide frequency band amplification and high power level output	
	Built-in power meter can provide a more precise power output	
	Automatic Level Control to output an absolute power level	

Digital Phosphor Oscilloscope (DPO)**Digital Phosphor Oscilloscope (DPO)****4456C/D/E/CM/DM/EM
Digital Phosphor
Oscilloscope (DPO)**

Analog Bandwidth	350MHz (4456C/CM)	500MHz (4456D/DM)	1GHz (4456E/EM)
Analog Channels	4		
Digital Channel	16		
Vertical Resolution	8bit		
Sampling Rate	5GSa/s(single channel), 2.5GSa/s(four channels)(4456C/D/E); 5GSa/s(single channel), 1.25GSa/s(four channels)(4456CM/DM/EM)		
Memory Depth	500Mpts/CH (4456C/D/E) ; 200Mpts/CH (4456CM/DM/EM)		
Five-in-One Function	Oscilloscope, Logic Analyzer, Function Generator, ProtocolAnalyzer, Digital Voltmeter		

Optical Fiber Fusion Splicers**Optical Fiber Fusion Splicers****6481A/B/A+/B+
Fiber Fusion Splicer**

Applicable Fiber	general optical fiber, rubber-covered fiber, and jumper conforms to ITU-T G.651~653, G.655, G.657	
Fiber Diameter	cladding:80~150 μm	coating:0.1~3mm
Cleaved Length	5~16mm(covered fiber diameter≤250 μm)	10mm(covered fiber diameter: 0.25~3mm)
Splice Loss(typical)	6481A: 0.02dB(SMF), 0.01 dB(MMF), 0.04 dB(DSF), 0.04 dB(NZDSF) 6481B: 0.03dB(SMF), 0.02 dB(MMF), 0.04 dB(DSF), 0.04 dB(NZDSF)	
Numbers of Motor	6(6481A)	4(6481B)
Alignment	6481A:precise fiber core alignment, cladding alignment, manual alignment 6481B: cladding alignment, manual alignment	
	7s fast splicing, 18s highly efficient pyrocondensation	
	320 times image magnification, 5mm fusion splicing for fibers of ultra-short cutting length	
	300 groups of fusion splicing modes, 100 groups of heating modes	
	10000 groups of fusion records, 64 images storage	
	Ceramic presser foot, ceramic V-groove, all-in-one fixture	
	GUI and touch screen design	

**Optical Fiber Fusion Splicers****6482 H4/H6
Fiber Fusion Splicer**

Applicable Fiber	SMF(G.652), MMF(G.651), DSF(G.653), NZDSF(G.655), BIF(G.657)	
Optical Fiber Diameter	80~150 μm/100~3000 μm	
Cleaved Length	5~16mm	
Average Splice Loss (typical)	6482H4: SM:0.03dB; MM:0.02dB; DS:0.05dB; NZDS:0.05dB 6482H6: SM:0.02dB; MM:0.01dB; DS:0.04dB; NZDS:0.04dB	
Alignment method	6482H4: Cladding alignment	6482H6: Cladding/Core alignment
Splicing time	5s	
Heating time	9s	
Splicing records	10000 splicing records	
Weight	6482H4:1.7kg	6482H6:1.9kg

Optical Fiber Fusion Splicers**33012 Fiber Cleaver**Cross Section: cross section angle $\leq 1^\circ$

Service Life of Circular Blade 20000 times

Excellent perpendicularity, fineness and high performance-price ratio, easy operation

Applicable Fiber: single mode, multi-mode silica fiber (cladding diameter 80~125 μm , core number: 1~12)Optical Fiber Fusion Splicers**86403 Fiber Cleaver**

Imported circular blade with high precision, service life of the blade is 40000 times

One step operation

Magnetic fixing method for the fiber holder, easy to change the fixture

Automatic reset of blade and automatic collection of chopped fiber

OTDRs**6420 Optical Time-Domain Reflectometer (OTDR)**

Working Wavelength 850nm/1300nm/1310nm/1490nm/ 1550nm/1625nm/1650nm(optional)

Test Range 0.4, 0.8, 1.6, 3.2, 6.4, 16, 32, 64, 128, 256 and 512km (single-mode)
0.4, 0.8, 1.6, 3.2, 6.4, 16 and 32km(850nm multi-mode) $\leq 1.5\text{m}$ extra-short event dead zone, easy to test fiber jumper

40dB wide dynamic range, 256k data sampling points

VFL, Optical Power Meter, Optical Source Functions

Ethernet Remote Control Function

Abundant interface & port USB, Micro-USB, Ethernet, Earphone, Micro-SD

Weight $\leq 0.9\text{kg}$ **OTDRs**OTDRs**6422 Optical Time-Domain Reflectometer (OTDR)**

850nm/1300nm/1310nm/1490nm/ 1550nm/1625nm/1650nm(optional)

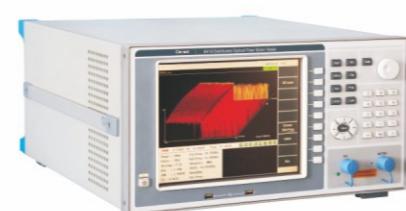
Test Range 0.4, 0.8, 1.6, 3.2, 6.4, 16, 32, 64, 128, 256 and 512km (single-mode)
0.4, 0.8, 1.6, 3.2, 6.4, 16 and 32km(850nm multi-mode) $\leq 0.5\text{m}$ extra-short event dead zone, easy to test fiber jumper

50dB wide dynamic range, 256k data sampling points

VFL, Optical Power Meter, Optical Source Functions

Ethernet Remote Control Function

Abundant interface & port USB, Micro-USB, Ethernet, Earphone, Micro-SD

Weight $\leq 1.8\text{kg}$ OTDRs**6419/6419A Distributed Optical Fiber Strain Tester(BOTDR)**Working Wavelength 1550nm $\pm 5\text{nm}$

Max. Test Range 80km(6419) 128km(6419A)

Strain Test Accuracy $\pm 50 \mu\epsilon$ (10-20ns) $\pm 10 \mu\epsilon$ (50-200ns)Strain Test Range -15000~+15000 $\mu\epsilon$ (6419) -30000~+40000 $\mu\epsilon$ (6419A)

Simultaneous testing of strain distribution, loss distribution and Brillouin scattering spectrum

With advantage of high accuracy, good repeatability and single port lossless testing

Widely used in the solid state check of bridge, dam, tunnel, tall buildings, drilling platform and oil pipe and forecast of natural disasters, such as landslide and mudslide. Also used in the solid check of intelligent structures on the large ship and aerospace vehicles

Optical SourceOptical Source**6313C Laser Source**

Dual-wavelength dual-port output	1310nm±20nm; 1550±20nm
Optical Spectrum Width	≤5nm
Output Power	≥-7dBm(single mode)
Short-Term Stability	±0.02dB/15min
Long-Term Stability	±0.15dB/8h
Built-in modulation function, can switch between CW,270Hz, 1 kHz and 2 kHz	
Available for optical cable testing, loss measurement of optical passive devices, wavelength responsibility testing of detectors and environmental characteristic testing of optical devices	

Optical Source**6318 Series Optical Fiber Visual Fault Locator(VFL)**

Optical Source	LD
Wavelength	650nm±10nm(6318A/B/C)
Output Power	6318A/B/C:1/10/20/30/50 mW(SM/MM)
Output Type	6318: 1 Hz/CW6318A/B/C:2-3Hz/CW
Distance of Locating	6318A/B/C:5km~20km
Good outlook, small size, easy to carry	
Direct locating optical fiber faults, more convenient and accurate	
Fast detection of end of jumper, connector defects and fiber breakpoints within OTDR dead zone	

Optical Power MetersOptical Power Meters**6337D
Optical Power Meter**

Wavelength Range	800~1700nm (depending on different models)
Optical power self-calibration test function	
Power Range	-90dBm~+10dBm
Available for zero adjustment, auto-range, wave-length response compensation, data storage, light division ratio, light division loss testing, etc.	
Graphical analysis function of optical power fluctuation	

Optical Power Meters**2498C/D
Optical Power Meter**

Power Measurement Range	-70dBm~+3dBm (module P1)	-50dBm~+26dBm (module P2)
Power Measurement Uncertainty	±5% (-10dBm, 1310nm)	
Optical Source	Center Wavelength: 1310/1550±20nm	Output Power: ≥-3dBm
Optical Interface	FC/UPC	
Electrical Interface	USB	
Function	Data storage and data reading, automatic zero adjustment	

Optical Attenuator**Optical Attenuator****6383A/B
Variable Attenuator**

Wavelength Range	1200nm~1650nm
Max. Attenuation	80dB(6383A) 65 dB (6383B)
Displayed Resolution	0.001dB
Insertion Loss	≤1.5 dB(@ 1550nm)
Attenuation Accuracy	±0.3dB(6383A) ±0.15dB (6383B)
Repeatability	±0.03dB (6383A) ±0.015dB (6383B)
Return Loss	≥40dB(SM)

Ceyear Technologies is dedicated to research and application of advanced measurement technologies. In the field of automatic testing, we adopt the most advanced structures in the world based on the research of leading automatic testing technologies and our accumulation of testing requirements of users. We gradually build the product system of "core software + Four types of general-purpose test platform Multiple practical test systems", including general-purpose test platform, radar test platform, electromagnetic environment test platform and electronic countermeasure test platform. Products are widely used in national defense and industrial tests, such as aviation, aerospace, warships, radar, communications and weapon equipment.

Microwave/Millimeter-Wave Antenna Test System

✓ Microwave/Millimeter-Wave RCS Test System



✓ Microwave/Millimeter-Wave RCS Test System



With international advanced microwave/millimeter-wave CAD technology,mature micro-strip circuit techniques and micro-assembly equipment,we can produce variousmicrowave/millimeter-wave components, which are characterized in high frequency up to 500GHz,widefrequency range, modularization and different interfaces. The products can be widely used in measurement/testing, communications, aviation and aerospace equipment, etc.

✓ Passive Components

The main products include coaxial adapters, waveguide coaxial adapters, loads, calibration kits, attenuators, switches, DC blocks, etc. Coaxial connectors have 7mm,Type-N, 3.5mm, 2.92mm, 2.4mm and 1.85mm with frequency up to 67GHz; and frequency of waveguide products is up to 500GHz.

✓ Active Components

The main products are mixers, broadband solid-state amplifiers,detectors, , and with frequency up to 500GHz.