

# ELECTRONIC MEASUREMENT INSTRUMENTS

Microwave/Millimeter-wave Measurement Instruments

Basic Measurement Instruments

Opto-Electronic Measurement Instruments

Automatic Test System Solutions

Microwave/ Millimeter-Wave Componentss





## CEYEAR TECHNOLOGIES CO., LTD

### 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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Signal Generators



Signal Generators

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

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



Signal Generators

# 1435A/B-V Signal Generator

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



Signal Generators

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

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



Signal Generators

# 1465A/B/C/D/F/H/L -V Signal Generator

<b>Frequency Range</b>	100kHz~3GHz(1465A-V) 100kHz~20GHz(1465D-V) 100kHz~67GHz(1465L-V)	100kHz~6GHz(1465B-V) 100kHz~40GHz(1465F-V)	100kHz~10GHz(1465C-V) 100kHz~50GHz(1465H-V)
<b>Internal Modulation Bandwidth</b>	120, 200MHz		
<b>External Modulation Bandwidth</b>	2GHz		
<b>EVW</b>	< 1.4%(4Msps) in full frequency		
<b>SSB Phase Noise</b>	(10GHz carrier): <-126dBc/Hz@10kHz		
<b>Arbitrary wave data of five storage formats</b>	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

<b>Frequency Range</b>	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)
<b>Input Frequency</b>	<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



Signal/Spectrum Analyzers

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

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



## Signal/Spectrum Analyzers

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

<b>Frequency Range</b>	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)
<b>Max. Signal Analysis Bandwidth</b>	40, 200, 550MHz, 1GHz, 1.6GHz		
<b>Resolution Bandwidth</b>	1Hz~3MHz (1, 2, 3, 5 steps), 4, 5, 6, 8, 10, 20 MHz		
<b>SSB Phase Noise(1GHz carrier)</b>	< -129dBc/Hz @ 10kHz(typical)		
<b>DANL</b>	-135dBm/Hz(67GHz typical)		
<b>Abundant function options</b>	Vector Signal Analysis, Real-time Spectrum Analysis, Noise Figure Analysis, Phase Noise Measurement etc.		
Flexible Analog and Digital signal output interfaces			



## Signal/Spectrum Analyzers

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

<b>Frequency Range</b>	3Hz~4GHz(4051A-S) 3Hz~18GHz(4051D-S)	3Hz~9GHz(4051B-S) 3Hz~26.5GHz(4051E-S)	3Hz~13.2GHz(4051C-S)
<b>Resolution Bandwidth</b>	1Hz~3MHz(1, 2, 3, 5 steps), 4, 5, 6, 8, 10, 20 MHz		
<b>SSB Phase Noise(1GHz carrier)</b>	< -118dBc/Hz @ 10kHz		
<b>DANL</b>	-141 dBm/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**

<b>Frequency Range</b>	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)
<b>Displayed Average Noise Level</b>	<-150dBm/Hz		
Intelligent USB interface to connect with spectrum analyzer, automatic recognition of harmonic mixer and automatic configuration of conversion loss, etc.			

**Network Analyzers**

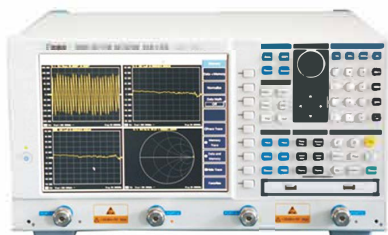


Network Analyzers

**3680A/B Cable & Antenna Analyzer**

<b>Frequency Range</b>	1MHz~4GHz(3680A)	1MHz~8GHz(3680B)
<b>Directivity</b>	≥ 42dB (3680A)	≥ 42dB (1MHz~6 GHz) (3680B)    ≥ 36dB (6 GHz~8 GHz) (3680B)
<b>Measurement Speed</b>	1ms/ point(10kHzIF bandwidth)	
Build-in Electronic Calibration Kit		
Support SWR, Return Loss, Impedance and Phase Format Measurement		
Accurate Location Of Fault (DTF) Test		
Touch screen, auto adjustable brightness		
<b>Weight</b>	<2.5kg	





Network Analyzers

# 3656A/BA/B/D Vector Network Analyzer

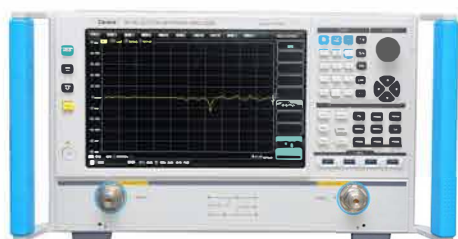
<b>Frequency Range</b>	100kHz~3GHz(3656A) 100kHz~8.5GHz(3656B)	100kHz~6.8GHz(3656BA) 300kHz~20GHz(3656D)
<b>Dynamic Range</b>	up to 125dB, suitable for accurate measurement of high suppression ratio devices	
	75Ω testing port impedance option, suitable for cable TV components measurement	
	Provide 64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



Network Analyzers

# 3672A/B/C/D/E Vector Network Analyzer

<b>Frequency Range</b>	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		
<b>Display Format</b>	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

<b>Frequency Range</b>	100kHz/10MHz~14GHz(3671C) 100kHz/10MHz~26.5GHz(3671E)	100kHz/10MHz~20GHz(3671D)
<b>Maximum IF Bandwidth</b>	up to 30MHz	
<b>Dynamic Range</b>	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		
<b>Display Format</b>	Log Amplitude, Linearity Amplitude, Standing Wave Ratio, Smith chart, etc.	
<b>Interface</b>	USB, GPIB, LAN and VGA	
12.1-inch High-Resolution Touch Screen		



Network Analyzers

# 3643 Series Millimeter- Wave VNA Extender

<b>Frequency Range</b>	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)
<b>System Dynamic Range</b>	≥100dB		
<b>Effective Directivity</b>	≤-35dB		
Standard Waveguide Flange Interface			
<b>VNA Match</b>	3672 Series Vector Network Analyzer, PNA-X Series Vector Network Analyzer etc		

## Microwave/Millimeter-Wave Measurement Instruments



### Network Analyzers

## Mechanical Calibration Kits

<b>Frequency Range</b>	DC~67GHz(coaxial series)	2.6GHz~500GHz(waveguide series)
Abundant models and types		
High Calibration Accuracy and Excellent Repeatability		



### Network Analyzers

## Electronic Calibration Kits

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

✓ Noise Figure Analyzer



Noise Figure Analyzer

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

<b>Frequency Range</b>	10MHz~4GHz(3986A) 10MHz~18GHz(3986D) 10MHz~26.5GHz(3986E) 10MHz~40GHz(3986F) 10MHz~50GHz(3986H)
Standard Pre-LNA Configuration	
<b>Noise Figure Measurement Range</b>	0~30dB; Uncertainty: $\pm < 0.1$ dB
<b>Gain Measurement Range</b>	-20dB ~ +40dB; Uncertainty: $\pm < 0.17$ dB
<b>Jitter (Uneven)</b>	< 0.17 dB
<b>Measurement Mode</b>	Amplifier, Up-converter, Down-converter Measurement
<b>Measurement Function</b>	single sideband measurement, double sideband measurement



Noise Figure Analyzer

16603/16604  
Series Noise Source

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

**✓ Microwave Power Meter**



Microwave Power Meter

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

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



Microwave Power Meter

**71710 Series  
CW Power Sensor**

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



Microwave Power Meter

**81702 Series Peak  
Power Sensor**

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



Microwave Power Meter

81703 Series Peak Power Sensor

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



Microwave Power Meter

87230 Series USB CW Power Sensor

<b>Frequency Range</b>	9kHz~6GHz(87230) 50MHz~26.5GHz(87232)	10MHz~18GHz(87231) 50MHz~40GHz(87233)
<b>Power Range</b>	-60dBm~+20dBm(87231/87232/87233)	-50dBm~+20dBm(87230)
<b>Zeroing Accuracy</b>	≤ 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

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

RF and Microwave Multifunctional Analyzers



RF and Microwave Multifunctional Analyzers

4957B/D/E/F RF Handheld Multifunctional Analyzer

CAT and VNA Mode

Frequency Range	30kHz~6.5GHz(4957B)30kHz~18GHz(4957D) 30kHz~26.5GHz(4957E)50MHz~40GHz(4957F)
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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 andAntenna 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

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



RF and Microwave Multifunctional Analyzers

# 3943 Monitoring Receiver

<b>Frequency Range</b>	9kHz~8GHz
Maximum 20MHz Analysis Bandwidth	
<b>Phase Noise(500MHz Carrier)</b>	<-95dBc/Hz@ 10kHz    <-95dBc/Hz@ 100kHz
<b>DANL</b>	≤-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

<b>Frequency Range</b>	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)
<b>Gain(Min.)</b>	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)**

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

Optical FiberFusion Splicers



Optical FiberFusion Splicers

# 6481A/B/A+/B+ Fiber Fusion Splicer

<b>Applicable Fiber</b>	general optical fiber, rubber-covered fiber, and jumper conforms to ITU-T G.651~653, G.655, G.657	
<b>Fiber Diameter</b>	cladding:80~150 μ m	coating:0.1~3mm
<b>Cleaved Length</b>	5~16mm(covered fiber diameter ≤ 250 μ m)	10mm(covered fiber diameter: 0.25~3mm)
<b>Splice Loss(typical)</b>	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)	
<b>Numbers of Motor</b>	6(6481A)	4(6481B)
<b>Alignment</b>	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 FiberFusion Splicers

# 6482 H4/H6 Fiber Fusion Splicer

<b>Applicable Fiber</b>	SMF(G.652), MMF(G.651), DSF(G.653), NZDSF(G.655), BIF(G.657)	
<b>Optical Fiber Diameter</b>	80~150 μ m/100~3000 μ m	
<b>Cleaved Length</b>	5~16mm	
<b>Average Splice Loss (typical)</b>	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	
<b>Alignment method</b>	6482H4: Cladding alignment	6482H6: Cladding/Core alignment
<b>Splicing time</b>	5s	
<b>Heating time</b>	9s	
<b>Splicing records</b>	10000 splicing records	
<b>Weight</b>	6482H4:1.7kg	6482H6:1.9kg



Optical FiberFusion 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  $\mu$ m, core number:1~12)



Optical FiberFusion 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



OTDRs

### 6416 Palm OTDR

Testing Pulse Width 10~10240ns(single mode)

Central Wavelength 1310nm $\pm$ 20nm; 1550nm $\pm$ 20nm; 1490nm $\pm$ 20nm

Dynamic Range 28/26/24dB(1310nm/1550nm/1490nm)

Event Dead Zone 1m

VFL (Visible Fault Locating)

Dual USB interface function, not only can connect U disk, but also can communicate with PC through SyncActive

Automatic /Manual testing function



OTDRs

## 6418C Mini OTDR

<b>Working Wavelength</b>	850nm/1300nm/1310nm/1383nm/1490nm/1550nm/1625nm/1650nm (optional)
<b>Dynamic Range</b>	45/43/42/40/39/38/37/36/35/34/24dB(optional)
<b>Test Range</b>	0.4, 0.8, 1.6, 3.2, 6.4, 16, 32, 64, 128, 256, 512km(single mode) 0.4, 0.8, 1.6, 3.2, 6.4, 16, 32km(multimode 850nm)
≤ 0.8m extra-short event dead zone, easy testing of fiber jumper	
45dB wide dynamic range, 256k data sampling points	
Most advanced integrated mold technology with double colors and reinforced material, robust and durable	
Advanced anti-reflection LCD, interface is clear in field	
Multiple testing models, touch screen and shortcut keys for operation	
Automatic monitoring communication light	
External interfaces&ports:USB,Min-USB, Ethernet, earphone,SD	
Built-in functions of VFL and power meter	



OTDRs

## 6422 Optical Time-Domain Reflectometer (OTDR)

850nm/1300nm/1310nm/1490nm/ 1550nm/1625nm/1650nm/(optional)	
<b>Test Range</b>	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)
≤0.5m 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	
<b>Abundant interface &amp; port</b>	USB, Micro-USB, Ethernet, Earphone, Micro-SD
<b>Weight</b>	≤ 1.8kg



OTDRs

## 6420 Optical Time-Domain Reflectometer (OTDR)

<b>Working Wavelength</b>	850nm/1300nm/1310nm/1490nm/ 1550nm/1625nm/1650nm/(optional)
<b>Test Range</b>	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)
≤1.5m 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	
<b>Abundant interface &amp; port</b>	USB, Micro-USB, Ethernet, Earphone, Micro-SD
<b>Weightht</b>	≤0.9kg



OTDRs

## 6419/6419A Distributed Optical Fiber Strain Tester(BOTDR)

<b>Working Wavelength</b>	1550nm±5nm
<b>Max. Test Range</b>	80km(6419) 128km(6419A)
<b>Strain Test Accuracy</b>	±50 μ ε (10-20ns) ±10 μ ε (50-200ns)
<b>Strain Test Range</b>	-15000~+15000 μ ε (6419) -30000~+40000 μ ε (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 Source**



Optical Source

**6313C Laser Source**

<b>Dual-wavelength dual-port output</b>	1310nm±20nm; 1550±20nm
<b>Optical Spectrum Width</b>	≤5nm
<b>Output Power</b>	≥-7dBm(single mode)
<b>Short-Term Stability</b>	±0.02dB/15min
<b>Long-Term Stability</b>	±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)**

<b>Optical Source</b>	LD
<b>Wavelength</b>	650nm±10nm(6318A/B/C)
<b>Output Power</b>	6318A/B/C:1/10/20/30/50 mW(SM/MM)
<b>Output Type</b>	6318: 1 Hz/CW6318A/B/C:2-3Hz/CW
<b>Distance of Locating</b>	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 breakpointswithin OTDR dead zone	

Optical Power Meters



Optical Power Meters

6334  
Optical Power Meter

<b>Wavelength Range</b>	400~1650nm (depending on different models)
With five built-in detector models and ten external detector models	
<b>Power Range</b>	-80dBm~+10dBm
Available for zero adjustment, auto-range, wave-length response compensation, data storage, light division ratio, light division loss testing, etc.	



Optical Power Meters

2498C/D  
Optical Power Meter

<b>Power Measurement Range</b>	-70dBm~+3dBm (module P1)	-50dBm~+26dBm (module P2)
<b>Power Measurement Uncertainty</b>	±5% (-10dBm, 1310nm)	
<b>Optical Source</b>	Center Wavelength: 1310/1550±20nm Stability: ±0.05dB/15min (2498C)	Output Power: ≥ -3dBm
<b>Optical Interface</b>	FC/UPC	
<b>Electrical Interface</b>	USB	
<b>Function</b>	Data storage and data reading, automatic zero adjustment	

Optical Attenuator



Optical Attenuator

6383A/B  
Variable Attenuator

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



## Microwave/ Millimeter-Wave Components

With international advanced microwave/millimeter-wave CAD technology, mature micro-strip circuit techniques and micro-assembly equipment, we can produce various microwave/millimeter-wave components, which are characterized in high frequency up to 500GHz, wide frequency 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.



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