

CA9036 WSS OPTICAL SPECTRUM ANALYZER

(High Accuracy 50 GHz/ 100 GHz WSS Automatic Testing Equipment)

Technical Specifications v1.00
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(High Accuracy 50 GHz/ 100 GHz WSS Automatic Testing Equipment)

UC INSTRUMENTS' CA9036 laser sweep optical spectrum analyzer is special design for 1 X 9 50 GHz and 100 GHz WSS(wavelength select switch) components optical parameters automatic testing. CA9036 can process insertion loss, ER, ripple, attenuation accuracy, port isolation, ITU center wavelength tolerance, PDL parameter automatic testing. Build-in high speed, high accuracy sweep laser provides high accuracy light source and performance high speed swept testing function. It also can process other passive components test and spectrum analyze.

Flexible PC base application test software can easily build up customers request testing template and create test report. It is also very good testing platform for passive components in-process alignment and monitor. Its fast sweep function can directly show products optical spectrum. Build-in tunable laser, power meter can be used as combined sweep optical spectrum analyze function, and also can function independently.

Features

- Wavelength quick sweep and spectrum analyze
- High wavelength accuracy
- Quick startup
- High laser power output
- Insertion Loss, Extinction Ratio, Ripple, Port Isolation, ITU Center wavelength Tolerance, PDL parameters' automatic testing

Applications

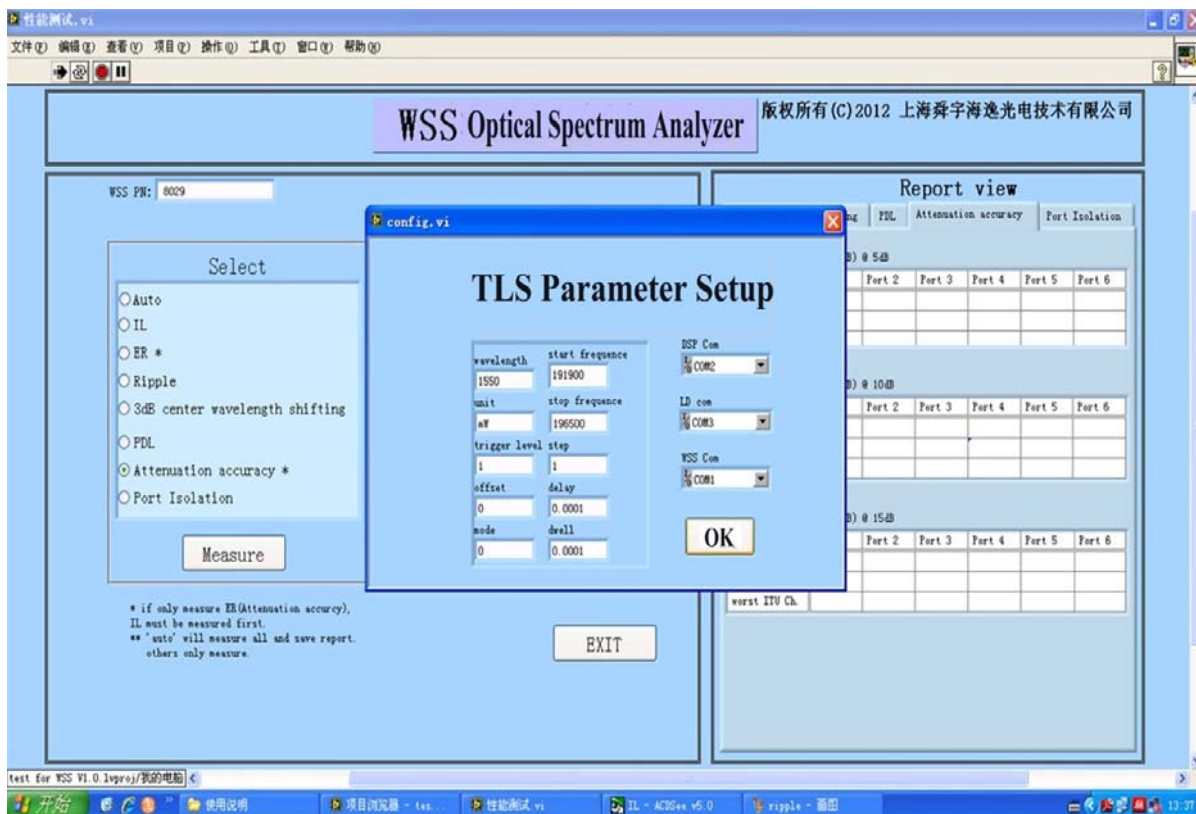
50 GHz, 100 GHz WSS components and modules automatic testing

It is easy to be integrated into a passive fiber components testing system

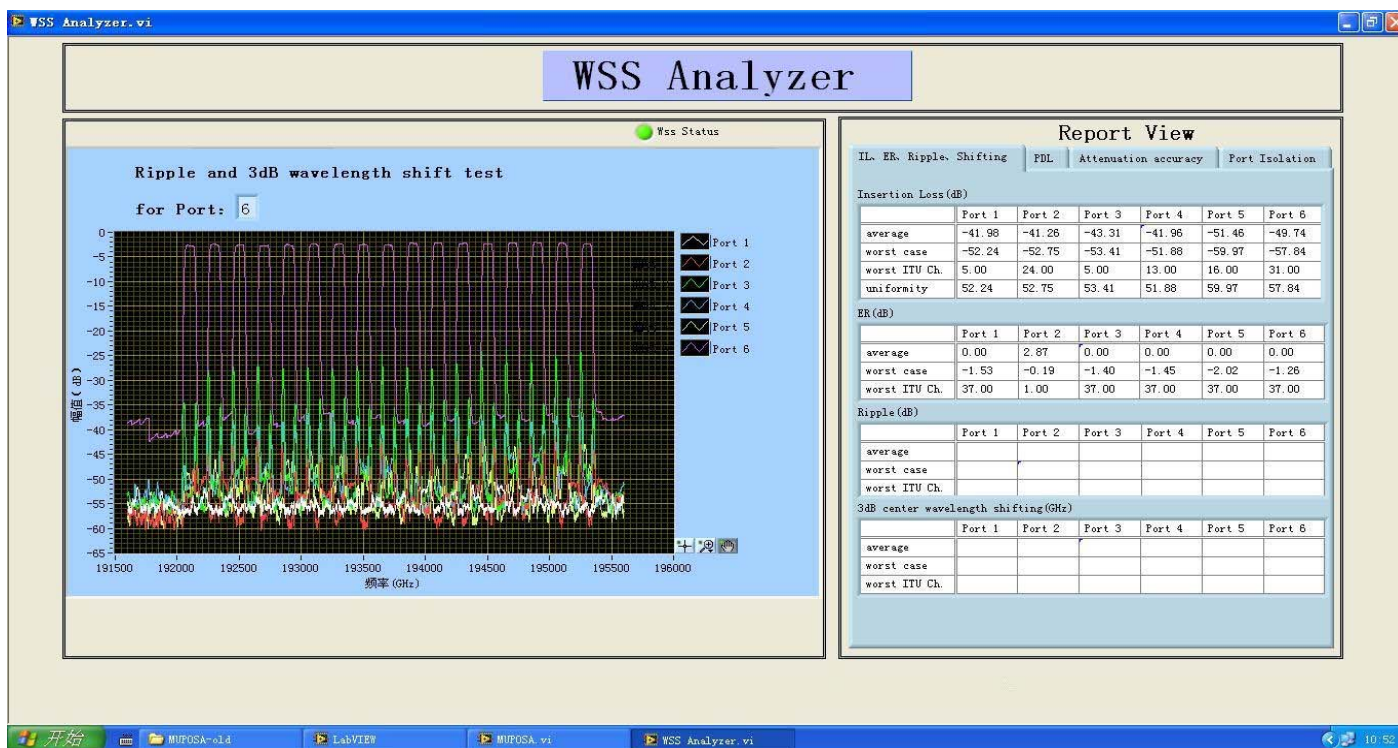
Specifications

Model #	GM8036
Tunable Laser Source	
Wavelength range	1527.00 to 1567.00 nm
Output Power	>= 20 mW
Wavelength resolution	1.0 pm
Absolute wavelength accuracy	+/- 10 pm, tpy. < 5 pm
Relative wavelength accuracy	+/- 5 pm, Typ. +/- 2 pm
Wavelength repeatability	+/- 3 pm, typ. +/- 1 pm
Wavelength stability (typ., 24 hrs at constant temperature)	<= +/- 5 pm
Tuning speed	<= 2 ms per step
Power stability	< +/- 0.1 dB, 24 hours.
Power repeatability	+/- 0.05 dB
Power linearity	+/- 0.3 dB
Power fiatness versus wavelength	0.3 dB; typ., 0.05dB.
Side-mode Suppression ritio	>= 40 dBc
Relative intensity noise(RIN. Typ.)	< -135 dB
Power Meter	
Wavelength Range	850 nm to 1620 nm
Power Measurement Range	+13 dBm to -70 dBm
Power Accuracy	< +/- 4%
Power repeatability	< 0.1 dB
Sweep Function	
Sweep Mode	1.5 Second Data Refresh Sweep at 10 pm Resolution
Resolution	1 PM
Accuracy	5 PM,
Power Display	Peak Power Display
Center Wavelength Fuction	3 dB Down Center Wavelength Display
Reffernce Fuction	Testing Refference Setup
Power Adaptor Power	
	AC 100 - 240 V \pm 10%, 48 - 66 Hz, 100 VA max.
Display	
	PC Interface.
Environmental	-40 ° C to +80 ° C
Storage temperature	0 ° C to +45 ° C
Operating temperature	<95% R.H. from 0 ° C to +45 ° C
Humidity	
Work Environmental	-10 ° C to +70 ° C
	0 ° C to +45 ° C
	<95% R.H. from 0 ° C to +45 ° C
Dimensions	Standard 4U Rack
Weight	10.0 lbs

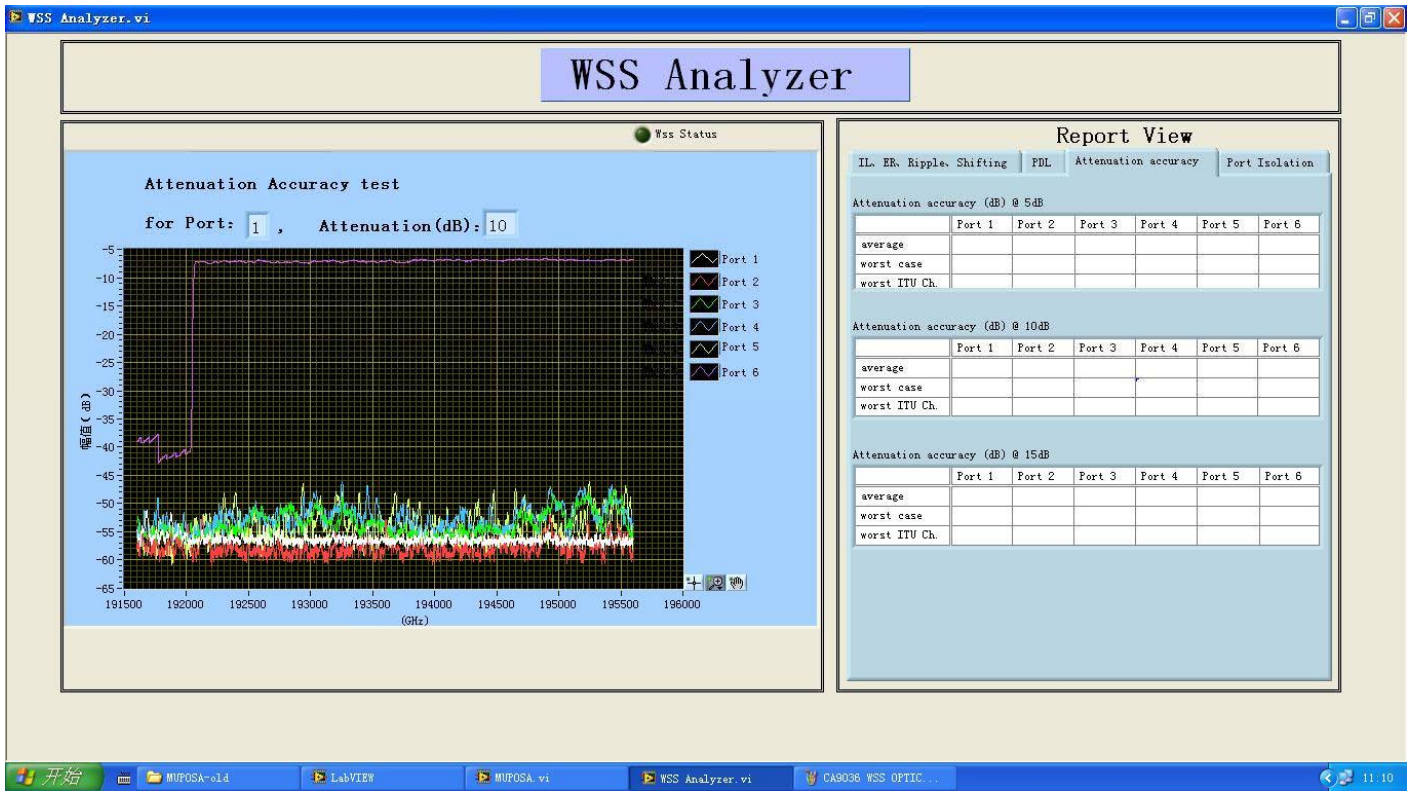
Software Interface:



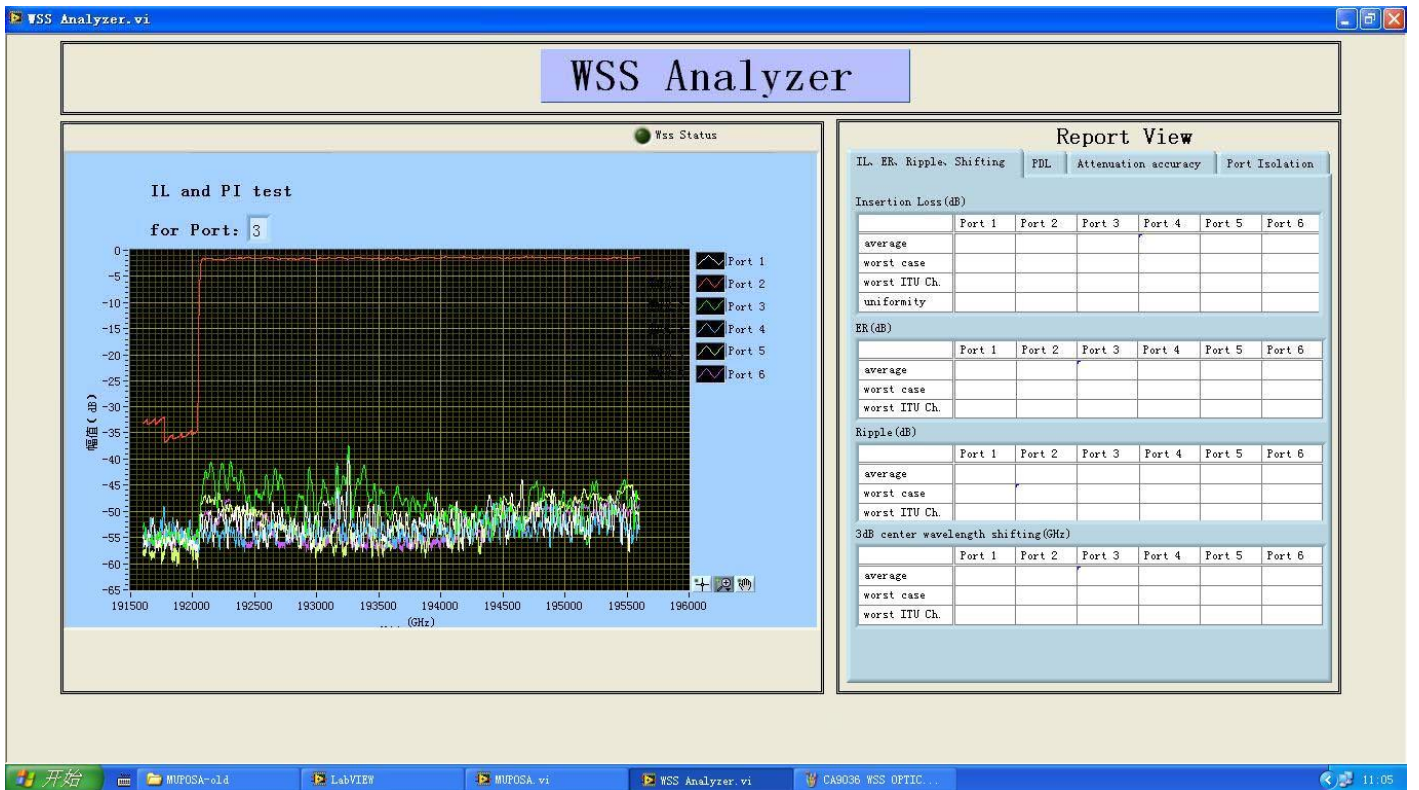
Tunable laser source setup



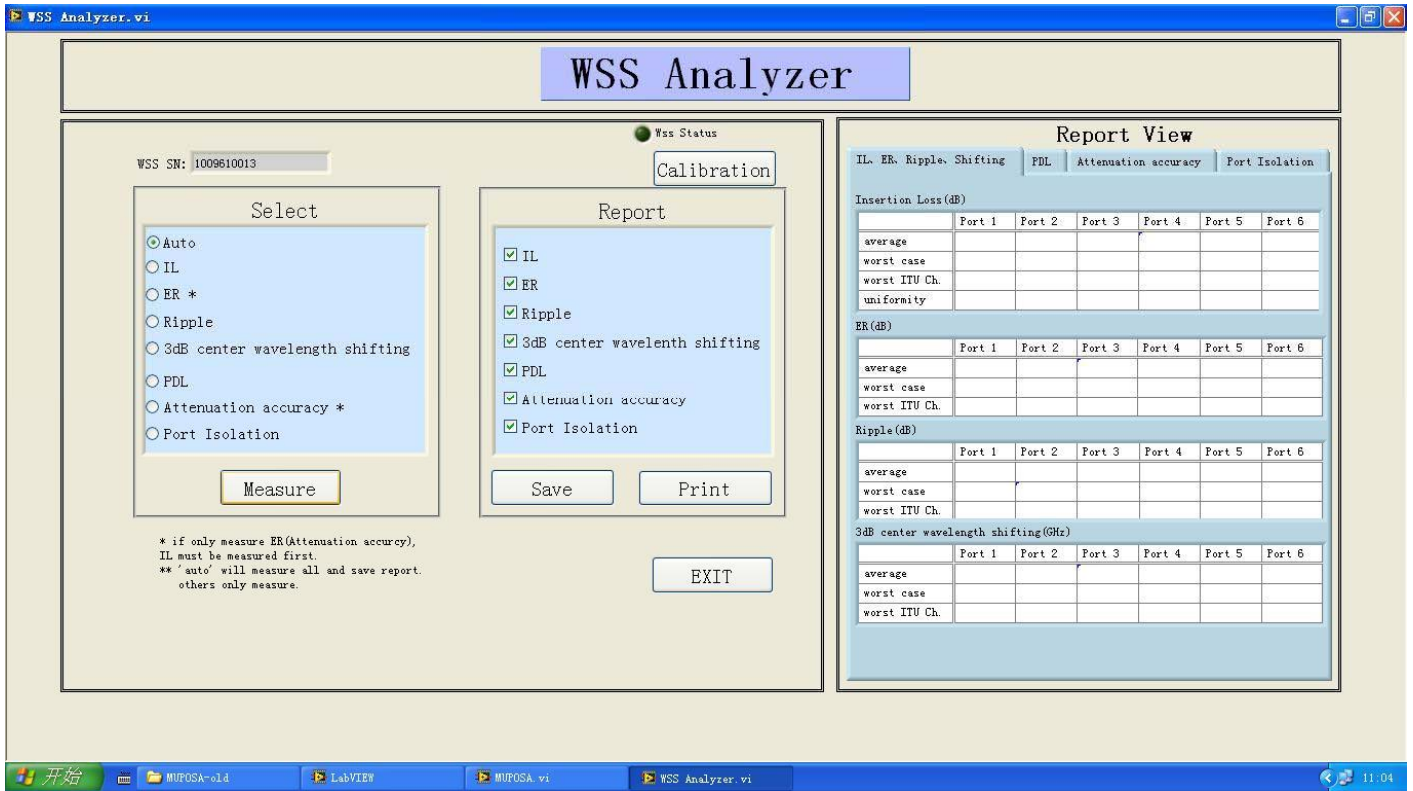
Ripple and 3 dB Center Wavelength Testing



Attenuation Accuracy Test



Insertion Loss and PI Test



Testing report

UC INSTRUMENTS' Test and Measurement Support, Services and Assistance

UC INSTRUMENTS provides high performance, high value, low cost, affordable test and measurement instruments solution for our customers. Our extensive support sources can help you choose right UC INSTRUMENTS' products for your application and apply them successfully. Every instruments and system we sell a global warranty. All of our instruments with at least 18 months factory warranty.

Our Promise

All of UC INSTRUMENTS' test and measurement instruments and system will met its advertised performance and functionality. When you select UC INSTRUMENTS' products, we can verify if it is work properly, help with products operation, and provides the basic measurement assistance for the use of special capabilities.

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