

UC INSTRUMENTS GM8036 LASER SWEEP OPTICAL SPECTRUM ANALYZER (1525 ~ 1610 nm)

Technical Specifications v1.01
March, 2011



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UC INSTRUMENTS' GM8036 laser sweep optical spectrum analyzer is a PC control spectrum analyze system for passive components tests. It provides high performance in testing CWDM/DWDM components, GFF, Interleaver, WSS, AWG & PLC components, optical amplifiers, DWDM systems, and performing other general-purpose fiber optical test and measurement applications. This system can be integrated with optical attenuator & power meter, leading to a high performance test system platform with high wavelength accuracy and rapid scan wavelength tunability.

Its PC-based flexible application test software can readily build up customer desirable testing templates and generate test reports. It is also an excellent testing platform for passive components processing alignment and monitor. Its fast sweep function can directly show optical spectrum of products on production lines. Build-in tunable laser source and power meter can function either independently serving as laser source and power meter or collaboratively performing sweep optical spectrum analysis function.

Features

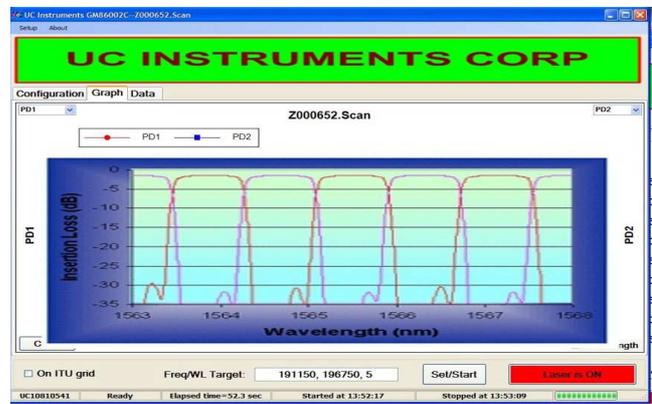
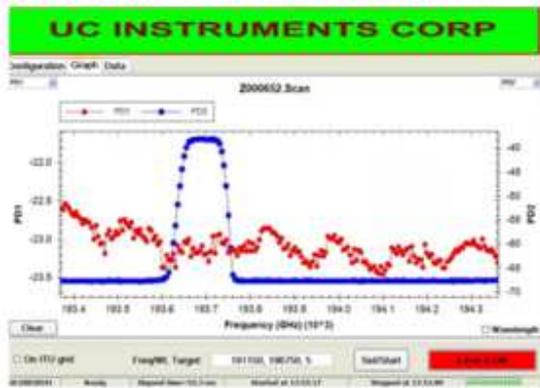
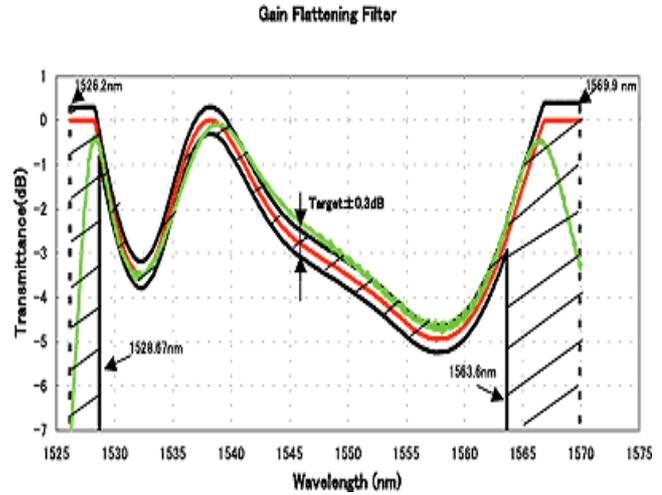
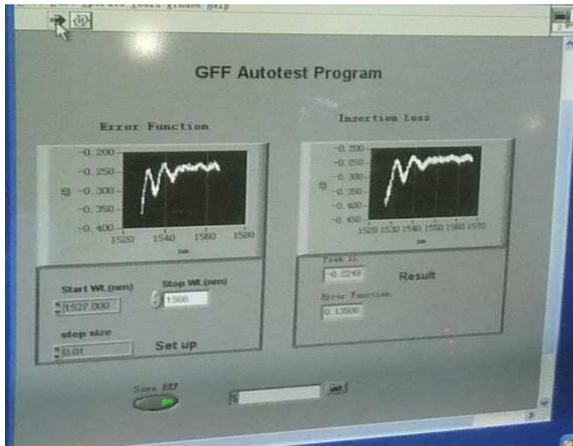
- Rapid wavelength scan
- High wavelength accuracy
- Fast startup
- High laser power output
- Integrated with power meter, PDL controller, return loss meter option

Applications

- CWDM/DWDM, WSS, AWG, PLC, GFF and Interleaver critical components and modules testing
- Fiber sensor tests
- PMD and PDL measurements
- Fiber optical, telecom R&D lab tests
- Easy to be integrated into a passive fiber components testing system

Specifications

Model #	GM8036
Tunable Laser Source	
Wavelength range	1525.00 to 1568.00 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 flatness versus wavelength	0.3 dB; typ., 0.05dB.
Side-mode Suppression ratio	>= 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	Fast Continue Spectrum Sweep
Resolution	1 PM
Accuracy	5 PM,
Power Display	Peak Power Display
Center Wavelength Function	3 dB Down Center Wavelength Display
Reference Function	Testing Reference Setup
Power Adaptor Power	AC 100 - 240 V \pm 10%, 48 - 66 Hz, 100 VA max.
Display	PC Interface
Environmental Temperature	-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 Environment	-10° C to +70° C 0° C to +45° C <95% R.H. from 0° C to +45° C
Dimensions	Standard 1U Rack
Weight	10.0 lbs



GFF, DWDM, Interleaver Test Spectrum

UC INSTRUMENTS' Test and Measurement Supports, Services and Assistance

UC INSTRUMENTS provides high performance, high value, low cost, affordable test and measurement instrument solutions for our customers. Our extensive support sources can help you choose right UC INSTRUMENTS' products for your specific applications and apply them successfully. Every instrument /system we sell has a global warranty. All of our instruments are with at least 12 months factory warranty.

Our Promises

All of UC INSTRUMENTS' test and measurement instruments and systems meet their advertised performance and functionality. When you select a UC INSTRUMENTS' product, we can help your product operation with our decade experiences, and provide the basic measurement assistance for the use of special capabilities.

Contact Information

United States:

UC INSTRUMENTS CORP.

3652 Edison Way
Fremont, CA 94538
USA

Tel: 1-510-366-7353

Fax: 1-510-795-1795

www.ucinstruments.com

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