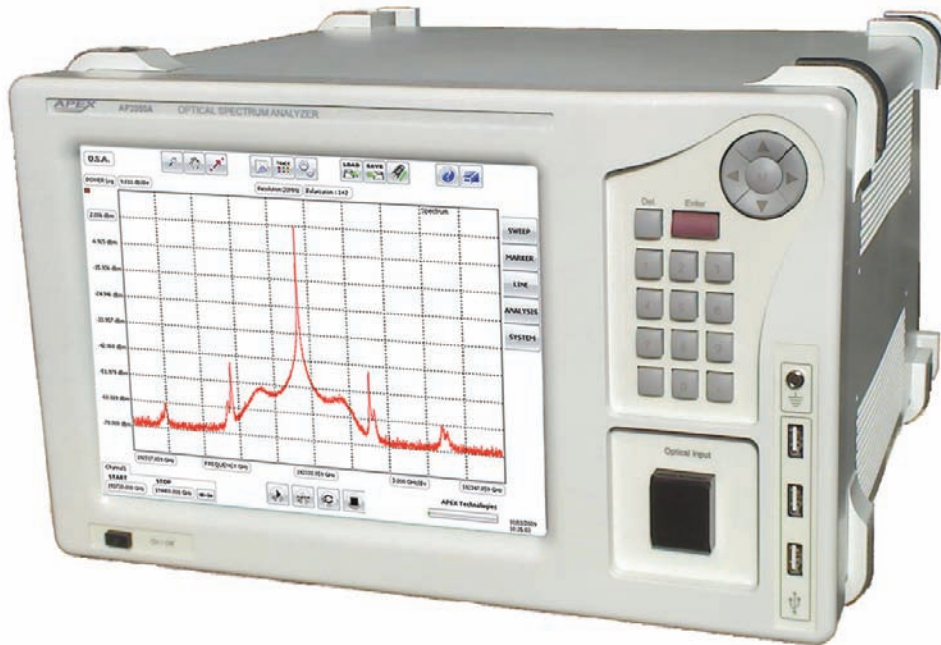


# AP2050A/AP2052A

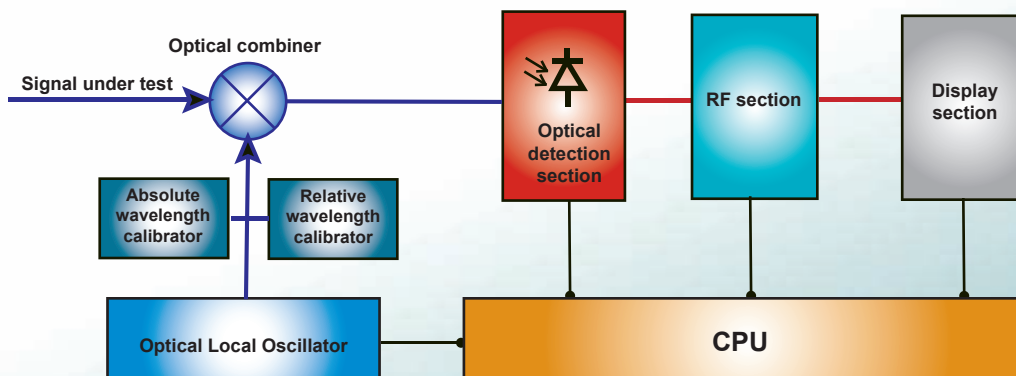
## Optical Spectrum Analyzer



- **Ultra-high resolution : 0.8 pm (100MHz)**
- **High absolute wavelength accuracy : +/-3pm**
- **Measurement level range : -70dBm up to +10dBm**
- **High close-in dynamic range : 50dB@+/-6pm**
- **Ethernet and GPIB remote control**
- **All-in-one equipment (no need of external equipment)**

## Principle

Based on an interferometric principle, the AP2050A/2052A can achieve a 12 times better resolution than monochromator based Optical Spectrum Analyzer.



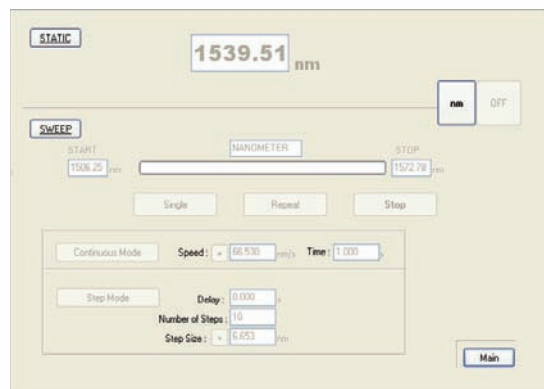
# AP2050A/AP2052A Optical Spectrum Analyzer

Main frame and software specifications	
OSA software functionalities	Auto measurement, zoom function, zoom to scale, auto calibration, peak search, line width, SMSR, markers, horizontal and vertical lines, peak centre,...
Trace	Up to 6traces
Screen	10.4inch, color TFT,
Front keyboard	Yes
USB connector	Yes
Internal memory	More than 1,000 traces
File format	Trace file (.dat, .txt), setup file, screen copy (.bmp), marker table
Mouse and keyboard	Yes (USB type in front panel)
GPIB	Yes
Ethernet	Yes (10/100 base T)
Operating temperature	+10°C to +35°C
Power requirement	AC 100 to 120V / 200 to 250V, 50/60Hz
Optical input	FC/PC SMF28

	AP2050A	AP2052A
<b>Optical spectrum analyzer specifications</b>		
Wavelength measurement range	1525nm to 1567nm	1570nm to 1608nm
Wavelength span range	80pm to 42nm	80pm to 38nm
Wavelength absolute accuracy <sup>a b c</sup>	+/-3pm	
Wavelength resolution(@3dB) <sup>d</sup>	100MHz (0.8pm), in option 20 MHz (0.16pm)	
Measurement level range <sup>a e</sup>	-70dBm (monochromatic) to +10dBm	
Absolute level accuracy <sup>a b c</sup>	+/- 0.3dB	
Level repeatability <sup>a b c</sup>	+/- 0.2dB	
Close-in dynamic range <sup>a b c</sup>	>40 dB @ +/- 2pm	>50dB @ +/- 6pm
Spurious free dynamic <sup>d</sup>	60dB	
Sweep time <sup>d e</sup>	1s for 1.5nm	
Optical input	FC/PC for SM fiber	
Tunable laser output	>-7dBm	
Internal absolute WL calibrator	Yes	
Display capabilities		
X scale	Wavelength in nm or frequency in GHz	
Y scale	Optical power in mW or dBm	

- a) At 1550nm                      d) Typical  
 b) At 0dBm                        e) Resolution 100MHz  
 c) After wavelength calibration

Options	
OSA07	Continuous and step by step Optical Tunable laser source + Optical tracking generator for transmission measurements



Option OSA07 C or L band TLS



Option OSA07 tracking generator

Specifications are subject to change without notice.