

Optical Fiber Chromatic Dispersion Analyzer SDA-6000A / B

Chromatic Dispersion is one of the very important measurement parameters for optical fiber communication. The SDA-6000A/B is a fully automatic chromatic dispersion test system for optical fiber adopting the interferometric technique. Accurate measurement can be done using very short length fiber (e.g. 1.3m). The SDA-6000A/B can be used in both Laboratories and production plants. ITU-T recommended measurement technique.



Features

- ▶ Interferometric Technique
- ▶ Wavelength range 600-1200nm (SDA-6000A), 1260-1600nm (SDA-6000B) with 20nm step
- ▶ High accuracy measurement using very short length fiber (1.3m)
- ▶ Easy operation, regular fiber splicing holder can be mounted directly to the system
- ▶ All kinds of fiber can be measured (EDF, dispersion flat fibers, dispersion correction fibers, etc.)

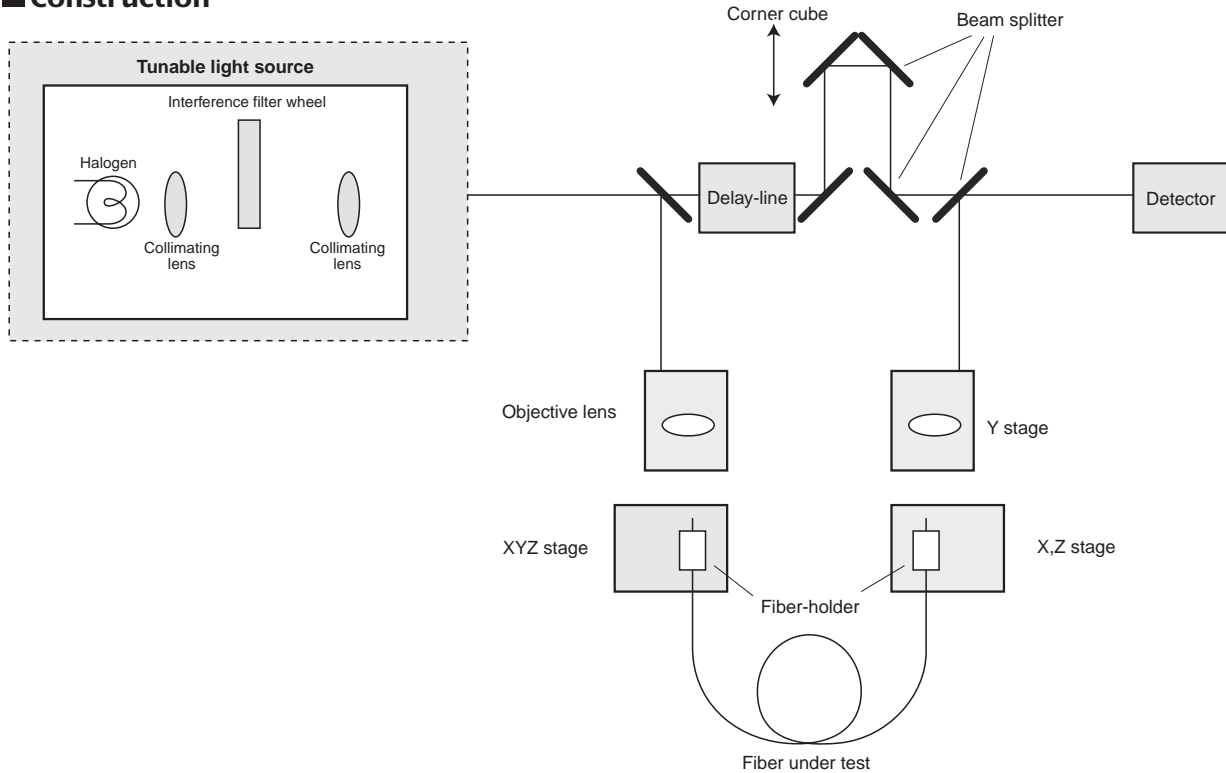
Application

- ▶ R&D field
 - Photonic crystal device
 - Holey fiber
 - Nonlinear optical material
 - General optical fibers (SMF,DSF)
 - Dispersion flat fiber
 - EDF for optical amplifier
 - Optical components, optical waveguide etc...
- ▶ Production plants
 - Production check for first drawing

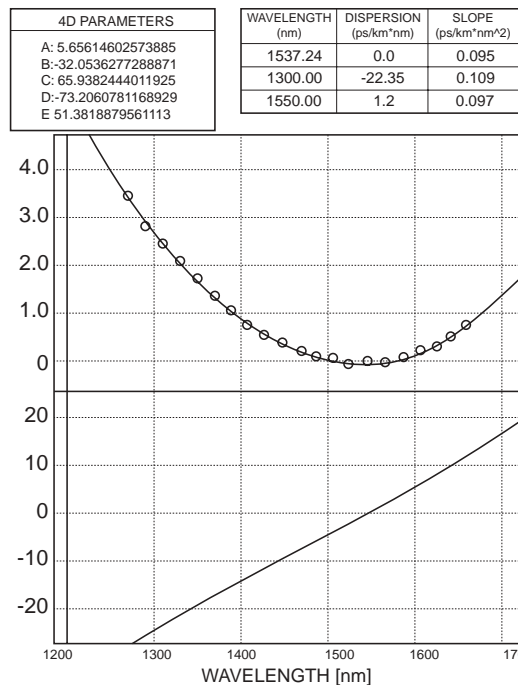
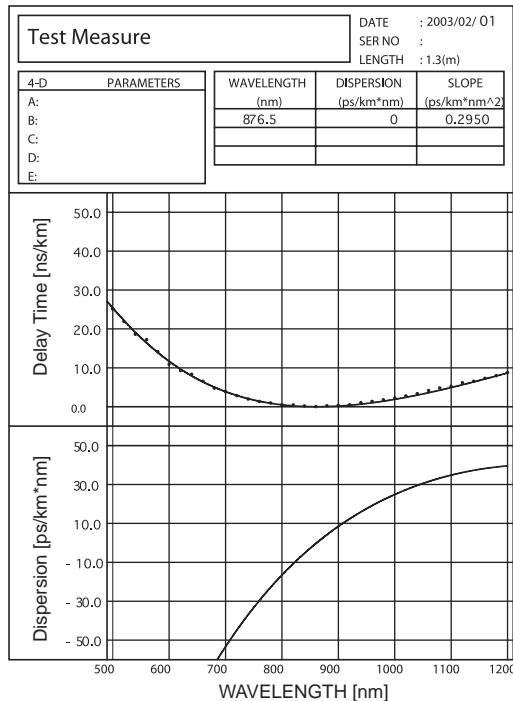
Specifications

Parameter	Specifications
Measurement parameter	Delay time and chromatic dispersion characteristic
Measurement technique	Air pass mach-zender interferometric technique
Measurement range	600-1200nm (SDA-6000A) 1260-1600nm (SDA-6000B)
Measurement wavelength	20nm intervals
Resolution (delay time)	≤5.13ps/km
Resolution (dispersion)	≤0.004ps/km-nm
Repeatability (dispersion)	≤±0.2ps/km-nm (typ.)
Measurement fiber length	1300±10mm
Coupling	Bare fiber adapter
Operating temperature	25±5°C
Operating relative humidity	≤80%, Non condensing
Optical unit size (WxDxH)	500 x 600 x 250mm

Construction



Test Data Sheet



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