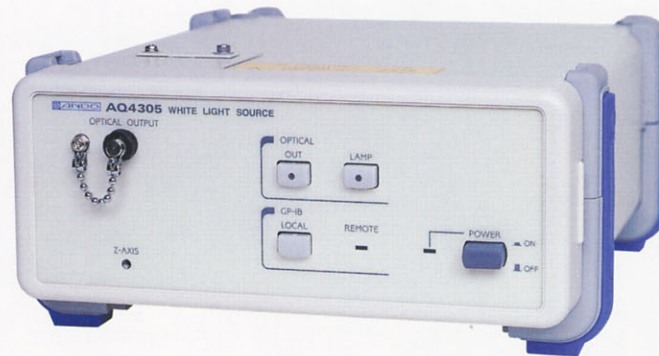


# White Light Source

## AQ4305

A high power white light source for optical devices and optical fibers characterization



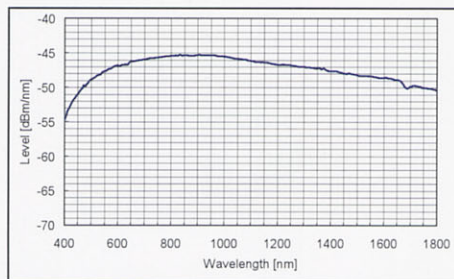
### Outline

The AQ4305 White Light Source provide incoherent light to measure wavelength dependent loss characteristics for optical devices and optical fibers, in conjunction with an optical spectrum analyzer. The AQ4305 higher power density (more than 5dB at 1310nm) compared to previous model allows significantly faster sweep time of the optical spectrum analyzer. The wide wavelength range 400 to 1800nm provides various applications from visible band to all telecomm band.

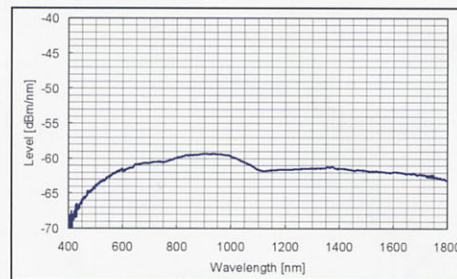
### Feature

- High power: -40dBm or more (at 50/125  $\mu$ m MMF)
- Optical output: Free space
- High output stability of +/-0.05dB

### Spectrum



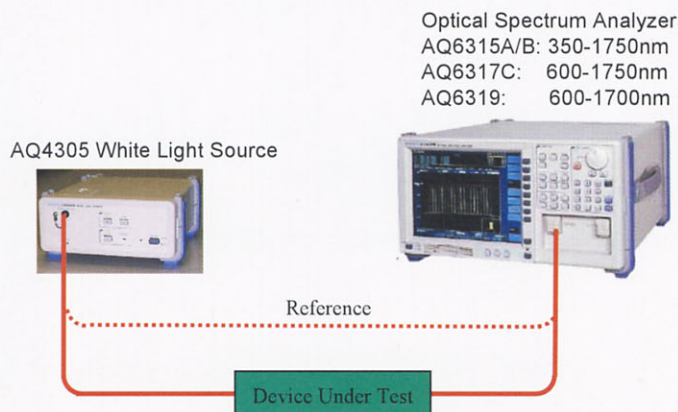
Optical Power GI50/125  $\mu$ m (RBW:10nm)



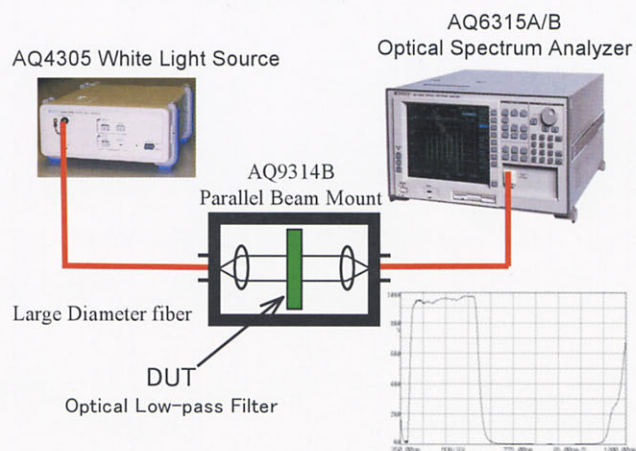
Optical Power SM10/125  $\mu$ m (RBW 10nm)

## Application

### Basic configuration for optical fibers and optical component characterization



### Visible band filter characterization with AQ6315A Optical Spectrum Analyzer



## Specifications

Wavelength range	400 to 1800 nm
Optical output level *1 *2)	-40 dBm or more (50/125 $\mu$ m MMF : 2m, wavelength : 850 nm and 1310nm, spectrum band width : 10 nm) -55 dBm or more (10/125 $\mu$ m SMF : 2m, wavelength 1550 nm, spectrum band width : 10nm)  -58dBm/nm (typ.) (50/125 $\mu$ m MMF : 2m, wavelength range : 400 to 1100nm) -65dBm/nm (typ.) (10/125 $\mu$ m SMF : 2m, wavelength range: 700 to 1700 nm)
Output stability *1	$\pm 0.05$ dB (23 $\pm 2$ °C, one hour)
Functions	Optical output : ON/OFF Lamp : ON/OFF
Interface	GP-IB
Applicable optical connector	FC/PC type
Lamp	Halogen lamp (DC12V/50W), Life: 50 hours
Power requirement	AC100 to 120V( $\pm 10\%$ ) /200 to 240V( $\pm 10\%$ ), 50/60Hz, Approx. 100VA
Environment conditions	Operation temperature : +5 to +40 °C Storage temperature : -10 to +50 °C Humidity : 80%RH or less (not condensation)
Dimension and mass	Approx. 212(W) X 88(H) X 250(D) mm, Approx. 3kg
Accessory	Power cord : 1, Instruction manual : 1, Halogen lamp:5 Hexagon driver : 1

\*1) after warm up one hour, after optical alignment.

\*2) Specified fiber type; MMF=[ITU-T G.651], SMF=[ITU-T G.652]

Note) Specifications are subject to changed without notice.

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