

NEW Ultra-Wideband Source **UWS-1000H**

Santec's UWS-1000 range of light sources emit what is known as Supercontinuum Light. The optical properties are similar to laser light with high coherence but with the advantage of an ultra-wideband optical spectrum. The UWS-1000H is the high power version of this light source; it emits from 1200nm to 2000nm with a optical power density of greater than 20dBm/nm. The high power is particularly advantageous for optical loss measurement and enables a dynamic range of up to 60dB. Alternatively, the light can be split to enable multiple measurements to be performed simultaneously, saving equipment costs in production environments. The light source is also suitable for optical imaging applications such as Optical Coherence Tomography (OCT).



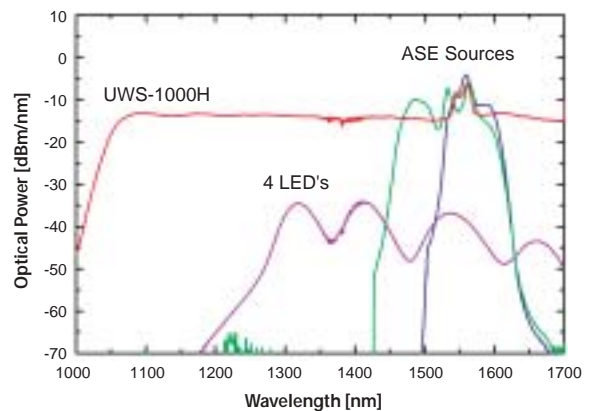
Features

- ▶ Ultra-Wide Flat Broadband Output
- ▶ High Power Density, >-20dB/nm
- ▶ Excellent Spectral Stability, typically ± 0.03 dB
- ▶ Output average power, >50mW typ.

Applications

- ▶ Spectral Loss Measurement with up to 60dB Dynamic Range
- ▶ Fiber Optical Fiber and Component Characterization
- ▶ Optical Coherence Tomography (OCT)
- ▶ Spectroscopic Analysis

Optical Spectrum



Specifications

Category	Parameter	Unit	Min.	Max.	Note
Spectral Characteristics	Optical Spectrum Range	nm	1200	1700	typically 1200 - 2000
	Spectral Power Density	dBm/nm	-20	-	-
	Optical Spectral Stability *1	dB	-	± 0.1	-
	Repetition Rate	MHz	6 \pm 0.5		
Interface _{Ju}	Optical Connector	-	FC/APC		
	Optical Fiber	-	SMF		
Dimensions	Width x Height x Depth	mm	443 x 220 x 400		
	Warranty	-	1 Year		

*1 measured at 25 \pm 1°C for a period of 30minutes after a warm-up time of 1 hour.
Measured using optical spectrum analyser AQ6317B (Sens=High1, RBW=1nm).

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