

MISS Spectrometer

MISS stands for Mini Imaging Spatial Spectrometer. This innovative spectrometer gives access to the spatially resolved spectrum of your sources. Thanks to its unique compactness, the MISS allows vertical and horizontal spatial chirp measurements at any position of your beam path. It can easily be integrated at different stages of amplified laser systems. Use it in free space mode to take benefit of the spatial resolution, or with a fiber input, like a regular spectrometer.



Key features

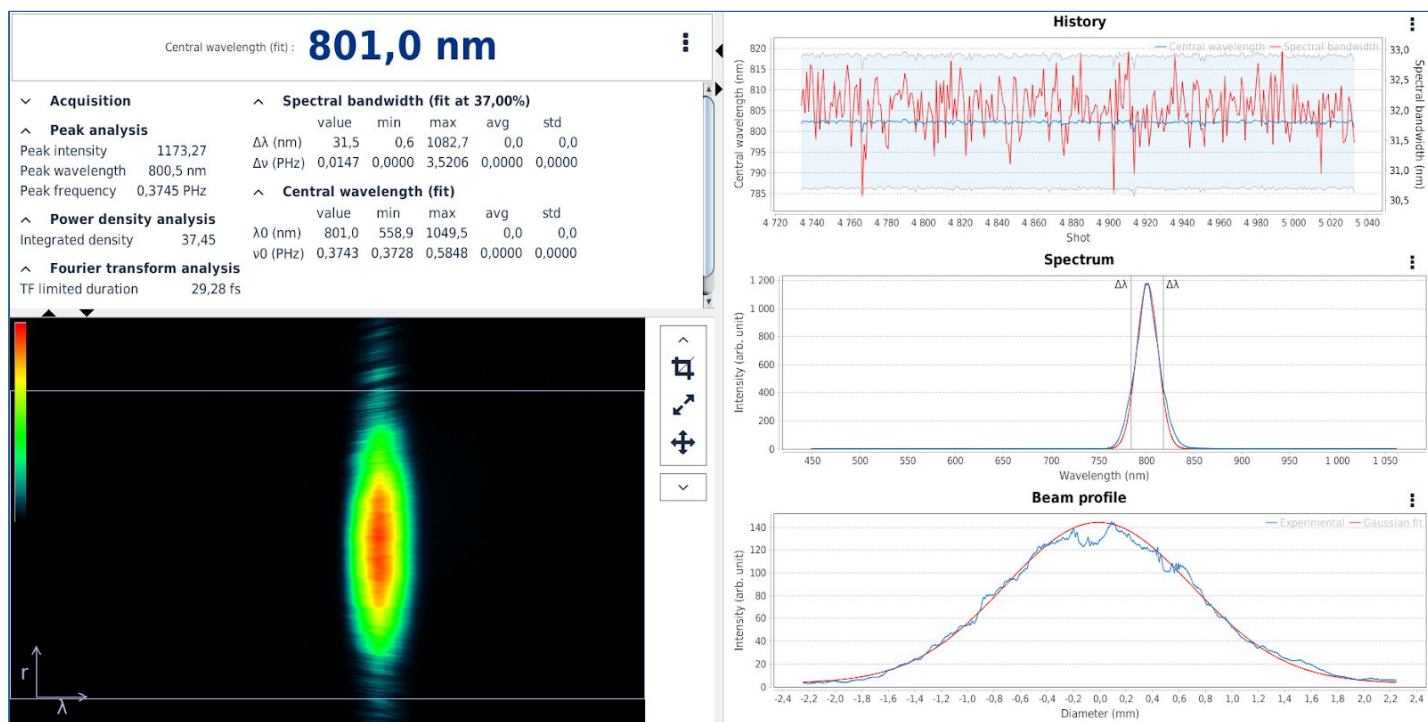
- ◆ Compact design
- ◆ Horizontal and vertical spatial chirp measurement
- ◆ User-friendly and powerful software
(*STAR* : Software Technology for Acquisition and retrieval)
- ◆ High spatial and spectral resolution
- ◆ Different models from 240 to 1100 nm
- ◆ Input beam diameter up to 12.7 mm
- ◆ Single shot capable up to 75 kHz, synchronization options available
- ◆ Fiber input compatible

Specifications

Models	UV-VIS	IR	Yb	UV-VIS-L	IR-L	TiSa-L	Broadband-L
Type	standard			large beam (L)			
Spectral range (nm)	240 – 820	545 – 1100	900 – 1090	240 – 700	655 – 1100	360 – 1050	240 – 1100
Camera resolution	2046 x 1542 3 Mpx			2448 x 2048 5 Mpx			5472 x 3478 20 Mpx
Spectral sampling (nm/px)	0.29	0.27	0.1	0.23	0.22	0.28	0.16
Optical spectral resolution (nm) ¹	0.66	0.64	0.23	0.44	0.43	0.44	0.44
Input beam size (mm)	6.6			12.7			
Max spatial resolution (μm)	4.3			5.2			3.6
Exposure time min – max (ms)	0.024 – 1 000			0.013 – 30 000			0.011 – 30 000
Detection	CMOS 12 Bits – 72 dB						
PC Interface	USB 3.1						
Dimensions (mm)	102 x 101 x 52			117 x 102 x 52			

¹with 10 μm slit.

Custom versions available on request



- ◆ Live extraction of spatially resolved spectra, spatial chirp, spatially resolved Fourier limited pulse duration analysis...
- ◆ Enhanced background & hot pixels treatment, for optimum dynamic and signal to noise ratio
- ◆ Client / Server interface, allowing remote control through network
- ◆ All data exportable into most common formats