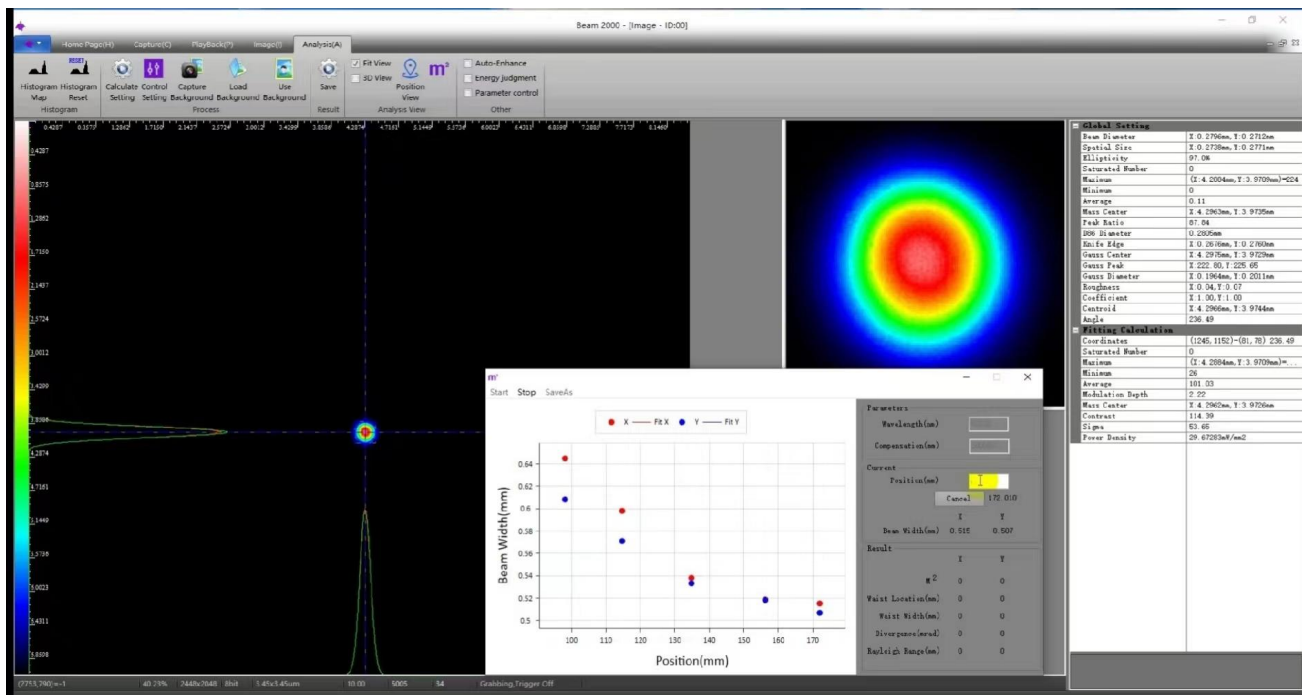


BEAM 2000 2-16 μm analyzer



System Features

2-16 μm wavelength (According to the filter configuration)

640 x 512	Minimum diameter 140 μm	8.96 x 7.1mm active area
640 x 512	Minimum diameter 120 μm	7.6 x 6.1mm active area
1024 x 768	Minimum diameter 120 μm	12.2 x 9.2mm active area
1280 x 1024	Minimum diameter 120 μm	15.3 x 12.2mm active area

Low irradiance capability: $\sim 75 \mu\text{W}/\text{cm}^2$ at 5 x peak-to-peak noise

30 FPS

Port-powered USB Type-C ; no power brick required

No chopper/TEC

Integrated shutter allowing for

HyperCal™ – Dynamic Noise and Baseline Correction software

Automated non-uniformity correction (NUC)

$\geq 1000:1$ Signal to RMS Noise

14-bit ADC

14 ms thermal time constant

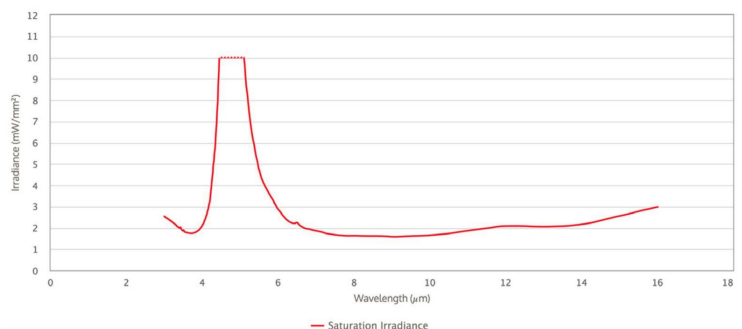
Measure pulsed lasers with $\text{PRR} \geq 1 \text{ kHz}$

Parallel capture on multiple cameras

Beam propagation analysis

ISO 11146 M2 option

Focus finding



Optical Interference Fringing with Coherent Beams

it is not possible to remove the window from the sensor package.

While there is an anti-reflective coating on the outside

there will still be reflections between the window surfaces and the sensor

The impact of fringing due to the window is largely beam and wavelength dependent.

Focused beams will have little impact from fringing,

while collimated beams have the most potential for fringing to affect measurements.

