



NeTHIS
New TeraHertz Imaging Systems

OpenView Series

The universal camera for laser beam analysis and imaging

The largest spectral range

The **OpenView** is an universal camera offering the **largest spectral range from UV to THz domain**. Our technology is based on a high performance **photon to IR converter** able to convert any photon from **0,1 to 3 000 μm** .

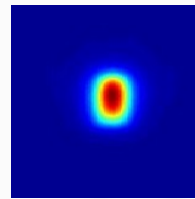
Users select it's own spectral band of the OpenView using **optical filters in UV, Visible, IR, THz region**. And take also benefits of a large sensitivity area ($\varnothing = 50 \text{ mm}$) for high-power **laser profiling and imaging**.



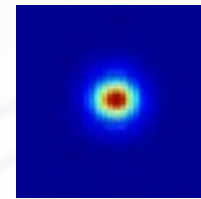
Specifications

Specifications	
Spectral range	Select your own spectral range
Maximum beam diameter	50 mm
Number of pixel	320 x 256 or 640 x 480
Spatial resolution (R)	$170 \mu\text{m} < R < \lambda/2$
Minimum signal detection	$50 \mu\text{W}/\text{cm}^2$
Damage threshold	$1 \text{ W}/\text{cm}^2$
Included Software	Vision and acquisition
Product size (mm)	90 x 90 x 200
Working temperature	Room temperature
Supply voltage	110/220 V
Plug-in	Gigabit Ethernet

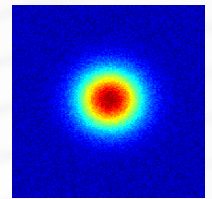
UV Laser
 $\lambda = 0,2 \mu\text{m}$



IR Laser
 $\lambda = 3 \mu\text{m}$



THz Laser
 $\lambda = 2800 \mu\text{m}$



Applications

Laser beam analysis
(*profiling, M^2 , divergency, ...*)

2D or 3D multispectral imaging

Non destructive testing and industrial vision
(*composit, wood, plastic, ceramics, ...*)

Key benefits

Choice of spectral range : **UV, Visible, IR, THz or multi-spectral (0,1 to 3000 μm)**

Largest and uncooled detection surface

Adapted for **all high-power lasers sources**
(*Excimer, solid state, OPA, QCL, CO2, Gunn diode, BWO, ...*)

Noise reducing software

OpenView Series



OpenViewUV
0,05 - 1 μm

OpenViewIR
1,1 - 25 μm

OpenViewTHz
25 - 3000 μm

OpenViewMS
0,1 - 3000 μm

Vision and acquisition software included

Accessories



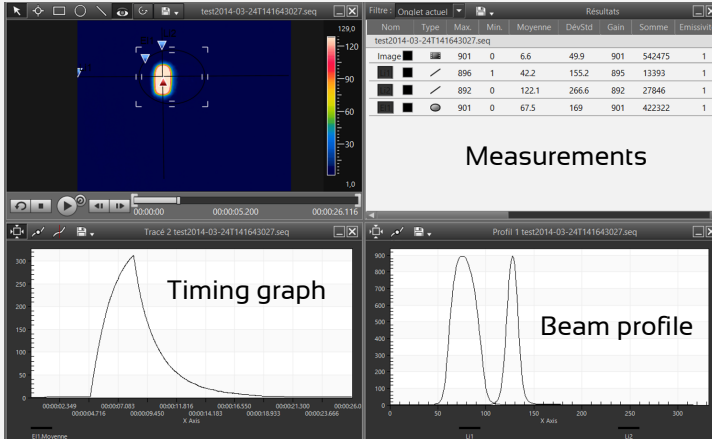


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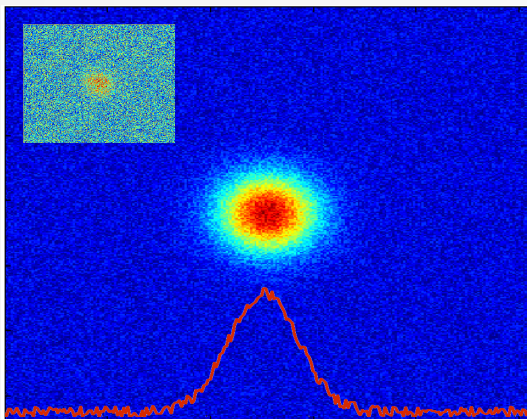
View and characterize your beam



Functionality

- Real time vision/acquisition mod
- Profile analysis
- Timing graph and measurements

Noise and Thermal software processing to enable low-energy

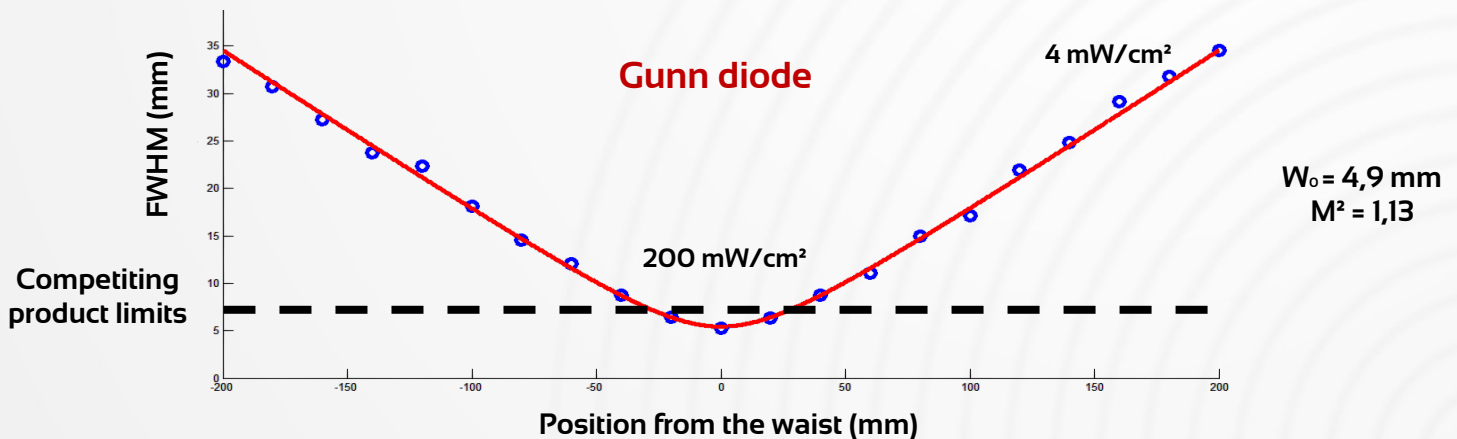


OPA Laser

- Spectral range = 0,1 - 3 THz
- Peak energy : 1 μ J
- Beam diameter : 0,9 mm
- Pulse duration : 100 fs
- Frequency rate : 1 kHz

Increase by 10 to 100 times the signal to noise ratio

Unique THz beam profiling characterization



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