



**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  $\mu\text{m}$** .

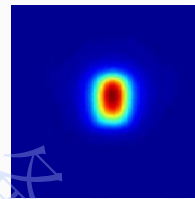
Users select it's own spectral band of the OpenView using **optical filters in UV, Visible, IR, THz region**. And take also benefits of a large sensitivity area ( $\varnothing = 50 \text{ mm}$ ) for high-power **laser profiling and imaging**.



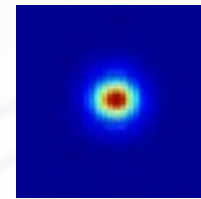
### Specifications

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

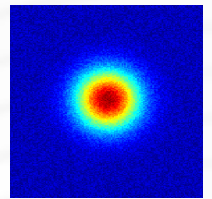
**UV Laser**  
 $\lambda = 0,2 \mu\text{m}$



**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  $\mu\text{m}$ )**

**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  $\mu\text{m}$



**OpenViewIR**  
1,1 - 25  $\mu\text{m}$



**OpenViewTHz**  
25 - 3000  $\mu\text{m}$



**OpenViewMS**  
0,1 - 3000  $\mu\text{m}$

*Vision and acquisition software included*

## Accessories



OPFilter-VIS



OPFilter-THz



OPFilter-IR



OPFilter-UV



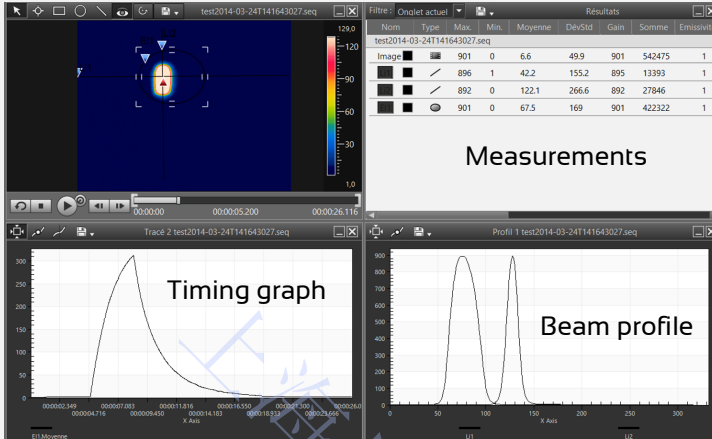


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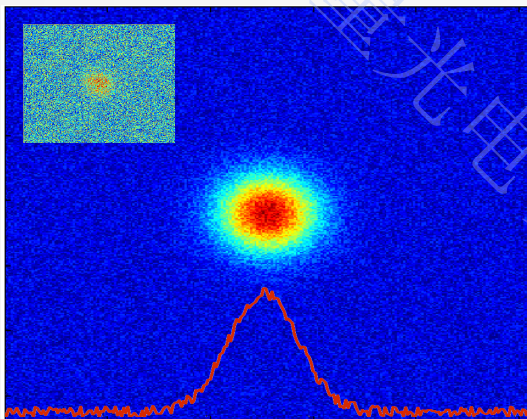
## View and characterize your beam



### Functionality

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

## Noise and Thermal software processing to enable low-energy

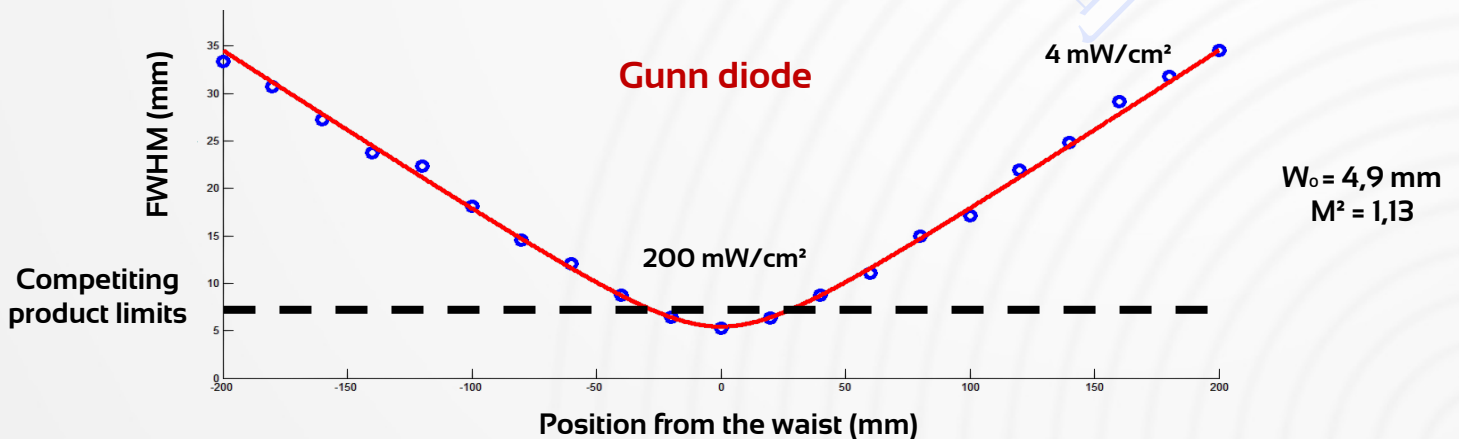


### OPA Laser

- Spectral range = 0,1 - 3 THz
- Peak energy : 1  $\mu$ 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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