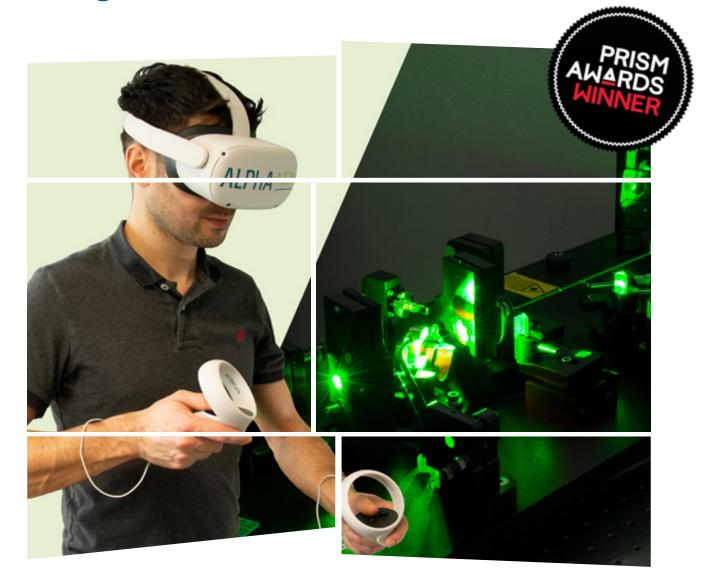
## Immersive Photonics Lab

A virtual reality application for photonics training



## ALPHA NOV Optics & Lasers Technology Center

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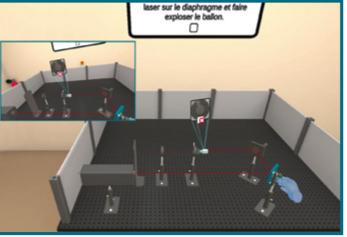
## Immersive Photonics Lab

### A virtual reality application for photonics training

The Immersive Photonics Lab is an innovative training tool that places the learner in a virtual reality photonics lab. This immersive learning environment enables mastery of your company's professional technical actions.



Virtual reality headset



Optical laboratory in a virtual environment.

The use of virtual reality makes it possible to effectively develop procedural skills in the industrial environment.

### Advantages:

- Train technical procedures and actions.
- Enable distance learning. •
- Ability to guide learners at various abilities. •
- Limit the downtime of equipment for training. •
- Reduce professional risks for operators. •
- Preserve optical and mechanical components. •
- Facilitate training implementation. •

#### Usage scenarios:

- Training of a new employee.
- Training on new equipment.
- Refresher training.
- · Customer training to support equipment usage
- After sales service.
- Commercial presentations. •

### **Technical characteristics**



Supervision via tablet

Reproduced physical phenomena	<ul> <li>Throwing beams.</li> <li>Gaussian beams.</li> <li>Interference.</li> <li>Laser cavity.</li> <li>Disruption linked to the pre</li> <li>Feedback by visualizing physical</li> </ul>
Educational scenarios	<ul> <li>"Tutorial" mode: mode with</li> <li>« Exploration » mode: explo</li> <li>« Sandbox » mode: constru</li> </ul>
Assistance - Supervision	<ul><li>Spectating possible on sma</li><li>Multi-player mode to suppor</li></ul>
3D Environment	Customizable, representing
Equipment	<ul> <li>Virtual reality headset for g</li> <li>Weight: 500 g.</li> <li>Wireless.</li> <li>No extra equipment.</li> </ul>



Custom built photonic system.



Remote assistance and supervision with "multiplayer» mode

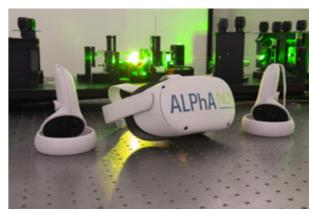
esence of faults. ysical phenomena on the actions of the operator

n a high level of guidance for accompanied learning. pratory mode to develop learner autonomy. uctive mode for setup development.

artphone/tablet ort learners within the same virtual environment

g your work environment

eneral release



Autonomous virtual reality headset.

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