

## HoloView 3D In-situ Refractive Index Imaging Function Module



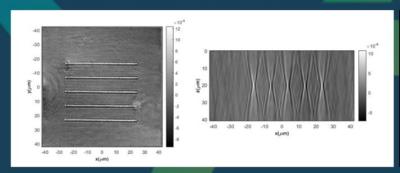
Innofocus has launched the world first 3D laser nanofabrication system equipment with in-situ refractive index imaging functionality called "HoloView 3DRI Imaging". This advancement represents a major breakthrough in laser nanofabrication sector, allowing online inspection of the fabrication outcomes and on-site correction of fabrication conditions.

It greatly reduces the time span required for photonic device fabrication and characterisation and in the meantime significantly increases the fabrication accuracy and reproducibility.



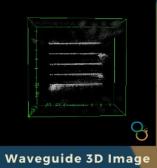
## **Application Scenarios**

- Fabrication condition characterisation
- · Fast parameter optimisation
- · Optical waveguide morphology characterisation
- · Optical material uniformity characterisation
- Internal damage characterisation for micro optical elements
- · FBG in-situ characterisation
- Optical component material properties characterisation



Waveguide Top View

Waveguide Side View

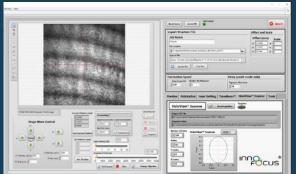




**FBG CCD Image** 

**Reconstruction RI Image** 

FBG 3D Image



HoloView Image Scanner



**HoloView Image Processer** 

## **Customer Value**

- The world's only commercially available highresolution in-situ 3D refractive index distribution characterisation equipment,
- In-situ refractive index characterisation for rapid optimisation of design and fabrication parameters.
- Characterises a wide range of commonly used optical materials, including polymers, glass, sapphire, optical fibres, and more.
- Provides customers with an ever-expanding reference system for quantitative 3D refractive index measurements.
- Wide range of applications to test surface and internal refractive index distributions under extreme environmental conditions.
- Convenient one-button operation and highly efficient (less than 5 minutes for an imaging session).
- Obtain unique 3D refractive index distribution data for leading scientific research.