

3D DIGITAL MICROSCOPE

[VHX-7000]

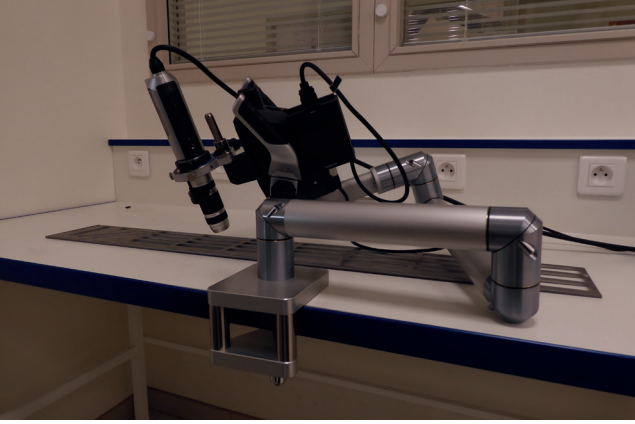
THIS MICROSCOPE ALLOWS FAST SAMPLE OBSERVATIONS AND FROM ALL ANGLES WITH 3D RECONSTRUCTION, ESPECIALLY FOR METALLOGRAPHY OR MATERIAL SURFACE CHARACTERIZATION APPLICATIONS.

Margaux Marnier
Laboratory Manager of the Materials
collaborative platform
ced-materiaux@normandie.cci.fr
00 33 6 01 59 08 43

Centre d'Essais Dynamiques

Un équipement

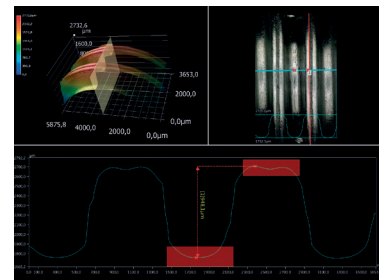
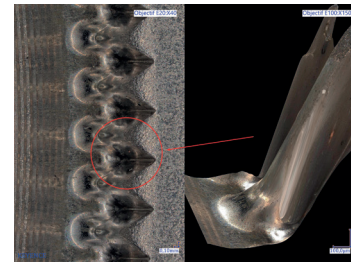
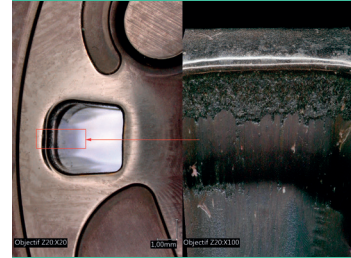




THE 3D DIGITAL MICROSCOPE (VHX-7000) COMBINES, IN ONE SINGLE SYSTEM, FUNCTIONS OF OBSERVATION, IMAGE CAPTURE AND MEASUREMENT. IT OFFERS HIGH QUALITY IMAGES ALLOWING TO REDUCE THE TIME SPENT ON CONTROL.

APPLICATIONS

- Characterization / surface state of materials
- Analysis and measurement of emerging crack
- Porosity analysis
- Fracture surface analysis (including polymers)
- Dimensional analysis of hard-to-reach areas (ex : blind hole)
- Visualization and dimensional quantification of defects from forming
- Welding study
- Fiber analysis
- Analysis of microelectronic components (defects)
- Non-destructive analysis of materials
- Grain size analysis
- Contamination analysis
- Particle counting.



TECHNICAL CHARACTERISTICS

The VHX-7000 Series digital microscope guarantees a large depth of field 20x higher than that of optical microscopes. HDR and 4K technology enables capture of high resolution images. A 3D reconstruction is thus possible up to the extraction of profiles allowing specific measurements to be taken : diameter, distance... and this for small or large parts that can go beyond of the meter thanks to its articulated arm.