



**SOLUTIONS**

X-ray Radioscopy and Industrial CT-scan



## ULTRA HIGH PERFORMANCE 3D CT SYSTEM

**UltraTom**



- ▶ **Modular system with multiple imagers and x-ray generators**
- ▶ **Very large inspection volume and manipulation volume**
- ▶ **From micro to nano 3D CT scan**
- ▶ **Experimentations possible in-situ**

# Technical Specifications

## Safety Cabinet

- Footprint : 440 cm (L) x 300 cm (l) x 300 cm (H).
- Distance X-Ray output to Detector : adjustable, up to 150 cm.
- Lead / Steel construction and X-ray safety interlocks, designed to meet X-ray safety regulations.
- Door with automatic locker during X-Ray emission.

## Mechanics

- 7 motion axis, most of them on air-bearing with 0.1 $\mu$ m closed-loop control.
- Air-bearing rotation stage, takes up to 100kg of sample weight.
- High stability granite base.
- Large through hole in rotation stage and granite base for in-situ equipments.

## X-Ray generator

- Open type micro-focus tubes or sealed.
- 230 kV micro-focus tube // 160 kV nano-focus tube.
- Various targets and filament types available.
- Down to 0.25  $\mu$ m resolution.

## Imager

- Multiple imagers.
- High resolution and speed flat panel.
- Very high sensibility and resolution CCD sensor.

## Computers

- Various powerful GPU(s) configurations available.
- PC, High resolution display screen, Windows 7.
- High capacity and speed storage server option.

## Softwares

- RX Solutions X-ACT software :
- Multiple advanced plugins to drive the source, imager, axis...
  - Other plugins available for: metrology, video sequences acquisitions, image filtering, image export, tomography (rotation, helicoidal, laminography)...
  - Learning / Macros mode for automated acquisition.
  - GPU accelerated CT reconstruction plugin.
- 3D Visualisation and post-processing software with metrology, CAD comparison, porosity and wall thickness analysis modules.

