PHOTONIC
SCIENCE

2D Micro Radiography System

High-resolution | Rapid Imaging | Turnkey Solution

Industrial & Scientific Configurations

PRECISOMETER
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Introducing our state-of-the-art, flexible 2D Micro Radiography System, where Photonic Sciences' industry-leading X-ray cameras deliver exceptional resolution at a microscopic level.

With over 20 years of expertise in X-ray system design, we specialise in customising solutions to meet your unique needs.

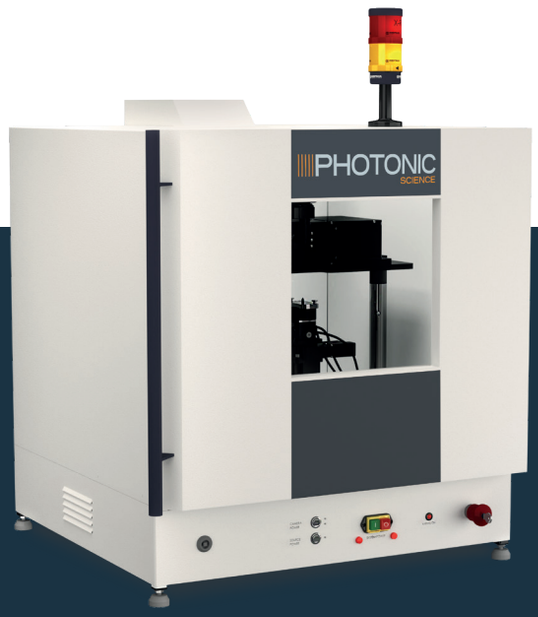
Our system is ideal for diverse applications, including medical R&D, non-destructive testing, archaeology, material science, electronics, and forensics.

We offer two standard products to serve as the foundation for your custom X-ray imaging platform:

For those requiring minute details, our **High-Resolution** system, featuring a dedicated microfocus X-ray source, can resolve features as small as 3 µm.

For applications requiring exposures below 1 sec, active areas up to 95 mm diagonally and 30 µm resolution at the object, our **Rapid Imaging** system employs a powerful 50W minifocus X-ray source, enabling near 1:1 rapid high resolution imaging.





High-Resolution

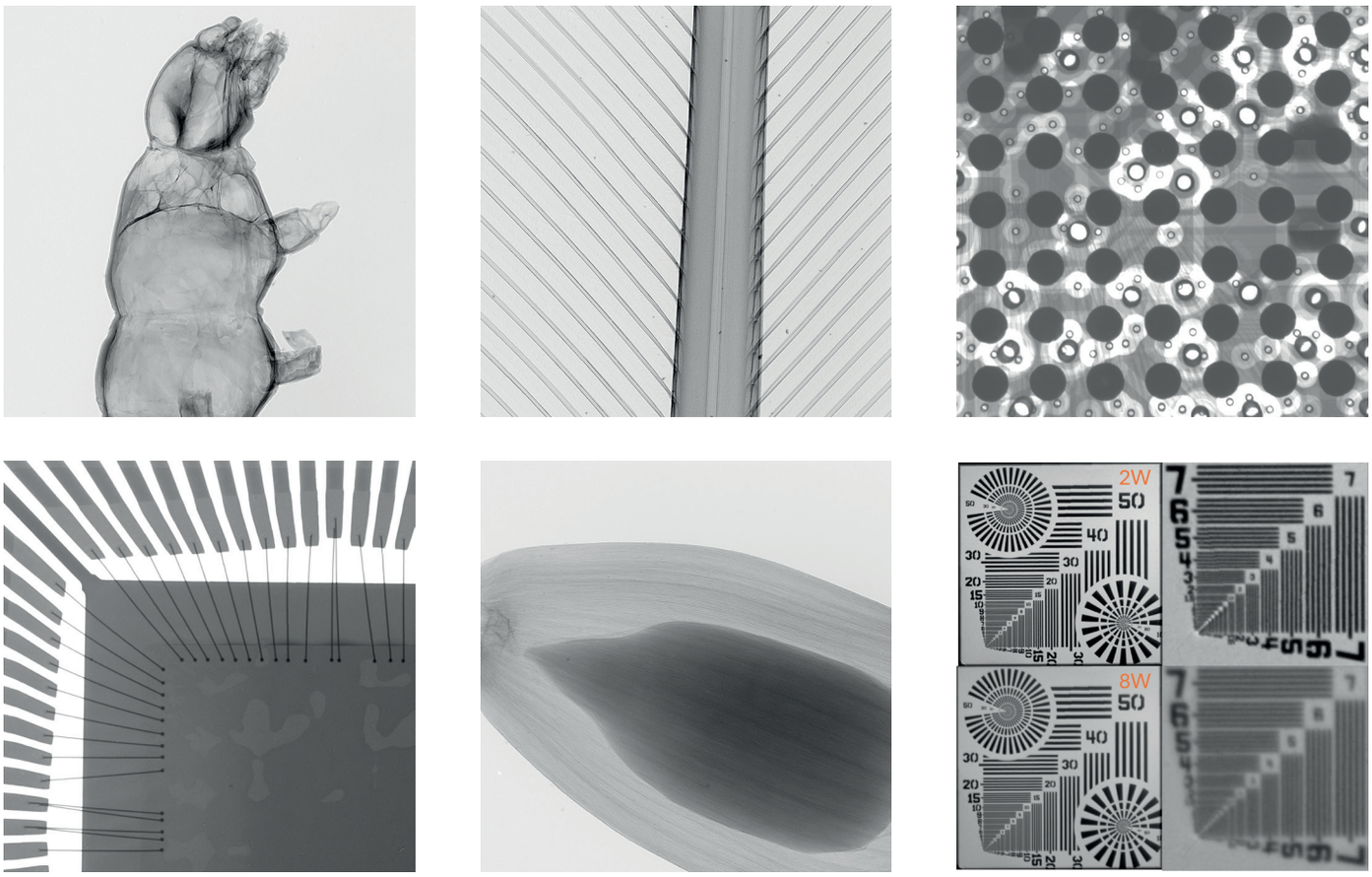
- **60 kVp**
- **Microfocus x-ray source**
- **3 to 5 µm resolution at the target**
- **5 to 10x magnification range**
- **~2 sec typical exposure time** (sample dependent)
- **Fully self-shielded benchtop cabinet**
  694mm W x 782mm D x 1200mm H

Rapid Imaging

- **50 kVp**
- **Minifocus x-ray source**
- **30 µm resolution at the target**
- **1:1 imaging**
- **>1 sec typical exposure time** (sample dependent)
- **Fully self-shielded benchtop cabinet**
  694mm W x 782mm D x 800mm H

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2D radiography images from various samples taken at 60 kVp and 2s exposure, including a meal-worm head, PLD boards, and a resolution chart.

Features & Benefits

- ✓ **Complete System**
  Fully integrated, with table, for plug-n-play operation - no additional room preparation or services required
- ✓ **Fixed Focus Visual Camera**
  Aids in aligning the sample to the X-ray beam and selecting desired imaging area
- ✓ **Motorised Sample Mount**
  Automated sample scanning and positioning
- ✓ **sCMOS X-ray Camera**
  Active area up to 65.5 x 65.5 mm, down to 25 µm resolution, and 58% peak QE
- ✓ **Air Cooled Source**
  Low maintenance, low cost, and low power requirements - run off a standard plug
- ✓ **Targeted magnification**
  1x to 10x variable magnification option for versatile systems which need flexible resolution
- ✓ **X-ray Safety**
  Warning lights, x-ray beacons, and interlocks conforming to Health & Safety Standards
- ✓ **On-site/Remote Install and Training**

Applications

- **Biological R&D**
- **Non-Destructive Testing (NDT)**
- **Archaeology and Paleontology**
- **Material Science**
- **Agriculture**
- **Electronics**
- **Forensics**



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Installation

Video Installation

As a plug-n-play system, with no specialist requirements, install and setup is easy. Each 2D Micro Radiography System is delivered pre-configured with an installation video that takes you through the complete process step-by-step.

Our support team is available by phone or email to answer any questions you may have.

In-person Installation

Should a system require an in-person install, our service team will deliver and setup the 2D Micro Radiography System at your facility.

After Sales Services

Training

2D Micro Radiography Systems come with a comprehensive User Manual to guide users, both new and experienced, through all the features from setup to exposure.

Training videos are also available and a training session, via Teams or on site (location dependant), can be arranged.

Remote support

Our support team are on hand to help diagnose and troubleshoot problems to get your experiment back on-track.

Quality Assurance

Quality and continuous improvement is at the heart of everything we do at Photonic Science, to ensure we deliver on-spec systems every time.

Photonic Science is an ISO9001 qualified company and as standard we provide a 12 month warranty on all our products; with warranty extensions available on request.

We also provide after sales support, including maintenance and repairs, for all Photonic Science cameras, software, and systems.

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Part of Tibidabo Scientific Industries

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bsi. ISO 9001 Quality Management

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Product selection, configuration & integration support

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Explore products & discuss your experiment