



Diamond Detectors Ltd

Diamond Detectors Ltd has been set up to design, develop, manufacture and sell a range of diamond detectors and sensors for a variety of applications including high energy physics, ionising radiation, dosimetry, neutron measurement, deep-uv monitoring, biochemical sensing and elemental analysis. If it's energy resolution, positioning or flux counting that's needed then diamond is the material of choice.

We are already working with some of the leading researchers in high energy physics and companies developing novel

solutions in medical dosimetry.

Diamond Detectors is backed by Element Six Ltd, the frontrunner in the development of synthetic diamond synthesis and the world's leading supplier of supermaterials used throughout manufacturing industry for a wide range of applications. It is the frontrunner in the development of synthetic diamond and novel engineering materials that are being used in industrial applications that span, for example optical, mechanical, thermal, electronic, automotive, telecommunications and medical industries.



Diamond Detectors

Sensing for the real world...



Our service and facilities

We provide fully packaged single crystal and polycrystalline diamond detectors and detector plates in a range of thicknesses between 50 μ and 1mm. In one-offs to small volume.

As part of our service we provide a custom design and packaging service tailored to individual requirements.

Our service includes:-

- Mechanical design using 3D Modelling tools.
- Substrate carrier design (e.g Rogers PCB and Ceramic materials including diamond)
- Laser sawing and shaping.
- Diamond thinning and Polishing.
- Surface measurement using our Optical Profiler (NT9110)
- Lithography and metalization (sputtering tool with up to 25Kev bias and 950C substrate temperature)
- Ion-beam-milling.
- Die placement and wire bonding (Al/Au wedge and gold ball bonding)
- Electrical isolation and characterization.
- Final packaging and test.

We are equipped with the latest production and test equipment backed by stringent quality assurance to guarantee detector performance.



For more information contact us at:

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Diamond Detectors is an E6 Ventures portfolio company.