

**090 PROVAEN – Process Visualisation and Analysis
Endoscope System:
A new measurement tool for industry**

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There is an increasing requirement for versatile in-situ process equipment (essential in the manufacture of many advanced materials and pharmaceuticals) that can be used in the real-time monitoring of particle size, shape and flow properties.

PROVAEN is a European funded, Framework 6 programme involving a consortium of companies and academic institutions. It is designed to produce an innovative characterisation tool for in-situ process analysis, capable of operating in harsh and inaccessible environments, which enables effective process and product development, precise optimisation of material properties, production control and fault diagnosis. This will be achieved through the development of the component technologies to enable the application of a number of advanced laser-based particle measuring techniques via specialised endoscopic probes, interfacing with a simple-to-use, portable system, enabling routine and fast application inside actual process equipment.