



**NEWS RELEASE**  
**24 July 2007**

**New, state-of-the-art vision system central to  
Copley Scientific's cascade impactor validation service**

The accuracy of cascade impactors used in the pharmaceutical industry for characterising inhaled products depends heavily on the size of the nozzles on each stage of the instrument. Using a new, state-of-the-art vision inspection system, Copley Scientific offers a stage mensuration service of unrivalled accuracy. Stage mensuration is a cost-effective process for validating cascade impactors that involves measuring each nozzle to assess wear and corrosion. Regular stage mensuration is recommended in both the US and European Pharmacopoeias for performance validation.

The system used by Copley Scientific is the new Mitutoyo QV404 automated vision inspection system. Also used in-house by major pharmaceutical companies, this instrument delivers unsurpassed reproducibility of 1 micron (to a 99% confidence interval). Copley Scientific is alone in Europe in offering a stage mensuration service based on this system.

The Mitutoyo QV404 has auto-focus, auto-backlight illumination and dual measurement capabilities - edge detection and illuminated pixels. The accuracy and reproducibility it delivers translates directly into improved confidence in effective diameter and in-use margin data, the parameters that indicate whether an impactor is fit-for-use. Use of this system, combined with clearly defined and validated procedures for cleaning, calibration and measurement, gives the Copley Scientific stage mensuration service exceptional integrity.

[www.copleyscientific.com](http://www.copleyscientific.com)

**Ends**

**Image, notes and contact details follow...**

**New, state-of-the-art vision system central to Copley Scientific's cascade impactor validation service.../2**

**High resolution image attached and/or available from Trish Appleton, Kapler Communications [trish@kapleronline.com](mailto:trish@kapleronline.com) Ref: COP/JOB/018**

**Caption:** Mensurating a NGI



**About Copley Scientific**

Copley Scientific is recognised as the world's leading manufacturer of inhaler test equipment and is a major supplier of test equipment for pharmaceutical solid dosage forms, including tablet dissolution, disintegration, friability, hardness and powder testers. The company has offices in the UK and Switzerland and a partnership with aerosol particle science experts MSP Corporation in the US. Copley's broad range of testing products for metered-dose inhalers, dry powder inhalers, nebulizers and nasal sprays are supplied and supported worldwide through close relationships with specialist distributors. Serving the pharmaceutical and associated industries, Copley offers an extensive range of equipment for research, production, clinical trials and quality control, as well as full validation and aftersales service, providing a single source for products that meet individual needs.  
[www.copleyscientific.com](http://www.copleyscientific.com)

**For further information**

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