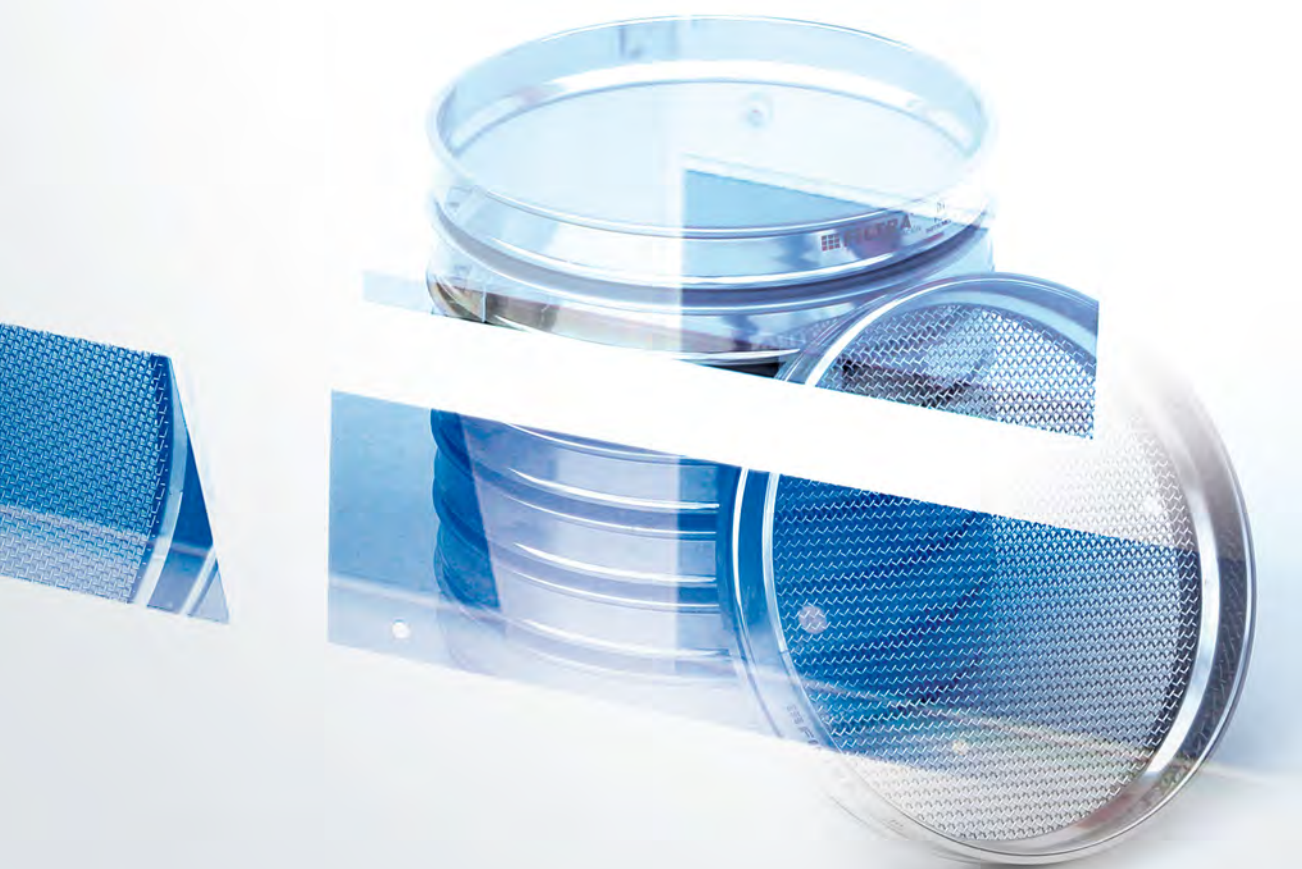# Sievecal

FULLY AUTOMATIC LABORATORY TEST SIEVE
CALIBRATION APPLICATION USING
IMAGING TECHNOLOGY

Sievecal

Is a fully automated instrument designed to provide pass fail compliance data for laboratory test sieves

How it works

With an avarage analysis time of two minute, (inspection grade) sieves are quickly and accurately verified for compliance to ASTM, DIN, or ISO Standards.

Using sophisticated digital imaging hardware, and robust software package, a pre-defined standard operating procedure makes testing sieves as easy as a click of a mouse.

As the sieve rotates, the entire surface of the mesh is analyzed, providing real time information on wire thickness, and aperture dimensions. A fully report is generated for each sieve, and can be printed, or saved as a file.

CLICK FOR DEMONSTRATION

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Why chose Occhio Sievecal

Fast sieve analysis, measures apertures as well as wire thickness

2 minutes pass fail SOP

Comprehensive software package

Complete report generation capabilities

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Key points

Compatible with 3inch, 8inch, 12inch, 100mm, 200mm, 300mm ASTM and ISO sieves formats

Apertures from 38µm to 12mm

Fully computer controlled procedure including autofocus

Provides ASTM E 11-13 Pass Fail Criteria:
Min Sieve opening   Min wire diameter
Min Std. Deviation   Max Std. Deviation
Sieve Opening X (Mean Min Max Std. Dev.)
Sieve Openin Y (Mean Min Max Std. Dev.)
Wire Thickness X (Mean Min Max Std. Dev.)
Wire Thickness Y (Mean Min Max Std. Dev.)

Technical specifications

Dimensions and weight	*Width x Deep x Height* *Weight*	83 x 60 x 87 cm 57 kg
Working conditions	*Working temperature* Power Supply	Temperature 5°C – 25°C Humidity 35% - 80% non-condensing 100-220 Vac 50-60Hz (external power supply module included with the packing)
External computer *(Optional - minimum specification)*	*Processor* *Ram* *Hard Disk* *Display* *Mouse, keyboard* *Operating system*	Intel Core i7 5820K@3.3GHz 32GB DDR4 2.133MHz 1 TB + SSD 256GB 1920 x 1080 usb, US Keyboard Windows 7pro 64 bits (or 10 Pro 64 bits)
Optics and imaging device	*Standard camera type* *Camera resolution* *(Zoom front lens included)* *(Zoom front lens not included)* *Lens type* *Light source*	USB 3, ultra high resolution from 2.5up to 14.9 µm/pixel from 0.7 up to 4.1 µm/pixel Telecentric zoom (from x4.5 up to x0.24) Monochrome 450nm blue light
Instrument main features	Sieve opening Sieve size supperted Sieve opening computing Dedicated acquisition and reporting software compliant with ASTM E11 standard Fully automated flat scanning table (sieve rotation and translation) Standard analysis duration approximately 2 minutes Easy focusing Non Contact inspection measure Detection and counting of clogged opening (relative proportion)	from 38µm to 12.5mm 3, 6 and 12 inch, sieve adaptor included X Opening, Y Opening X Wire Thickness, Y Wire Thickness

Occhio Seeing is mesuring