

# Spherometer

EssentOptics offers the spherometer for tactile measurement of curvature radii of both concave and convex surfaces. The spherometer measures the arrow  $a$ , whereas  $r$  is the known effective radius given by the construction of the ring of the spherometer. The values  $a$  and  $r$  yield the curvature radius  $R$  of the surface. The measurement is digitally maintained by a comprehensible software with protocol preparation.

measurement range of arrow $a$	up to $\pm 60\text{mm}$
evaluation range of curvature radius $R$	$>+3.2\text{mm}$ $<-6\text{mm}$
diameter of the sample	6 ... 500mm
measurement resolution	0.1 $\mu\text{m}$
radius evaluation accuracy	$\pm 0.3\mu\text{m}$
repeatability accuracy of radius evaluation	0.001%
radius measurement uncertainty	$>0.01\%$
device dimensions	ca. 140x140x280mm
device weight	ca. 3.5kg
power input	110/220V, 50/60Hz

