Other technical data such as

- lateral resolution
- vertical resolution
- or measurement frequency

depend on the controller used and are therefore not listed here.

We have a small but high-quality selection of chromatic confocal distance probes developed in our laboratories and manufactured in-house.

Further examples of our standard sensors with focusing self-developed

high-performance aspheres

are to be found on our homepage at

www.jordan-oe.com/en/products/

We also develop and manufacture

customer-specific

chromatic confocal distance probes.

Information about the function of our

chromatic confocal distance sensors

and

confocal surface measurement technology

can be found on our homepage at

www.jordan-oe.com/en/publications/

Jordan Optical Engineering GmbH

Consulting - Development - Production and more
… everything related to high accuracy optical surface metrology - and roughness measurement.

We support you in all aspects of **non-contact and high accuracy optical surface metrology - and roughness measurement**.

Whether you like to develop new products in this area or to implement difficult and technically demanding projects - **we are the experts in these fields**.

We have been involved in high accuracy optical surface and roughness measurement since 1990. Our technology is comparable to traditional stylus measurement. With **more than 25 years of experience in optical surface and roughness measurement** we can therefore guarantee the highest levels of reliability to our customers.

Take advantage of our know-how
… and our versatility
… and design the optimum system you deserve!

Jordan Optical Engineering GmbH
Dr. Hans-Joachim JORDAN
Scheffelweg 21
D-77830 Buehlertal
Germany
Fon: +49.(0)7223.9539300
Fax: +49.(0)7223.9539306
contact@jordan-oe.com
www.jordan-oe.com

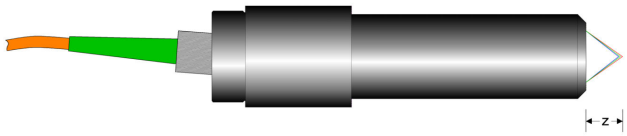
JORDAN OPTICAL ENGINEERING

www.jordan-oe.com

Chromatic Confocal Distance Probe

RB-1000.2

NA = 0.5 / z = 10 mm / dz = 1 mm



You can download this flyer as an **English PDF**:

www.jordan-oe.com/en/products/

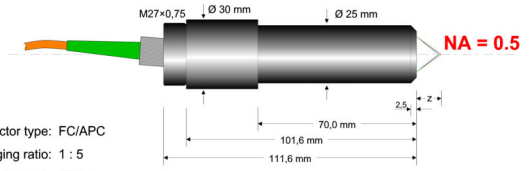
---

*Sie können diesen Flyer als **Deutsches PDF** herunterladen:*

www.jordan-oe.com/de/produkte/

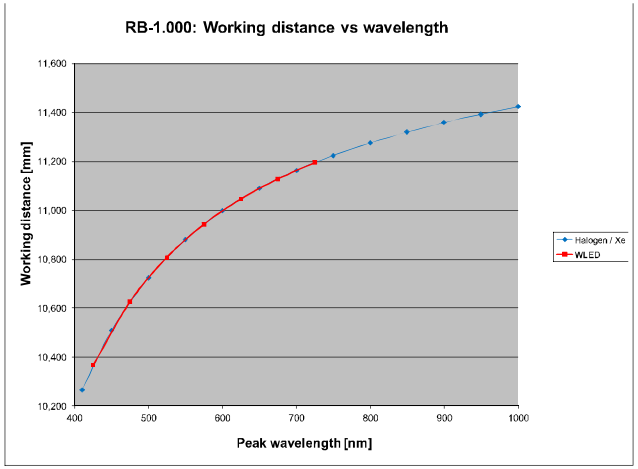
Technical Data:

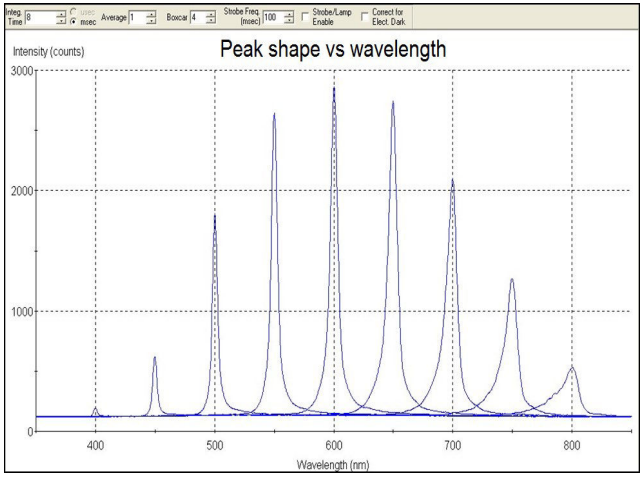
RB-1000.2



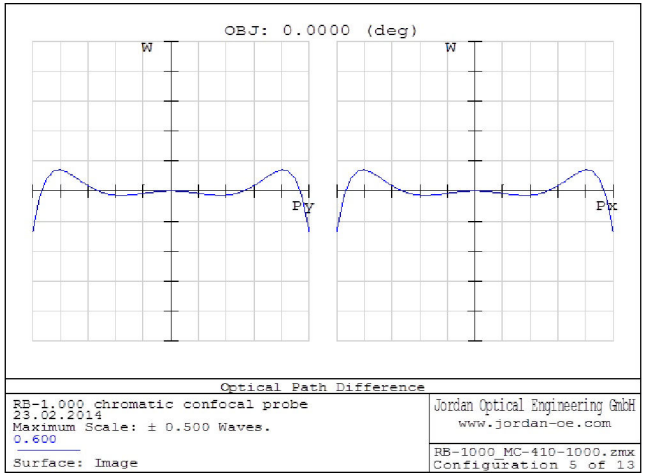
Fiber connector type: FC/APC
Imaging ratio: 1 : 5
Head weight: 128 g

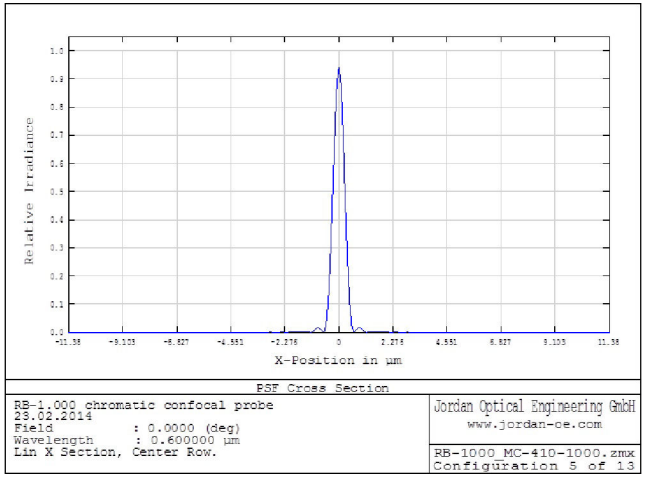
Theoretical data (Halogen / Xe light source)	Theoretical data (W-LED light source)
z = 10.265 mm @ λ = 410 nm : dz = 0.000 mm	z = 10.366 mm @ λ = 425 nm : dz = 0.000 mm
z = 10.998 mm @ λ = 600 nm : dz = 0.733 mm	z = 10.807 mm @ λ = 525 nm : dz = 0.441 mm
z = 11.276 mm @ λ = 800 nm : dz = 1.011 mm	z = 11.064 mm @ λ = 625 nm : dz = 0.680 mm
z = 11.424 mm @ λ = 1000 nm : dz = 1.159 mm	z = 11.195 mm @ λ = 725 nm : dz = 0.829 mm

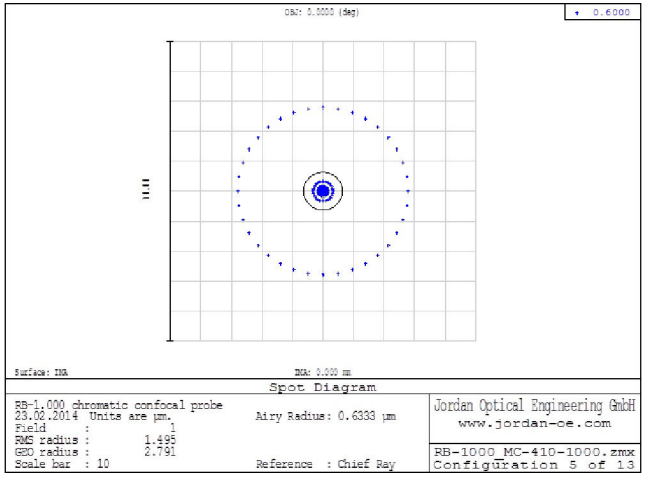




Optical Performance (at 600 nm):





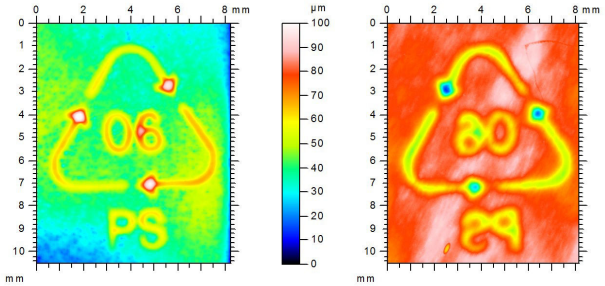


A typical application:
Shape analysis of molded parts

Analysing recycling logos of a plastic mug

2 topographies taken from the

Inside **Outside**



↓

Operations on the topography from outside

Reflection
Inverting in z

↓

„Matching“ (autocorrelation)

In translation
In rotation

↓

Subtracting the difference to find the deviation in thickness