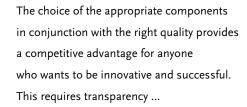


OPTICS PLAYS A MAJOR ROLE IN OUR LIFE. WITH OPTICAL ELEMENTS WE CAN CONTROL, MEASURE, POSITION AND MODIFY FASTER AND MORE PRECISE THAN IN ANY ALTERNATIVE WAY. IN NUMEROUS APPLICATIONS LIGHT IS THE VITAL PART OF THE FUNCTION AND OPTICAL COMPONENTS ARE USED TO CONTROL IT IN THE OPTIMUM WAY.

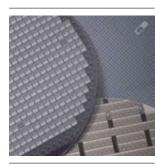


Actual areas of use vary from complex systems to very basic devices like optical sensors and scanners. Industrial applications include equipment for material manufacturing, wafer steppers for the semiconductor industry, inspection systems for surfaces and substances, communication and data transmission systems, and many more.





The technological progress over the last decades has generated a multitude of new optical possibilities and in many fields of industry optics has become crucial for the function of devices.







PHYSIX THE ART OF TRANSPARENCY

To take the optimal decision you need expertise and transparent processes. Physix has both and will therefore be your guide through the complex world of optical technologies. We offer customer specific solutions in the field of optical components and assemblies. As a partner we exhibit our manufacturing facilities for our customers to demonstrate our capabilities. Short communication channels enables agility and flexibility.

We manufacture optical components and optical assemblies for OEM customers. We supply to print but we also provide input to achieve the optimum solution for the customer, which means minimizing costs without sacrificing system performance. With rapid prototyping we enable our customers to shorten their development time so that they can be well ahead of competition.

Physix is a subsidiary of Euromex, a company that has more than 40 years of experience in optical instruments and is well known for its high quality products. Our well established customer base confirms that we stand for trustworthiness and reliability. Our flat and focused organization is known for its cost efficiency, flexibility and transparency. This is why partnering with Physix is different ...







Flat optical components have one or more plano polished surfaces. Our product offering includes items with parallel or wedged surfaces like mirrors, windows, wedges, etc. as well as all types of prisms. Furthermore we offer color glass filters, thin film filters, beamsplitter plates and cubes. Special capabilities in micro optics (down to 0.2 mm) and large components up to 3200 x 400 mm complete the product line. One of our key differentiators is highly accurate surfaces on large substrates (e.g. $\lambda/4$ on 300 mm diameter).

Depending on material and geometry the following specifications can be achieved:

- Dimensions from 0.2 mm up to 1000 mm or more
- Flatness up to $\lambda/40$ P-V
- Parallelism or angular accuracy of 1 arc sec
- Surface quality up to 5 / N x 0.001 according to ISO 10110-7 or S-D 10-5 according to MIL-PRF-1383B



Curved optics

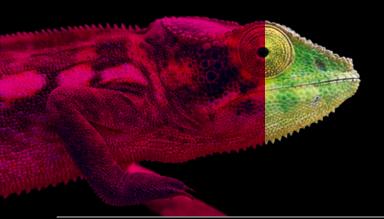
Curved optics are components with one or more spherical or aspherical surfaces. Our capabilities include singlet lenses like plano-convex, plano-concave, bi-convex, bi-concave or meniscus lenses as well as cylindrical lenses. Additionally achromats or other multi-element lenses made of different materials are manufactured to print or designed to meet your requirements.

Depending on the type of component and material requested the following specifications can be achieved:

- Dimensions up to 150mm or more on request
- Surface figure up to $\lambda/20$ P-V
- Surface quality up to 5 / N x 0.001 according to ISO 10110-7 or S-D 10-5 according to MIL-PRF-1383B







Optical coatings

Our optical components can be supplied coated or uncoated. With the latest technology of coating equipment we provide:

- AR-coatings like single layer (R<2.0%), double layer (R<0.25%), broadband (Ravg<0.5%) or laser grade (R<0.15%) with selectable wavelength / wavelength range
- Metallic reflective coatings as Aluminum, Silver or Gold
- High reflective dielectric coatings (R>99.8%)
- ND-Filter coatings
- Dichroic filter coatings (color filter, heat reflection, cold-light, etc.)
- Beam splitter coatings (single wavelength or broadband for VIS, UV, IR, polarizing or non-polarizing)
- Other coatings on request



Measuring equipment

Consistent quality can only be ensured by clear procedures and appropriate measuring devices. Therefore we use the most up-to-date equipment, like a Zygo Interferometer, a Fisba Interferometer and a PerkinElmer Lambda 950 Spectrophotometer to guarantee the quality of our products. Even the flatness of larger surfaces up to 300 mm diameter (12") can be measured as a whole. On request we supply appropriate documentation like interferograms, spectral curves, etc.



All above mentioned specifications and products are just samples of our broad product offering. Please contact us to discuss your specific optical requirement and experience our transparent approach to completely satisfy your needs.





PHYSIX PHOTONICS IS A EUROMEX COMPANY

Papenkamp 20, 6836 BD Arnhem P.O. Box 4161, 6803 ED Arnhem The Netherlands T +31 (0)26 323 44 73 F +31 (0)26 323 28 33 info@physix.com www.physix.com