Optics Balzers News - 01.09.2015





SPIE Optical Systems Design



Visit us at the SPIE trade fair in Jena from September 8-9 at booth 203.

Discover unique solutions and the wide variety of applications for optical coatings and components. We are looking forward to welcoming you as our guest.

Highlight

At this year's SPIE conference on "Optical Systems Design" in Jena, Jan Broßmann will hold a presentation on 9 September about "Low scattering filter coatings made by plasma-assisted reactive magnetron sputtering".

In multi-spectral instruments, the spectral separation is performed by optical bandpass filters. Thin-film coatings with large coating thicknesses (up to 20µm) and a high number of layers are necessary to meet the spectral requirements. With increasing coating complexity, particular attention has to be paid to scattering.

The talk summarizes the main factors for scattering in thin-film filters. Derived from these considerations, the realization of complex bandpass filters with demanding requirements and a focus on low scatttering will be presented.

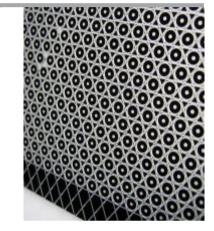
more information

CrBlack™ Coating

Sensor Lids / Projection Display / Lense Apertures

New Datasheet available

Optics Balzers has improved its capabilities in the area of black chrome deposition. Wide spectral regions, for example from 300nm to 1200nm, can be covered with the new black chrome layer structure, which allows very low reflectivity over a large angle range. Optical density above OD4 can be reached regularly and a very low pin-hole size (<10µm) and density is achieved. Structuring is possible both with lift-off and etching technology. These coatings are used to absorb undesired scattered light in many applications as sensor lids, structured



sensor filters, projection display applications etc. and are therefore frequently combined with other coatings. Different substrate geometries up to 200mm diameter and square as well as materials, including metal, are available.

read datasheet

Sentinel 2A – on the way!

The Sentinels are a fleet of satellites designed specifically to deliver the wealth of data and imagery that are central to the European Commission's Copernicus programme. Sentinel-2 carries an innovative wide swath high-resolution multispectral imager with 13 spectral bands for a new perspective of our land and vegetation. The mission will mainly provide information for agricultural and forestry practices and for helping manage food security.



Sentinel-2A was launched on 23 June 2015 and Sentinel-2B will follow in the second half of 2016.

Optics Balzers Jena was part of the manufacturing consortium from the early engineering phase up to the delivery of optical filters and beam splitter components for Sentinel 2A and 2B instruments. Furthermore Optics Balzers Jena has already been selected to deliver improved optical components for upcoming follow-up missions Sentinel 2C and 2D.

more information

Our next Events

ELIV, Baden-Baden, Germany

Visit us at ELIV in Baden-Baden from October 14-15, 2015 and meet with our expert for some specific advice.

more information

BiOS / Photonics West, San Francisco, California

and Photonics West, The Moscone Center, in San Francisco, California, USA. Come to our booth to discover the unique solutions and the wide variety of applications that optical components allow. We look forward to welcoming you as our guest.

We have the pleasure of welcoming you from February, 13-18, 2016 to Optics Balzers at SPIE BiOS

more information

Further information regarding our attendance of trade fairs will be posted regularly at www.opticsbalzers.com/event.

Take a look!

News from Marketing

The following datasheet is available now:

Datasheet

OBA-050-PE CrBlack™ Coating