

## PRESS RELEASE

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### Endoscopic Zoom Lens from Berliner Glas

As a quality leader for sophisticated optical, electro-optical and opto-mechanical assemblies used in endoscopic and microscopic cameras, Berliner Glas Medical Applications presents its capabilities to design and manufacture customized zoom lenses for autoclavable high resolution endoscopic cameras.

As an important part of an endoscopic camera, the zoom lens quality has great influence on the performance of the overall system. By using zoom lenses, endoscopic image magnification is accomplished that is comparable to microscopic examination. For endoscopes, zoom lens systems are usually made of two or three lenses which are shifted in axial direction to vary the focal length in order to enlarge objects in the field of view.

With its extensive experience in design and manufacturing of lenses and zoom lenses, Berliner Glas Medical Applications meets the needs of its customers in medical technologies and continually monitors new trends in product- and manufacturing technologies in this market. Berliner Glas zoom lens systems are designed to comprise high resolution (full HD), shock resistance, light weight, small (micro) dimensions and autoclavability, which have a high priority in medical technology. Berliner Glas meets this demand by guaranteeing at least 500 autoclave cycles for opto-electro-mechanical assemblies.

As an OEM manufacturer, Berliner Glas has extensive expertise in designing both optical and mechanical interfaces to integrate with the customer's existing endoscope and

camera systems. With highly developed engineering in optical design, systems in full HD (1080x1920 pixels) are possible. Incremental shifting or continuous shifting between the desired focal lengths can be accomplished with either a mechanical or an electromechanical (motor) shift. Any desired lengths of travel or focal lengths can be designed according to the customer's demands or to the endoscopic standard. The dimensions can be implemented for both tip-cameras and conventional cameras at the proximal end of the endoscope.

### **About Berliner Glas**

The Berliner Glas Group is one of the leading European providers of optical key components, assemblies and systems as well as high-quality refined technical glass. With our understanding of optical systems and optical production techniques, we develop and integrate optics, mechanics and electronics into innovative system solutions. These solutions are applied worldwide across the whole spectrum of the light-using industry – from medicine to semiconductors, metrology and analysis to defense or as displays, for example in offices, televisions, monitors or navigation systems. The Berliner Glas Group consists of companies which have been developing and producing optical solutions for over 100 years. As an owner-managed medium-sized company with around 950 employees, we can offer our customers tailor-made, market-driven solutions of the highest quality

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