# Press Release

**The railway network under control: High-speed cameras for precise and fast inspection tasks**

(11.09.2018) With the LX series, Baumer offers powerful and robust Global Shutter CMOS cameras for multifaceted inspection tasks in high-capacity railway networks and catenary infrastructure. Thanks to high resolutions and frame rates up to 337 fps as well as powerful 3D algorithms, these cameras are the ideal choice. Not even the finest detail in the inspection of tracks, rails and catenary wires will escape resolutions up to 48 megapixel, for example when measuring height, residual thickness and stagger of the catenary wire. Exposure times of less than 10 µs ensure precise image acquisition even at high speed. Supported Gigabit Ethernet interface standard makes camera integration easy and cost-efficient. Furthermore, thanks to the outstandingly high sensitivity and dynamic range of more than 70 dB the cameras are well prepared to endure outdoor use with changing light conditions.

For inspections on pantographs, wheels or brakes, the LX 3D cameras use laser triangulation at up to 4K line length resolution and profile rates of more than 2.5 kHz at 128 lines and capture even the slightest damage or wear and tear precisely and at high speed. Data processing straight in the camera while outputting the profile data only cuts down on the amount of data transferred and increases system performance.

For catenary infrastructure inspections on proper geometry, breakage or any deformation, the 10 GigE LX cameras are the ideal choice. Featuring bandwidths up to 10 Gbit/s, they are capable of high-speed image transmission while reducing evaluation time in parallel. Based on the outstanding image quality of *Sony Pregius* sensors, the cameras ensure reliable character recognition, for example in UIC wagon number recognition.

More information: [www.baumer.com/cameras/LX](http://www.baumer.com/cameras/LX)

Photo: The cameras of the LX series are the ideal choice for inspection tasks in the railway industry.

Number of characters (with spaces): approx. 1900

Text and picture download at: [**www.baumer.com/press**](http://www.baumer.com/press)

**Baumer Group**

The Baumer Group is one of the worldwide leading manufacturers of sensors, encoders, measuring instruments and components for automated image processing. Baumer combines innovative technologies and customer-oriented service into intelligent solutions for factory and process automation and offers an unrivalled wide technology and product portfolio. With around 2,700 employees and 38 subsidiaries in 19 countries, the family-owned group of companies is always close to the customer. Baumer provides clients in most diverse industries with vital benefits and measurable added value by worldwide consistent high quality standards and outstanding innovative potential. Learn more at [www.baumer.com](http://www.baumer.com) on the internet.

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