

# Press Release

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## Baumer TX series: the smallest in its performance class

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*Series production milestone for the new Baumer Fire-Wire - IEEE1394b cameras of the TX range*

Baumer gives GO! for the serial production of the new FireWire cameras of the TX series. The modular set up of these matrix cameras supports the fast IEEE1394b interface with data transfer rates up to 80 MB/sec. With the new camera generation –consisting of the TXF- and TXD-product lines – Baumer supports the asynchronous data transfer (Baumer FCAM) as well as the isochronous data transfer (DCAM). While the TXD cameras support the DCAM standard, the TXF cameras can utilize the advantages of the asynchronous data transfer which results in more bandwidth and safe data transfer. Through the bilingual design the new IEEE1394b cameras are FireWire “b” and “a” compatible. The characteristics of this new TX camera series can be described in short with – faster, more compact, more accurate, more intelligent and, indeed, better value for money. Both the TXF and TXD lines consist of 6 models (monochrome and color versions of each), with resolutions from VGA up to 5 million pixels, which can achieve frame rates of up to 90 frames per second. With the new camera series, Baumer continues in its consistent commitment to innovation and quality.



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The progressive scan CCD sensors that have been implemented, and the superb 12 bit signal processing ensure the very best image quality. Low noise and structure-free image data ensure reproducible images, which results in demanding image processing tasks. This results in highly accurate measurements in demanding image processing tasks. The new generation of cameras offers all the functions for which Baumer cameras are well-known, such as gain, offset and exposure time settings, as well as binning and true partial scan (ROI) readout modes for enhanced sensitivity or increasing frame rate. Exact synchronization with the process is given via the industrial compliant trigger and flash interface on the camera housing itself, which is designed to meet the requirements of industrial automation and can easily be extended to accommodate additional digital I/O or other interfaces. The image data buffer has been upgraded to 32 MB and ensures that all image data is transmitted securely, reliably and at high speeds, even in multi-camera applications. At the same time, custom designed “smart features” can be implemented in the camera. The robust housing design, which is fully suitable for industrial environments, with dimensions of a mere 36 mm by 36 mm, with a depth of 48 mm, means that this camera is the smallest in its performance class and can be integrated in the narrowest of fitting areas.

For easy integration, configuration and operation of the new cameras, Baumer is providing a completely new and highly flexible generic software interface (B-GAPI). In addition to FireWire, the software interface also supports Gigabit Ethernet and is already designed for future 64 bit PC architectures and modern platforms such as .NET.

The Software Development Kit (SDK) provides extensive, powerful functions for optimum and rapid integration of the camera in existing application software under Windows and Linux.

With this new range of the TX series, the Baumer product portfolio has now grown to 88 models. This puts an overall product spectrum from VGA up to 8 million pixels at the disposal of the user. Baumer offers digital cameras, which supports, in addition to FireWire and Gigabit Ethernet, also the high-speed BaumerLink Interface. With this wide product portfolio a solution exists for nearly any image processing task, which is not just perfect from a technological and qualitative point of view, but is also economic and cost-effective, giving outstanding flexibility of applications, as well as proving a reliable investment for the future. This new generation of cameras represents a seamless extension of the Baumer camera portfolio that has proven itself tens of thousands of times in industrial applications.