

Case Study

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MotionBLITZ Cube Series: Models for Every Application Recording drop tests for optimised tool and device product quality

In construction, logistics and production industries, as well as in a range of other sectors, people need professional tools and devices that can withstand high stress levels and cope with demanding environments. These demands also include the kind of improper handling that may occur when there is great time pressure and stress. It is also reasonable to expect that an object that impacts from a fall height of 10 metres should still be functional. For users and buyers, the robustness of a tool is a decisive criterion when selecting the right supplier.

Tools should still be able to function precisely, even after dropping from a fall height of 10 metres.

In order to meet these high demands regarding durability and stress, the manufacturers' development laboratories conduct drop tests to ensure the robustness of their devices. The tests answer important questions such as:



- From what fall height will the device housing crack?
- How or where does the housing break?
- From what fall height does the device no longer function?
- Could the housing become so damaged that it may possibly represent an injury risk?
- Is the technology within the housing still 100% functional?

The question of the fall height may appear easy to answer at first glance. However, when looked at in detail, it may only be answered using technical aids. For example, with the naked eye alone it is not possible to determine how the various forces work during an impact, how the housing is deformed and how it breaks. These insights are, however, essential in order to consistently and systematically improve the quality and stability of products in the development and production processes.

MIKROTRON GmbH in

Unterschleißheim near Munich develops, produces, and markets digital high-speed cameras, image processing components, and high-speed recording systems for industry, research, and development worldwide. As a specialized activity for industrial image processing, Mikrotron also markets industrial cameras of leading manufacturers, as well as image processing software.

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High-speed cameras help to improve product quality

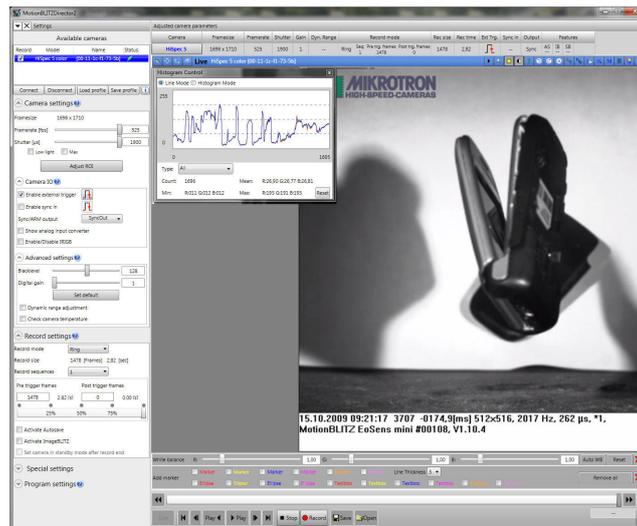


MotionBLITZ EoSens® Cube

High-speed cameras can capture the decisive moment of impact in slow motion, thus facilitating a comprehensive analysis of the process. At reduced resolution, recording rates can be increased to up to 200,000 frames per second. These extremely high frame rates are necessary to, for example, capture and better understand the precise moment when a fracture appears at a known weak point. The information these images provide can be further enhanced using image processing software. The process generates precise recommendations and suggestions for improvement for the development and production process.

All-in-one cameras with built-in memory allow maximum ease of use

High-speed cameras with built-in memory are particularly convenient to use. This allows events from between 2 and 13 seconds in length to be recorded at full speed. The camera can be easily steered via any standard PC or laptop, or even by a high-configuration tablet. The recordings can be saved in a variety of file formats depending on the requirements. This allows you to reliably document the whole event.



With its compact housing and individual add-on options, the MotionBLITZ Cube Series provides a wealth of solutions

The MotionBLITZ Cube Series 4, 6 and 7 offer a full range of functions in a compact housing and numerous individual add-ons. The camera can be battery powered for up to one hour. This makes the camera flexible, mobile and easy to integrate into any environment. The MotionBLITZ Cube Series sets itself apart through its multifaceted range of models for use in diverse applications.

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