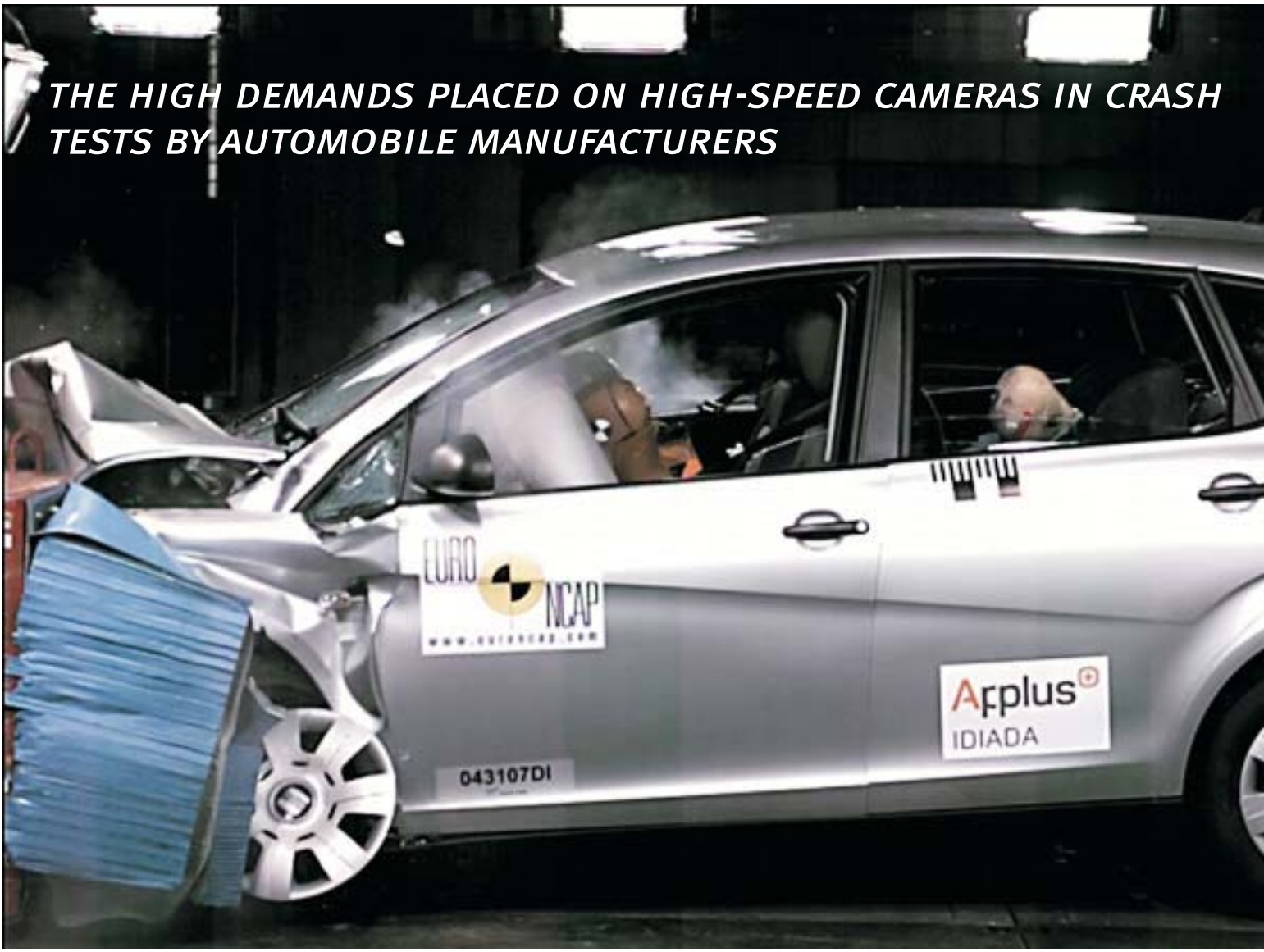
SPEEDCAM newsletter

CRASH TEST SPECIAL ++ CRASH TEST SPECIAL ++ CRASH TEST SPECIAL



THE HIGH DEMANDS PLACED ON HIGH-SPEED CAMERAS IN CRASH TESTS BY AUTOMOBILE MANUFACTURERS

The high demands of the automobile industry are constantly being incorporated in the development process of Weinberger high-speed cameras. With this special edition, Weinberger would like to inform you about the features and options resulting from these demands.

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Memory loss.....eliminated!

The high demands placed on high-speed cameras in the crash tests by automobile manufacturers

The financial expense as well as the time spent carrying out crash tests is immense. Thus, guaranteeing data integrity is of utmost importance. Many camera manufacturers store the internal camera memory using a backup battery to secure image data in the event of power loss (after completing the test).

But what happens when a power outage occurs immediately before or during the test?

In general, the footage that has already been recorded is lost, or the recording fails altogether due to a lack of power. This is not the case with the Visario g2 and MiniVis cameras from Weinberger. Thanks to the battery pack (Visario g2 option) the cameras work autonomously or, in other words, independently of the power supply. Up to two battery packs can be mounted on the camera. Each battery pack guarantees up to 45 minutes of battery life depending on the mode. In any case, the footage is captured, and the image data remains stored in the memory of the camera.

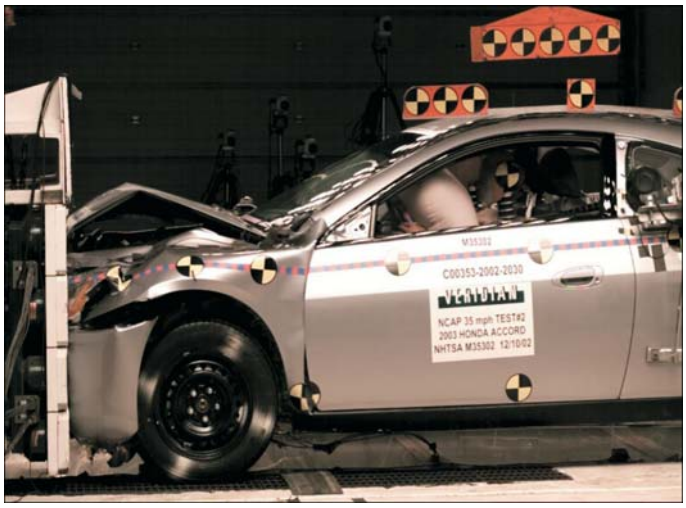
Flash memory or hard disk

The options integrated flash memory and hard disk (Visario g2 only) allow for an "absolute" backup of image data. Simply set the "Auto download" option in the software and the image data are saved on the corresponding storage media immediately after the test has been completed.

It is imperative that crash test footage be recorded. For this reason the automotive industry places its trust only in dependable equipment.

An important requirement of the german automobile manufacturers is thus satisfied. Other requirements for high-speed cameras in crash tests that have been implemented in the Visario g2:

- *Variable connector panel*
- *Differential inputs for critical control signals*
- *LED-Display for all important camera statuses*
- *Fiber-Optic input for 10/100/1000Base T - Ethernet Network*



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When we do things, we do it right!

Available options for trouble-free network operation of Visario g2 and MiniVis cameras

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The clean and stable networking of high-speed cameras in the onboard field takes particular significance. Only when all signals important for the recording up to the end of the crash test make their way to the camera can the recording be carried out successfully.

CRASH UNIT

Up to five Visario g2 or MiniVis cameras can be operated in parallel on the **Crash Unit.** Thanks to the robust construction, the unit offers mechanical stability of up to 100g/20 ms in the popular KT housing format. The unit is also available in an "off-board" version.

Along with the power supply, sync and/or trigger signals can be supplied. These are amplified and sent on to the connected cameras. In addition, internal sync signals can be generated in a range between 250 to 4000 fps via an internal generator or can alternatively be routed from external sync transmitters to the connected components. The Crash Unit can be attached in test installation via a "Crash Link" connection to the Kayser Threde standard. The all-armed status of the connected components can be queried using this connections.

CRASH SWITCH

Up to six components can be connected through the **Crash Switch** to a 10/100/1000 Base T - Ethernet network. Thanks to the robust construction, the unit offers mechanical stability of up to 100g/20 ms in the popular KT housing format.

The Crash Switch offers an internal buffer of 1 MB for buffering the data packets. It also affers advanced address management using a MAC address database with automatic recognition. The adaption to the respective connection type is performed automatically by the Crash Switch. Configuration using an external host computer is not necessary.

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Always the right connection!

**You alone decide which connector panel is right for your particular application.
The Visario g2 offers two different connection configurations:**

MIL BACKPLANE

For applications under the most extreme conditions the signals are transmitted through a very robust 8 or 32 pin connector. A special end panel with these plug connectors was designed for these special applications.

PUSH-PULL BACKPLANE

Development of a push-pull connector panel designed according to the requirements of the german automobile industry for the standardization of interfaces for high-speed cameras. The providing of differential inputs for all critical control signals is particularly noteworthy.

Other options for the Visario g2 high-speed camera

Video Output: A video output port allows for live as well as channel signal (sequences already stored in the memory) viewing via a standard video monitor in PAL or NTSC.

FO input 10/100/1000 Base T - Ethernet: The use of optical components is particularly recommended for long transmission distances or powerful electromagnetic fields.

IRIG B Time Code: The IRIG B Time Code is an international time code standard that is mostly used for military purposes.

Weinberger AG
Lerzenstrasse 8
CH-8953 Dietikon
Schweiz
Tel. +41 (0)44 744 79 79
Fax +41 (0)44 744 79 89
sales@weinbergervision.com
www.weinbergervision.com

Weinberger Vision Technology Corp.
3210 Tri-Park Dr.
Building #100, Suite 101
Grand Blanc, MI 48439, USA
Tel. +1 810 694 2793
Fax +1 810 694 2795
info@weinbergerusa.com
www.weinbergerusa.com

Weinberger Deutschland GmbH
Am Weichselgarten 3
91058 Erlangen
Deutschland
Tel. +49 (0)9131 972 078 - 0
Fax +49 (0)9131 972 078 - 10
sales@weinbergervision.com
www.weinbergervision.com

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