

## Press Release

# Comprehensive and High-Performance Testing of Industrial Cameras and Display Systems

Video Dragon 6222 combines a frame grabber and frame generator in a single device

GÖPEL electronic offers a modular setup using the [Video Dragon 6222](#) for the verification of high-resolution industrial cameras, display systems, and imaging units. As a high-performance solution, this setup is suitable for all camera and display applications where the highest standards of image quality, reliability, and reproducibility are required. The setup combines a frame grabber and frame generator into a single system, enabling the capture, analysis, and output of video data in a seamless workflow—from development through validation to production.



With increasing resolutions, frame rates, and heterogeneous interfaces, the complexity of testing camera and imaging systems is growing. Video Dragon 6222 addresses this challenge head-on and impresses with a modular hardware design, flexible sideband communication, and intuitive application software. The use of project-specific interface units, such as pin adapters, enables flexible implementation and a precise connection to the respective applications. Developers, test

### Press Contact:

GÖPEL electronic GmbH  
Stefan Böttinger  
Göschwitzer Straße 58/60  
07745 Jena

Tel.: +49 (0)3641-6896-741  
Fax: +49 (0)3641-6896-944  
E-Mail: [presse@goepel.com](mailto:presse@goepel.com)  
Internet: [www.goepel.com](http://www.goepel.com)

engineers, and production managers thus gain a powerful solution for reliably testing stability during continuous operation, interface compatibility, and timing.

Video Dragon 6222 combines a frame grabber and frame generator in a single device. This allows incoming video streams from high-resolution cameras to be recorded, visualized, and analyzed. It also enables the output of test patterns and videos with freely configurable resolution, color formats, and frame rates. As a “man-in-the-middle,” Video Dragon can integrate into existing systems without affecting their behavior. This flexibility enables rapid debugging of prototypes, objective verification of production products, and long-term and stress testing under realistic conditions. The modular architecture reduces integration effort and ensures investment security, as new interfaces can be added as needed.

The included Dragon Suite software offers a clear, intuitive user interface that provides access to all hardware functions—without any programming effort. The cross-hardware interface G-API is available for integration into custom applications. It maps all hardware functions and enables rapid automation, e.g., in validation environments, production test benches, or HIL systems.

The [Video Dragon 6222 product family](#) includes three models that cover all use cases:

- G CAR 6222 (standalone device): Ideal for lab, mobile testing, and flexible setups
- G PCIe 6222 (PCI Express card): Directly in the test PC, high data density, and automation
- G PXIe 6222 (PXI-Express module): Optimized for modular test systems and fully automated production lines

These variants enable end-to-end deployment—from the developer’s workstation through validation test benches to production testing.

[LVDS | Automotive Test - GÖPEL electronic](#)

### **About GÖPEL electronic**

GÖPEL electronic develops and manufactures innovative electrical and optical test, measurement,

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Fax: +49 (0)3641-6896-944  
E-Mail: [presse@goepel.com](mailto:presse@goepel.com)  
Internet: [www.goepel.com](http://www.goepel.com)

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and inspection equipment for electronic components and printed circuit board assemblies as well as industrial and automotive electronics systems. GÖPEL electronic has four business units:

- Automotive Test Solutions
- Embedded JTAG Solutions
- Inspection Solutions AOI-AXI-SPI-IVS
- Industrial Function Test

The company is active worldwide, with its own subsidiaries as well as through distributors, and generated sales of approximately 40 million euros in 2023 with 240 employees.

Further information: [www.goepel.com/en](http://www.goepel.com/en)

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