



# High-Speed Video Applications

## Computer Peripherals

- **Equipment Design and Development**

By allowing engineers to record and measure events that the eye cannot see, high-speed video can significantly shorten the development cycle for new products. Design engineers can record a high-speed operation, make adjustments, re-record the event and immediately analyze the cause and effect relationships. The ability to analyze and correct problems as they occur means that you can get new equipment to market sooner, giving you a potential competitive edge.

Typical development applications within the computer peripherals industry include:

- ◇ Head flying characteristics
- ◇ Crash stop analysis
- ◇ Material analysis
- ◇ Disk arm flutter and vibration
- ◇ Head loading and unloading
- ◇ Belt and pulley analysis
- ◇ Printer mechanisms

- **Manufacturing**

Manufacturing output can often be increased by allowing production engineers to clearly see and understand complex electro-mechanical interrelationships as machine speeds are increased. An increase in productivity not only lowers unit costs but may also help eliminate or defer the need to purchase new equipment. Common manufacturing applications include:

- ◇ Wire-wrap operations
- ◇ Automated PCB assembly
- ◇ Head and disk burnishing
- ◇ Machine tool feed optimization
- ◇ Automated transfer operations

- **Product Testing**

High-speed video is widely used for product testing at both the component and assembly level. Impact, vibration, stress, penetration and air flow testing are just a few typical examples. Potentially costly design or manufacturing flaws can be corrected before the product gets to your customers, while thorough packaging testing can help keep shipping damage and expensive warranty adjustments to a minimum.