Application

Turnkey multi-camera system for automotive safety testing

Subject
The purpose of this project is to provide users an economical, comfortable setup for a camera system for sled test applications. All operation can be executed from the central control room.

Solution
AOS Technologies is well known to provide engineering for complete turn-key projects to keep integration and installation time to a minimum.

System setup in an automotive sled test center

Customer benefits
• Fail safe system with battery backed up image memory in camera assures data safety
• Reduced time and costs per test due to central control of cameras and data acquisition
• System layout with focus on economical operation
• Simplified maintenance by use of standard components
• AOS delivers turn-key system that clearly meets customer targets and expectations
Scope of supply
- 4 units of S-VIT LS high speed cameras
- 4 lenses with crash cages
- 1 Hi-G camera hub (for 4 cameras)
- 1 On-board battery
- all cables

Competitive advantage:
A camera system consists of up to 4 high speed cameras and a Hi-G hub. If more than 4 cameras are necessary, a second Hi-G hub can be used. The cameras and the hub are powered by the sled's on-board DC power system, alternatively a dedicated Hi-G battery can be used. Only 2 cables run between each camera and the Hi-G hub which makes installation and setup a cinch. All cameras feature a built-in battery for autonomous operation and to safeguard the image data after the test has been completed to avoid loss of image data due to power failure. Cameras can be switched-on from the control room via the “Remote-Switch-On” signal. To ensure that all high speed cameras are ready, every unit is feeding back “Armed” and “Triggered”. To start recording, 2 signals “Set-To-Record” and “Trigger” are available. The image data is transferred by Gigabit Ethernet. All cameras run in frame synchronisation mode.

Customers:
- car manufacturers
- test centers for automotive safety