



Prosilica Cameras Capture the Thrill of Roller Coaster Rides

3db Solutions Inc.

Based in Montréal, Québec, 3db Solution Inc. designs and sells customized photography systems including green screen photo systems, wireless roving photo systems and ride photo systems, to amusement parks, malls and tourist attractions in North America and Europe. Since the creation of the initial product, the team at 3db Solution has experimented with various technologies such as video and FireWire cameras before turning to Prosilica and its GigE Vision compliant digital cameras in 2008.

The Challenge: Fast Roller Coasters Require Fast Camera

3db Solution has recently equipped three roller coaster rides with products featuring Prosilica cameras at this summer's Playland in Vancouver, BC, Canada. 3db Solution systems use two different Prosilica cameras: the ultra-compact **GC1600C**, and the high performance **GE1650C** for rides which require faster frame rates due to higher train speed. Both models are 2 megapixel CCD cameras that provide excellent image quality and run 15 frames per second at full resolution for the GC1600C, and 30 frames per second for the GE1650C. These two cameras were chosen for their small size, fast frame rates, image quality, ease of use and installation, reliability and fast image transfer via their Gigabit Ethernet interface.



The Solution: GigE Vision Camera from Prosilica



The Prosilica camera is set inside a housing with a flash lamp and links to a control box and sensor which trigger the camera as soon as the vehicle appears in the designated field of view. The system is fixed onto a mast overlooking the bottom of the main ride drop for maximum photographic impact. The image data is instantly transferred via fiber optics cable to action photo servers located inside sales point kiosks 175m away for immediate display and processing.

The Prosilica camera is configured to image at 8 photos per half-second and up to 5,000 images can be captured in one single day. During day-time, the camera is set to auto-exposure to adapt automatically to all lighting situations, while at night time shutter speed is set to 1/1,000s. Due to the travelling speed of the train (65-90 km/h), the flash is used at all times to ensure sharp image quality.



Prosilica, Pioneer in GigE Vision Cameras

PROSILICA



Founded in 2003, Prosilica of Burnaby, BC (Canada) is a pioneer of the introduction of digital cameras with Gigabit Ethernet interface in the machine vision market. Prosilica designs and manufactures high-performance GigE Vision digital cameras for a wide variety of applications and is a 100% subsidiary of Allied Vision Technologies since 2008.

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