BASLER VISION TECHNOLOGIES

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Basler Cameras Provide Jack Nicklaus Golf Academies With Superior Images

Customer

- Nicklaus Academies (Jack Nicklaus Academy of Golf), founded 1996, 20+ locations in six countries
- Golf Industry
- Year of Project Realization: 2008

Application

Video analysis is a big part of golf instruction. This technique has been evolving over the years as the naked eye cannot dissect what the human body is doing through the golf swing, not to mention what the club head is doing at 100+ mph. The use of high-speed video is essential for the finest instruction. Nicklaus Academies relies on Basler cameras to provide their customers with the best of the best.

Each Jack Nicklaus Coaching Studio contains a minimum of three Basler cameras, and as many as seven, depending on the application and the number of views desired. Up to four cameras collect images in the Full-Swing Instruction Bay while two to three cameras are deployed in the Putting Lab. A custom software program was created specifically to handle the number of frames-per-second and the size of the video files. The system is deployed around the world in over 22 academies with an annual growth of four to seven additional locations scheduled for future years.

Solution and Benefits

Nicklaus Academies uses different Basler models based on the needs of the instruction, the length of cable runs required, and the budget for the facility. Basler A311 cameras are used in the Putting Labs where high-shutter speeds are not critical due to the slow speed of the putting stroke. For the full-swing analysis, Nicklaus Academies utilizes the Basler pilot piA640-210gc so they can stop down the action frame by frame to analyze how the clubhead works through the ball at impact. Main advantages Basler cameras provide here are the shutter speed and an appropriate cable length.

Nicklaus has developed an automated lighting system that allows them to capture this high-speed action with an adequate light source which shuts down the software at impact of the club head with the golf ball.

Technologies Used

- Basler A311fc cameras in the Putting Labs, Basler pilot piA640-210gc cameras for full-swing analysis
- Pentax or Tamron wide angle lenses are used for maximum field of vision requirements
- System/Solution: Jack Nicklaus Coaching Studio capture and analysis software; 1024 point pressure mat sensing devise; automated lighting system; integrated ball flight monitors; audio trigger; multiple viewing screens (floor/student monitors, wall mounts, PC monitor)
- Software: proprietary Nicklaus Academies Video Analysis Software

More Information

www.nicklausacademies.com

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