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Imaging Engineering Redesigns Better and Safer Fluoroscopic Systems with Basler ace Cameras

Customer

- Imaging Engineering, LLC
- Location: Cape Coral, Florida, USA
- Industry: Medical X-Ray
- Implementation: 2019

Application

Every hospital along with many imaging clinics utilize fluoroscopic images for studies of joint issues and digestive or swallowing disorders. These real time fluoroscopic systems are highly specialized and expensive systems. The majority of the systems in the U.S. and many globally utilize camera tube or CCD technology to produce the live fluoroscopic image. These systems perform well, however, the critical components of the camera system and imaging computer are no longer manufactured. The replacement cost of the systems is between $400,000.00 to $600,000.00 which is difficult to justify for an exam with a $250.00 Medicare or insurance reimbursement. This is where Imaging Engineering, LLC comes in:

The Florida-based company specializes in design and development of medical fluoroscopic imaging systems.

Solution and Benefits

Leveraging the high quantum efficiency of the Basler acA 1920-40gm camera and the ability to control the camera timing, Imaging Engineering, LLC was able to develop unique image acquisition modes which allows for patient and staff radiation dose reductions of up to 70% while preserving the image quality needed by the radiologist. This enables the older equipment to perform better at a remarkable savings to the healthcare provider.

Imaging Engineering, LLC received FDA clearance for the Insight Essentials DRF imaging upgrade solution in June of 2019 and with the product commercially available in December 2019. Insight Essentials was displayed at the RSNA 2019 and received very high praise from a number of distributors and customers.

Imaging Engineering, LLC evaluated several dedicated x-ray imaging cameras and found the Basler camera to be a much better fit for the fluoroscopic imaging. The design and performance combined with Basler support and supply chain management made Basler the correct choice for the solution.

Technologies Used

- Camera: Basler ace U (acA1920-40gm)

More Information

www.imagingengineeringllc.com

Fig. 1: Fluoroscopic system  Fig. 2: Image of Upper GI Exam