6 Steps to Implementing a Successful Vision Inspection

1) **Identify Needs**—It is crucial for a successful vision inspection system that the inspection criteria be defined up front. Don’t forget, not everyone is intimately familiar with your process and product. Many things you may take for granted are not immediately evident to everyone else.

2) **Identify Resources**—Identify in-house resources along with capabilities and expectations for the long term success of your application. Especially true for the first system, you very likely will find it more cost effective to utilize an engineering source to get you going on the first system. Even if you don’t want to become an “expert” in vision applications it will be very beneficial to have an in-house resource identified as a first level response when questions arise during daily operations.

3) **Product testing**—Testing of samples or even better on-line testing will provide a much better opportunity to test the vision system on your application. During testing it is important that a broad array of defects be presented to the vision system. Vision systems are taught to respond to specific characteristics. If you are able to present every possible variation of defect during the testing you will likely have a very functional and robust inspection system from day one.

4) **Detailed system Design**—Utilizing the data collected during the testing phase we can provide a detailed system design. This design will include selection of the appropriate vision system including lighting, operator interface needs, optics and any associated brackets and process integration.

5) **Implementation planning**—A correctly planned installation and startup that includes training for operation and maintenance will complete the successful implementation of your inspection system.

6) **Acceptance testing**— This is where the ability of the system to meet the needs identified in step 1 are validated.

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