

# Vision system selection review guide

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An original example guide for the fictional brand LUMEN / VISION. It is not an operating manual, certification document, or performance guarantee. Actual configurations require sample reviews and site testing.

## 1. Define the inspection task

Describe the subject, the feature to distinguish, and the acceptance rules in plain language. Prepare representative accepted and rejected samples. Record variations in dimensions, surface reflections, and colour. Separate target throughput from the actual motion of the object.

## 2. Review optics, lighting, and cameras together

Record field of view, working distance, installation height, and object movement. Ambient light and surface reflections may affect images, so observe samples repeatedly in the same and different positions. Plan tests that change one optical or lighting variable at a time.

## 3. Interfaces and operating conditions

Define trigger inputs, lighting control, result outputs, and file transfer paths separately. Check the actual documentation of connected equipment and record approved communication methods and responsible people. Do not connect to production equipment or alter control signals without the required project review.

## 4. Example review record

Subject: unbranded electronic assembly concept / Feature: component presence / View: overhead / Variables: position, reflections, ambient light / Samples: distinguish accepted and rejected examples / Evaluation: compare repeated observations with manual criteria. These are illustrative planning fields, not numerical specifications or decision thresholds.

## 5. Decide the next step

Compare images under different conditions and record the causes of incorrect decisions. Check whether the samples represent the intended operating range, then choose further testing, configuration changes, or site review. Performance figures must be interpreted alongside test conditions, sample composition, and evaluation methods.