

General information

Project name
Name of company
contact name for project
Scheduled begin of installation
Scheduled completion
Existing resources (mechanical , PLC, machine vision)

Description of machine vision application

Part presence
Positioning application
Template matching
Robotic solution
Measurement application
Print inspection
OCR/ OCV

Barcode reading 1D/ 2D Color inspection Bead inspection Triangulation / 3D application Other

Features tob e tested

Number	of	different	ins	pection	ob	iects:

Inspected features/ defects:



Description of inspected part

Shape, dimensions (from ...to)

Material

metallic transparent plastic opaque

wood/ paper non-transparent ceramic composite material

Surface/ form

smooth painted glossy oiled, greased

polished printed refinded rough plain structured bumpy

matt arched reflekcive cylindrical oxidized surface spherical

Color

Bright Dark

Monochrome Multicoloured

Monochrome part in different types

Known process variations:

Additional details:

Accuracy



Feeding tolerances

In the direction of transport:
Traverse to direction of transport:
Height differerences feeding:
Twisted / tilted:

Samples

Available? Pre-series slightly different? Parts only surveyable and testable at customer? Confidentiality agreement needed?

Optics

Size field of view:

Accuracy

Possible working distance (Min/ Max)

Special features (eg macro, telecentric, etc.)

Other

Filter

Optics feasibility study required?

Illumination

Ambient light

Background, object (for example color, material)

Object (eg color, structure, surface, variations, reflections...)

Installation options (dimension, position)

Other

Feasibility study required?

Installation and system environment

Pollution (dust, dirt, oil, mist, steam)

Temperatures

Humidity

Electrostatic spikes

Vibrations

Electromagnetic radiation



Interfaces, PLC, communication

Signals tot he image processing system
Output signals oft he image processing system
I/O signals
Serial interface
Ethernet interface & others:
Data logging
Image recording/ logging

Hardware requirements

Space for camera with lens and light

Sketch with dimensions

Placing hadware components (pc system, I/O breakout boards, controllers)

Cable lengths

Cable types (chain track, robot cabel, silicone- free, halogene-free etc.)

Mechanical attachment

Protection enclosures

Additional electrical cabinet

Required additional services

Test setup documentation Installation advice Start-up support Application programming