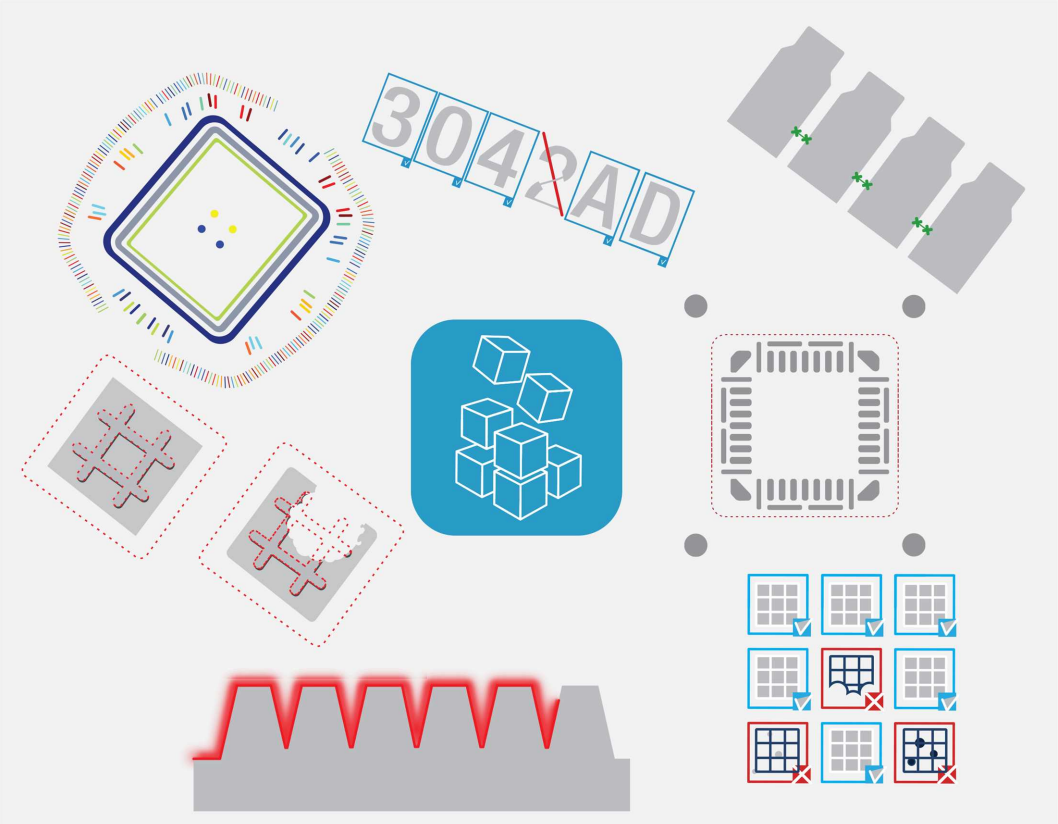
euresys
Empowering Computer Vision

2D APPLICATION EXAMPLE

Open eVision

Inspecting Pads Using Regions



This documentation is provided with **Open eVision 24.02.0** (doc build **1198**).
www.euresys.com

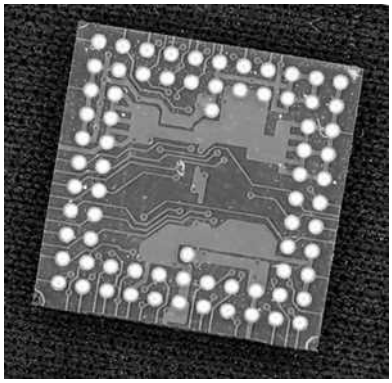
1. Inspecting Pads Using Regions

See also: Arbitrary-Shaped ROI (ERegion) / code snippets: ERegion

The code of this application is available in the `GGeRegion` sample installed with **Open eVision**.

Application objective

This application demonstrates how to use regions to inspect the pads on the underside of a non-aligned electronic chip package.

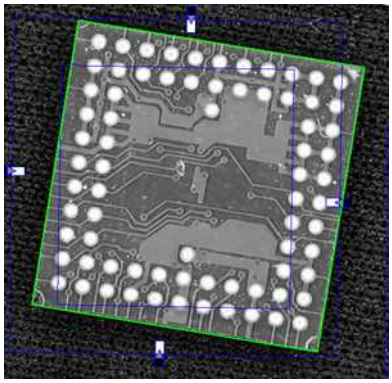


NOTE
To run this program, you need the EasyObject and EasyGauge licenses.

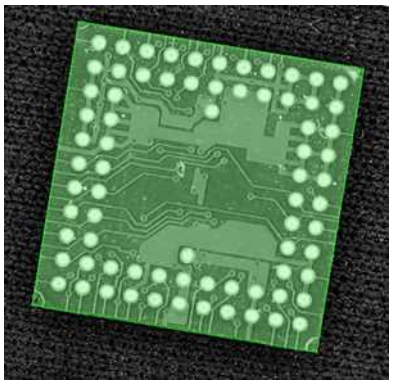
Processing

To do this, we will use EasyGauge to detect the position of the package, then perform an EasyObject segmentation on the detected position:

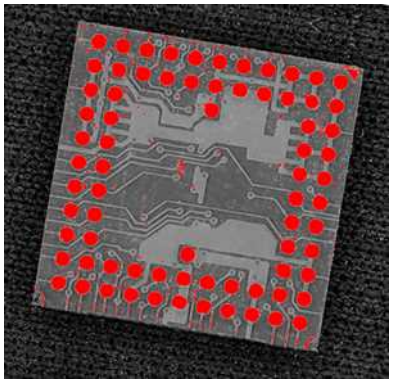
1. Use `ERectangleGauge` from the **EasyGauge** library to detect the package and its position.



2. Use the `ERectangleRegion::ERectangleRegion(ERectangle&)` constructor with the `ERectangle` returned by `ERectangleGauge` to create an `ERegion`.



3. Use the `EImageEncoder::Encode(EImage&, ERegion&, ECodedImage&)` method from the **EasyObject** library to perform the blob detection within the region.



4. Filter the blobs using `EObjectSelection`.
5. Perform any required measurement and check.