

360LIB Suite

Software library and stand-alone tools for the optimization of 360° optics setups

PRELIMINARY



KEY ADVANTAGES

State-of-the-art algorithms for unwrapping and correction of decentering.

Ensure the best image for OCR/OCV/barcode reading with pericentric optics.

Maximize the system performances to achieve the best results with 360° optics.

FULL RANGE OF COMPATIBLE CAMERAS



Area scan cameras

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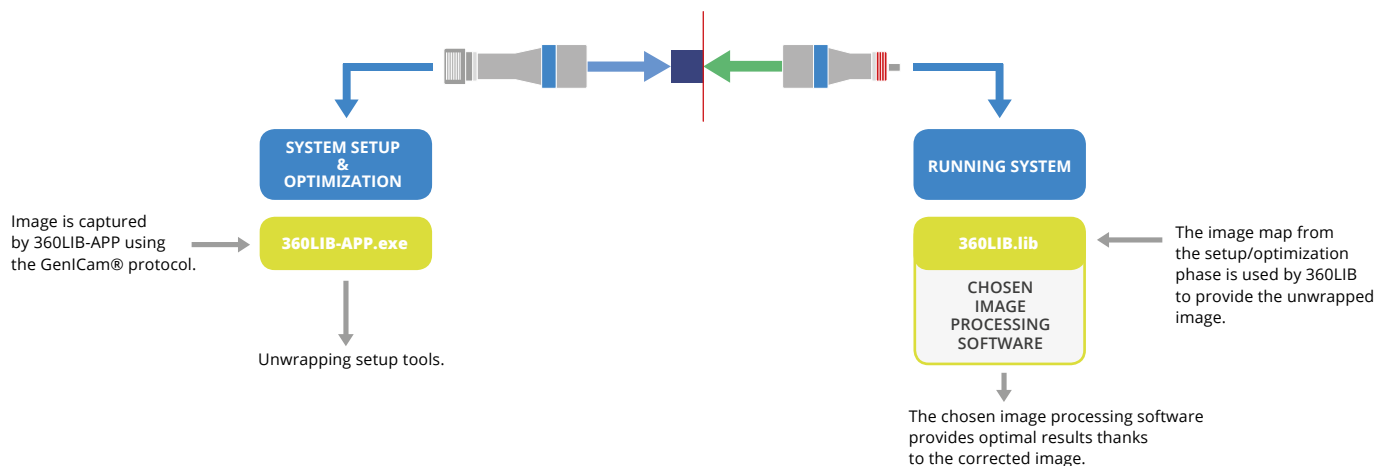
360LIB Suite is a C++ based computer vision software designed to optimize the performances of a 360° optics setup, as the ones typically used for single camera, lateral inspection purposes. With the use of both a .dll library and dedicated stand-alone tools, it makes

it easy to take care of all the aspects of a typical 360° optics setup (correction of decentering and unwrapping) which, if not properly addressed, can affect negatively the results of the inspection, such as OCR/OCV/barcode reading.

360LIB Suite includes:

- A dedicated tool to create and save a correction map for objects seen from a pericentric lens (PC/PCHI/PCCD) when there is a slight decentering (360LIB-APP)
- A set of algorithms (library) to apply the correction map to live images and also unwrap them, outputting the rectified lateral view together with the original top view of the object (360LIB).

Although specific for lenses of the Pericentric family (PC, PCCD and PCHI), the library is open to customization dedicated to other lenses of the 360° optics family, to help you even more.





For more information please contact:

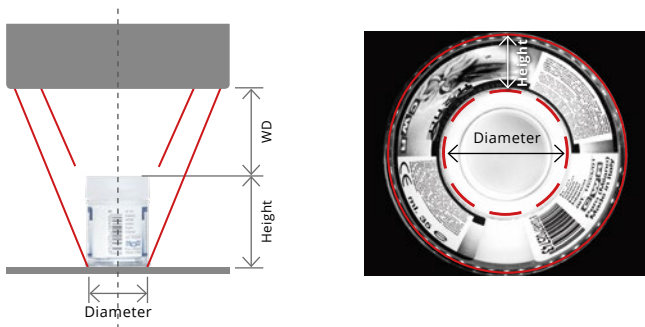


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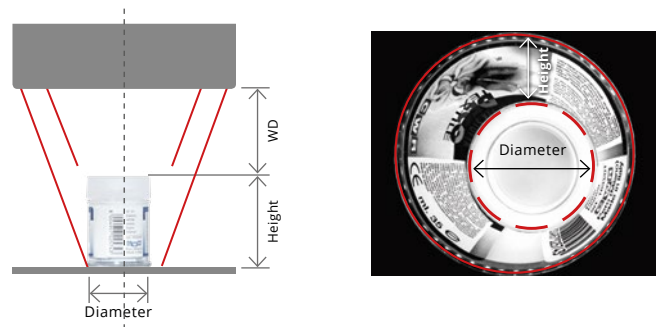
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Raw image: object is well centered under the lens.



Raw image: object is slightly decentered under the lens.



Unwrapped image: a single continuous image of the top and lateral surfaces of the object is automatically generated.



TCLIB corrects distortion and unwraps the image even when the object is slightly off-centered. The lateral and top surfaces of the objects are captured within the same image.