

mips (mevisco image processing systems) are advanced systems based on cutting-edge computer technology. They enable to create optimized systems tailored to specific tasks

User interface

The graphic user interface of the system is easy to use. Even non-specialists quickly get the hang of changing parameters for inspection jobs or adjusting settings.

User administration

Driven by practical experience, a user administration has evolved that makes it possible to allocate individual rights to each user. This way, you can selectively restrict access to the system and prevent any unauthorised changes. The mevisco exclusive mode considerably hampers unauthorised access to the Windows operating system, making illicit tampering almost impossible.

The logging

The logging provides for recording the measured values of each product, so you can apply this data to carry out extensive statistical analyses. The logged data is saved in a standard format. It's easy to work with the data using common statistics and spreadsheet programs.

Parameterising in process

The mevisco PariP function (parameterising in process) ensures your high productivity by reducing machine stoppage times. During the parameterising process, you don't have to stop the production machine and subsequently start it up again. You can use a test mode to activate and evaluate changes, then seamlessly adopt them as required – all during ongoing production.

CrossCheck

The mevisco CrossCheck function checks whether more than one project accepts a product. This function was developed in cooperation with our largest IML customer (100+ systems).

Here's how it works: one project each exists for a certain number of label types. When installing a new type, the new measurement, e. g. a pattern comparison, may be very similar to that for an existing type.

That's when CrossCheck comes in: it determines whether the new measuring job also accepts as correct an already existing label type or project. In this way, it ensures each project recognises exactly one label type and each product is checked absolutely reliably. The function doesn't just avoid errors in setting up projects, it also makes operators aware of areas in the images that may cause conflicts.

Statistics and visualisation

Each camera of the system can be allocated one or more cavities. This allocation results in protocols, statistics and image displays for each individual cavity. It is also possible to set less than full-cavity production so that cavity-related analysis is always ensured. The cavity-related analysis makes evaluation of the production process considerably easier and enables early recognition of tool problems.

Image saving and offline mode

You can use the image saving function to create image sequences from the real production process that can then be fed into the offline version. The offline version comprises the complete software (without images being taken by cameras), so you can use it to train your staff and/or to optimise settings without disrupting the production process itself. The offline version can run on a contemporary Windows computer without restrictions.

Remote maintenance

Should any technical or adjustment problems occur, mevisco can support you through our remote maintenance option. This lets us evaluate all the key parameters and we can quickly give you an accurate fault analysis and solve your problem.

Technical flexibility

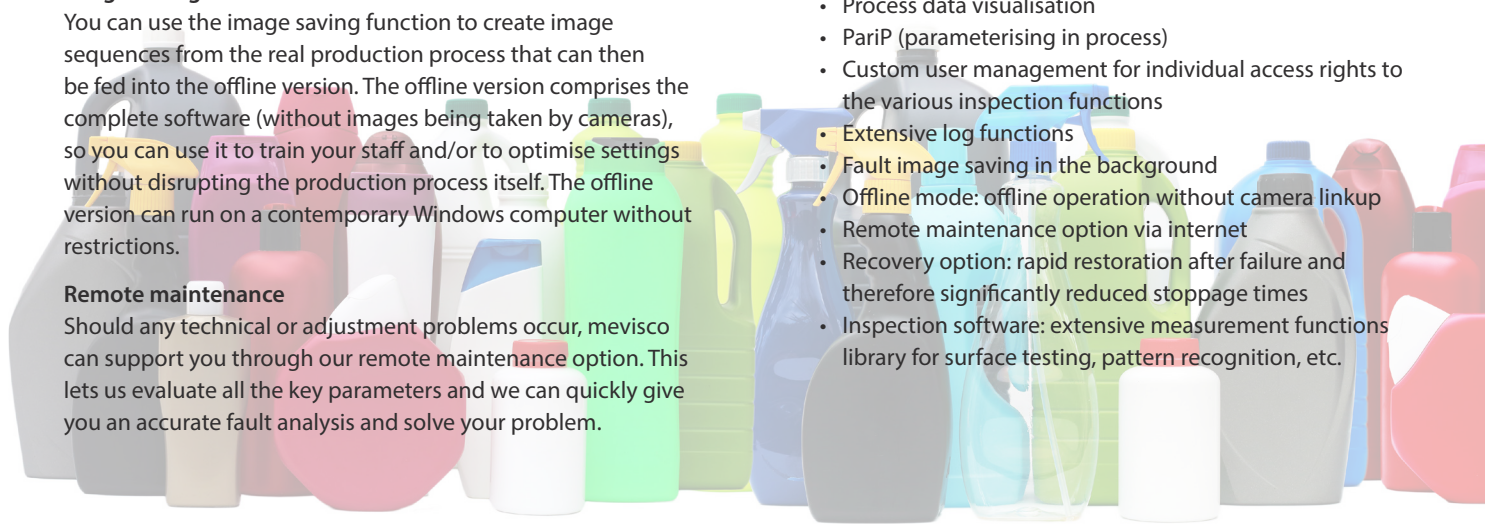
The technical solutions required are just as varied as the tasks you want to perform. That explains why flexibility is at the core of the mips system. It means you can use flashed high speed applications with area, megapixel and line cameras or simultaneous combinations of line cameras and area cameras. mips/async provides for the operation of two independent image processing systems that share a single image processing CPU, cutting your investment costs considerably.

Our customers

The high functionality of our solutions and the know-how of our employees, enabling successful projects for clients in various industries and company sizes. Some of them are listed on our website: www.mevisco.com/references.

Overview of technical data

- High resolution and high speed cameras, square and line scan
- LED high-performance flash(es)
- Up to 100 measurements per second possible
- Convenient visual operating interface
- Process data visualisation
- PariP (parameterising in process)
- Custom user management for individual access rights to the various inspection functions
- Extensive log functions
- Fault image saving in the background
- Offline mode: offline operation without camera linkup
- Remote maintenance option via internet
- Recovery option: rapid restoration after failure and therefore significantly reduced stoppage times
- Inspection software: extensive measurement functions library for surface testing, pattern recognition, etc.



List of available checking criteria and detectable defects

Checks on tubs/cups/boxes and lids

- the rim for flashes (too much material)
- the rim for shorts/notches (missing material)
- label type by
 - barcode
 - dot matrix code
 - product number
 - pattern inside the label printing
- all above checks are also available for free rotated round lids

Checking on square tubs/cups and boxes for

- label position on bottom by reference to the four sides
- x/y-label position in reference to the cup/tub outline
- split line gap and overlap

Checking on round tubs/cups and boxes for

- label position in reference to the product bottom
- relativ vertical distance of both label edges at split line
- split line gap and overlap

Checking the inner wall of tubs/cups and boxes for

- (partial) label movement to the inner wall (blow lovers)
- discoloration (batch additive checking)
- black spots (carbonisation of material)

Checking on

- square lids for x/y-label position in reference to the lid outline
- round lids for the label position in reference to the rim

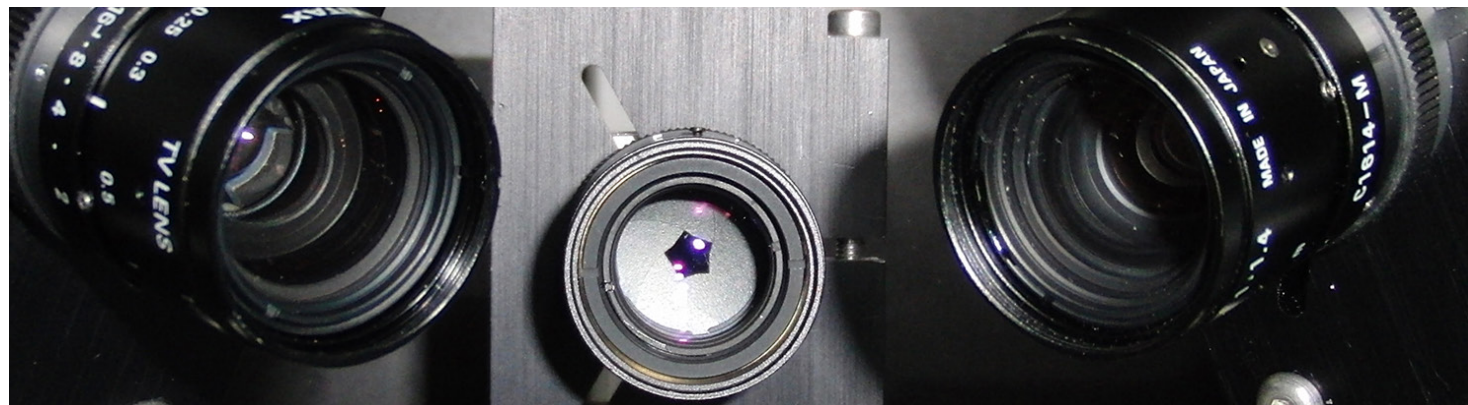
Other inspections

- wall inspection of opaque and clear objects for
 - black spots
 - bubbles
 - scratches
- label inspection for bubbles for clear and opaque labels
- checking the planarity of lids by laser triangulation

mevisco

Founded in 1996, mevisco is your partner for complex solutions in industrial image processing. We create customised image processing solutions for almost all tasks. Included here are overall inspection systems complete with handling and linkage to the automation environment. Hundreds of these systems are in successful use today.

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