Machine Vision Software

DolphinCV: No Programming Machine Vision Software

What is DolphinCV?

DolphinCV is a comprehensive machine vision software platform, with which you do not need to do code programming. It can quickly build machine vision system with visual graphical interface, based on the actual application process and simple tools combination.

DolphinCV provides OCX controls based on secondary development needs, and also can be called by VB, VC, BC, c# and other development tools to embed the vision system into your own system software, which will make the tedious algorithm and machine vision software design process easy, greatly improving the working efficiency.

Version	Image processing tools	Calibration	Vision tools	Geometric measurement	File communication	Logic Control	System tools	3D tools
Full Module Version	✓	✓	✓	✓	✓	✓	✓	×
3D Version	✓	✓	✓	✓	✓	✓	✓	✓

Modules are available for individual users' specifc needs, make the solution flexible and cost-effective.

SOFTWARE FEATURES

Easy to use
Just drag and drop the tool icons with no writing code

Efficient algorithm & complete tools
9 tool sets hundreds of tools

Rich pretreatment functions
Denoise, filtering, contrast enhancement, binarization, image equalization, fuzzy processing, brightness correction, balance processing brightness correction, median, filtering and so on

High precision image processing for wide applications
Measurement, OCR, bar code reading, color recognition and 3D measurement.
Applied to food, packaging, medicine, hardware, electronics, medical, electrical appliances, logistics and other industries

Supports Keyence,Panasonic, LMI, SmartRay, Vision Datum, and other mainstream 3D cameras
Capabilities include 3D point cloud acquisition, height measurement, 3D measurement, 3D surface stitching, volume inspection, and 2D/3D combined algorithms.

Try DolphinCV FOR FREE!

DolphinCV provides 30days free trial.

Website   YouTube   Facebook   VKontakte

MAIN ADVANTAGES

Suitable for all areas of imaging
Blob analysis, morphology, matching, measuring, and identification

Superior algorithm, Ultra high speed
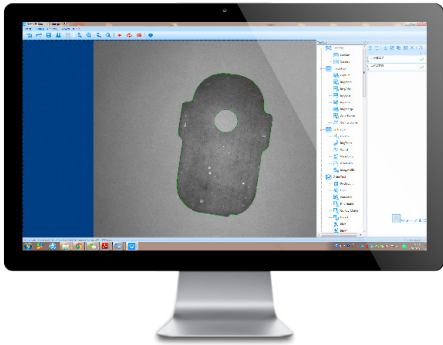Over 100 types self-created algorithms, sub-pixel image matching can up to millisecond.

Image processing tools
Save and process the images captured by cameras, with multiple image processing and preprocessing functions

Capture images	Save images	Image Arith	Color to grey	Image Filter
Image merging	Extract colors			

Calibration
Coordinate system and unit conversion tool can modify the location of the detected area, and output the corrected images by using calibration plate.

Locator	Image correct	Measure&Calibrate	Point Calibrate	Image Calibrate

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Vision tools
Coordinate system and unit conversion tool can modify the location of the detected area, and output the corrected images by using calibration plate.

Pixel count	Light	Pat match	Shape match	Image comparing
Blob analayze	Blob analayze 2	Edge	Space	Verticle
Width	Line	Circle	Caliper measuring	Edge scanning
Character set	OCR	Bar code reading	DM code reading	Color monitor
Color recognition				

Geometric measurement

Tools used to calculate the result data.

- Mark points
- Point to Point
- Point to line
- Line to line
- Line to Circle

File communication

Tools used to set up the communication port.

- Serial port
- Ethernet
- Status input
- Status
- Receive string
- Send string
- Send data
- ModenBus read
- ModenBus write
- Play voice

Logic Control

The logic function used to control the process.

- Wait
- If CMD
- Select CMD
- Cycle
- Execute
- Empty line
- Data out of line

System tools

Used to display and other functions

- Update images
- Calculate time
- User variables
- Calculate variables
- Set variables
- Record data
- Clear data
- Define an array
- Number display
- Data check
- System time
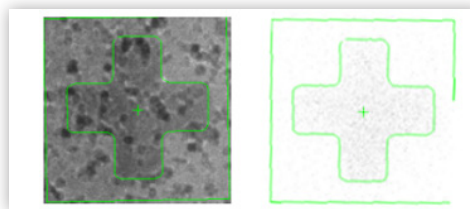- Generate string
- Decomposite string
- Compare String

Software Functions

With years efforts, DolphinCV is now suitable for a wide range of applications by simple programming. The functions of DolphinCV includes: **preprocessing, location, measurement, calibration, recognition, defects detection,** and **3D measurement.**
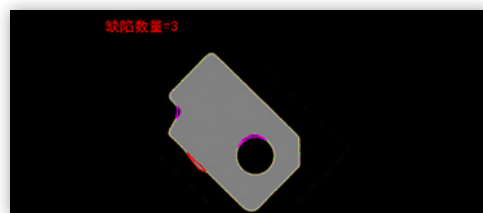
Supports mainstream 3D cameras such as Keyence, Panasonic, LMI, SmartRay, Vision Datum, and others. Capabilities include **3D point cloud acquisition, height measurement, 3D measurement, 3D surface stitching, volume inspection,** and **2D/3D combined algorithms.**

Shape matching

Automatic text reader

Defects detection

For more information please contact our sales or visit our website at http://www.visiondatum.com

May. 2024

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