

# 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' specific 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

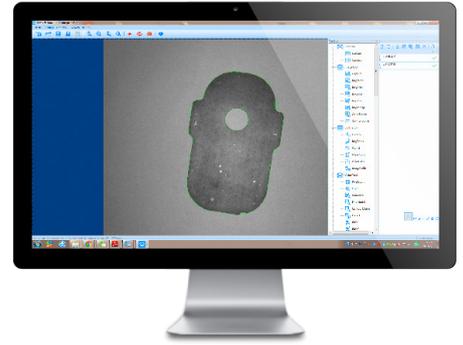
## MAIN ADVANTAGES

### 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



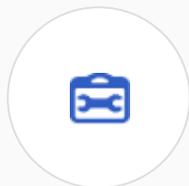
Measure&Calibrate



Point Calibrate



Image Calibrate



### 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 analyze



Blob analyze 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



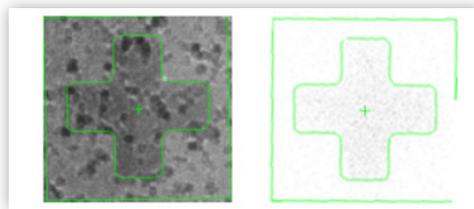
Decomposite string



Compare String

# Software Functions

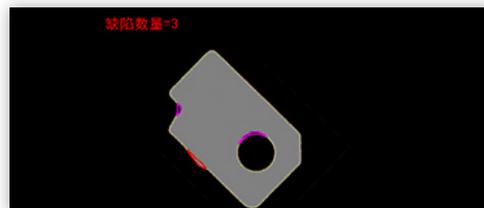
With years efforts, DolphinCV is now suitable for a wide range of applications by simple programming. The functions of DolphinCV includes: **preprocessing, location, measurement, calibration, recognition, defects detection,** and **3D measurement.**



*Shape matching*



*Automatic text reader*



*Defects detection*

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

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