

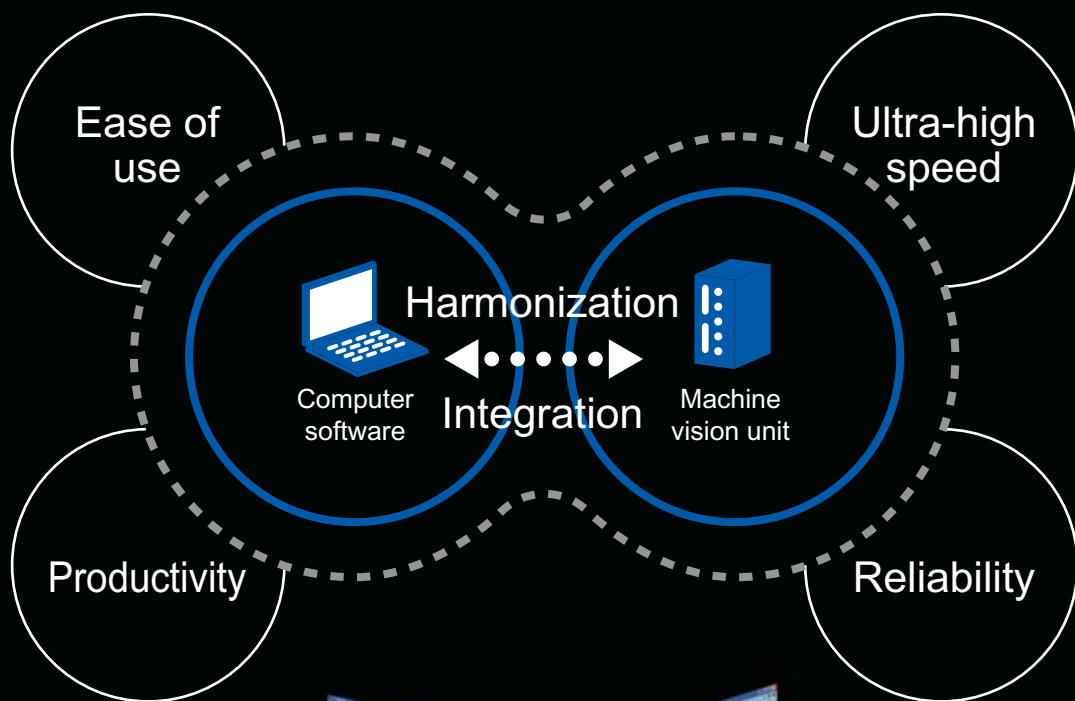
Panasonic

ideas for life

PV Series Setup Software
IMAGECHECKER[®]
PVWIN



High usability for
high productivity



Integration of hardware reliability and software operability
 PVWIN can demonstrate its overwhelming performance on personal computers.

PVWIN is PV series* IMAGECHECKER setup software designed based on the concept of usability and operability.

The combination of the high operability of PVWIN software and the high environmental resistance of PV series IMAGECHECKER units immune to freezing or crashing at production sites is now available.

You can quickly and easily set up reliable inspection systems in an off-line environment.

* See the PVWIN operation requirements.

PV Series Setup Software
 IMAGECHECKER®
PVWIN

PVWIN combines excellent performance and ease of use.

Point 1: Image loading/Viewing

Just drag the target image and drop it on the PVWIN window.

No complicated import process necessary.

► 01

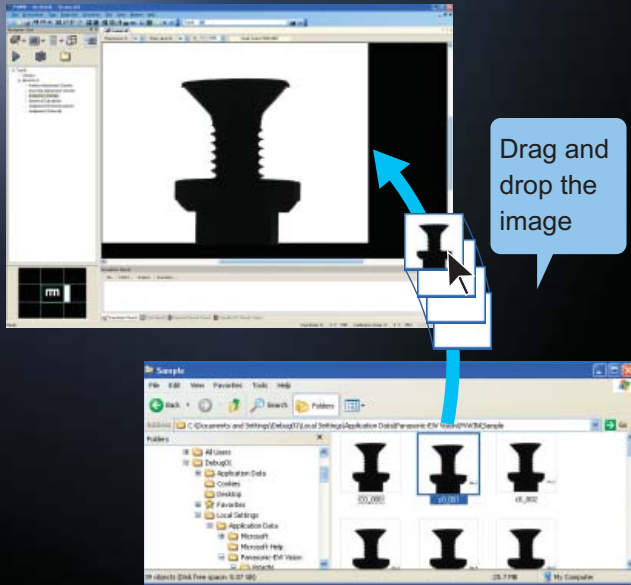
To correct prepared set data, drag the set data file from the Windows Explorer folder, drop it on the PVWIN setting tree, and the file will open. Then start the correction. You can also open the prepared set data with the Open File option in the PVWIN menu.

► 02

To easily view the image to be inspected or set up, drag the image file from the folder and drop it on the camera window. Of course, you can also view the image by going to Read Image in the navigation view and selecting from File or PV500.

► 03

To make a test using the set data, just drag the image, drop it on PVWIN, and carry out the test for verification purposes.



Point 2: Change/Zoom

PVWIN significantly reduces the number of man-hours required for inspection setting. You can easily input values, copy data, change the inspection area or settings.

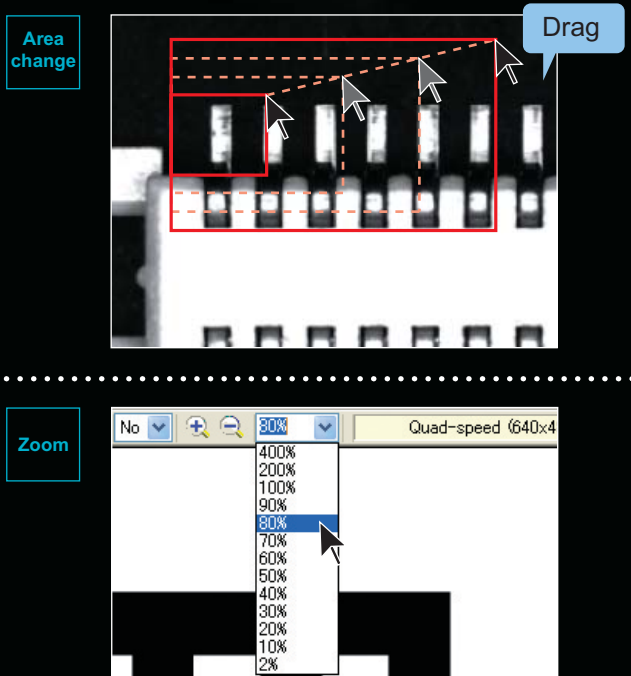
Area change Just drag the area with a mouse to change the inspection area.

You need to set the area for your checkers.

With PVWIN, you only have to drag the area by using the mouse.

Zoom Just make a click to change the zoom percentage.

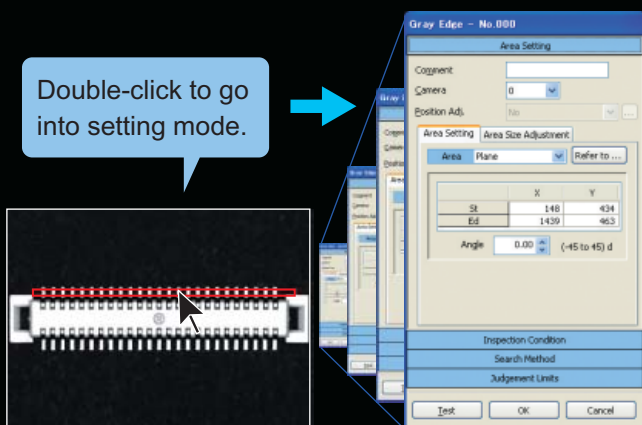
To change the zoom percentage, just click on the zoom button or choose the percentage from the pull-down menu. To change the percentage by a keyboard, open the change menu, and set it using the up and down arrow keys.



Point 3: Mode change

Just double-click the area of the inspection object to be corrected to jump to the advanced setting mode. Setting work efficiency will be improved.

Just double-click the checker to jump to the PVWIN advanced setting window.



PVWIN screens

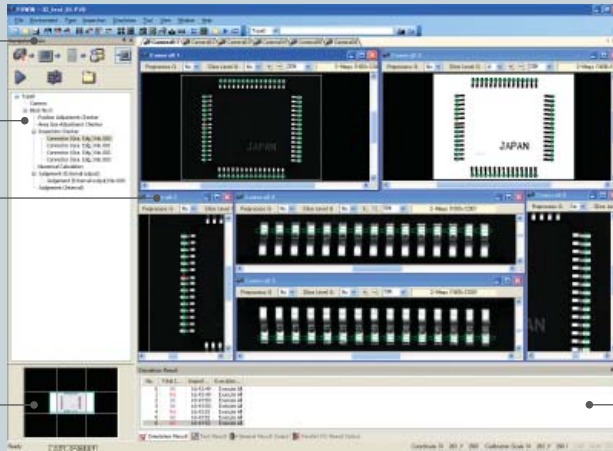
The operability-conscious layout of the screens enhances the setting work efficiency.

Setting Guide
Displays the inspection step icons.

Setting tree
Displays the setting items in a tree form.

Camera window
Displays the camera image.

Image map
Displays the thumbnail of the image in the camera window.

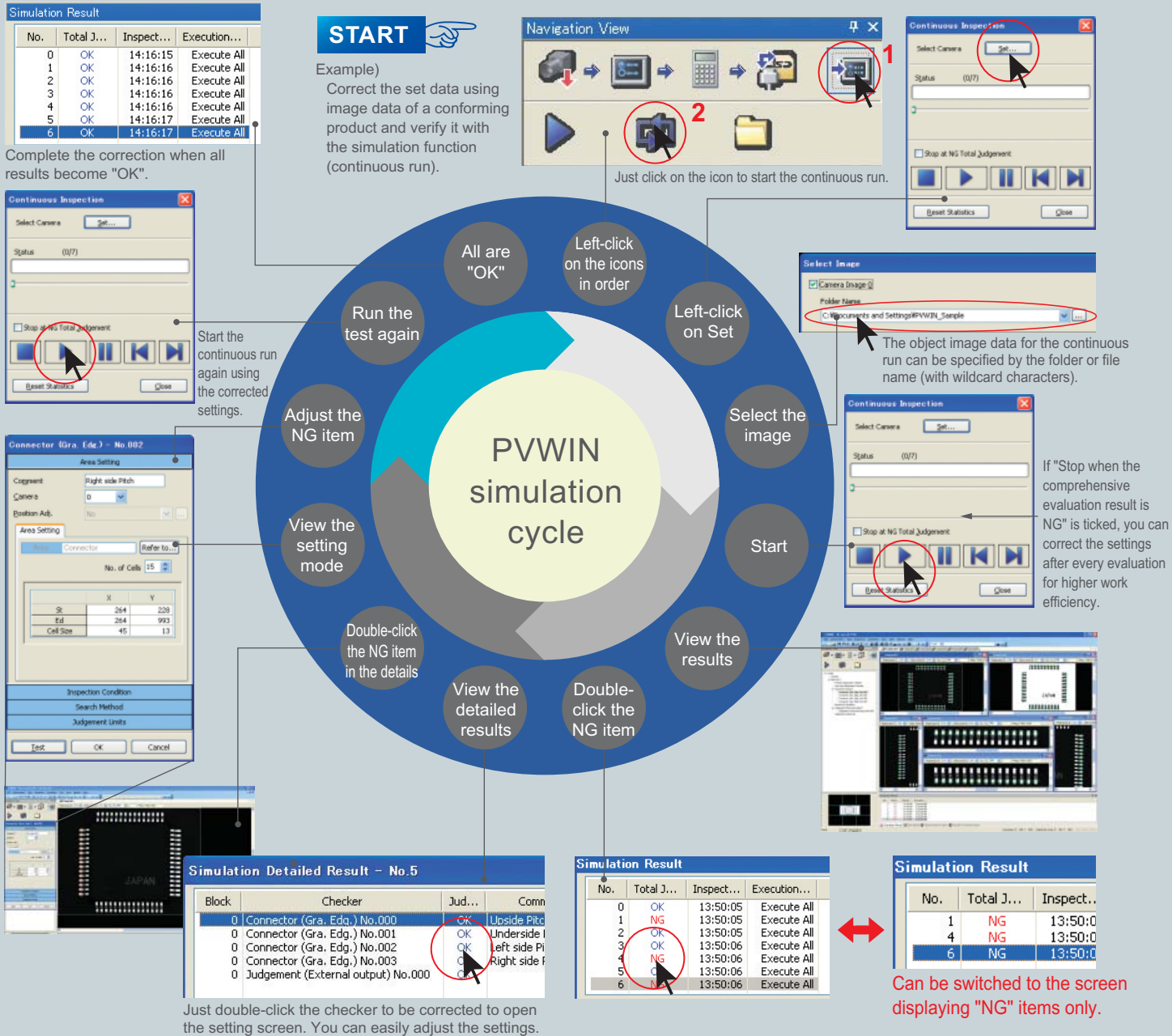


The navigation view, image map, and result windows are arranged so that they don't overlap the camera window to ensure high visibility and operability.

Result window
Displays the simulation and test results.

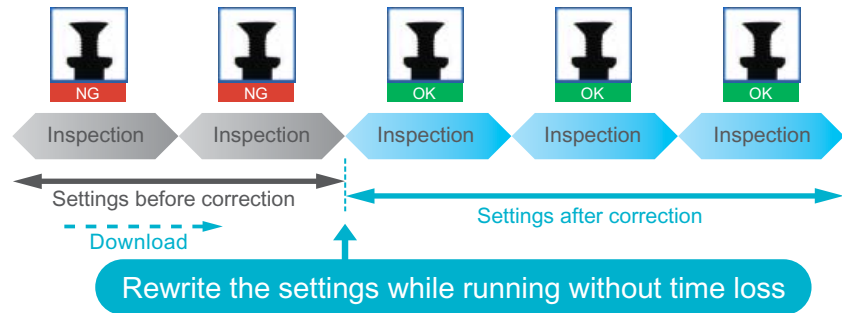
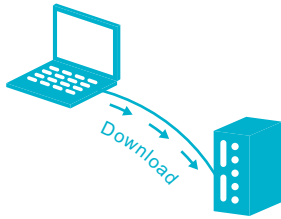
Simulation function | Easy-to-operate efficient workflow

This function verifies data of multiple (unlimited) images continuously and shows the comprehensive evaluation results. Set data can be verified and corrected item by item and adjusted easily and quickly to improve the accuracy.



Download setting data while running, without stopping production

PVWIN can transfer the set data without stopping the production line and immediately update the data for the ongoing inspection. The combination of the PVWIN's function for simulation by continuous running and the function for setting rewriting while running reduces production losses and improves the capacity utilization.



Multilingual input

Entries in the data R/W screen and comments in each checker can be set in multiple languages. Multilingual comments as well as alphanumeric characters can be entered, improving the visibility.

測定値	ピッチ	Japanese
測定値	间距	Chinese (Simplified)
측정치	간격	Korean
Valore misura	Passo	Italian

Supported languages

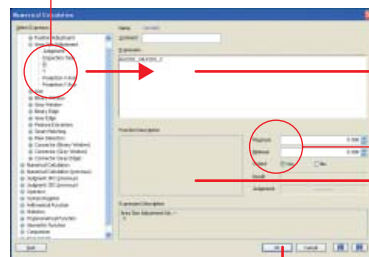
Japanese, English, Chinese (simplified), Korean, German, French, Spanish, and Italian

* Only the languages supported by the computer system fonts

Direct input by computer keyboard

PVWIN supports direct input and copy-and-paste, which can significantly reduce the number of man-hours required for setting work.

Selectable from the setting tree.



Expression
AUC001_XAUC001_X
Double-click part of the formula, and the item will be recognized.

The upper and lower limits can also be directly input.

Displays explanations when a function is selected.

Expression characters can be directly input. Very useful when the checker number is different for a similar expression.

Checks the expression for errors when saving the data and displays the message.

Data logging function

Results of the inspection of the data set on the data R/W screen can be output in text format, allowing you to manage the history (store the inspection result records). In combination with the simulation function (continuous running), this function can log the inspection results for adjustment to achieve optimum thresholds (criteria), making the setting work more accurate and efficient.

Export function

No.	Item	Value	Unit	Remark
2121	Operation		BTW	
2122	Operation Condition			
2123	Simulation Mode			Exclude All
2124	Number of Blocks			1
2125	Comment			
2126	Checksum Setting			Yes (Checksum)
2127	Checksum Trigger			Checksum
2128	Serial of Checker Area outside Image			NA
2129	Checker No. to Oper			
2130	Checker Speed			1mm
2131	Start			100
2132	Checker Entry Limit			0
2133	PLC-IO Entry Limit			0
2134	PLC-IO Entry Limit			0
2135	PLC-IO Entry Limit			0
2136	PLC-IO Entry Limit			0
2137	PLC-IO Entry Limit			0
2138	PLC-IO Entry Limit			0
2139	PLC-IO Entry Limit			0
2140	PLC-IO Entry Limit			0
2141	PLC-IO Entry Limit			0
2142	PLC-IO Entry Limit			0
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2157	PLC-IO Entry Limit			0
2158	PLC-IO Entry Limit			0
2159	PLC-IO Entry Limit			0
2160	PLC-IO Entry Limit			0
2161	PLC-IO Entry Limit			0
2162	PLC-IO Entry Limit			0
2163	PLC-IO Entry Limit			0
2164	PLC-IO Entry Limit			0
2165	PLC-IO Entry Limit			0
2166	PLC-IO Entry Limit			0
2167	PLC-IO Entry Limit			0
2168	PLC-IO Entry Limit			0
2169	PLC-IO Entry Limit			0
2170	PLC-IO Entry Limit			0
2171	PLC-IO Entry Limit			0
2172	PLC-IO Entry Limit			0
2173	PLC-IO Entry Limit			0
2174	PLC-IO Entry Limit			0
2175	PLC-IO Entry Limit			0
2176	PLC-IO Entry Limit			0
2177	PLC-IO Entry Limit			0
2178	PLC-IO Entry Limit			0
2179	PLC-IO Entry Limit			0
2180	PLC-IO Entry Limit			0
2181	PLC-IO Entry Limit			0
2182	PLC-IO Entry Limit			0
2183	PLC-IO Entry Limit			0
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2197	PLC-IO Entry Limit			0
2198	PLC-IO Entry Limit			0
2199	PLC-IO Entry Limit			0
2200	PLC-IO Entry Limit			0

The set data (details) can be output in CSV format. The product type and setting data can be easily stored in document form. Template images of the smart matching checker can be saved as bitmap files.

* PVWIN cannot read exported files in CSV format.

PVWIN	Software to set up PV Series IMAGECHECKER units on a computer
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PVWIN operation requirements	
Computer	IBM PC/AT compatible
OS	Microsoft Windows Vista (R), Windows (R) XP
Required hard disk capacity	70 Mbytes minimum (excl. capacity for storing set data and image data)
CPU	Pentium III 700 MHz or better
Memory installed	512 MB minimum
Image resolution	1024 x 768 minimum
Display color	High Color (16 bits) minimum
Communication interface	USB 2.0, TCP/IP Ethernet (1 Gbps compatible) (Soon to be supported)
Supported machine vision	Panasonic PV500 Ver. 1.30 or later

Image Receiver for PV	Software to receive output images from PV Series IMAGECHECKER units via Ethernet
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Image Receiver for PV operation requirements	
Computer	IBM PC/AT compatible
OS	Microsoft Windows Vista (R), Windows (R) XP, Windows (R) 2000
Required hard disk capacity	50 Mbytes minimum (excl. capacity for storing image data)
CPU	Pentium III 700 MHz or better
Memory installed	256 MB minimum
Image resolution	1024 x 768 minimum
Display color	High Color (16 bits) minimum
Communication interface	TCP/IP Ethernet (1 Gbps compatible)
Supported machine vision	Panasonic PV500 Ver. 1.02 or later, PV310 Ver. 1.02 or later

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