

## Aicom® Windows Embedded Vision Solution

Appliance Machine Vision. Easy Inspection and measure



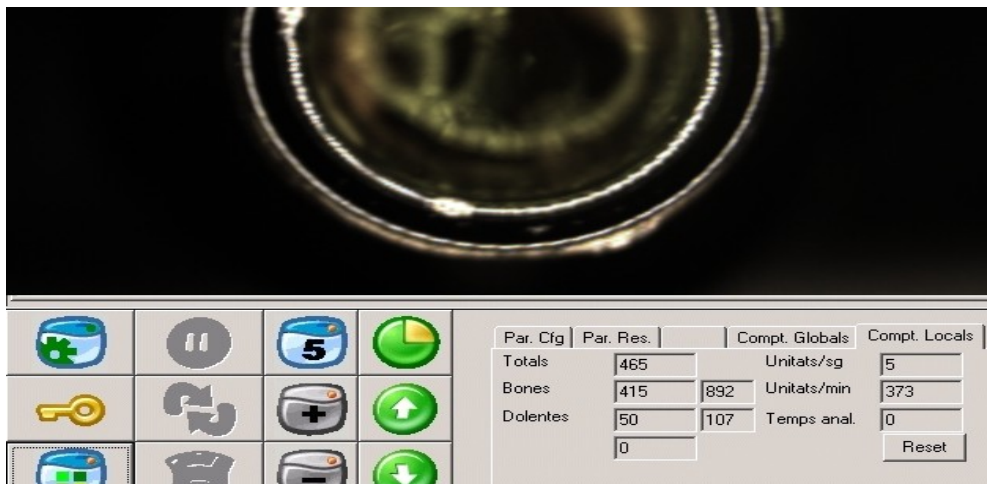
Ready to install a powerful Vision System for inspect, measure or robot guidance

Integrates all devices for imaging, lighting, I/O control by PLC, vision inspection and measure software in the same equipment .

High Speed. Inspect, measure and select until 200 images each second.

Easy Results. Register for quality control and analysis.

Simple adjust to allow a wide variety of references.

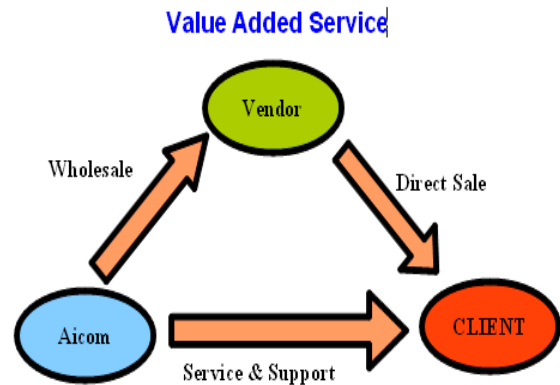


Windows Vision Software. Easy configuration

## Aicom® Macine Vision Services

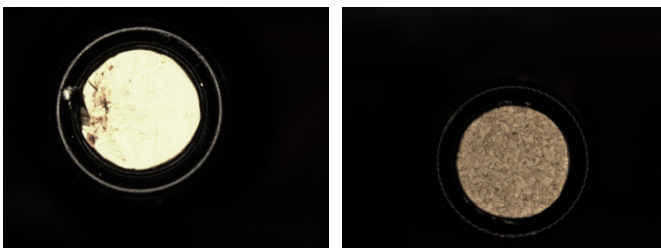
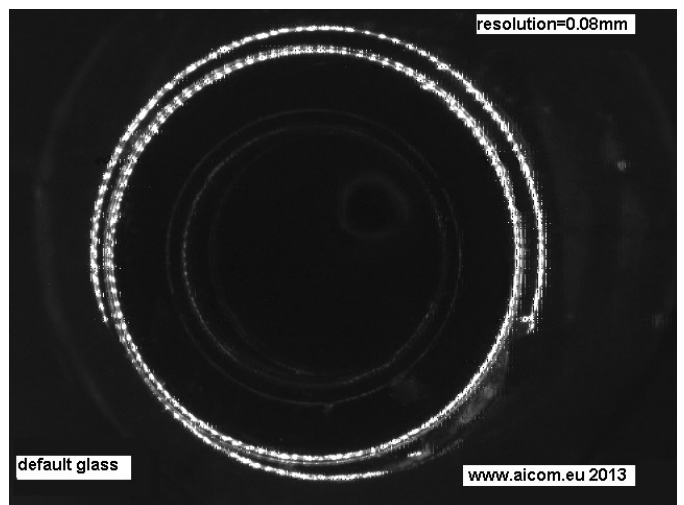
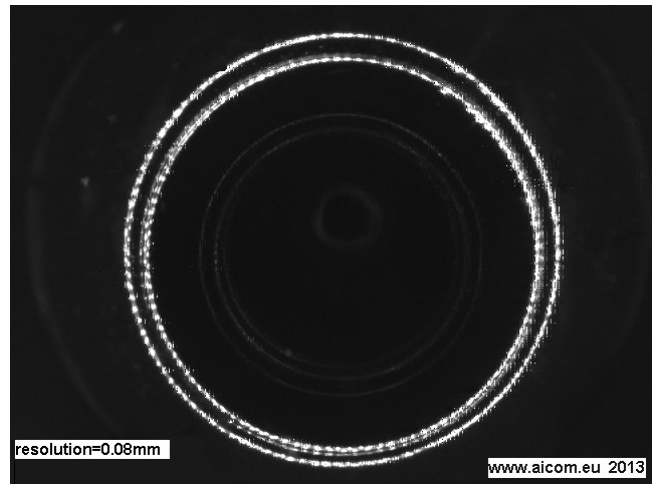
### Manufacturers and Integrators

- Custom Graphics Interface
- Better Customer Service and Support
- \$0 R/D investment
- Vision and PLC Example program are pre-installed
- 15 years Know-How
- OnLine Support



### End Users

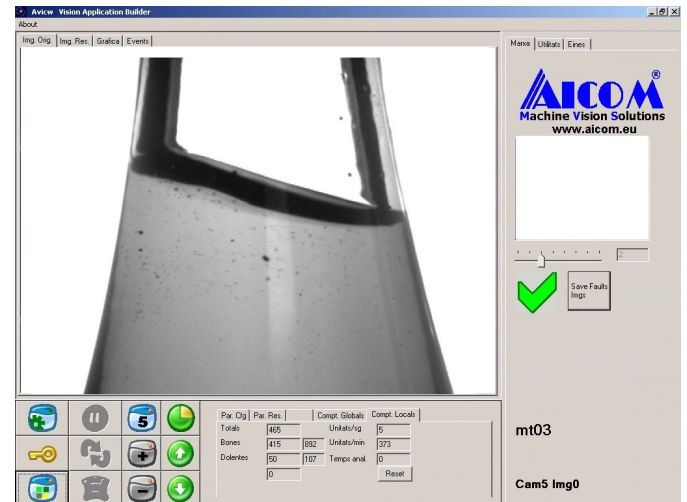
- We Identify their needs and propose the most efficient solutions
- We simplify the complex inspection tasks
- Increased safety
- Custom Statistics



## SPECIFICATIONS Software Avicw V7. Fire-Wire®

### IMAGE ANALYSIS.

- **Multicamera. Independent Processes for each camera**
- **Image Analysis by Tools: patterns, pixels count, measure, OCV, OCR, blobs measures, color separation, distance and angle, geometry.**
- **Areas treatment by rectangle, circle, arcs, rings...**
- **Tracking. Image Sequence analysis**
- **Image Filters pre-processed or characteristics separation**
- **Capture and Recording to High Speed. Sequence frozen until 800 images**



### PRODUCCION CONTROL

- **Positive separation of inspected pieces.**
- **Multiplespeed counters in real time.**
- **Image Monitor Configuration**
- **Register and graphic of inspection results by pieces, time, batches..**
- **Images Buffer of defective pieces. Saves defective images to disk**
- **Free Maintenance of statistics registers. Exportable To dBase, Excel...**

### INPUT-OUTPUT

- **Direct Modbus Link to PLC.**
- **Automatic load of the last configuration**
- **Product References selection by external Input. Fast loading references. Unlimited references by camera**
- **Inspection Results Configurable and individual indication of each one of the types of failure.**
- **Open PLC Program. Examples Ready**
- **External Trigger Cameras and lighting controlled by PLC**

### Avicw V7 VISION BUILDER

- **Vision Builder Tools. Create your Inspect Application by a tools Sequence. No Code Writes**
- **Input and Output Control Installed. Direct Access Direct PLC Data**
- **Windows. Multilingual. Ready for Touch Interface**

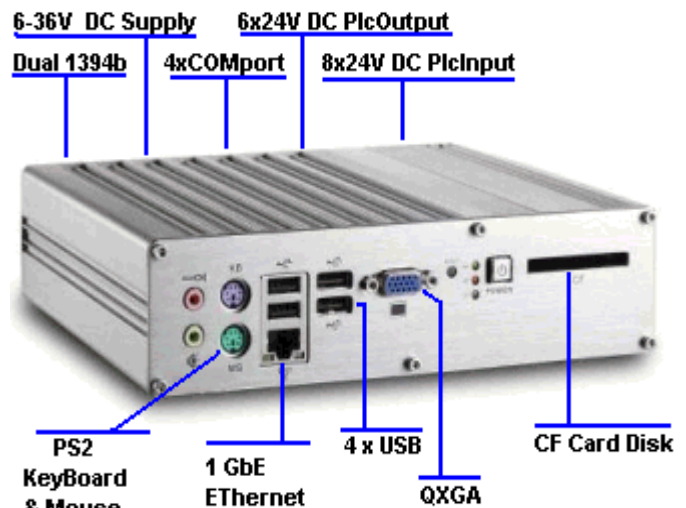
## TECHNICAL DATA

### VISION PROCESSOR

CPU – RAM	Disc	Intel Atom N270 1.6GHz +945GSE chipset	1GByteRAM	CF-Card Disk
Grafics & LinK		Analog CRT, supports QXGA (2048x1536pixels	1GbE Ethernet port	
I/O PC		COM Ports: 2xRS422-485 2xRS232	4xUSB 2.0	PS2-Key-Mouse
Integrated PLC		CPU Delta SA02 8xIsolated Input 24V	- 6xIsolated Transistor Outputs	1xRS485 - 1xRS232
Camera Input		Dual 1394b FireWire Ports	800Mbps.	Until 8 Cameras with 1394b Hubs
Power Supply		6-36Volts DC	-20°C to70°C	Fanless Operation
Dimensiones		210mm (W) x 170mm (D) x 53mm (H)	VESA 100 Mounting kit	Wall-Mount

### SOFTWARE

- O. S. Windows 7-32Bitspap
- Avicw V7 Visión Builder
- Bridge2ModbusRTU. Link Avicw -PLC
- Delta PLC Software Developer
- Example Avicw Programs
- Example PLC programs
- Easy Trigger Camera & Discriminate
- OK-NOK according Vision response



### ACCESSORIES

- 5 mts Cable Fire-Wire1394b link Camera-Vision Processor
- 5Mts cable Trigger + Light Strobe24V-3A Link Camera-PLC
- RS232 Programming PLC cable

### CAMERA

Resolución	640x480pixels Color RGB 24bits Data (op. Black and White)
Shutter	from 10microseg to 1seg. External Trigger Control
Conexión	FireWire IEEE1394b 800Mbps 80frames/second
CCD	SONY ICX424 Pixel Size: 7.4 x 7.4 micr 1/3"
Optics	C-mount. Included12mm F1.4 Megapixel optics
Dimensiones	30mm x 30mm x 60mm ( with optics)

