V.i.S ver 2.50 Professional

An affordable gateway to transfer PC/Notebook into the most versatile digital video image analysis, measurement and management system

Digital Camera

Analog Camera

Digital Camera

USB = USB FireWire

Live video and capture image (or Video Recording)

Image Processing & Analysis Tools

A set of powerful Measurement tools

Measurement

☑ Auto Label

Manual Label

- Auto / Manual Measurement Result
- Export data to Excel, HTML and many more

Reports

- **Drag & Drop Operation**
- **Easy Flexible**
- **Image Annotation Tools**
- **User report templates**
- **Export report to common image format and share with others easily.**

Image Drawing Tools

Drawing Tools

Brush Settings

Foreg. Color:
Backg. Color:
Font:
☐ Fill Color

ViS Image Analysis Report

Ref Image #1   Ref Image #2

Image Management

- Image Archiving: JPG, BMP, JPEG2000 and many more.
- Image Buffer, user image buffer and image album.
- Different Thumb view Style
- Drag & Drop within image buffer, working space, report etc.

Main Features highlight
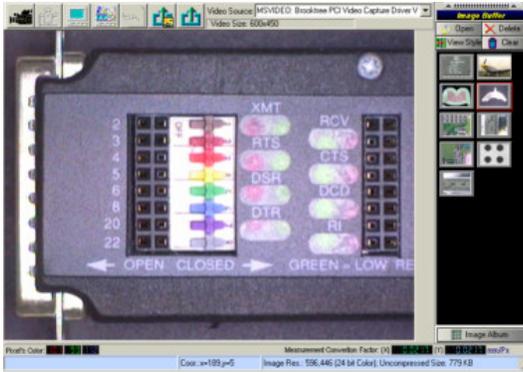
Live Video / Image Acquisition

- Selectable video source standard, NTSC/ PAL/ SECAM, or Digital Camera (USB or Firewire (IEEE 1394))
- Supports WDM and VFW driver using Microsoft DirectX
- True color video overlay display - 16/24/32 bit Color
- Video or Image capturing size up to 1280x1024
- Real time/Live image enhancement, e.g. brightness & HSV
- Save captured image as jpg, jpeg2000, ,bmp, tiff, gif, pcx, png and more, and video as avi format.
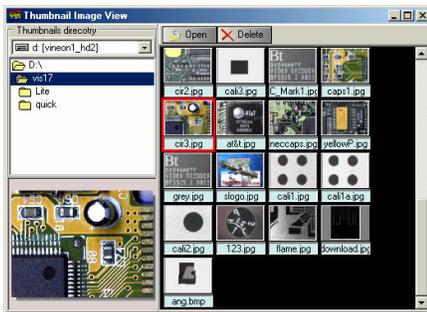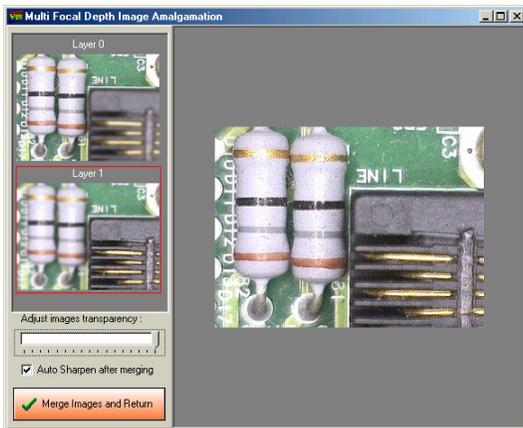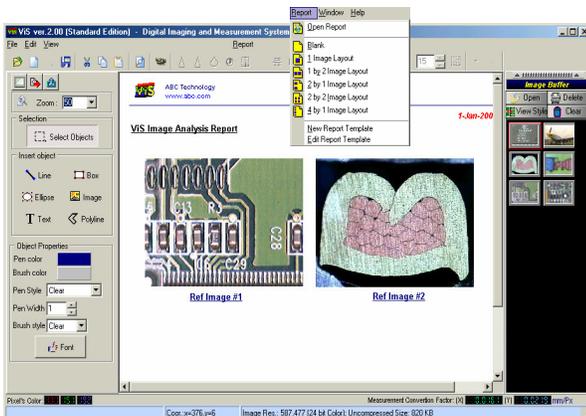
Image Buffer, Album and painting

- Drag and Drop operation
- Image buffer for storing temporary images (unlimited image)
- Different image buffer view
- Image Album for image archiving
- A set of Image annotation tools

Images Amalgamation

- Combine images at different focal depth into a full focus image.
- Adjustable focus or transparent level

Reporting (with template)

- Drag and drop report design – drag and drop image from image buffer into the report easily
- A set of report annotation tools, i.e. line, circle, text etc.
- User can design different report template.
- Pre-configured report style with different layout that ease the job of laying out the images.
- Report exportable to standard image format like PDF, BMP, JPG for sharing with others
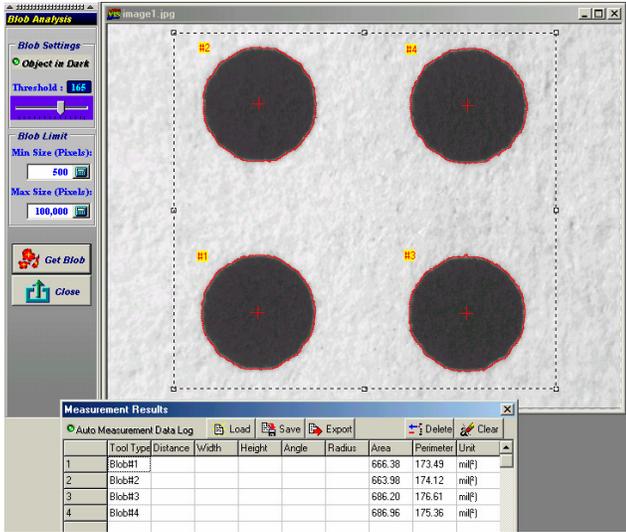
Object / Blob Analysis

• Using blob analysis technique to detect every object/particle in the ROI automatically.

• Measures area/size and perimeter/border for every object.

• Preview threshold image

• Object filtering with object area/size limit settings.
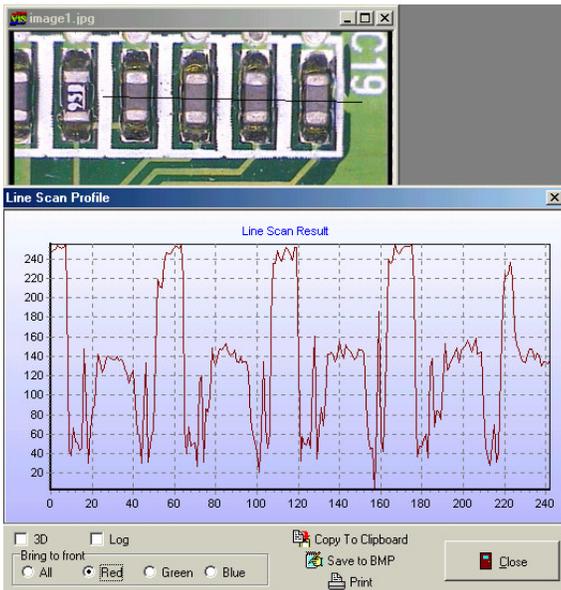
Pixels Profile

• Plot profile chart for pixels along the line drew by the user.

• View pixels' R,G,B or all profile
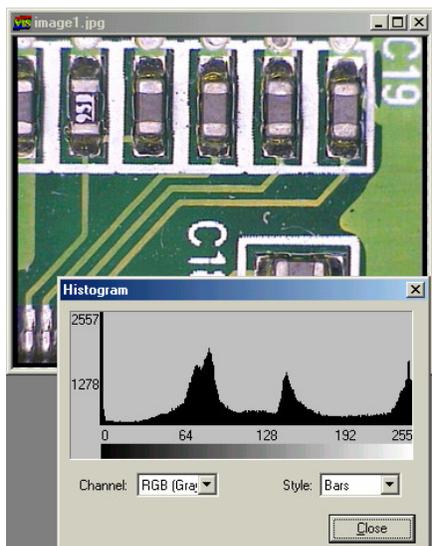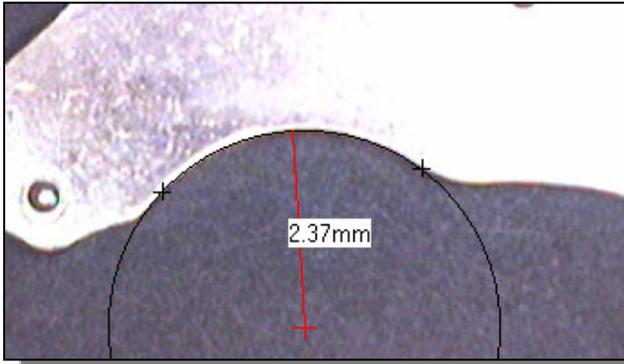
• Chart can be printed or saved as BMP.
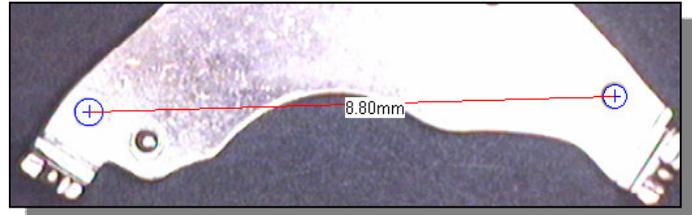

Image Histogram

• Plot histogram chart for the image area within the ROI selected by user
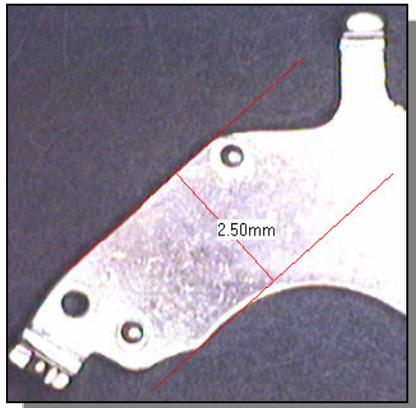
• Histogram for R,G,B or RGB (Gray).

Image Measurement Tools

Measurement

☑ Auto Label
Manual Label

ViS ver2.0 Pro provides a set of powerful Measurement tools

2.37mm

Measure Radius of an Arc with easy 3 point clicks

8.80mm

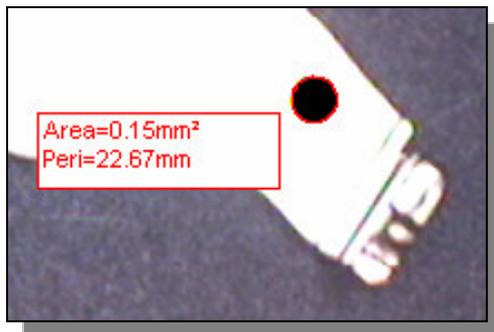**Measure pitch or distance between two holes or objects.**

139.72°

Measure Angle

2.50mm

Perpendicular lines distances

0.78mm

4.14mm
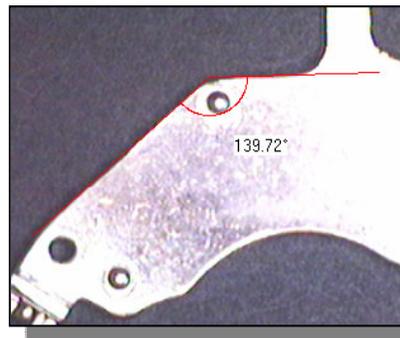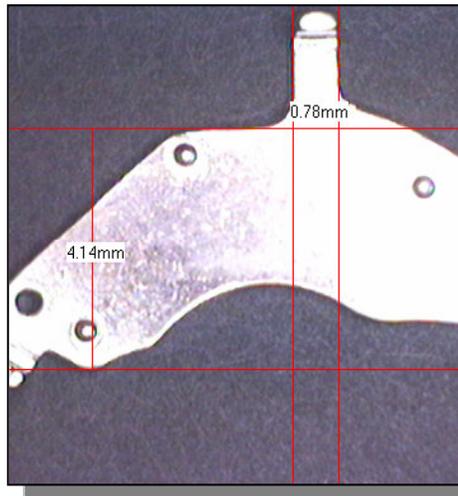
Measure width, length and others

Area=0.15mm²
Peri=22.67mm

Measure area (object size) and Perimeter of an object with one click auto area measurement (Blob analysis) or object counting

| Measurement Results								
● Auto Measurement Data Log	Load	Save	Export			Delete	Clear	
	Tool Type	Distance	Width	Height	Angle	Radius	Area	Perimeter	Unit
1	Angle				140.38				Deg
2	Pitch	9.07	9.06	0.39					mm
4	Perpen.	2.69							mm
5	Perpen.	2.62							mm
6	Width		5.31						mm
7	Area						0.14	22.61	mm(²)

Measurement results can be saved in the results sheet and export to other format like Excel, text, html etc.

AND other measurement tools…
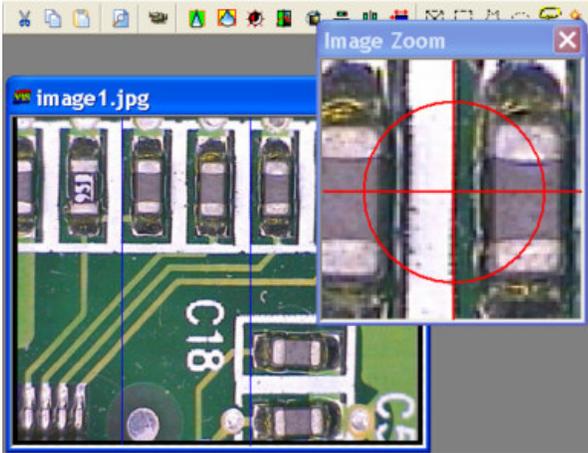
Magnifier View for Measurement

- Real Time Image Zoom/Magnifier view on the mouse pointer for measurement
- To improve measurement cycle time and accuracy
- View with cross-hair
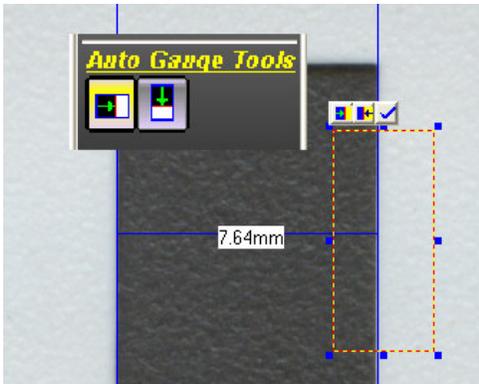
Auto Edge Finder Tools for Measurement

- Automatically find edges with 1 click for width and length measurement
- To improve measurement cycle time and accuracy
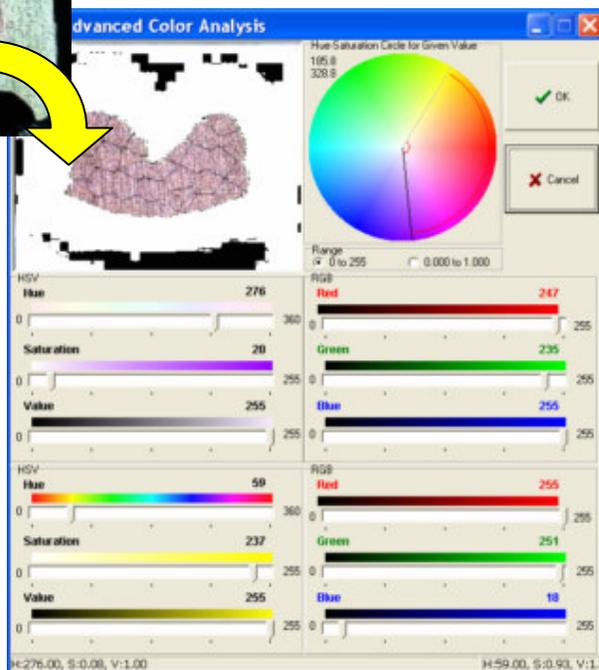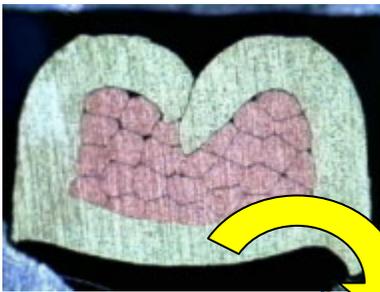
Advanced Color Analysis

- To analyze the image color in RGB and HSV
- To filter image color with RGB and HSV range filter
- Interactive HSV mapper for user to select the color range.
- After color filtering, image objects size and perimeter can be measured via blob analysis.