

VisiBit

A
Revolutionary
Software-Only
Product

Are you drowning in data, without enough information to run your process or your business?

VisiBit automatically and continuously represents data in images, archives the images, then retrieves and displays them for users.

It presents large quantities of data as images because humans are hard-wired for pattern recognition.

VisiBit instantly highlights trends, problems, and discontinuities that tabular data cannot present.

Right A single image can represent 40 pages of tabular data.

	Date	14 May	14 May	14 M
	Time	01:00	02:00	03:
Machine_01		91.17	90.03	91.
Machine_02		85.42	96.67	100.
Machine_03		100.00	100.00	89.
Machine_04		86.14	72.94	93.
Machine_05		100.00	89.78	100.

VisiBit sits outside your databases as a data mining tool with startling ease of use and power.

It can process data from any business process, from machine control to stock market analysis.

Do you work with large quantities of data? **You need VisiBit.**

The Top Caption shows the image is:

- "Wichita Falls" facility
- "Line One" area
- "Primary Operation" process
- "Efficiency" dataset
- 20 days of hourly data

24,000 Pieces of Data make up this single image, 480 datapoints for each of 50 variables.

Pattern Recognition Is Simple. Darker areas represent better performance. Brighter areas show poor performance.

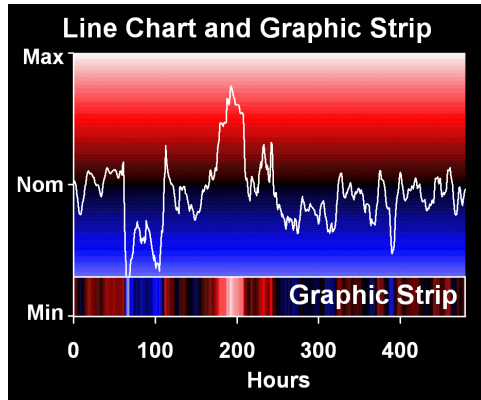
The Bright Central Blotch Is Very Poor Performance.

Analysis Is Immediate. The ROI (region of interest) with very poor performance is selected with the mouse pointer and is clearly shown to be:

- Machine_01 through Machine_50
- Percent Efficiency
- 17:00:00 28 February 1999 through 10:00:00 03 March 1999

Interpreting Images

An image consists of narrow horizontal graphic strips, one for each of up to 50 variables. Older data is at a graphic strip's "left" and newer is at its "right".



Darker places in a strip represent data with values close to nominal, or desired. Brighter places are farther from nominal.

Blues indicate deviation below nominal. **Reds** are above nominal.

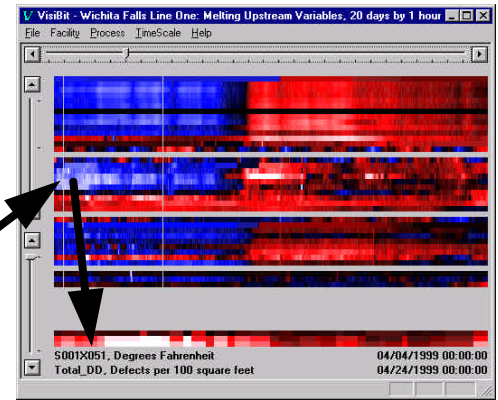
Left A line chart and a graphic strip represent the same data. The strip is **blue** when the line is low. The strip is **bright red** when the line is very high.

Right Graphic strips represent 36 process variables and, at the bottom, 3 types of defects.

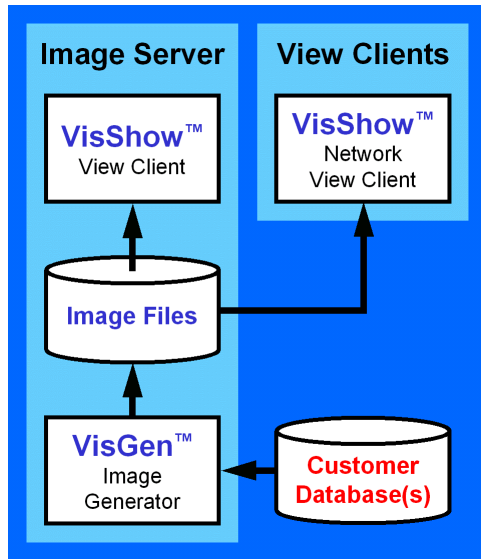
Very low, **bright blue** temperatures in the second group of variables cause very high, **bright red to white** defects in the older, left half of the image.

Temperatures increase abruptly and defects decrease (**darken**) in the image's newer, right half.

Vertical patterns in an image are events that affect several variables at the same time. Horizontal streaks are individual variables.



Technical Overview



VisShow™, the View Client

VisShow provides menus and slider controls for selecting:

- Images
- Timescales
- Earlier and later time periods

Its top caption displays your selection.

Labels show the variables and datetime range as you select an ROI (region of interest) with the mouse pointer.

It works in human machine interfaces (HMI) and other ActiveX® containers.

All components are compatible with the Microsoft® Windows NT® 4.0 operating system, service packs 3 and 5. VisShow is also compatible with the Microsoft Windows® 95 and 98 operating systems.

VisGen™, the Image Generator

VisGen automatically and continually:

- Queries your ODBC databases and converts the data to images
- "Rolls up" short timescale images into long timescale summary images
- Stores the images on the image server for rapid retrieval by VisShow

VisAdmin™, the Administrator

VisAdmin is an MMC (Microsoft Management Console) Snap-In to set up the image server with:

- Datalinks to ODBC datasources
- Menu structure for your facility
- Images and processing schedule

VisiBit Features and Benefits

Are you drowning in data, without enough information to run your process or your business?

VisiBit images show not only manufacturing performance, but also variables as diverse as financial results, quality data, CPU utilization, flow rates, pressures, weights, inventory turns, and more.

A VisiBit system can update up to 5000 variables at 2 minute intervals.

A VisShow window typically displays an image in less than a second.

Do you work with large quantities of data?

You need VisiBit.

VisiBit Corporation

4515 Lisa Lane
Wichita Falls, Texas 76309

contact@visibit.com
www.visibit.com
940.322.9922