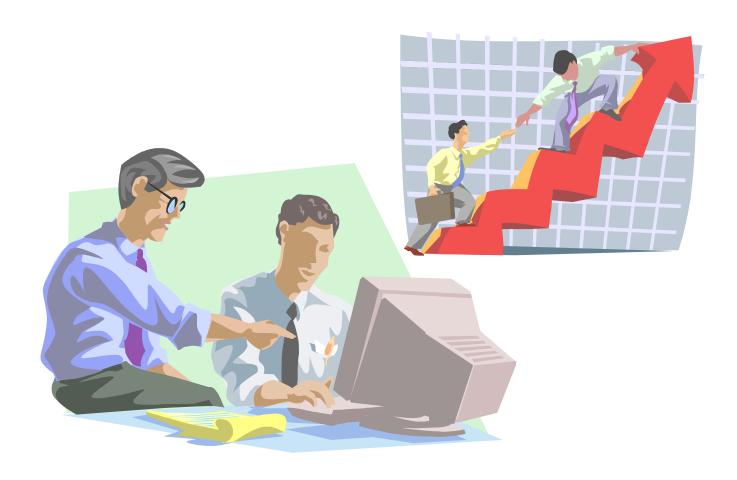
Pigital Process Analysis System ~ペガサス・デジタル作業分析システム~

Catalog Ver.317 Vector plus





OUTLINE OF THE SYSTEM

- Handing down your technology (Educating newcomers)
- Process analysis, Motion analysis, Job improvement
- Management of processing technology (including management of product processing tools)
- Process simulation in a sample stage
- Drawing up a process manual including graphics
- Arranging samples and planning papers, etc
- Introducing your company (Introducing your production line)
- 1 Handing down your technology
 - · Focusing on the technical points your skilled workers know and handing them down newcomers
 - Enabling you to cut down the costs for handing down your technology in the manufacturing industry
 - · Standardizing differences in the education content taught by each instructor
- 2 Job improvements
 - Reviewing your job site from a new point of view while dispelling stereotypes
 - · Generating valuable feedback from people at a job site
 - · Job improvements that can be conducted concretely through "Visualization"
- 3 Process analysis
 - · Reviewing your job site from a new point of view while dispelling stereotypes
 - · Reducing analysis time by unifying reports
- 4 Comparison of motion
 - Enabling you to visualize the difference between newcomers and skilled workers, and the transition of the level proficiency

FEATURES OF THE SYSTEM

- 1 A tool at a production site achieved by employing a lightweight and compact digital movie camera
- 2 No stopwatch is needed. The time can be measured directly from moving images on the display.
- 3 Valuable, moving and still images, which are useful for handing down your technology and process analysis, can be recorded.
- 4 All images can be arranged (saved/stored), so everybody can handle common data easily all data can be standardized by employing in-house LAN cables, in addition, These data can be exchanged between the headquarters and subcontracted factories.
- 5 **A simulation** can be conducted on this system in order to check the balanced of each production line.
- 6 Related material made up to now in the form of Excel, Word and PDF, etc.can be connected



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SYSTEM STRUCTURE



[Functions]

PHOTO To arrange (control) data composed of multiple pictures

STANDARD To set the standard time for multiple moving images and/or figure out organization efficiency

COMPARISON VIDEO To compare and judge two kinds of moving images

MASTER To edit of inspection defect, workers & machine equipment

BACKUP To save an important database

END To quit the program

~UNEXPECTED CHANGE BY DPA (Movie) ~



COMPARISON OF MOVING IMAGES



[Usage purpose]

- To compare and judge standard moving images (Find out know-how of operators.)
- To compare and hand down your proprietary technology
- To compare and judge the improvement effect of production facilities

It is easy to understand how to improve the operation by comparing two moving images. You can make your own "Manual" by moving image with improvement included.

~Edit standard operation by moving image.~

~"VESUALIZATION" BY USING "COMPARISON OF MOVING IMAGES"~

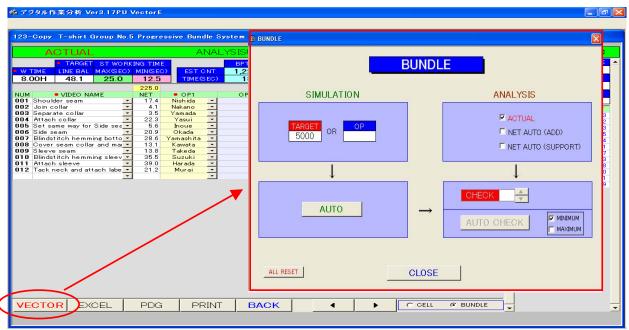
∼THE DPA HANDS DOWN YOUR TECHNOLOGY THROUGH "VISUALIZATION" ~



STANDARD MOVING IMAGE



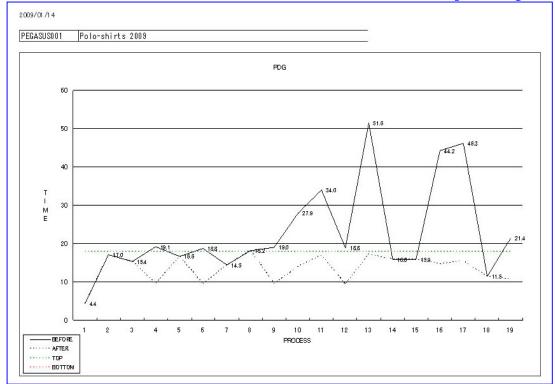
- The time can be measured from the moving images on the display
- Improvement proposal for the production line
- To hand down the description of operational motion and study the standard time
- Simulation and time measurement in a sample stage
- To check each operation (line balance)





■ Various data can be created from the movie.

Process pitch diagram



Descriptions of operations

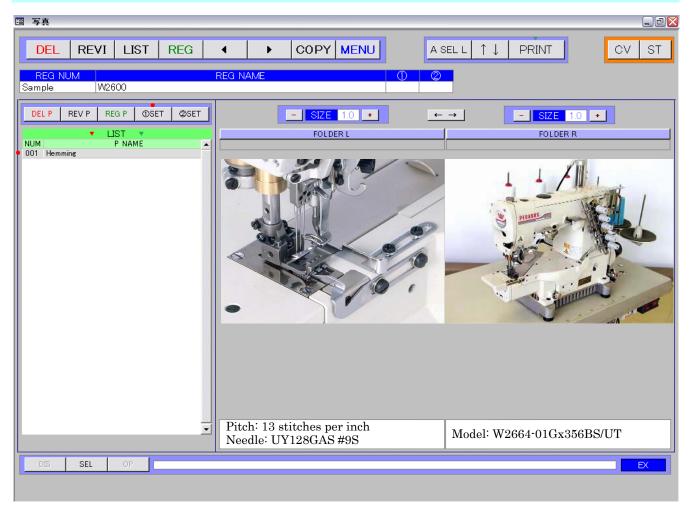
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FIND OUT AN IMPROVING POINT (know-how of operators) AND IMPROVEMENT ~

PHOTO



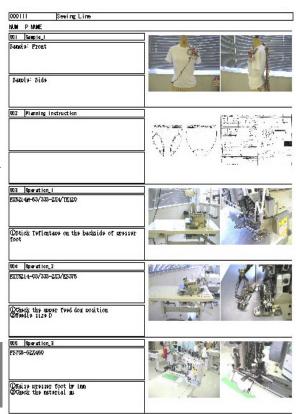
[Usage purpose]

- To arrange planning papers, to draw up an operational manual.
- To record non-defective and defective products, to record front and back views.
- Maintenance records of the facilities.
- Each line can be made by photograph and the maintenance ways of each machine is expressed. (Setup time(Changing line) can be shortened.)

[Introduction of each function]

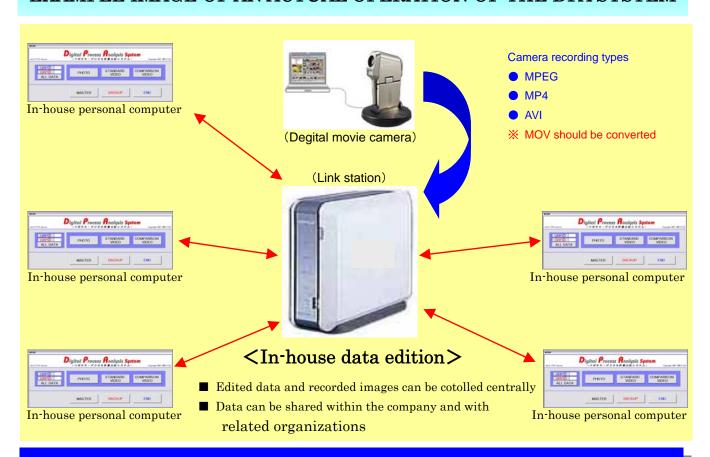
- Each photo can be displayed relatively on the screen
- Each photo can be enlarged on the screen
- Each edited photo can be printed out
- Where the data is stored can be "visualized" (Do you remember where the data is stored?)

~MACHINE MAINTENANCE AND TECHNOLOGY WHICH IS DIFFICULT TO TELL BY MOVING IMAGES.~

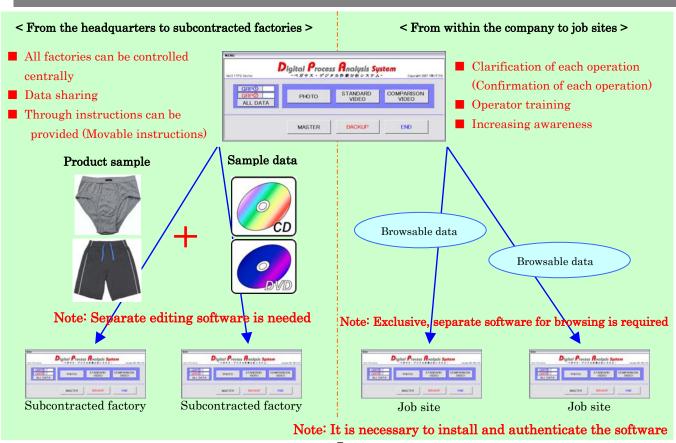




EXAMPLE IMAGE OF AN ACTUAL OPERATION OF THE DPA SYSTEM



~INFORMATION SHARING • CLARIFICATION OF WORK~





PERSONAL COMPUTER AND CAMERA

- * Check the following items for the personal computer and the camera
- 1 Recommended hardware requirements

Corresponding OS : Windows XP

· CPU : Above Pentium M or Celeron M Core 2 Duo recommended

• HDD : Built-in HDD more than 40 GB, External HDD 100-500GB recommended

Memory : More than 512 MB 1-2 GB recommended

Display
 1024 x 768, 1280 x 1024 or 1280 x 800 recommeded
 Chipset
 With the following graphic accelerators, or better

RADEON XPRESS 200 M or Intel 915GM(Express)

• Graphic memory : More than 64 MB

• Digital camera : MP4, AVI or MPEG with 640 x 480 frame

《Essential points》

■ Installation of MP4 video replay software (codec)

[Purpose] To replay MP4 movies

Install the Ulead Photo Expolore 8.5SE

If you use another MP4 camera, the Ulead Photo Expolore 8.5SE(codec)

will be available.

- A codec is supplied with the purchased camera
- Install Windows Office (any of the following versions, 2000, 2003 or 2007)

[Purpose] To control all the mastered production cost, sewing machine equipment, descriptions of operations, operator's name using the Excel file.

To display photos and material on the screen, and print them out.

- * The DPA system can be operated by using other hardware with performance below requirements in description above, but some trouble may occur according to the condition of the movie.
- Windows & WindowsXP are registered trademarks of Microsoft Corporation in the USA and other countries.

Intel and Pentium are registered trademarks of Intel Corporation(USA).

All other brand or product names mentioned in this catalogue are trademarks or registered trademarks of their respective companies.



2 Notes related to the above

- If you share the data (movie) under an in-house LAN environment, 100 BASE or better is required.
 - ※ It is necessary to install and authenticate the software.
- When a photo is taken, the resolution should be less than 3.2 million pixels (at 640x380) At higher resolutions, it takes time to display a photo on the screen. In addition, large capacity is required to save photos.
- To replay movies more smoothly, shut down resident software temporarily, such as antivirus software. Adjust resident software as required.
- Selecting a digital camera

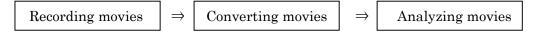
Movies should be recorded using the MPEG or MP4/AVI protocols.

It is important to analyze movies recorded for the purpose of process technology.

Storage and/or job analysis, etc., without conversion.

In addition, in regard to the recording media employed, memory cards are better than Videotape type.

· Videotape type recording media:



Memory card type recording media :



(The operation time will be reduced)

\llbracket Recommendation camera \rrbracket



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