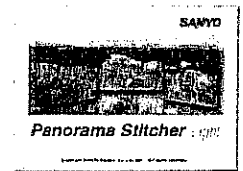


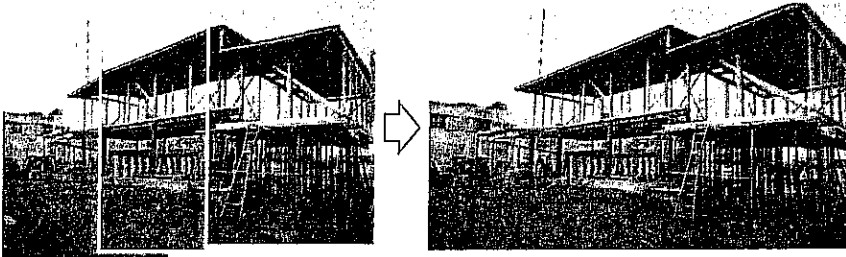
Panorama Stitcher

Capture multiple images with your digital camera and
Make Panorama Shots Simply and Easily

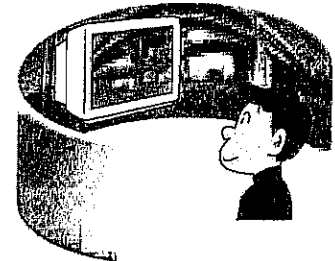


**Automatic processing! You don't need a tripod for simple shooting!
Geometrically precise finish! 360-degree panoramas are a cinch!**

Large horizontal panorama composition



360-degree panorama images



System requirements

Windows

OS: Windows 95/98/Me/NT 4.0/2000

Memory: 32 MB or more (64 MB or more recommended)

Hard disk available space: 120 MB or more (500 MB or more recommended)

Resolution/colors: 640 x 480 pixels or more, 16-bit color or more

Other: CD-ROM drive is required for installation

Macintosh

OS: Mac OS 8.6, 9.0, or 9.1

CPU: PowerPC

Memory: 32 MB or more (64 MB or more recommended)

Hard disk available space: 120 MB or more (500 MB or more recommended)

Monitor: 800 x 600 pixels or more, 16-bit color or more

Other: CD-ROM drive is required for installation

Image requirements

1. 320 x 240 or greater resolution.
2. Vertical and horizontal dimensions (in dots) of images are the same or within a 10% difference.
3. Allowed input formats: JPEG, TIFF, BMP(Windows), PICT(Mac)
4. Allowed output formats: JPEG, TIFF, BMP(Windows), PICT(Mac), QuickTime VR format, IVR format from MGI Software(Windows).

TRYING OUT THE SOFTWARE (USING SAMPLE IMAGES) (Windows)

Here we will show you how to join together two images of a clock. The images are located at C:\Program Files\Sanyo\Panorama Stitcher Light BE\Images\Clock (if you choose a different folder during installation, then the images will be located in that folder).

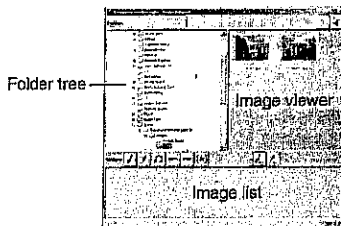
Starting the application

Click on your Windows Start menu and point to Programs and then to Panorama Stitcher Light BE. Then click on Panorama Stitcher Light BE to start the application.


Inputting the images

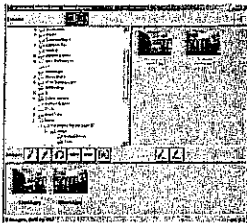
(1) Selecting the folder

In the folder tree field in the upper-left side of the window, select the folder containing the sample images. Thumbnails for the displayable images within the folder appear in the image viewer field to the right. If a folder contains another folder within, double-click that folder to view its contents.



(2) Inputting the images


Select the thumbnail for image "Clock1.jpg" and click the  button. The thumbnail for "Clock1.jpg" appears in the image list field. Perform the same operation for "Clock2.jpg".




(3) Handling the images in the image list

In the image list field, the images that overlap each other to form the panorama view must be placed next to each other. In this case, there are only two images, so you do not have to worry about this.

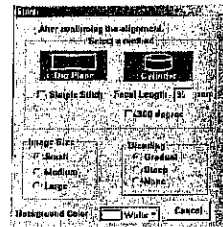
(4) Executing the automatic positioning


Click the  button. The "Are you sure you want to perform automatic positioning?" message appears. Click the OK button. After a few moments, the image given below appears.

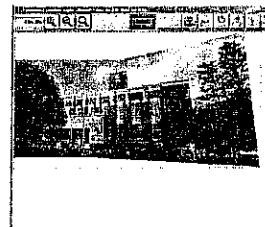


This image is the result of the software automatically determining the overlapping portion of the two images. The images have only been moved horizontally, so they are not accurately overlapped, but the positioning has been performed successfully. Now click the  button.

(5) Selecting the composite imaging




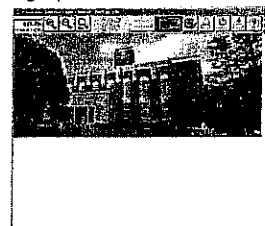
Here we will select "Large" for the image size, "White" for the background color, and "Gradual" for the blending algorithm. Now click the  button. A message appears informing you of the resulting image size and the time required. Click the OK button.




Processing begins. After a few moments, the result appears.

(6) Trimming the image

The trimming frame is shown by a dotted line. By moving the mouse cursor to the frame, the cursor will change shape so that you can now drag the frame and change its size. Click the  button to cut out and save the image portion within the trimming frame.



Click the  button to display a window for saving the image. Enter a name for the image and save it to the location you desire.

* For more information on how to use the software, refer to the online help. To access to the online help, select Online Help from Help menu.

TRYING OUT THE SOFTWARE (USING SAMPLE IMAGES) (Macintosh)

Here we will show you how to join together two images of a clock (clock1.jpg and clock2.jpg). The images are located at your HD → Panorama Stitcher Light folder → Samples folder → clock folder.

Starting the application

To start the application, double-click on Panorama Stitcher Light in the Panorama Stitcher Light folder.

Inputting the images

(1) Selecting the images


Select Add Image from File menu to display a dialogbox for selecting files. Select clock1.jpg and clock2.jpg in this dialogbox.

(2) Changing the order of images


In the file selecting field on the right, the images that overlap each other to form the panorama view must be placed next to each other. In this case, there are only two images, so you do not have to worry about this.

Pasting the images


(3) Executing the automatic positioning

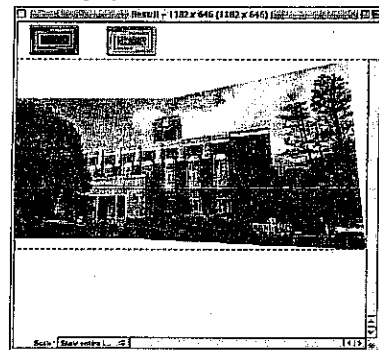
Click the  button. The automatic positioning is executed and the image given below appears.



This image is the result of the software automatically determining the overlapping portion of the two images. The images have only been moved horizontally, so they are not accurately overlapped, but the positioning has been performed successfully. Now click the  button.

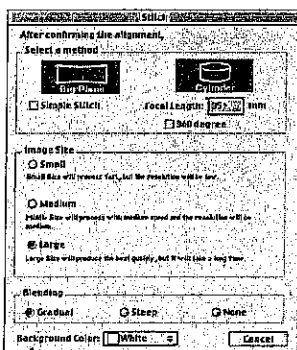
(5) Trimming the image


The trimming frame is shown by a dotted line. By moving the mouse cursor to the frame, the cursor will change shape so that you can now drag the frame and change its size. Click the  button to cut out and save the image portion within the trimming frame.



Select Save from File menu to display a dialogbox for saving the image. Enter a name for the image and save it to the location you desire.

(4) Selecting the size and plane of projection



Here we will select "Large" for the image size, "White" for the background color, and "Gradual" for the blending algorithm. Now click the  button. The result appears.

* For more information on how to use the software, refer to the online help. To access to the online help, select Online Help from Help menu.

Shooting requirements

1. Overlapping of images must be 20% or greater.
 2. For **large horizontal composite images**, tripod shooting is unnecessary. However, make sure images are not dramatically out of sync or alignment.
 3. For **cylindrical composite images**, tripod shooting is recommended. The tripod will only need to be turned horizontally.
 4. The image types given below may not work properly for composite panoramic images:
 - Scenes containing both near and far objects (indoors, etc.)
 - Images containing moving objects in the overlapping areas
 - Images with indistinct features (sky, sea, etc.)
 - Images with drastically different levels of brightness (day-and-night, backlighting, etc.)
 5. The number of images that can be joined will depend on the image sizes and your computer's memory and hard disk space.
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 - QuickTime is a registered trademark in the U.S. and other countries.