E

Panorama Editor

Version 1.0

Panorama image editing software
Windows version

Instruction manual

K822PSM1DMX

CASIO

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Introduction

This document describes the Panorama Editor image editing software (hereafter called Panorama Editor in this document). Panorama Editor is a software application that runs on Windows. This document does not describe how to use Windows.
This document assumes that Panorama Editor users are familiar with the following basic operations.

- **Mouse operations such as clicking, dragging, dragging and dropping**
- **Menu operation using the mouse**
- **Character entry using the keyboard**
- **Window operation using Windows**

Read the instruction manual of your PC and Windows for these basic operations.
All operations on this manual are described for Windows 98.

■ To first-time users of Panorama Editor

Read the “Read me” file in the CD-ROM provided. This describes how to check the system requirements for Panorama Editor and how to install it on your PC.
Check your operating environment and Windows version to be used before installing Panorama Editor.

■ Features of Panorama Editor

Editing a panorama image

- You can create a panorama image by joining images horizontally.
- Image data taken using a CASIO LCD digital camera loaded into Panorama Editor will be automatically edited as a panorama image with the stitch width used for recording.

Panorama image

Useful editing functions

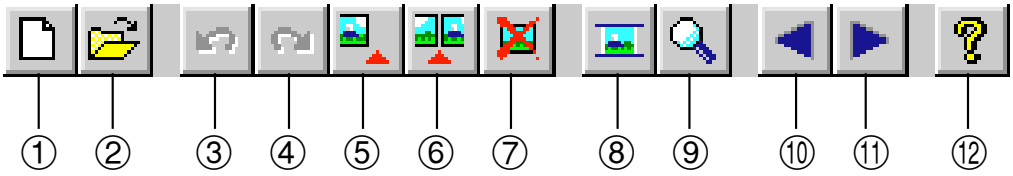
• **Scroll playback**
You can scroll and play back edited panorama images.
You can also play back endlessly by joining the ends of panorama images together in ring form.

• **Image size selection during editing**
You can select large (vertical 480 dots) or small (vertical 240 dots) image sizes while editing to suit your monitor size.

• **Enlarged display of the stitch editing portion**
You can enlarge the stitch editing portion to up to 8 times for fine-adjustment.

Toolbar

Clicking buttons on the toolbar works in the same way as when the corresponding command is selected from the menu. (This document mainly describes how to select commands from the menu.)



① [New] button
② [Open] button
③ [Undo] button
④ [Redo] button
⑤ [Add image] button
⑥ [Insert image] button
⑦ [Delete image] button
⑧ [Display cropping line] button
⑨ [Display enlarged window] button
⑩ [Playback left] button
⑪ [Playback right] button
⑫ [Help] button

File saving formats

Edited panorama images can be saved in the following file formats.

- CPI format panorama edit file
- JPEG format image data file
- QuickTime VR format movie file

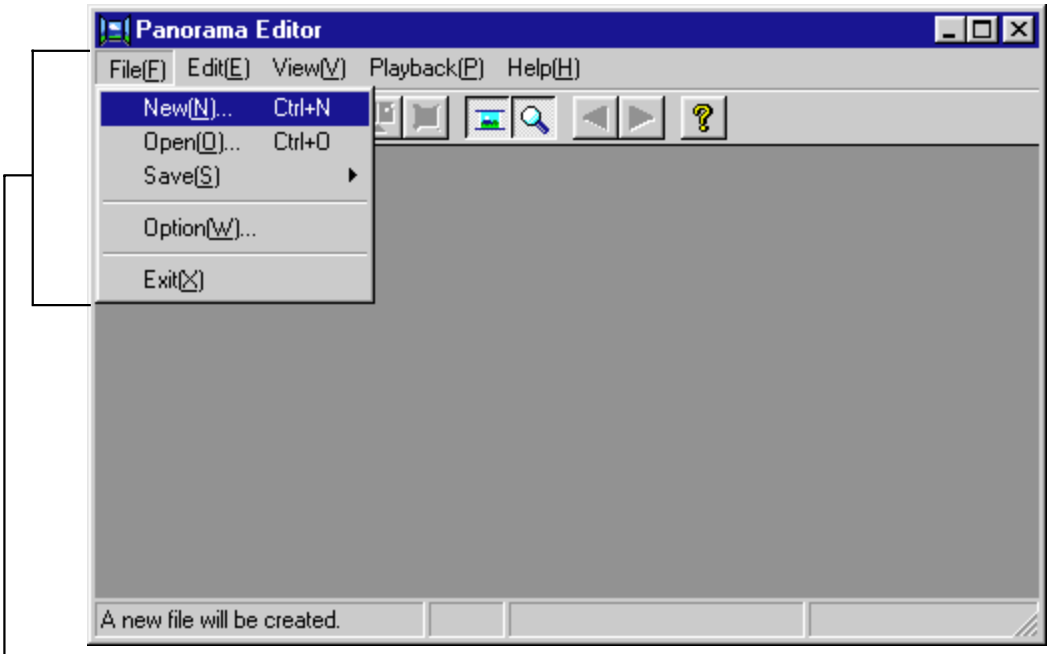
* *CPI format (.cpi extension) is CASIO's own panorama image editing file. As the information being edited is saved, it is recommended that you save images in this format if you intend to re-edit the image.*
However, save images in JPEG or QuickTime VR formats to use panorama images in other applications.

* *QuickTime must be installed in order to save in QuickTime VR format.*

■ How to read this instruction manual

Operation conventions

All operations on this manual are described for Windows 98.
The description assumes that a mouse is used.



In this document, the operation for selecting [File(F)] and then [New(N)...] is described as selecting [File(F)] → [New(N)...].

Display screens

- The display screens in this document are from Windows 98 and may differ slightly from other versions of Windows.
- Note that the display screens used in this document may differ slightly from the actual screens, but this does not mean that the contents will be different.

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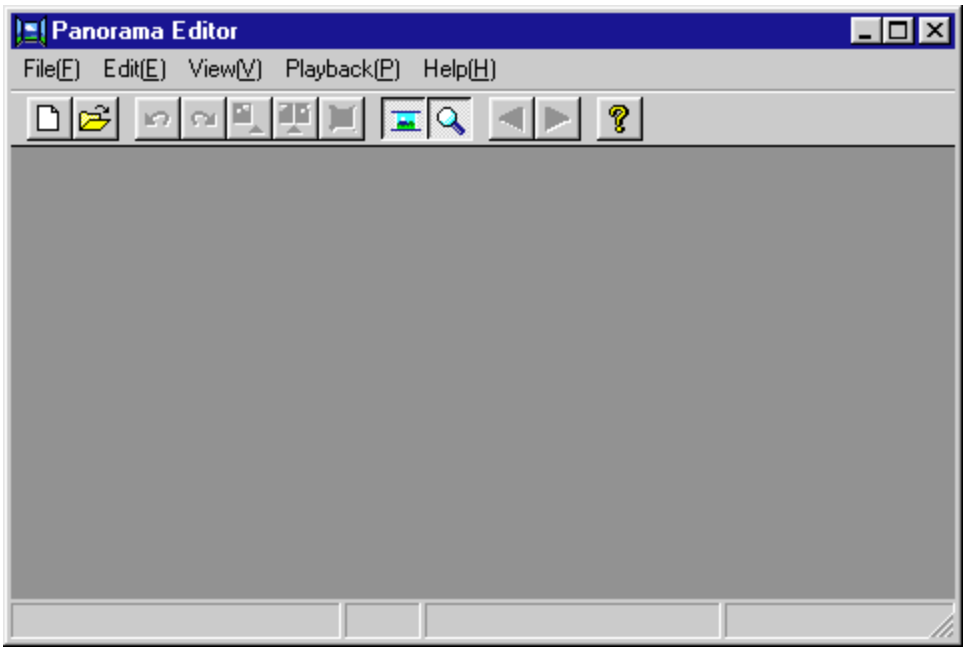
Starting Panorama Editor

You need to install Panorama Editor on your PC before starting. If you have not installed it, read the attached “Bundled Software User’s Manual” and install Panorama Editor on your PC.

1. **Switch on your PC to start Windows.**
2. **Select [Programs(P)] → [Casio] → [Panorama Editor] → [Panorama Editor1.0E].**

   If you have installed Panorama Editor in a folder other than “Casio”, select that folder.

   Panorama Editor starts and the window is displayed.



Using Panorama Editor

This section describes how to create a panorama image using Panorama Editor.

■ Calling up an image

This section describes how to call up an image file to Panorama Editor. Call up an image file using one of the following two methods.

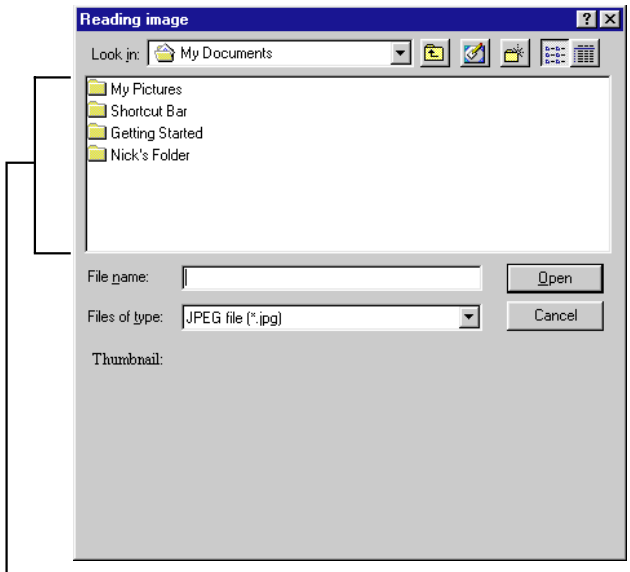
● **Create a new panorama image**
Call up an image saved in JPEG format to create a new panorama image.

● **Modify a panorama image**
Call up an existing panorama image and modify it.

Creating a new panorama image

Call up an image saved in JPEG format to create a new panorama image.

1. Select [File(F)] → [New(N)...].



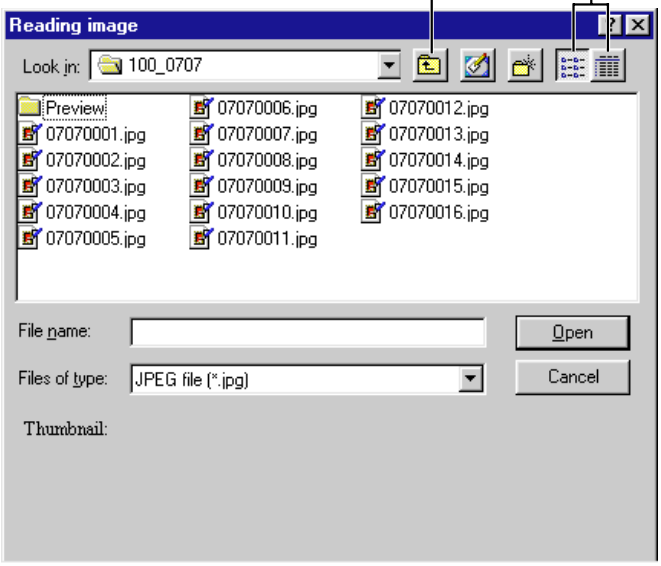
Folders below the folder currently selected will be displayed in the file display box.

2. Select the folder in which the image to be edited as a panorama image is saved.

- Click the [To next folder above] button to select a folder a level above the current one. The upper level folder will be displayed in the file display box. Continue clicking the [To next folder above] button until the level where the folder with the image exists is reached.
- Select the target folder from the [Look in] menu to select a folder at the same level as the current one. The selected folder will be displayed in the file display box.
- Click the target folder in the file display box to select a folder at a lower level than the current one.

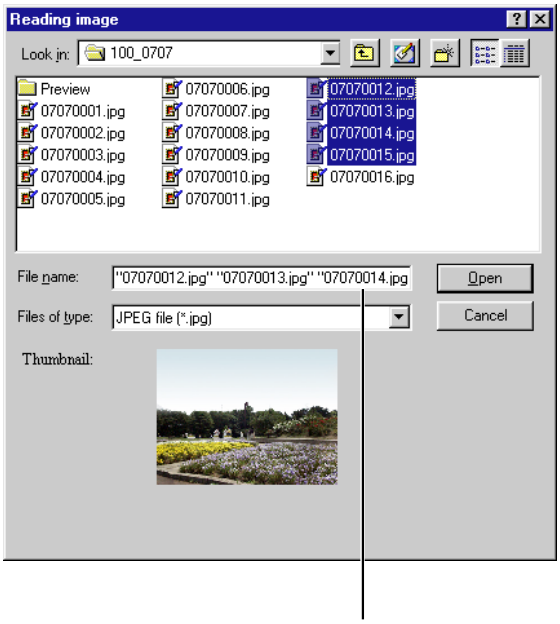
You can change the display in the file display box using the [List] and [Detail] buttons.

[To next folder above] button



3. Select an image file to be edited as a panorama image.

- To select a series of image files, click the first file and then click the last one while pressing the [Shift] key.
- To select multiple files one by one, click the desired files while pressing the [Ctrl] key.



The file name currently selected will be displayed.

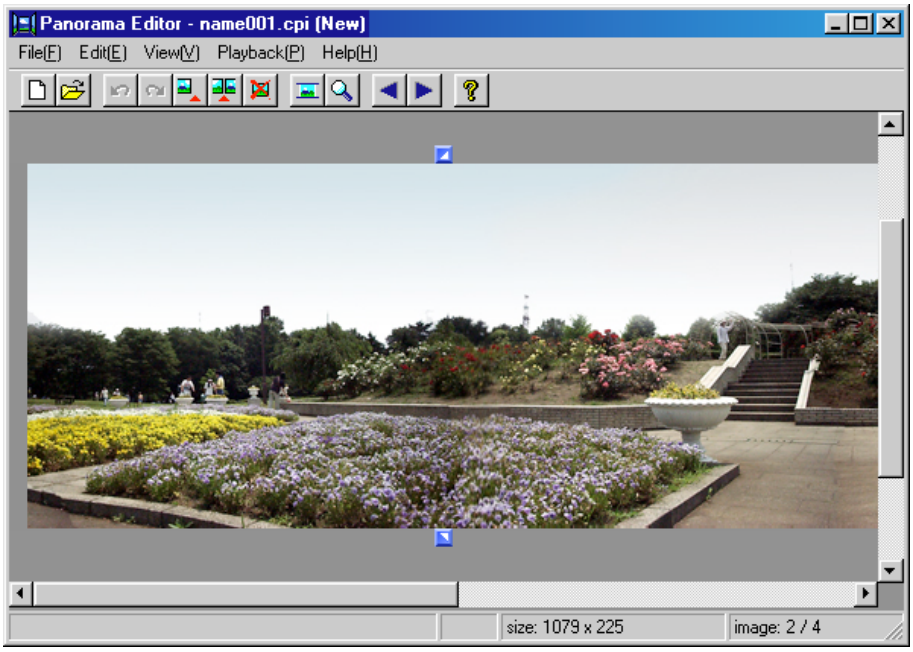
Note:
Only JPEG format image files can be selected here.

4. Click the [Open] button.

The selected files will be displayed from the left in file name order in Panorama Editor window.

The image will be displayed in the display size previously used, which is either [Enlarged display(L)] or [Reduced display(S)].

→ Page 32 “Enlarging/reducing display size during editing”



An image called up in the Panorama Editor window will be automatically edited as a panorama image.

5. Go to “Editing a panorama image” (page 16)

Important!

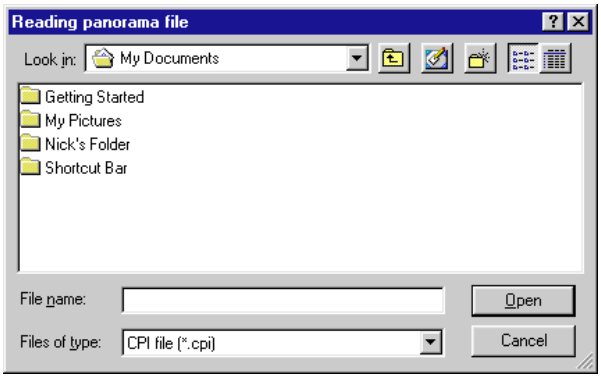
To call up images, use the size of the image first called up to check the subsequent image size. If a different size image is found, an error message will be displayed, and calling up images will be cancelled.

* *If this occurs, image data called up before cancellation can still be edited.*

Modifying a panorama image

Call up a panorama edit file saved in CPI format.

1. Select [File(F)] → [Open(O)...].



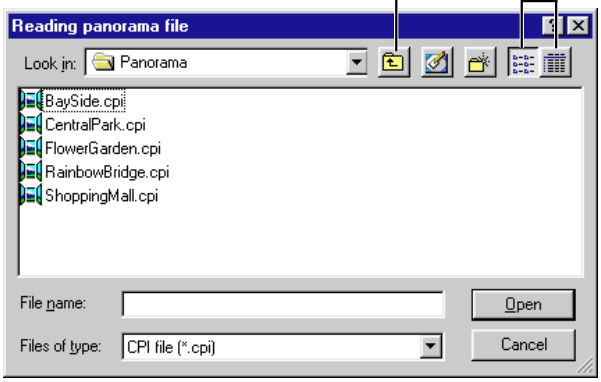
Folders below the folder currently selected will be displayed in the file display box.

2. Select the folder in which the panorama image (panorama edit file saved in CPI format) exists.

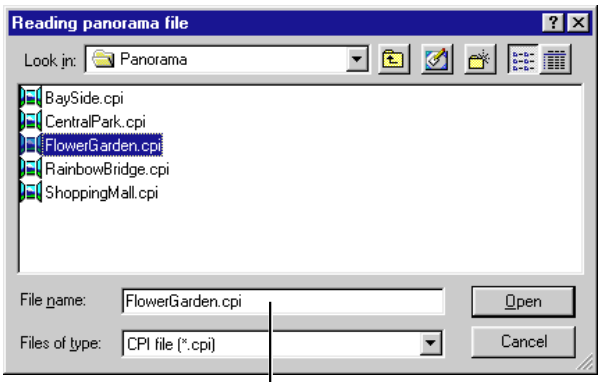
- Click [To next folder above] to select a folder a level above the current one. The upper level folder will be displayed in the file display box. Continue clicking [To next folder above] button until the level where the folder in which the panorama image exists is reached.
- Select the target folder from the [Look in] menu to select a folder at the same level as the current one. The selected folder will be displayed in the file display box.
- Click the target folder name in the file display box to select a folder at a lower level than the current one.

You can change the display in the file display box using the [List] and [Detail] buttons.

[To next folder above] button



3. Select a panorama image to be modified.



The currently selected file name will be displayed.

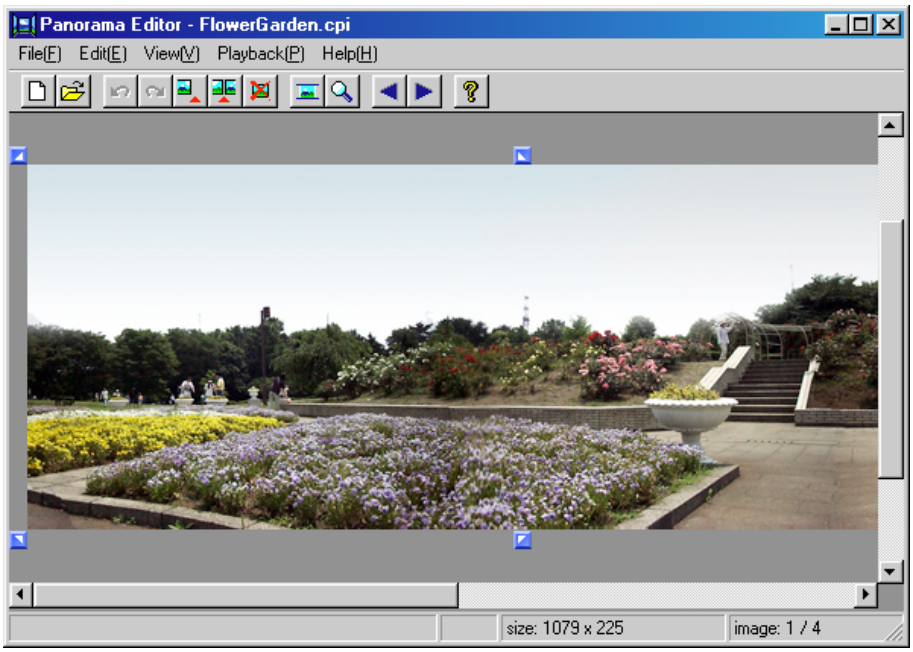
Note:
Only CPI format files can be selected here.

4. Click the [Open] button.

The files selected will be displayed in the Panorama Editor window.

The image will be displayed in the display size previously used, which is either [Enlarged display(L)] or [Reduced display(S)].

→ Page 32 “Enlarging/reducing display size during editing”



5. Go to “Editing a panorama image” (page 16).

■ Editing a panorama image

This section describes how to edit a panorama image.

● Fine-adjusting a panorama image
Adjust stitch width (overlapping portion) between images and cutoff position for vertical size.

● Other editing
You can add and delete an image to/from a panorama image. You can also join both ends of the panorama image in a ring form.

Fine-adjusting a panorama image

You can adjust a panorama image by editing a stitch or by cropping.

● Editing a stitch
Adjust stitch width (overlapping portion) between images.
You can adjust the stitch width with the left-hand image by dragging the image. You can also adjust the horizontal level with the left-hand image by dragging it up or down.

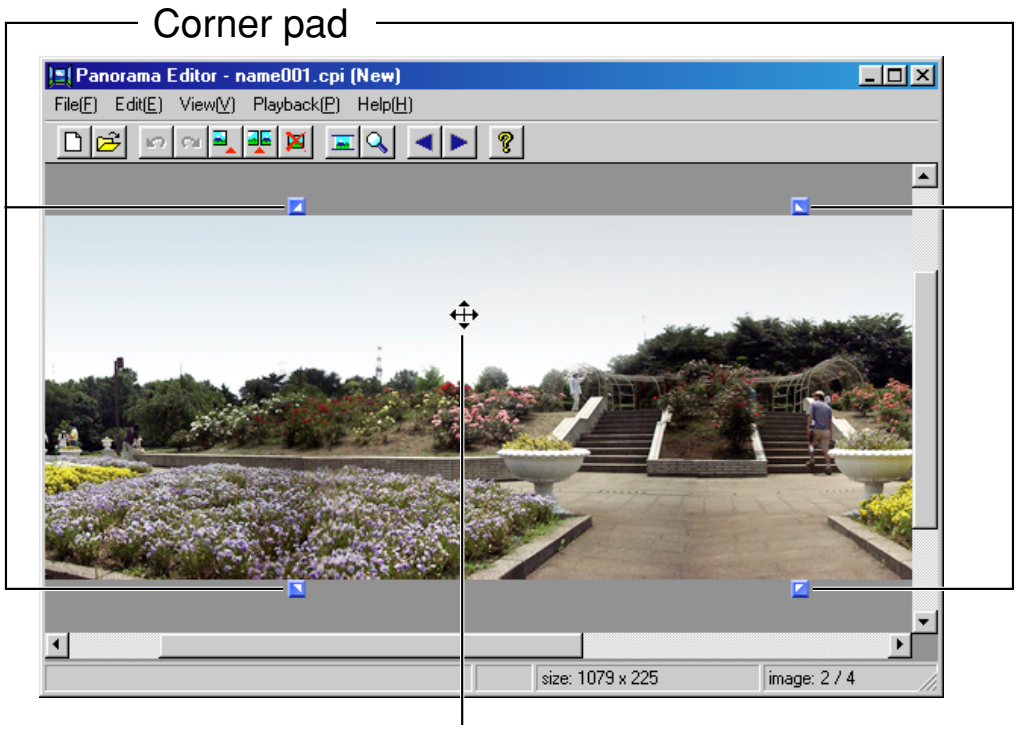
● Cropping
Adjust the cutoff positions of an image.
You can specify the height (upper and lower cutoff positions) of an image by dragging the cropping lines (lines displayed at the top and bottom of an image).

* *Descriptions here assume that a panorama image is displayed in the edit window. If a panorama image is not displayed, call up a panorama image by referring to “Calling up an image” (page 9).*

Editing a stitch

1. Click an image to edit its stitch.

Corner pads will be displayed on the image selected.



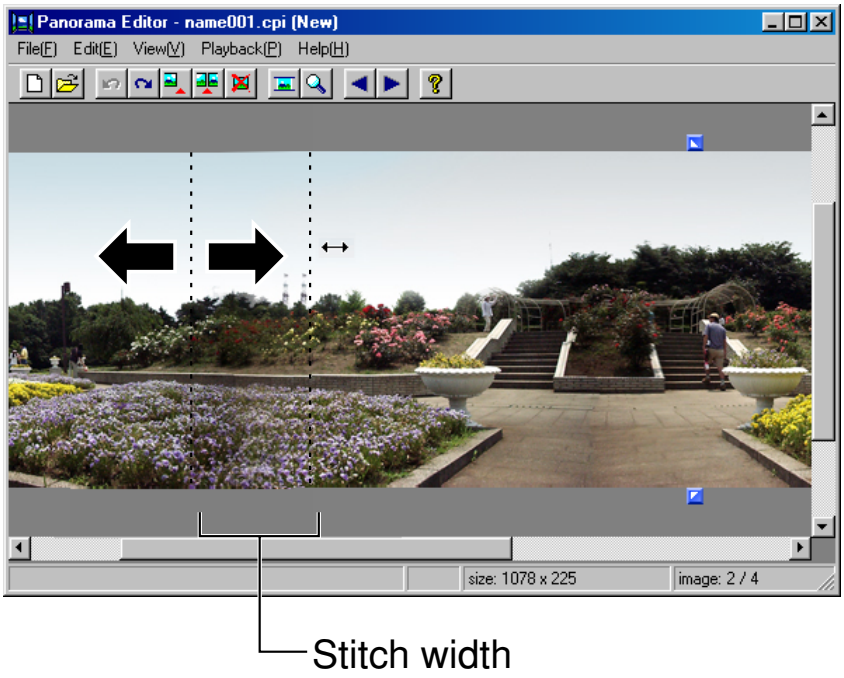
The pointer changes to on the screen selected.

Note:

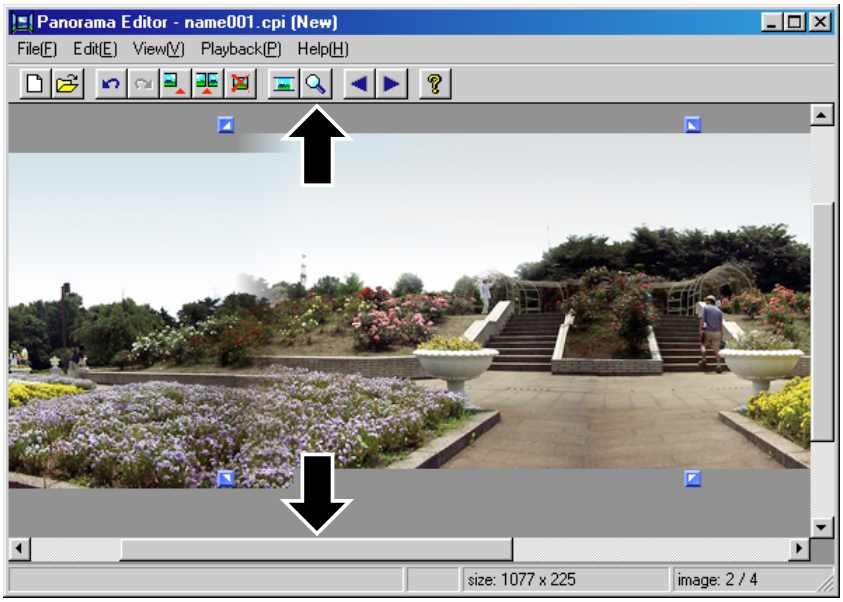
- The corner pads are displayed at the four corners of the image selected.

2. Drag the selected image sideways to adjust its stitch width.

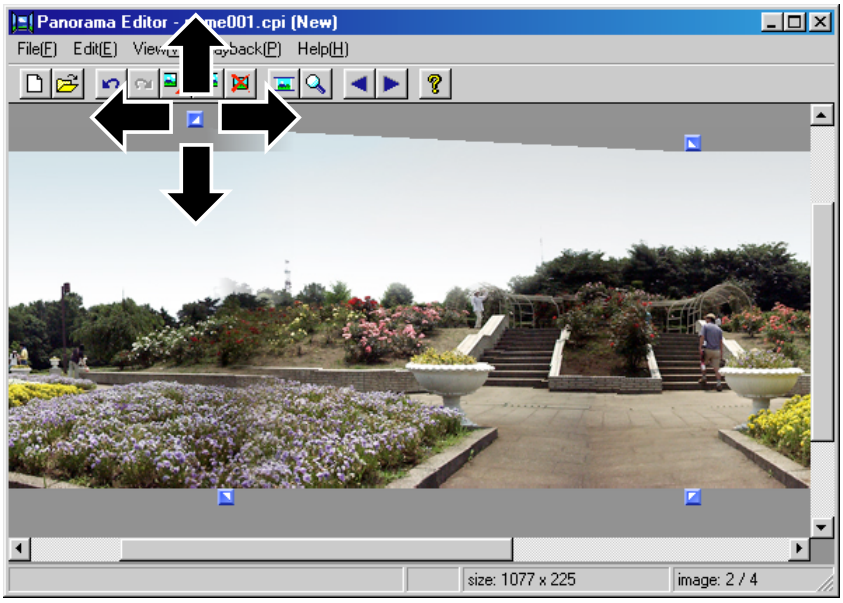
Adjustment is allowed up to half the image size. You cannot move the selected image beyond this limit.



3. Adjust the horizontal level of the image by dragging the selected image up or down.



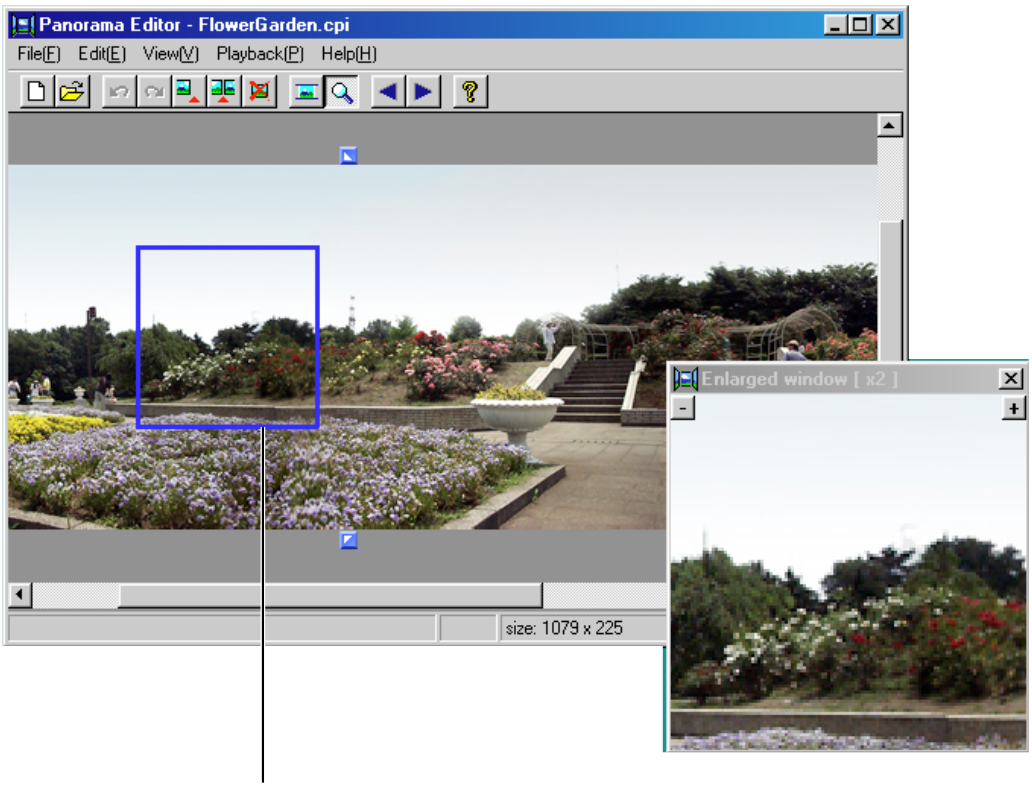
4. **You can further fine-adjust the image by dragging the corner pad on the left-hand corner of the selected image.**



■ Enlarging the stitch editing area

You can enlarge the stitch editing area displayed.
Select [View(V)] → [Display enlarged window(Z)].

- The area to be enlarged is enclosed in a blue frame.
- The area enclosed in the frame will be displayed in a separate window.



Enlarged display area

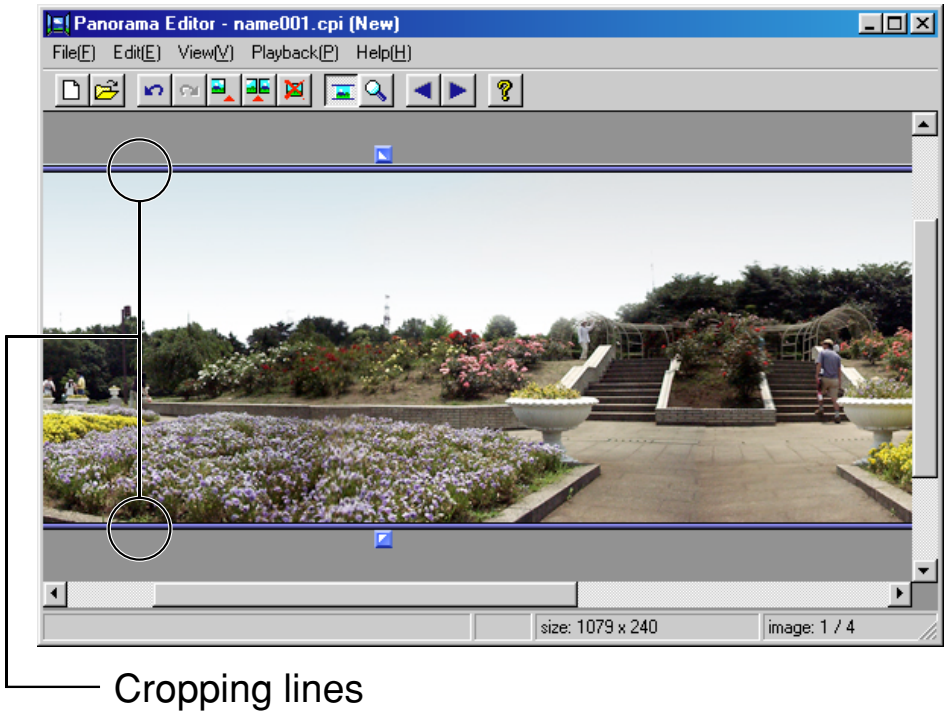
Note:

- The image will be displayed in accordance with the window enlarged by dragging the blue frame.
- Clicking the [+] button on the top right of the enlarged window changes the enlargement ratio from normal to ×2, ×4 and ×8 sizes.
- Clicking the [–] button on the top left of the enlarged window changes the enlargement ratio from ×8 to ×4, ×2 and normal sizes.

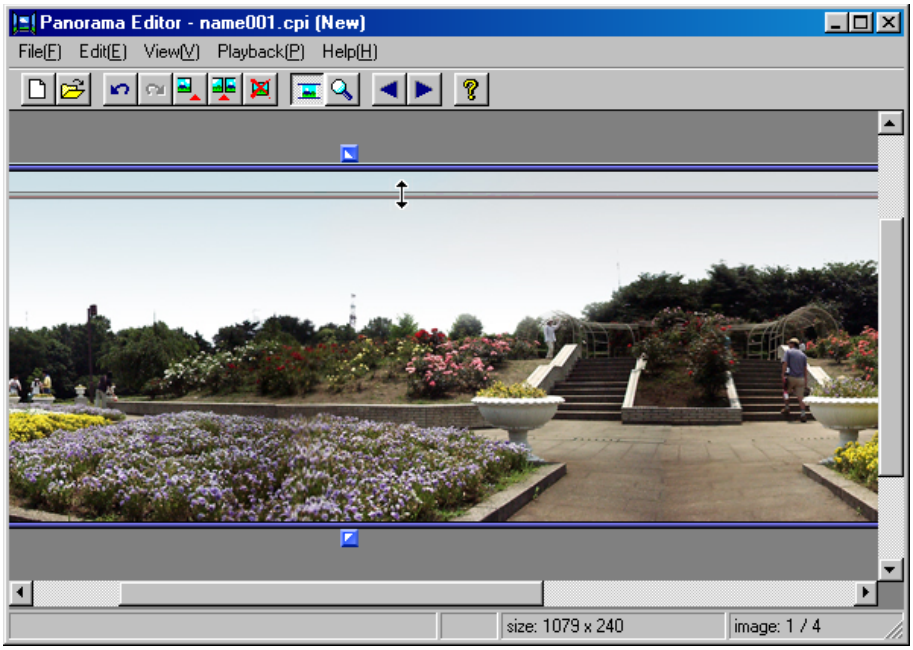
Cropping

1. Select [View(V)] → [Display cropping lines(C)].

- Cropping lines appear on the image being edited.
- Selecting [Display cropping lines(C)] switches between display and hide.



2. Drag the cropping lines up or down to specify the cropping positions (upper and lower cutoff positions).



■ Functions during stitch editing and cropping

• Undo
Select [Edit(E)] → [Undo(U)].
Cancels the previous operation. Only [Edit stitch] and [Edit cropping] operations can be cancelled.

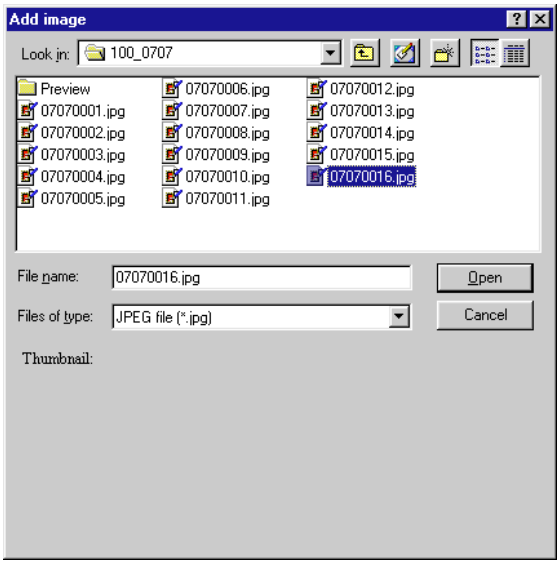
• Canceling [Undo]
Select [Edit(E)] → [Redo(R)].
Restores the [Edit stitch] or [Edit cropping] operations cancelled by [Undo(U)] to the condition before the [Undo(U)] operation.

Other editing

Adding an image to a panorama image

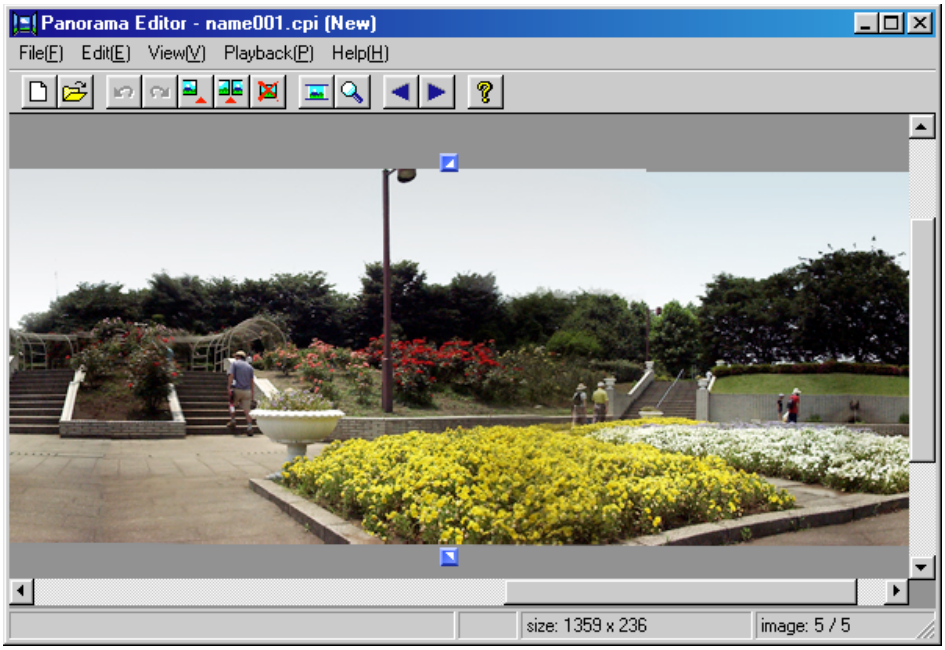
Adds an image after the panorama image being edited.

1. **Select [Edit(E)] → [Add image(A)...].**
2. **Select the image to be added.**



3. **Click [Open].**

   The image selected will be appended to the panorama image being edited.



Note:

- You can only select JPEG format images here.
- You can only add one image at a time.
- If you try to add a different size image, an error message will be displayed and the image will not be added.

Inserting an image into a panorama image

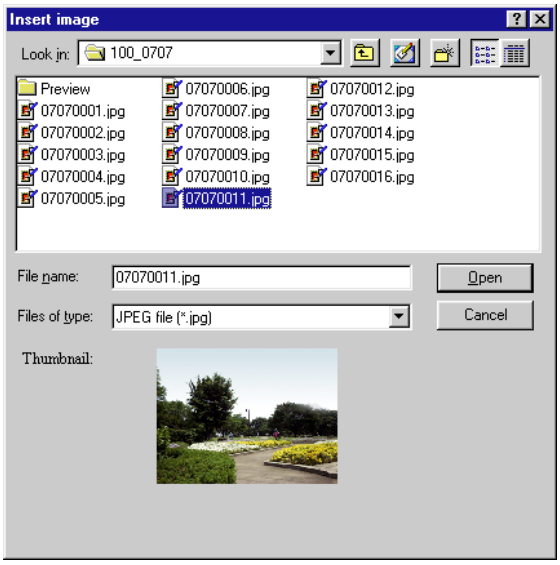
Inserts an image into a panorama image being edited.

1. **Click the portion into which you want to insert an image.**

   The image will be inserted in front of (to the left of) the image selected.

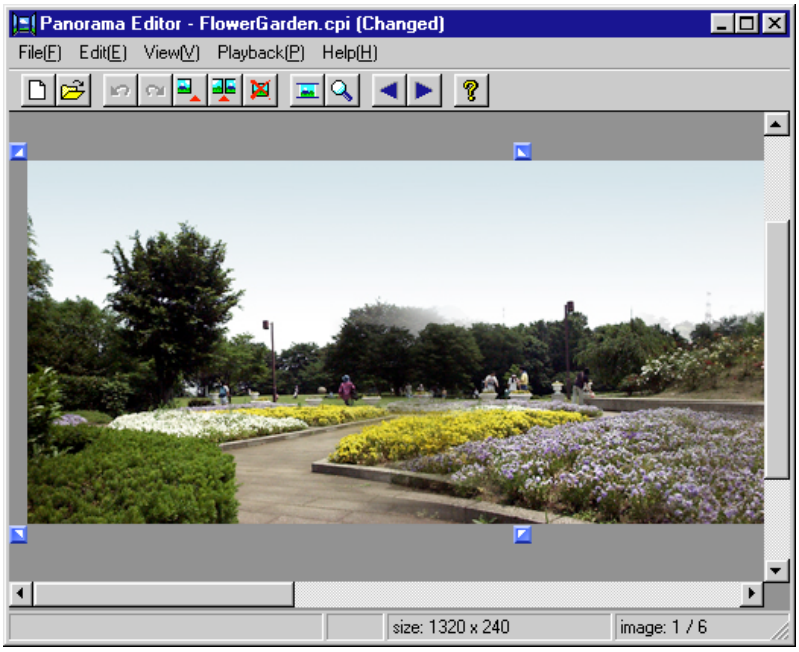
2. **Select [Edit(E)] → [Insert image(I)...].**

3. **Select the image to be inserted.**



4. Click [Open].

The image selected will be inserted into the panorama image being edited.



Note:

- You can only select JPEG format images here.
- If you try to insert a different size image, an error message will be displayed and the image will not be inserted.

Deleting an image from a panorama image

Deletes an unnecessary image from the panorama image being edited.

1. Click the image to be deleted.

2. Select [Edit(E)] → [Delete image(D)].

The image selected will be deleted.

Joining panorama images in ring form

You can make a panorama image in a ring form by joining the front (left-hand edge) to the rear (right-hand edge) image.
This is effective when saving in QuickTime VR format or when scrolling and playing back on the edit screen.

1. **Select [Edit(E)] → [Form ring(O)].**

   The left- and right-hand edges of the panorama image being edited will be joined.

   Note:
   - If you play back the panorama image in this state, the image will be scrolled and played back endlessly.
   - If you save the image in JPEG format with [Ring setting] on, the image will not be saved in ring format.

■ Playing back a panorama image

This section describes how to play back a panorama image being edited. You can scroll and play back the panorama image. You can also adjust the scroll speed.

* *Descriptions here assume that a panorama image is displayed in the edit window.*

Important!

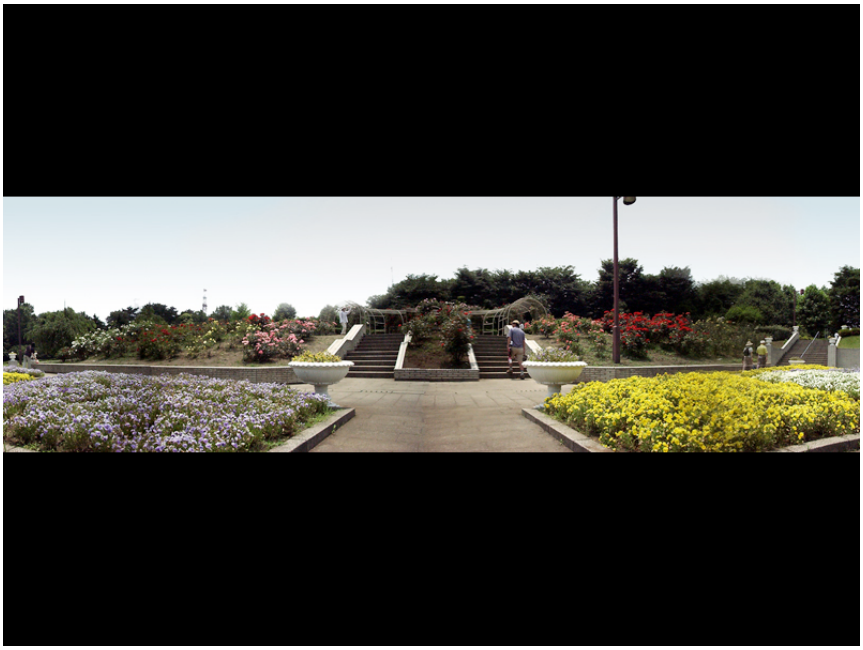
Only panorama images saved in CPI format can be played back using Panorama Editor. Image data saved in other formats should be played back using an application supporting the particular format.

* *Panorama images saved in QuickTime VR format can be played back using QuickTime.*

Playing back by scrolling

1. Select [Playback(P)] → [To right → (R)].

- The panorama image being edited will be scrolled and played back to the right.
- Select [← To left(L)] to scroll and play back to the left.



2. To stop playback, click the mouse or press any key on the keyboard.

Note:

- The panorama image being edited will not be scrolled if the width is less than the monitor width plus 64 dots.
- If you play back a panorama image with [Ring setting] on, the image will be scrolled and played back endlessly.
  → Page 26 “Joining panorama images in ring form”

Adjusting playback speed

You can adjust the playback (scroll) speed. You can select from [Fast(F)], [Normal(N)] and [Slow(S)] playback speeds.

1. **Select [Playback(P)] → [Speed setting(S)].**
2. **Check the desired playback speed.**

■ Saving a panorama image

This section describes how to save a panorama image, which you have created or edited. Panorama images can be saved in the following three formats.

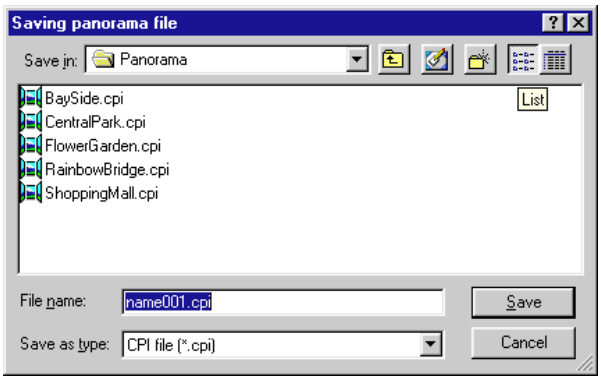
- **CPI format**
- **JPEG format**
- **QuickTime VR format**

See “File saving formats” (page 4) for details of file formats.

Saving in CPI format

1. **Select [File(F)] → [Save(S)] → [Save as CPI(C)...].**
2. **Select the folder in which to save the panorama image.**

3. Enter the file name in the [File name] box.



4. Click the [Save] button.

- The panorama image is saved. The extension is ".cpi."
- If the same file name exists in the folder specified, a confirmation message will be displayed. Click [Yes(Y)] button to overwrite, or else click the [No(N)] button.

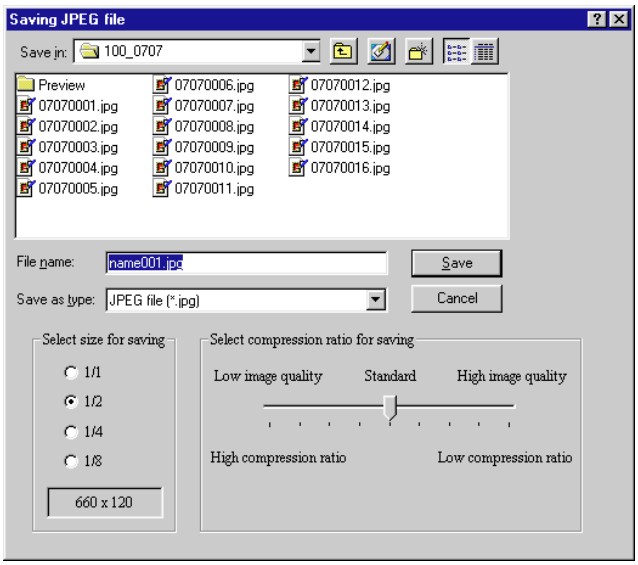
5. The panorama image edit screen is resumed when the image has been saved.

Saving in JPEG format

1. Select [File(F)] → [Save(S)] → [Save as JPEG(J)...].

2. Select the folder in which to save the panorama image.

3. Enter the file name in [File name] box.



4. Select an image size from [Select size for saving].

Select from 1/1, 1/2, 1/4 and 1/8.

5. Select a compression ratio from [Select compression ratio for saving].

Select a compression ratio of the image data to be saved from the 9 levels ranging from high compression ratio (low image quality) to low compression ratio (high image quality).

6. Click the [Save] button.

- The panorama image is saved. The extension is ".jpg".
- If the same file name exists in the folder specified, a confirmation message will be displayed. Click [Yes(Y)] button to overwrite, or else click the [No(N)] button.

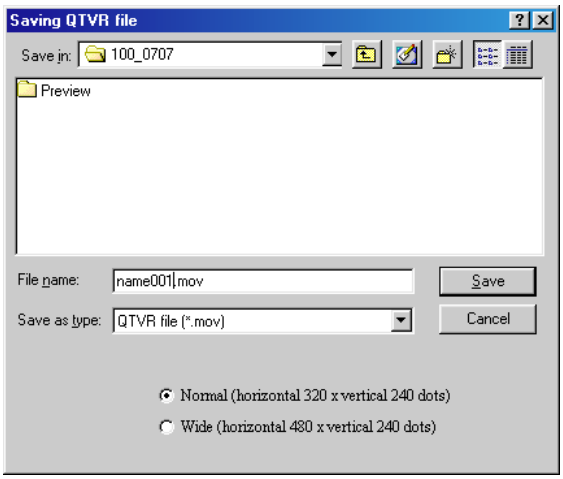
7. The panorama image edit screen is resumed when the image has been saved.

Saving in QuickTime VR format

1. Select [File(F)] → [Save(S)] → [Save as VR file(M)...].

2. Select the folder in which to save the panorama image.

3. Enter the file name in [File name] box.



4. Select an image size.

Select from [Normal(320×240 dots)] and [Wide(480×240 dots)].

5. Click the [Save] button.

- The panorama image is saved. The extension is ".mov".
- If the same file name exists in the folder specified, a confirmation message will be displayed. Click [Yes(Y)] button to overwrite, or else click the [No(N)] button.
- QuickTime must be installed in order to save in QuickTime VR format.

6. The panorama image edit screen is resumed when the image has been saved.

Changing Panorama Editor preferences

Change various Panorama Editor preferences here.

- You can change the panorama image edit screen display.
- You can set up stitch width (overlapping portion of the image) to create a new panorama file.

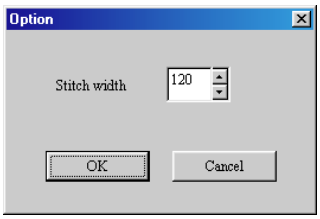
Enlarging/reducing display size during editing

1. **Select [View(V)] → [Enlarged display(L)].**
   - The vertical size of the image being edited will be changed to 480 dots.
   - To reduce the edit window, select [View(V)] → [Reduced display(S)]. The vertical size of the image being edited will be changed to 240 dots.

Setting stitch width

You can set the stitch width (overlapping portion of the image) to create a new panorama file.

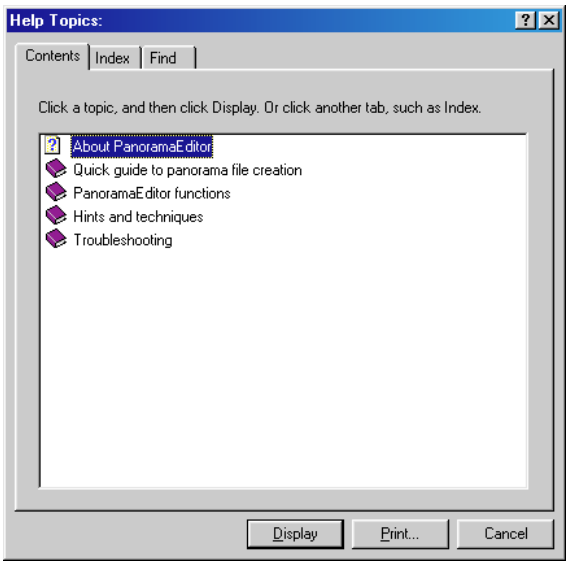
1. **Select [File(F)] → [Option(W)...].**
2. **Set stitch width.**



Note:
When a panorama image data taken using a CASIO LCD digital camera is called up in Panorama Editor, its stitch width is automatically determined and the setting is ignored.

Viewing help

1. Select [Help(H)] → [Using software(H)...].



2. Double-click the desired item.

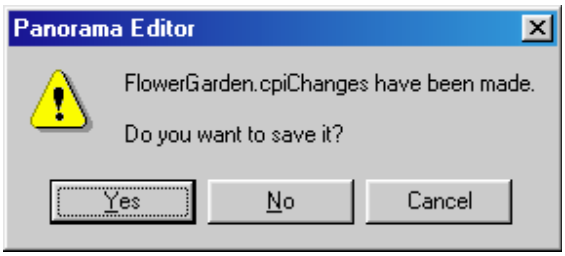
The item double-clicked will be opened.

Exiting from Panorama Editor

1. Select [File(F)] → [Exit(X)].

Panorama Editor program ends.

Note:
If you are editing a panorama image, you are requested to confirm whether to save the image data. If you click [Yes(Y)], the window to save the image will be displayed. If you click [No(N)], Panorama Editor program ends without saving the image data.



* *Data can only be saved in CPI format here.*