

Panasonic

DV STUDIO Version 3.1E

Operating Instructions



Please read this Operation manual well, and use it properly.
If required, please print out, and use.



MultiMediaCard™

<Contents>

DV STUDIO 3

Before starting DV STUDIO 3	3
Enjoying the DV STUDIO 3	3
Connecting	4
Starting the DV STUDIO 3	5
Closing the DV STUDIO 3	5
DV STUDIO 3 screen	6
Operation I (Picture acquisition)	7
Play Mode	7
Acquiring still pictures	9
Automatically acquiring still pictures	10
Setting up Autoacquire	11
Camera Mode	12
Acquiring still pictures from movie camera	13
Automatically acquiring still pictures from movie camera	14
Simple pictures	15
Search	16
Operation II (Image Operation and Editing)	17
Image display	17
Working with pictures	19
DV Image Setup	21
Changing the picture format	22
Enlarging picture	23
Search	24
Slide Show	26
Print	28
Useful information	30
Display bar	30
Context menu	32
Menu screen	33
Troubleshooting (Q&A)	35
Others	36

- In this manual, the Panasonic make digital video camera provided with the USB terminal is referred to as movie camera, and DV STUDIO Version 3.1E is referred to as DV STUDIO 3.
- For information about the version of the software you have, please check with [Help] >>> [About DV Studio3...] in DV STUDIO 3.
- In this software, the Tape Playback Mode of the Mode Dial on the Movie Camera is indicated as Play Mode.
- In this software, the Tape Recording Mode of the Mode Dial on the Movie Camera is indicated as Camera Mode.



DV STUDIO 3

Before starting DV STUDIO 3

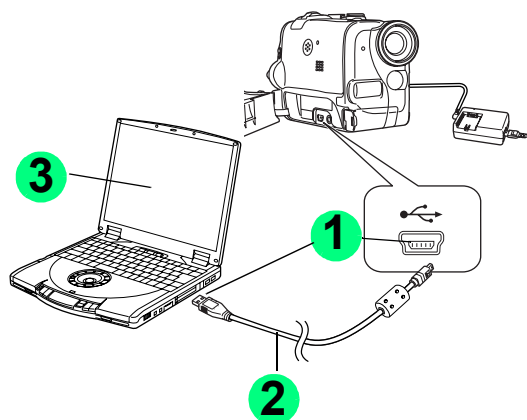
Enjoying the DV STUDIO 3

Before using the DV STUDIO 3, the sequence of operations is briefly explained.

1. Connecting the personal computer and movie camera (P4)

2. Acquiring pictures from movie camera into personal computer (P7, 12)

3. Make full use of DV STUDIO 3 (P17 ~ 29)



Select the method of picture acquisition based on the movie camera mode

- Tape Playback Mode (P7)
- Tape Recording Mode (P12)

A Displayed message content varies with the mode

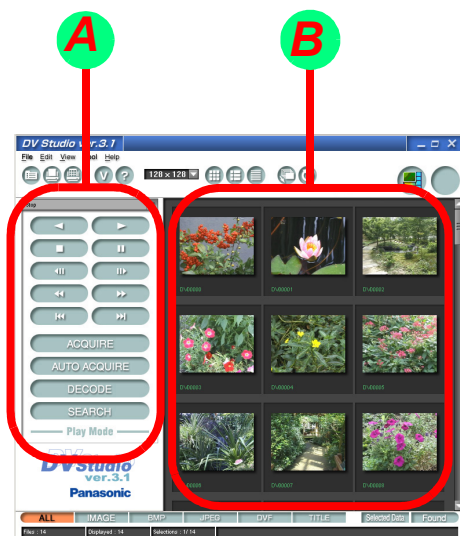
B Display the acquired picture

With Autoacquire function, the following type of picture acquisition is possible

- Acquiring Photoshot picture (P11)
- Acquiring at regular intervals (P11)
- Acquiring with [Fast Preview Mode] (P15)

Acquired picture can be activated as follows

- Picture can be converted into JPEG or BMP format, edited and processed. (P22)
- Picture displayed can be enjoyed in slide show. (P26)
- Picture or folder index can be printed. (P28, 29)
- Picture can also be activated as tape index. (P16)



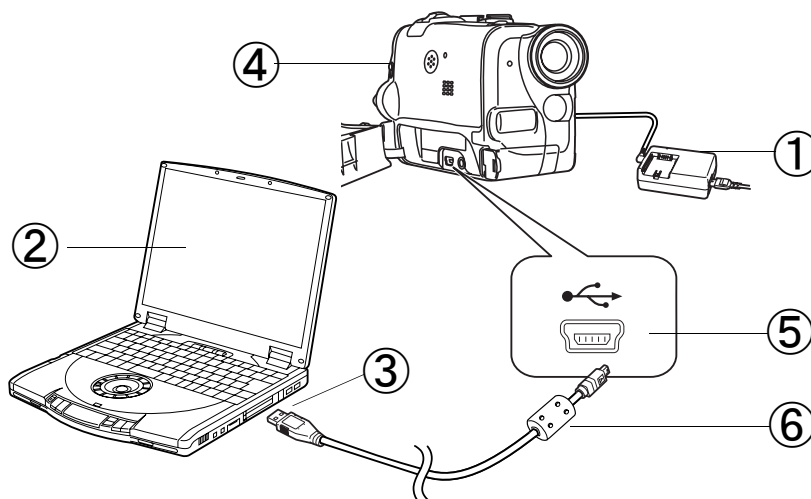


Connecting

Connecting

Your movie camera can be connected to a personal computer with USB terminal.

Please carry out the cable connection after installing the USB driver for the movie camera (on the CD-ROM supplied with the camera).



- ① AC adaptor
- ② Personal computer
- ③ USB Terminal
- ④ Movie camera

- ⑤ USB Terminal
- ⑥ USB Connection Cable

1. Personal computer and the movie camera are set up as shown in the picture

- Please do not disconnect USB Connection Cable while the operation light of Movie Camera is on. The software may not function properly. Further, there is also the risk of causing damage to the transmitted data.
- When using DV STUDIO 3, it is recommended to use AC adaptor as power source for movie camera. Furthermore, even when connecting to the Notebook personal computer, please do not use battery, but use only the AC adaptor.
- When the videocamera is switched to PC mode, the words "PC ACCESSING" will appear on the screen of the movie camera and it will no longer be possible to change mode. In this case, remove the connection cable and, after setting to Tape Playback Mode or Tape Recording Mode, connect it again.
- When the movie camera and the personal computer cannot be connected read [Troubleshooting (Q&A)]. ([P35](#))
- For details on connecting personal computer to digital movie camera, please refer to the Operating Instructions of the movie camera.
- For the operating environment, please see Installation Manual.



Starting the DV STUDIO 3

Starting the DV STUDIO 3

Before starting the DV STUDIO 3, establish the connection between the movie camera and the personal computer. For details, please refer to P4.

When the personal computer and the movie camera have been connected, please perform the operations as indicated below.

1. Click on [Start] >>> [Programs] >>> [Panasonic] >>> [DV Studio3] >>> [DV Studio3]

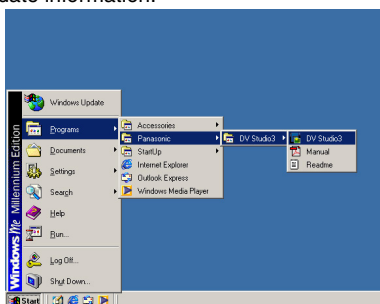
■ For Windows XP

Click on [Start] >>> [All Programs] >>> [Panasonic] >>> [DV Studio3] >>> [DV Studio3]

Before using for the first time, click on [Start] >>> [Programs] >>> [Panasonic] >>> [DV Studio3] >>> [Readme], and please read supplementary instructions or update information.

■ For Windows XP

Before using for the first time click on [Start] >>> [All Programs] >>> [Panasonic] >>> [DV Studio3] >>> [Readme], and please read supplementary instructions or update information.

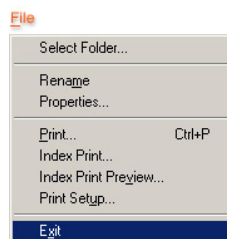


- During initial Start up, error messages may appear. Click on [Yes], and continue with the start up operation.
- If set up is done to create a shortcut icon on desktop during installation, it is also possible to start by double clicking on the DV Studio3 shortcut icon in the Desktop.

Closing the DV STUDIO 3

1. Click on [File] >>> [Exit]

DV STUDIO 3 may also be closed by clicking on the [x] in the top right-hand corner.





DV STUDIO 3 screen

DV STUDIO 3 screen



1 [DV Control Bar]

Operates the connected movie camera. Picture acquisition, or zooming of acquired picture and searching are done. (P7, 12)

2 [View Type Bar]

The type of picture displayed in the picture display section can be selected. Only the selected type of picture is displayed. (P31)

3 [Toolbars]

Various types of operations can be performed by clicking on relevant buttons. (P30)

4 Picture display section

BMP, JPEG, DVF, TITLE files in the folder are displayed by thumbnail. Other files are displayed as icons. It is also possible to display file data.

- If there are many files in the folder, it may take time for the thumbnails to be displayed.

5 [Status Bar]

Information such as the registered files number, display number, currently selected file number etc. is displayed. (P31)

- Apart from picture display section, it is possible to select Display/Hide from the [View] menu. (Displayed if a check mark is inserted.)
- Depending on the personal computer used, there may be instances where scrolling with the mouse wheel may not be possible in the picture display section.



Play Mode

Operation I (Picture acquisition)

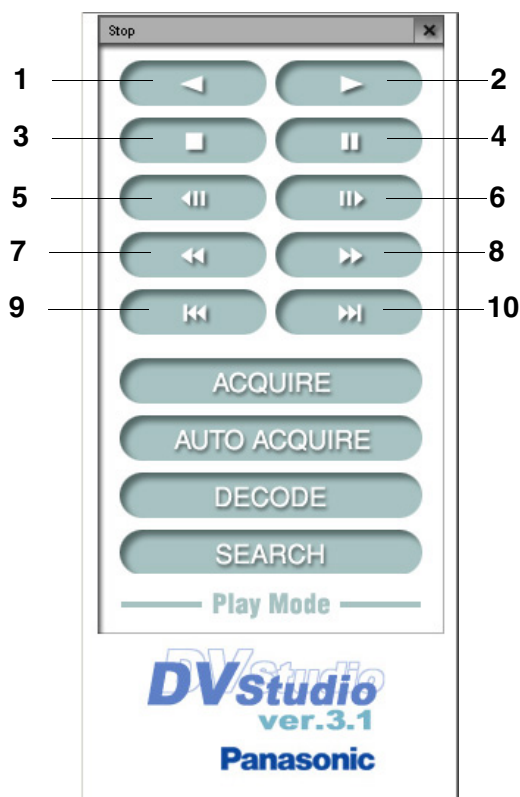
Play Mode

- In this software, the Tape Playback Mode of the Mode Dial on the Movie Camera is indicated as Play Mode.

Operation

A feature that does not correspond to the connected movie camera cannot be used.

- 1** Reverse Playback button [◀]
- 2** Playback button [▶]
- 3** Stop button [■]
- 4** Still button [■]
Stops the Tape Mode, and changes to Still Picture Playback Mode.
- 5** Reverse Still Advance button [◀■]
If pressed during still picture playback, the picture can be made to go back by one frame.
- 6** Still Advance button [■▶]
If pressed during still picture playback, the picture can be made to advance by one frame.
- 7** Rewind button [◀◀]
When clicking on this button during play, it turns to review playback; when clicking on this button during stop, it rewinds the tape.
- 8** Fast Forward button [▶▶]
When clicking on this button during play, it turns to cue playback; when clicking on this button during stop, it fast forwards the tape.
- 9** Reverse Photoshot Search button [◀◀■]
Searches for the Photoshot recorded picture towards the start.
- 10** Photoshot Search button [▶▶■]
Searches for the Photoshot recorded picture towards the end.





Play Mode

11 [ACQUIRE] button

Acquires picture from tape.

12 [AUTO ACQUIRE] button

Based on [Auto Acquire Settings], picture is acquired from tape automatically. (P11)

13 [DECODE] button

Picture is magnified and displayed. (P23)

(For magnification of simple pictures, please see P15)

It is also possible to magnify a picture by double clicking the picture. (Pictures in BMP, JPEG etc. formats are enlarged by relevant applications and displayed)

14 [SEARCH] button

Finds the recorded location in the tape for the picture that has been acquired to the personal computer. (Please insert the tape containing the recorded picture to be searched for in the movie camera)

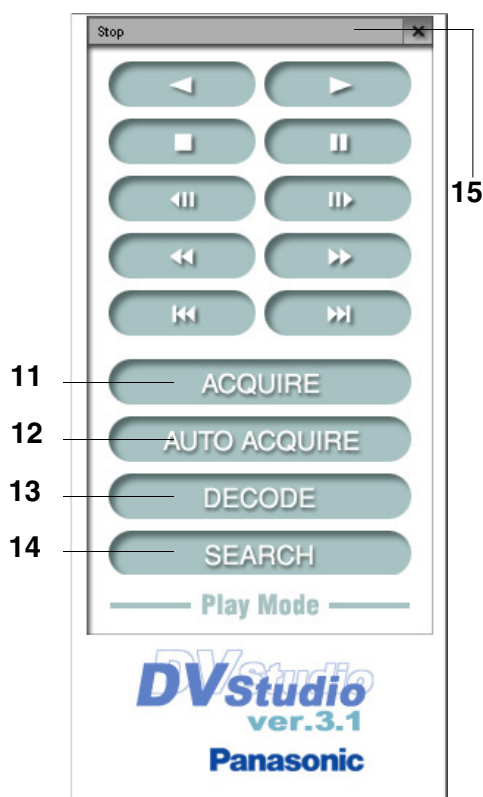
Begin tape playback from the picture location found.

For further information regarding the search function, please see P16.

15 Movie camera status display

Displays the status of the connected movie camera.

- The power supply to the movie camera is automatically cut off after a given time. If, even after the power supply is replaced, the movie camera and personal computer cannot be connected please refer to [Troubleshooting (Q&A)]. (P35)



Acquiring still pictures

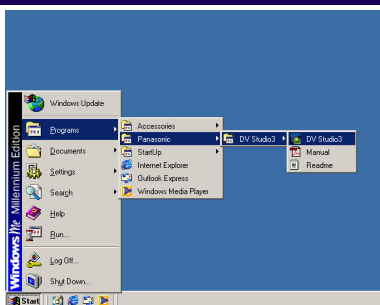
Acquiring still pictures

(Play Mode)

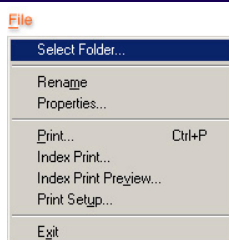
The pictures which are recorded in the movie camera tape are acquired into the personal computer as still pictures. The picture acquisition methods include the [ACQUIRE] method of acquiring and [AUTO ACQUIRE] method of automatic acquire for the selected picture.

Beforehand, please load the tape (which contains the picture to be acquired) into the movie camera, and connect to the personal computer.

1. Set the movie camera to Tape Playback Mode, and start the DV STUDIO 3



2. Click [File] >>> [Select Folder] in the menu, and select the folder in which the picture is to be saved

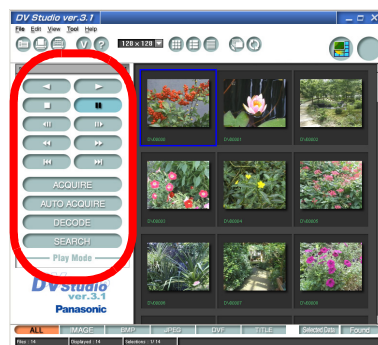


In the picture display section, the pictures in the selected folder are displayed.

- When the DV STUDIO 3 is started, select the previous opened folder. The pictures in the folder are displayed in the picture display section.
- To create a new folder, please see [P19](#).

3. The picture that is to be acquired is searched for with the operation button, and set to still picture playback (P7)

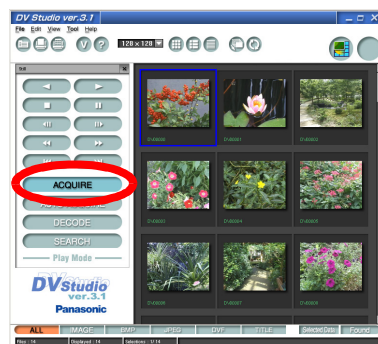
- The tape is played by clicking on the Playback button [▶], and at the location of the picture to be acquired, click on the Still button [■] and set to still picture playback.



4. Click on the [ACQUIRE] button

Picture acquisition begins.

If acquisition is finished, the acquired picture is displayed in the picture display section.



- To cancel acquisition, click on [Cancel].
- Information such as Date etc. in movie camera is not displayed.
- Acquisition of picture containing digital playback effect is not possible.
- Even with movie cameras provided with title function, acquisition is not possible for pictures in which title or illustration frame have been added to the picture in the tape.

In DV STUDIO 3, playback picture is not displayed. Please check with the finder or monitor in the movie camera.

Automatically acquiring still pictures

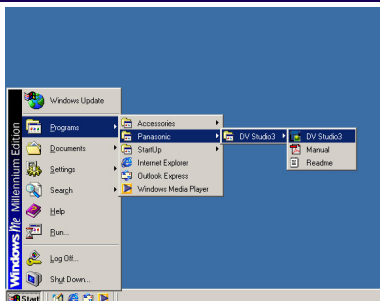
Automatically acquiring still pictures

(Play Mode)

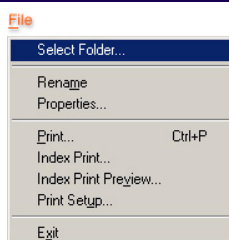
Picture can be acquired in the format set.

Beforehand, please load the tape (which contains the picture to be acquired) into the movie camera, and connect to the personal computer.

1. Set the movie camera to Tape Playback Mode, and start the DV STUDIO 3



2. Click [File] >>> [Select Folder] in the menu, and select the folder in which the picture is to be saved

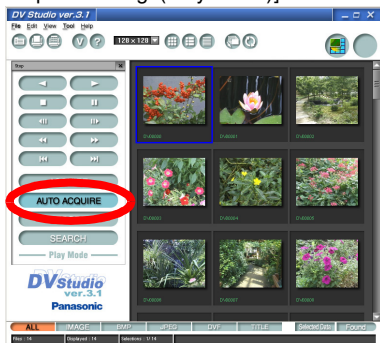


In the picture display section, the pictures in the selected folder are displayed.

- When the DV Studio 3 is started, select the previously opened folder. The pictures in the folder are displayed in the picture display section.
- To create a new folder, please see P19.

3. Click on [AUTO ACQUIRE] button

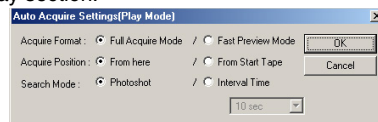
[Auto Acquire Settings(Play Mode)] screen is displayed.



4. Set up the automatic acquire (P11), click on [OK] button

As per the selection, the picture is automatically acquired.

The acquired picture is added in order to the picture display section.

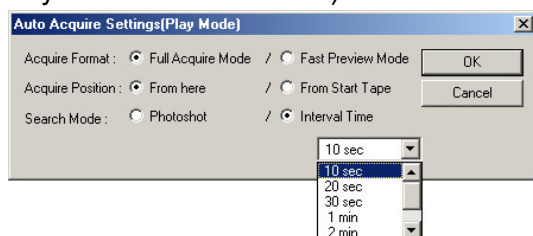


- During automatic acquire set up, if [From here] is to be chosen in [Acquire Position], first please play back the Still Picture to the location from where the acquisition will begin.
- To cancel acquisition, click on [Cancel].
- During the interval time slight errors may occur.
- On starting the automatic acquire, it is possible that the first picture cannot be acquired.
- Acquisition of picture containing digital playback effect is not possible.

Setting up Autoacquire

Setting up Autoacquire

(Play Mode/Camera Mode)



Dependent on the movie camera mode, the selectable items may be different.

[Acquire Format]:

[Full Acquire Mode]

Acquires the still picture standard data. Extension is .dvf.

[Fast Preview Mode]

Acquires brief picture data for display. Extension is .dcf.

For simple picture details, please see [P15](#).

- Regarding simple picture formats, it is possible to acquire picture in shorter time as simple image data for the purpose of display.
- If thumbnail picture is displayed in 96x96 or 128x128 size, the simple picture displayed is smaller than the other pictures.

[Acquire Position]:

[From here]

Autoacquiring of picture will start from the current tape position.

[From Start Tape]

After rewinding the tape fully, automatic acquire of picture begins.

[Search Mode]:

[Photoshot]

Searches for the picture taken by Photoshot, and performs acquisition.

[Interval Time]

At intervals specified by clicking on [▼], acquisition of picture occurs.

Play Mode can be selected from 10 seconds, 20 seconds, 30 seconds, 1 minute, 2 minutes, 3 minutes, 5 minutes.

Camera Mode can be selected from 1 minute, 2 minutes, 3 minutes, 5 minutes, 10 minutes.

(Slight errors may occur during interval time)

- Please set the [Counter Mode] in the movie camera menu to other than [Counter memory]. If it is in [Counter Mode], the tape may stop during acquire when the counter is at [0:00.00].



Camera Mode

Camera Mode

- In this software, the Tape Recording Mode of the Mode Dial on the Movie Camera is indicated as Camera Mode.

Operation

1 [Camera Still] button

Set the movie camera to Still Picture status.
On clicking again, returns to the shooting mode.

2 [Zoom In] button

On clicking, the picture displayed is enlarged.

3 [Zoom Out] button

On clicking, the picture is displayed in wide angle.

4 [ACQUIRE] button

Picture taken with movie camera is acquired.

5 [AUTO ACQUIRE] button

Based on the [Auto Acquire Settings], the picture taken with movie camera is automatically acquired. (P11)

6 [DECODE] button

Picture is magnified and displayed. (P23)
It is also possible to magnify a picture by double clicking the picture. (Pictures in BMP, JPEG etc. formats are enlarged by relevant applications and displayed)
It is not possible to magnify simple pictures in Camera Mode.

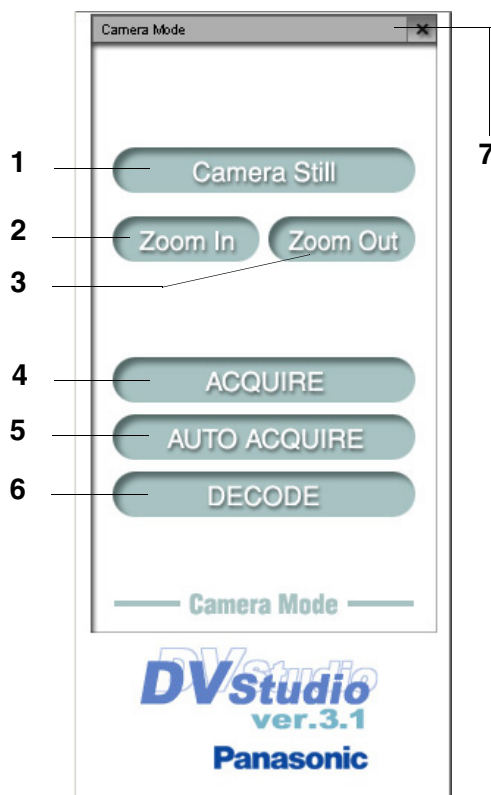
7 Movie camera status display

Displays the status of the connected movie camera.

- When acquiring pictures in this mode, please remove the tape and Memory Card from the movie camera.
If tape or Memory Card is present, the power supply to the movie camera is automatically cut off after a given time.
If, even after the power supply is replaced, the movie camera and personal computer cannot be connected please refer to [Troubleshooting (Q&A)]. (P35)
- In this mode, please set the Demo mode in the movie camera to [OFF].

(Note)

- Depending on the type of the movie camera, acquiring image in Camera Mode may not be possible, or [Zoom In]/[Zoom Out] feature may not function.





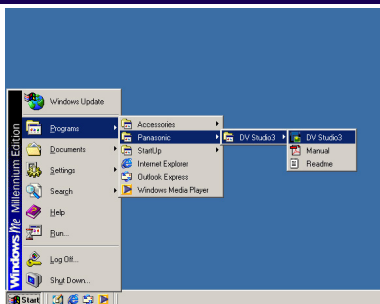
Acquiring still pictures from movie camera

Acquiring still pictures from movie camera

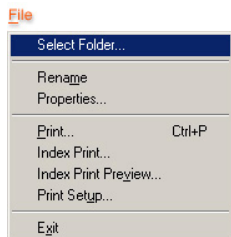
(Camera Mode)

If the movie camera is set to Tape Recording Mode, the pictures taken with the movie camera can be acquired as still pictures to the personal computer. Beforehand, connect movie camera and personal computer.

1. Set the movie camera to Tape Recording Mode, and start DV STUDIO 3



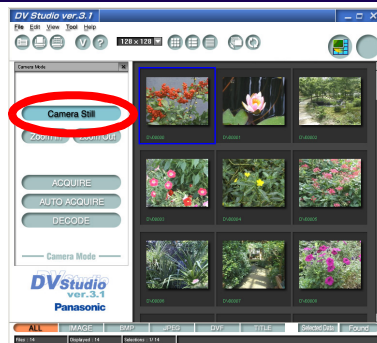
2. Click [File] >>> [Select Folder] in the menu, and select the folder in which the picture is to be saved



In the picture display section, the pictures in the selected folder are displayed.

- When the DV Studio 3 is started, select the previously opened folder. The pictures in the folder are displayed in the picture display section.
- To create a new folder, please see [P19](#).

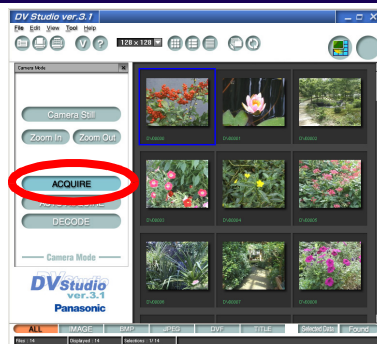
3. Get the picture taken in the movie camera, and click on [Camera Still] button



The picture currently being taken changes to Still Picture condition.

On clicking again, it returns to normal picture shooting.

4. Click the [ACQUIRE] button



Picture acquisition begins.

If acquisition is finished, the acquired picture is displayed in the picture display section.

- To cancel acquisition, click on [Cancel].
- Information such as Date etc. in movie camera is not displayed.
- When the Progressive Photoshot function in the movie camera is set to [Auto], pictures without Progressive Photoshot effect may be acquired depending on the condition. For details, please refer to the movie camera user manual.



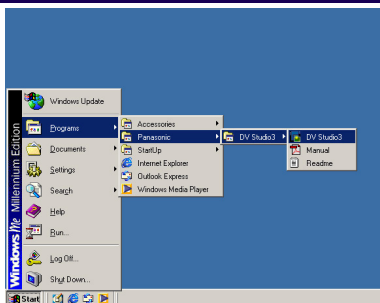
Automatically acquiring still pictures from movie camera

Automatically acquiring still pictures from movie camera

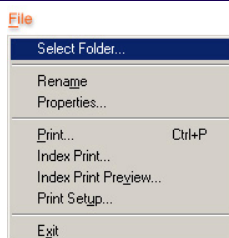
(Camera Mode)

Pictures taken with the movie camera can be acquired as still pictures to the personal computer. Beforehand, connect movie camera and personal computer.

1. Set the movie camera to Tape Recording Mode, and start DV STUDIO 3



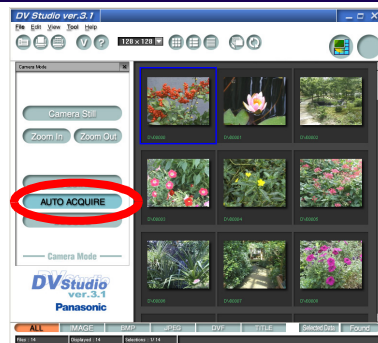
2. Click [File] >>> [Select Folder] in the menu, and select the folder in which the picture is to be saved



In the picture display section, the pictures in the selected folder are displayed.

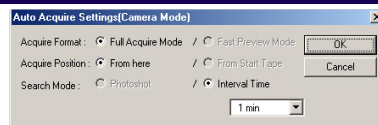
- When the DV Studio 3 is started, select the previously opened folder. The pictures in the folder are displayed in the picture display section.
- To create a new folder, please see [P19](#).

3. Display the picture in the movie camera. Click on the [AUTO ACQUIRE] button



[Auto Acquire Settings(Camera Mode)] screen is displayed.

4. Set the [Interval Time] and (P11) click on the [OK] button

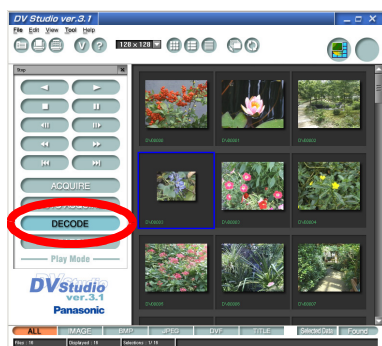


At set intervals of time, picture is acquired automatically. The acquired picture is added in order to the picture display section.

- For details on setting up of autoacquire, please see [P11](#).
- To cancel acquisition, click on [Cancel].

Simple pictures

Simple pictures



If [Fast Preview Mode] is selected with automatic acquire, it is possible to acquire pictures more rapidly as simple image data for the purpose of display.

Regarding the acquired simple image data, if [DECODE] button on the [DV Control Bar] is clicked, the location in the tape is searched on the movie camera, and the acquisition begins as standard image.

The image, after the acquisition, is displayed in enlarged size.

(Even if the simple image is double-clicked, the image, after acquisition is still displayed in enlarged size)

- Please insert the tape, containing the recorded image that is to be displayed in enlarged size, into the movie camera.
- There may be instances wherein simple pictures displayed are smaller than other images.
- The extension for simple pictures is .dcf.
- Please do not change the names of simple pictures. Enlargement or search may become impossible.
- To find standard images in Fast Preview Mode, for distinguishing recorded date and time, if the built-in clock was not configured at the time of shooting with the movie camera, decoding from Fast Preview Mode may not be possible.
- For enlarging pictures other than simple picture formats, please see [P23](#).

Simple picture data will get deleted if the selected filter is modified or if DV STUDIO 3 is closed. For the required picture, please click on the [DECODE] button, acquire with the standard picture and restore.

- Simple pictures are not deleted even if tape is removed.

Search

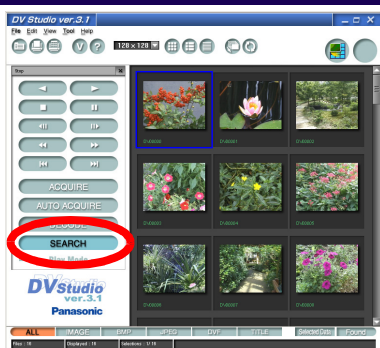
Search

The original recording location of the picture that has been acquired to the personal computer can be searched for in the tape containing the picture. It can be activated as the tape index.

1. Select the picture to be found

Insert the tape containing the recorded picture to be searched for in the movie camera and set the Movie Camera to Tape Playback Mode.

2. Click on the [SEARCH] button on the DV Control Bar



The search for the picture location begins.

For Play Mode, tape playback begins from the location of the picture searched for.

- Only one picture can be searched for at a time.
- To cancel search, click on [Cancel].
- If the acquired pictures (DVF, DCF format) are moved or copied to a different folder, search cannot be done.
- For tapes with unrecorded portion, search feature may not function properly.
- If the status of the tape is changed with respect to that at the time of acquisition, then the search feature may not function properly.
- [Search] may also be selected from the context menu by right-clicking on the picture.

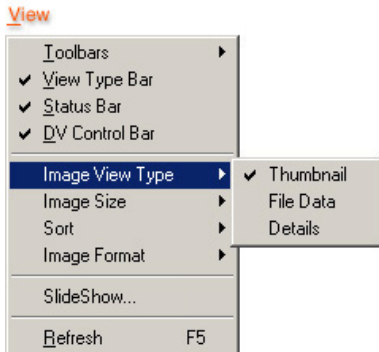


Image display


Operation II (Image Operation and Editing)

Image display

Changing the display format of the picture display section


1. Select the display format from [View] >>> [Image View Type]**[Thumbnail]:**

Thumbnail and file name are displayed.

- It is also possible to display by clicking on [] in the Toolbar.


[File Data]:

Picture and file name, file size, type, latest date modified, size of the picture, and number of colours used in the picture are displayed.

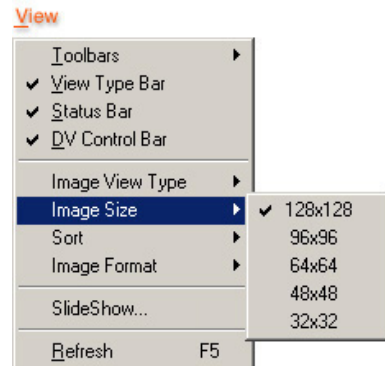
- It is also possible to display by clicking on [] in the Toolbar.

[Details]:

File name, size, type, time of modification, picture data (picture size, number of colours used in the picture) are summarily displayed.

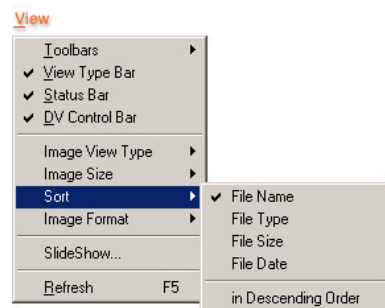
- It is also possible to display by clicking on [] in the Toolbar.

Changing the display size of thumbnail

1. Select the display size from [View] >>> [Image Size]

- 5 types of sizes can be selected.
- Size can also be selected by clicking on [▼] on the Toolbar.

Changing the arrangement of pictures

1. Select the display order from [View] >>> [Sort]

The arrangement of the order of display changes.

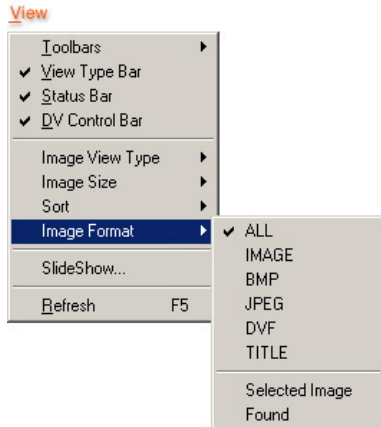
- Selection can be made from [File Name], [File Type], [File Size], [File Date], [in Descending Order].
- By checking on [in Descending Order], the chosen display order is displayed in descending order.



Image display

Display only selected picture

1. Select the image format for display from [View] >>> [Image Format]



The pictures of the selected format only are displayed.

[ALL]:

Displays the whole picture. (Pictures that can not be displayed in thumbnail are displayed in picture image)

[IMAGE]:

Displays pictures which can be displayed in thumbnail format in DV STUDIO 3.

[BMP]:

Displays pictures of BMP format (file extension .bmp).

[JPEG]:

Displays pictures of JPEG format (file extension .jpg).

[DVF]:

Displays pictures of video format. (saved in this format if acquired with DV STUDIO 3)

[TITLE]:

Displays the title picture (file extension .TTL) of the movie camera.

[Selected Image]:

Displays the selected picture.

[Found]:

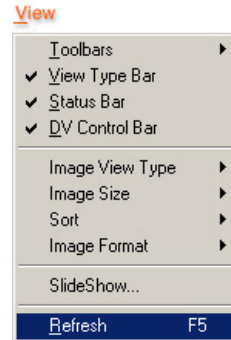
Displays the picture found during search.

- Display type can also be selected by clicking on the button [View Type Bar] (P31).

Refreshing folder display

After copying or moving a picture, please refresh the folder display.

1. Click on [View] >>> [Refresh]



- Refreshing can be done by clicking on [🔄] on the Toolbar.

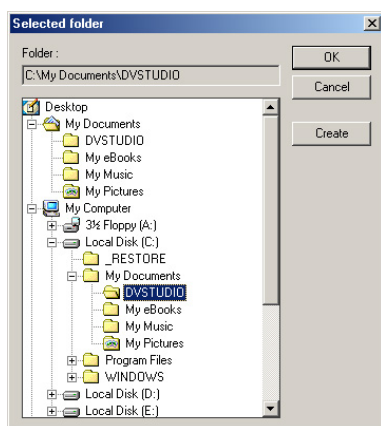
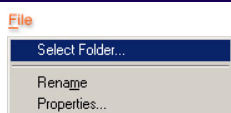


Working with pictures

Working with pictures

Select the picture

1. Click on [File] >>> [Select Folder], select the folder containing the picture to be displayed on the [Selected Folder] screen, and click on the [OK] button



The list of pictures in the folder is displayed in the picture display section.

2. Click on the desired picture to select it

The selected picture will be enclosed in a frame.

Selecting multiple pictures:

Selected by holding the [Ctrl] key and clicking.

Selecting a series of multiple pictures:

Selected by holding the [Shift] key, and click on the first and last picture.

Selecting all displayed pictures:

Click on [Edit] >>> [Select All] in the menu.

Cancelling the selection:

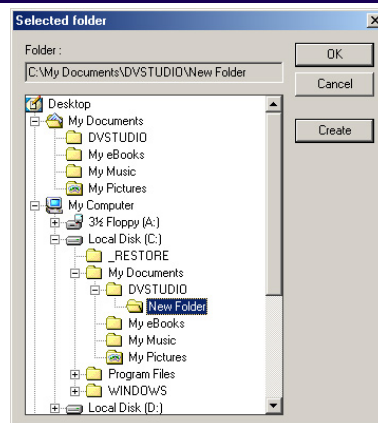
Click on [Edit] >>> [Deselect All] in the menu.

Inverting selected and unselected pictures:

Click on [Edit] >>> [Invert Selection] in the menu.

Create new folder

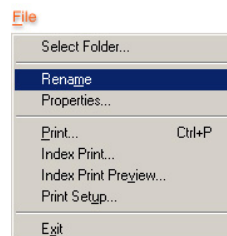
1. Click on [File] >>> [Select Folder], and on the [Selected Folder] screen, click [Create] button



A new folder is created at the specified location.

Change the picture name

1. Select the picture whose name is to be changed, and click on [File] >>> [Rename] from the menu



2. Enter the file name, and click on [OK] button

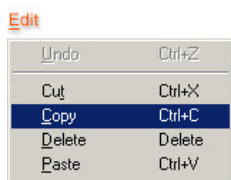
- It is also possible to change the picture name by right-clicking on the picture, and select [Rename] from the context menu.
- It is also possible to change the file name by clicking on the picture file name displayed in the picture display section.



Working with pictures

Copying the picture to a different folder

1. Select the picture to be copied, and click on [Edit] >>> [Copy] from the menu



2. Select the target copy folder with [File] >>> [Select Folder], and click on [OK] button

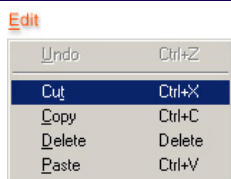
Pictures in the selected folder are displayed.

3. Click on [Edit] >>> [Paste]



Moving a picture to a different folder

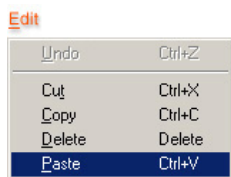
1. Select the picture to be moved, and click on [Edit] >>> [Cut] from the menu



2. Select the target folder for moving with [File] >>> [Select Folder], and click on [OK] button

Pictures in the selected folder are displayed.

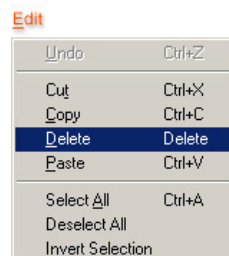
3. Click on [Edit] >>> [Paste]



- The moved picture cannot be returned to the original folder by performing [Edit] >>> [Undo].

Deleting a picture

1. Select the picture to be deleted, and click on [Edit] >>> [Delete] from the menu



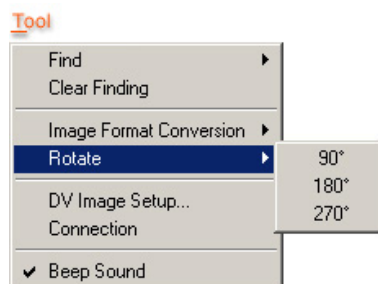
A message confirming file deletion is displayed.

2. Click on [Yes]

- Deletion can also be done by pressing the [Delete] key.
- Deleted images are moved into [Recycle Bin] in Windows, and cannot be recovered by performing [Edit] >>> [Undo].

Rotating a picture

1. Select the picture to be modified by clicking on it, then select the direction of rotation or angle from [Tool] >>> [Rotate] from the menu



Rotates the pictures to the right by 90°, 180° or 270°.

- It is also possible to right-click on the picture, and select [Rotate] from the context menu.
- If a DVF format picture is rotated, it is created in BMP format.
- When the image is rotated, the rotated image is saved as a new file.
- If a JPEG format picture is rotated, the quality of the picture may deteriorate.
- Information on time and date in which the images were filmed in JPEG format, cannot then be maintained in the new image that was rotated.

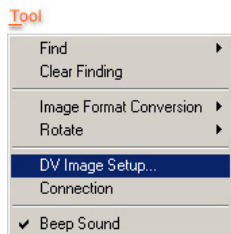


DV Image Setup

DV Image Setup

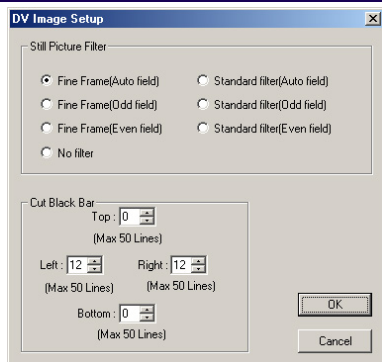
Conversion of a picture acquired in the personal computer into BMP or JPEG format can be done using the following procedure.

1. Select [Tool] >>> [DV Image Setup] from menu



[DV Image Setup] screen is displayed.

2. Set up as required, and click on [OK] button



[Still Picture Filter]:

The notches formed in the outline of the picture when a moving picture is regenerated as a still picture and acquired are corrected. This is effective when converting from DVF picture format.

[Fine Frame]

Detect drift between 2 fields in 1 frame and correct so as to minimize the effect in case of drift. If the drift is less, the resolution of the frame is preserved by using 2 fields. This is the normal setting.

[Standard filter]

Irrespective of drift in the picture, the drift is corrected based on the top and bottom line data.

If set to [No filter], pictures having drifts are not correct and it may become noticeable.

[Cut Black Bar]:

A black frame may appear in the acquired picture at top and bottom right and left. These black frames can be erased by dot units. Frame correction values can be entered from 0 to 50.

Useful when converting the format of the image from photoshot DVF format, or when enlarging the DVF format image.



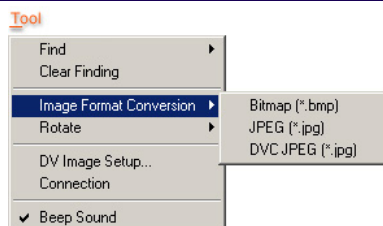
Changing the picture format

Changing the picture format

Changes the format of the selected picture.

Picture formats that can be changed are only the BMP, JPEG, and DVC formats.

1. Click on the picture to be changed and select the desired format from [Tool] >>> [Image Format Conversion] from the menu



The converted picture is displayed in the picture display section.

- It is also possible to select multiple pictures. (P19)

DVC format:

Format of the pictures acquired from movie camera.
The file size is about 1/7 of BMP.

BMP format:

Usual style of format of pictures used in Windows.

JPEG format:

A Data compression format being generally widely used in digital camera.

DVC JPEG format:

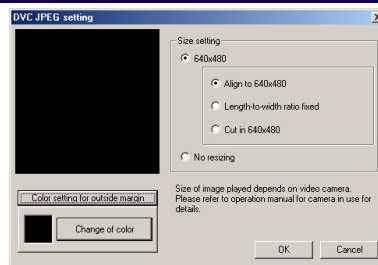
JPEG format which can be played in all Panasonic movie cameras provided with card slot.

- It is also possible to select by right-clicking on the picture, and selecting [Image Format Conversion] from the context menu.

[DVC JPEG setting]

When converting images that are not of 640x480 size to DVC JPEG format, [DVC JPEG setting] screen is displayed.

1. After setting up [Size setting] and [Color setting for outside margin], click on [OK] button



[Size setting] for images larger than 640x480

[640x480]:

Converts image to 640x480.

[Align to 640x480]

Shrinks pictures to 640x480 size.

[Length-to-width ratio fixed]

The picture is shrunk to 640x480 size while maintaining the height-to-width ratio, and outside the 640x480 margin, blank space is inserted. The colour of the blank space can be set by clicking on the [Change of color] button.

[Cut in 640x480]

Cuts the middle portion of the image to the standard 640x480 size.

[No resizing]:

Change in size does not occur.

[Size setting] for images smaller than 640x480

[640x480]:

Converts image to 640x480.

[Align to 640x480]

Decodes to 640x480.

[Length-to-width ratio fixed]

The picture is enlarged to 640x480 size while maintaining the height-to-width ratio, and outside the 640x480 margin, blank space is inserted. The colour of the blank space can be set by clicking on the [Change of color] button.

[Cut in 640x480]

Cannot be selected.

[No resizing]:

Change in size does not occur.

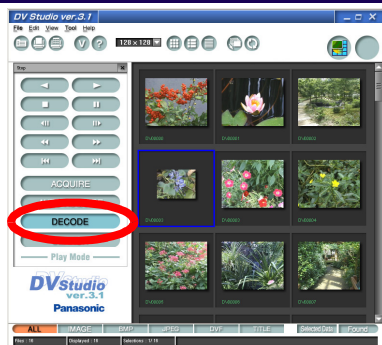


Enlarging picture

Enlarging picture

On selecting the picture and clicking the [DECODE] button, the picture is displayed in enlarged size. It is possible to change the save format (to BMP or JPEG format) or change the save location of the picture that has been displayed in enlarged size.

1. Select the picture to be enlarged by clicking on it, and click on the [DECODE] button on the DV Control Bar



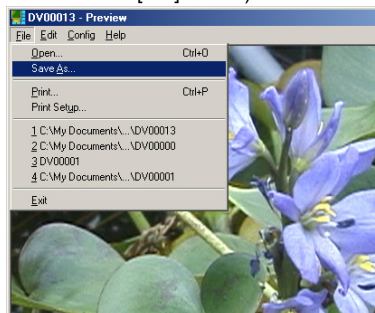
[Preview] Window opens, and the enlarged picture is displayed.

- It is also possible to select multiple pictures. (P19)
- If the acquired simple pictures (DCF format) are moved or copied to a different folder, enlarge cannot be done.
- Operation of the [DECODE] button and double clicking on the picture result in same operation. Both activate the related application, display enlarged size (in case of BMP and JPEG formats). In case of DVF format picture files, [Preview] is displayed in enlarged size.
- Pictures that can be enlarged are those of DVF, BMP, and JPEG formats. If a simple picture (DCF format) is selected and the [DECODE] button is clicked, the location in the tape or Card in which the original picture was recorded by the movie camera is searched, and after acquiring as the standard picture (DVF format), is displayed in enlarged size. (P15)

Saving picture under different name

Select [File] >>> [Save As] from the [Preview] screen menu to display picture save screen, choose the folder in which to be saved, the file name in which to be saved and the format for saving, and click on the [Save] button.

(When selecting the JPEG format, [Jpeg Option] screen for specifying the picture quality is displayed. Specify the picture quality, and click on the [OK] button)



- When changing multiple files to the same save format, [Image Format Conversion] function is convenient. (P22)

[Preview] Screen menu

[File] menu

[Open]

Opens a new file.

[Save As]

Saves the picture.

[Print]

Prints the picture.

[Print Setup]

Set up the printer for printing.

[Exit]

Closes the Preview screen.

[Edit] menu

[Undo]

Cancels the immediately previous operation.

[Copy]

Copies pictures.

[Select All]

Selects all pictures.

[Resize]

Changes the display size of the pictures.

[Config] menu

Please refer [DV Image Setup] (P21).

[Help] menu

Displays the version information of the Preview.



Search

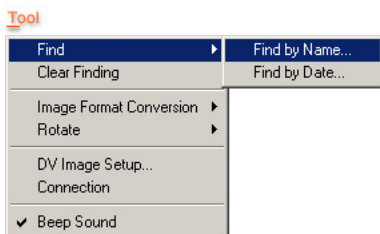
Search

Searches by file name

Searches for the file according to the specified search condition.

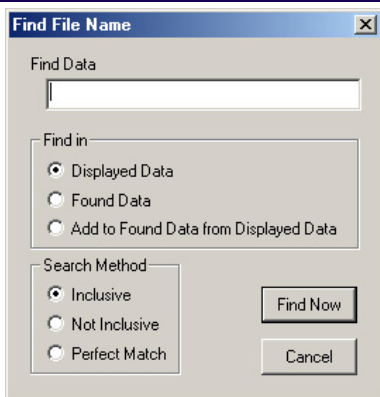
Selects and displays the folder in which the file searched for has been saved.

1. Click on [Tool] >>> [Find] >>> [Find by Name] from the menu



[Find File Name] screen is displayed.

2. Specify various search conditions, and click on the [Find Now] button



[Find Data]:

Input the name of the file to be found.

[Find in]:

Specify the target file for search.

[Displayed Data]

Start search from the picture currently displayed.

[Found Data]

Files of search result are further searched with the subject.

[Add to Found Data from Displayed Data]

Search from the picture currently displayed, and add to earlier search result.

[Search Method]:

Specify the method of search

[Inclusive]

Search for the text included in the search data.

[Not Inclusive]

Search for the text not included in the search data.

[Perfect Match]

Search for exact match with the text included in the search data.

The search results are cleared by selecting [Tool] >>> [Clear Finding]. Go back to the displayed ordinary picture range, select the type of picture in the [View Type Bar] (P31) at the bottom of the screen.



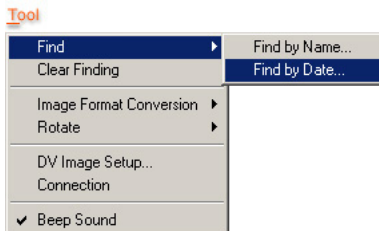
Search

Search based on date

Searches for the file by specified date or as per corresponding search condition.

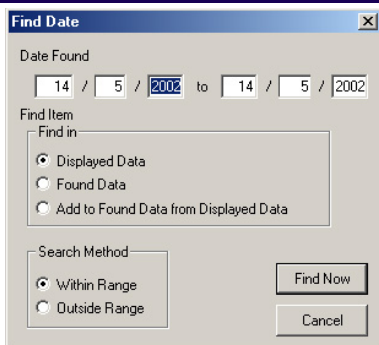
Selects and displays the folder in which the file searched for has been saved.

1. Click on [Tool] >>> [Find] >>> [Find by Date] from the menu



[Find Date] screen is displayed.

2. Specify various search conditions, and click on the [Find Now] button



[Date Found]:

Input the date range of the file for searching.

[Find in]:

Specify the target file for search.

[Displayed Data]

Start search from the picture currently displayed.

[Found Data]

Files of search result are further searched with the subject.

[Add to Found Data from Displayed Data]

Search from the picture currently displayed, and add to earlier search result.

[Search Method]:

Specify the method of search

[Within Range]

Search by the date range enter using [Date Found].

[Outside Range]

Search beyond the date range enter using [Date Found].

The search results are cleared by selecting [Tool] >>> [Clear Finding]. Go back to the displayed ordinary picture range, select the type of picture in the [View Type Bar] (P31) at the bottom of the screen.



Slide Show

Slide Show

The selected pictures are displayed in a slide show on the personal computer screen (each picture is briefly displayed in sequence).

Pictures that can be used in a slide show are of BMP, JPEG, and DVF formats.

1. Click on [View] >>> [SlideShow] from the menu



[Read Image Setup] screen is displayed.

- It is also possible to start the Slide Show by clicking on [] in the Toolbar.

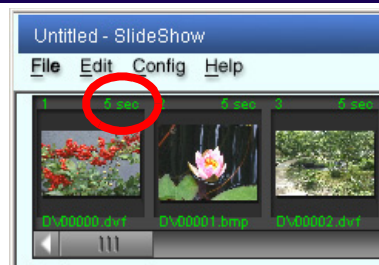
2. Select the image to read, and click on [OK] button



[SlideShow] screen is displayed.

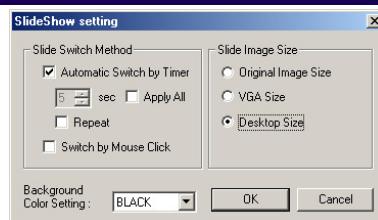
- To set up the selected image as read image, please select the picture beforehand.

3. Set the play time on the [Set play time] screen by click on the seconds for display at the top right for each image, and click on [OK] button



- For details about configuring play time, please see [P27](#).

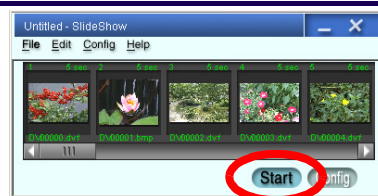
4. Click on the [Config] button on the [SlideShow] screen to display the [SlideShow setting] screen, configure as required, and click on [OK] button



Return to [SlideShow] screen.

- For details about configuring the Slide Show, please see [P27](#).

5. Click on the [Start] button



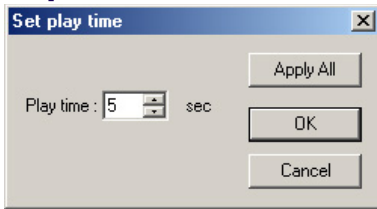
Slide show begins.

- To close the slide show, click on [x] in the top right-hand corner.
- Pictures from the picture display section can be also added by dragging and dropping on to the [SlideShow] screen.
- The order can be changed by dragging and dropping the pictures in the [SlideShow] screen.



Slide Show

[Set play time] screen



[Play time]:

The play time is setup by clicking on [▲], [▼].

[Apply All]:

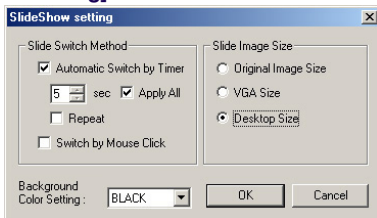
The setup play time is applied to all pictures.

[Cancel]:

Cancel the setting.

- Depending on the size of the picture displayed, the picture may be displayed longer than the play time set.
- Play time that can be set up for the slide show is 0 - 99 seconds.

[SlideShow setting] screen



[Slide Switch Method]:

Sets up method of interchanging pictures in slide show.

[Automatic Switch by Timer]

Pictures change automatically at specified time intervals.

[Repeat]

By putting a check mark here, the slide show is repeated.

[Apply All]

When setting identical play times for all pictures, set the time by putting a check mark here.

[Switch by Mouse Click]

Pictures change with mouse click. Right-click the mouse to display next slide, and Left-click the mouse to display the previous slide.

[Slide Image Size]:

Select the size of picture for slideshow.

[Original Image Size]

Slideshow is done in the original size of the picture.

[VGA Size]

Slideshow is done in the VGA size (640x480).

[Desktop Size]

Slideshow is done in the desktop size.

[Background Color Setting]:

By clicking on [▼], the background colour during slide show display is chosen.

Selection can be made from 4 colours, namely, [BLACK], [WHITE], [LIGHT GRAY], [GRAY].

[SlideShow] Screen menu

[File] menu

[Add]

Pictures are added to the SlideShow.

[Exit]

Closes the SlideShow screen.

[Edit] menu

[Undo]

Cancels the immediately previous operation.

[Cut]

Cuts the picture.

[Delete]

Deletes the picture. (Image file cannot be deleted)

[Paste]

The picture that is cut can be pasted to the desired location.

[Config] menu

Displays the [SlideShow setting] screen.

[Help] menu

Displays the version information of the SlideShow.



Print

Print

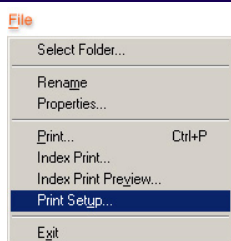
Printing a picture

Selected picture is printed.

1. Select the picture to be printed



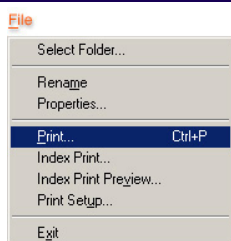
2. Click on [File] >>> [Print Setup] from menu



Set up the printer.

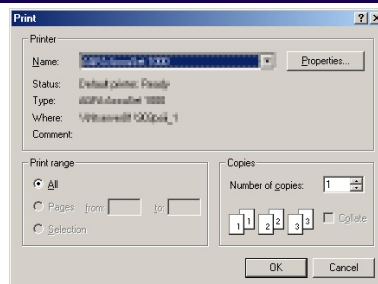
- The printer set up varies with the printer. Please refer to Printer manual.

3. Click on [File] >>> [Print] from menu



Printing set up screen is displayed.

4. Set up as required and click on [OK] button



Printing takes place.

- Printing can also be done by clicking on [] in the Toolbar.
- The printed size will vary with the size of the paper.
- Due to small picture display data for simple pictures, the picture quality may become grainy if printed.

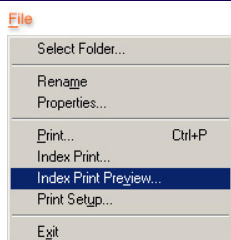


Print

Printing display picture index (Index Print)

Recorded pictures that are being displayed are printed in index format.

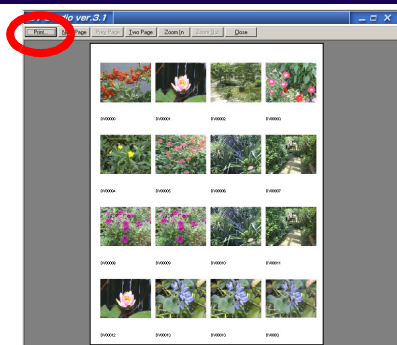
1. Display the pictures for index printing, and click on [File] >>> [Index Print Preview] in the menu



Index preview screen is displayed.

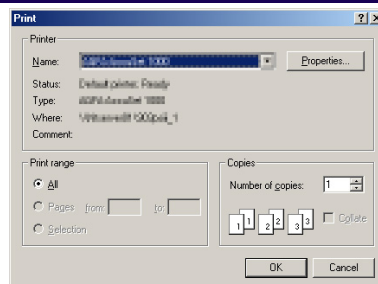
- Click on the [View Type Bar] at the bottom of the screen to display the picture to be printed.
- When not confirming the print contents displayed in the preview screen, select [File] >>> [Index Print].

2. Confirm the preview screen, and click on [Print]



[Print] screen is displayed.

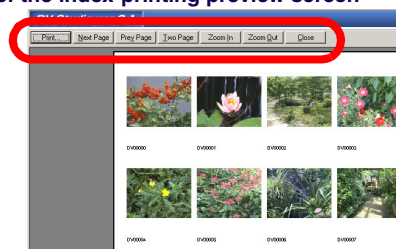
3. Set up as required and click on [OK] button



Printing takes place.

- The printer set up varies with the printer. Please refer to Printer manual.
- It is also possible to print the index by clicking on [] in the Toolbar.
- Due to small picture display data for simple pictures, the picture quality may become grainy if printed.
- Files other than image files are printed as icons.

Menu of the index-printing preview screen



[Print]:

Prints the index.

[Next Page]:

Displays next page.

[Prev Page]:

Displays previous page.

[One Page] / [Two Page]:

Displays as 1 page (or 2 pages).

[Zoom In]:

Magnifies picture display.

[Zoom Out]:

Decreases picture display.

[Close]:

Closes the index print preview screen.

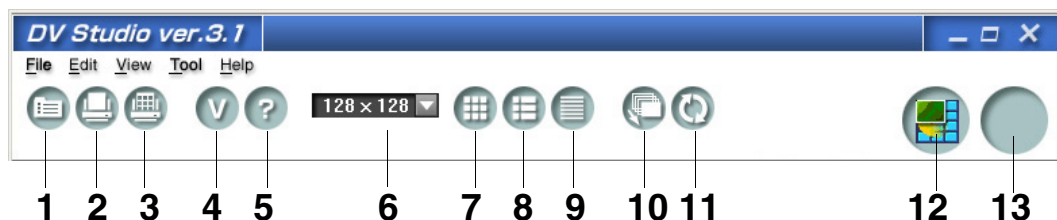
Display bar

Useful information

Display bar

[Toolbars]

To display the Toolbar, enter a check mark in [View] >>> [Toolbars]. To hide the bar, remove the check mark.



• Standard Bar

- 1** Displays file data and image data for the selected picture. (The camera information can be displayed only in DVF files. However, the camera information cannot be displayed on the model without REC DATA function.)
- 2** Prints the selected picture. (P28)
- 3** Prints the displayed thumbnail image in index format. (P29)

• Help Bar

- 4** Displays the DV STUDIO 3 version information.
- 5** Starts the handle instructions in PDF format (the present manual) of DV STUDIO 3.

• View Format Bar

- 6** Thumbnail display of picture is set up by clicking on [▼]. (P17)
- 7** Picture is displayed in thumbnail form. (P17)
- 8** Picture is displayed in the form of thumbnail and data. (P17)
- 9** Detailed information of the format is displayed. In this format, picture is not displayed. (P17)

• Tool Bar

- 10** Starts the Slideshow. (P26)
- 11** The display contents of the picture display section (folder display) is refreshed with latest information. (P18)

• Launcher Bar

- 12** The icon of the application software that is to be registered is dragged and dropped. During initial setup, Preview Version 1.12E has been setup. Different applications can be registered.
- 13** The icon of the application software that is to be registered is dragged and dropped.

Display bar

[View Type Bar]

The type of picture displayed in the picture display section can be selected.



ALL:

Displays the whole picture. (Pictures that can not be displayed in thumbnail are displayed in picture image)

IMAGE:

Displays pictures which can be displayed in thumbnail form in DV STUDIO 3.

BMP:

Displays pictures of BMP format (file extension .bmp).

JPEG:

Displays pictures of JPEG format (file extension .jpg).

DVF:

Displays pictures of video format.

TITLE:

Displays title picture of movie camera (file extension .TTL).

Selected Data:

Displays the selected picture.

Found:

Displays the picture found during search.

[Status Bar]

Information such as the registered picture files number, display number, currently selected file number etc. is displayed.



Files:

Displays the number of files saved in the selected folder.

Displayed:

Displays the number of files in the picture display section.

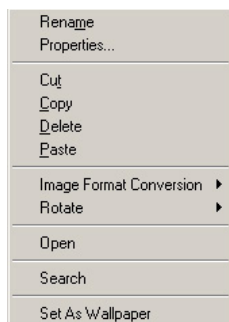
Selections:

Displays the number of selected files among the displayed files.

Context menu

Context menu

When the mouse pointer is on the picture displayed in the picture display section, the context menu is displayed by right-clicking.



[Rename]:

Changes the file name of the picture. (P19)

[Properties]:

Displays the file information and picture data of the picture. (The camera information can be displayed only in DVF files. However, the camera information cannot be displayed on the model without REC DATA function.) (P33)

[Cut]:

Cuts the picture. (P20)

[Copy]:

Copies the picture. (P20)

[Delete]:

Deletes the picture. (P20)

[Paste]:

Picture that is cut or a copied picture can be pasted to the desired location. (P20)

[Image Format Conversion]:

Converts the image format. (P22)

[Rotate]:

Rotates the pictures to the right by 90°, 180° or 270°. (P20)

[Open]:

Opens the picture with a related application.

[Search]:

Search the recorded location of the picture in the memory card and the tape. (P16)

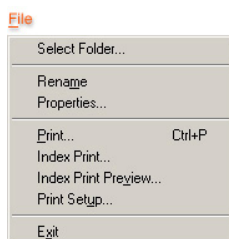
[Set As Wallpaper]:

Picture becomes a wallpaper on the desktop of the personal computer.

Menu screen

Menu screen

[File] menu



[Select Folder]:

To change the displayed picture, or the folder in which the picture has been saved, select the folder in the [Selected Folder] screen.

By clicking [Create] a new folder is created. (P19)

[Rename]:

To change the file name of the selected picture, enter the file name in the [Rename] screen. (P19)

[Properties]:

Displays the file information and picture information for the selected picture. (The camera information can be displayed only in DVF files. However, the camera information cannot be displayed on the model without REC DATA function.)

[Print]:

Prints the selected picture. (P28)

[Index Print]:

Currently displayed registered picture is printed in index form. (P29)

[Index Print Preview]:

Displays the print image of the index print. (P29)

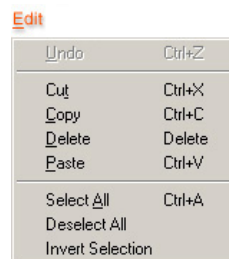
[Print Setup]:

Set up the printer for printing. (P28, 29)

[Exit]:

Closes the DV STUDIO 3. (P5)

[Edit] menu



Edits the picture displayed in the picture display section.

[Undo]:

Cancels the immediately previous operation.

[Cut]:

Cuts the selected picture. To move the location of the picture, the cut picture is pasted in the desired location. (P20)

[Copy]:

Copies the selected picture. (P20)

[Delete]:

Deletes the selected picture. The picture that has been deleted is shortened and moved. (P20)

[Paste]:

Picture that is cut or a copied picture can be pasted to the desired location. (P20)

[Select All]:

All the displayed pictures are selected. (P19)

[Deselect All]:

Specified selection is completely cancelled. (P19)

[Invert Selection]:

Selected and non-selected picture are inverted. (P19)

Menu screen

[View] menu



[Toolbars]:

Displayed Toolbar can be selected. Displayed if a check mark is inserted. (P30)

[View Type Bar]:

On inserting the check mark, displays the [View Type Bar]. (P31)

[Status Bar]:

On inserting the check mark, displays the [Status Bar]. (P31)

[DV Control Bar]:

On inserting the check mark, displays the [DV Control Bar]. (P6)

[Image View Type]:

Selects the method of image display. (P17)

[Image Size]:

Selects the thumbnail picture size. (P17)

[Sort]:

Sorts the image according to the selection condition. (P17)

[Image Format]:

Selects the type of image for display, and displays only the selected type of images. (P18)

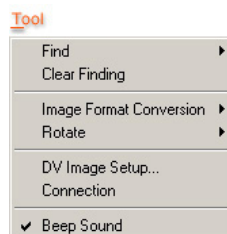
[SlideShow]:

Starts the Slideshow. Depending on the set up, the method of picture change is selected. (P26)

[Refresh]:

The display contents of the picture display section (folder display) is refreshed with latest information. (P18)

[Tool] menu



[Find]:

Searches the picture. (P24, 25)

[Clear Finding]:

Clears the search results. (P24, 25)

[Image Format Conversion]:

Converts the image format. (P22)

[Rotate]:

Rotates the pictures to the right by 90°, 180° or 270°. Rotates the picture. (P20)

[DV Image Setup]:

To convert pictures into BMP or JPEG etc. formats, valid set up can be made. (P21)

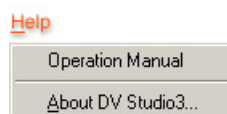
[Connection]:

Connect personal computer and movie camera. (P35)

[Beep Sound]:

By inserting a check mark, sound is generated when a button is clicked. Although alarm sound may ring, there is no abnormality.

[Help] menu



[Operation Manual]:

Activates the PDF format Operation Manual (the present manual). To view it, Adobe Acrobat Reader 5.0 or higher is needed.

[About DV Studio3]:

Displays the version information.

Troubleshooting (Q&A)

Troubleshooting (Q&A)

Q Communication between movie camera and personal computer is terminated.

- Click on [Tool] >>> [Connection] in the menu, and restore the connection.
- After having removed the cable from the movie camera, restore the power supply to the movie camera, once again attach the cable to the movie camera, click on [Tool] >>> [Connection] from the menu, and restore the connection.
- When the movie camera is switched to the modes except Tape Playback Mode and Tape Recording Mode, it could happen that communication between the computer and the movie camera is interrupted. After having removed the cable from the movie camera, set the movie camera to Tape Playback Mode or Tape Recording Mode, once again attach the cable to the movie camera, click on [Tool] >>> [Connection] from the menu, and restore the connection.
- Depending on the working of the OS, or on other programmes running at that time, it may be possible that the communication with the movie camera may not be satisfactory. In such cases, close that operation or the programme, and restart the DV STUDIO 3.
- When the computer is started with a different connecting port from the one at the previous operation (eg. connect to another USB port, etc.), the error message which says Communicate with DV deck is disabled appears, but there is no problem for the operations. Click on [OK], and continue the start operation.

Q During picture acquire, if [DV data acquire failed.] appears, then the acquisition is not possible.

- Please check whether the power supply to movie camera is cut.
- Depending on the condition of recording onto the tape, acquisition may not be possible. Please change the acquisition location a little, and try again.
- If tape recording conditions or communication conditions are not ideal, it may occur that the image cannot be acquired. If an error message should appear while the image is being automatically acquired, continue attempt to acquire the image. In the same manner, if an error message should appear while acquiring the image, try acquiring it again.
- Close DV STUDIO 3, restart, and try.

Others

Others

File formats that can be displayed with DV STUDIO 3

- BMP file (BMP other than 24 bit or compressed type are excluded)
- JPEG file
- DVC JPEG file
- TITLE file
- DV format file
 - DVF: DV format file created in DV STUDIO 3
 - DCF: Simple picture file for display
 - DV format files made with DV STUDIO 1, 2 can also be used.

DVP format file

DVP is a file in which information is written for managing the pictures acquired with DV STUDIO 3.
Please do not delete or move.