

Operating Instructions

Digital photo management software PHOTOfunSTUDIO -viewer- 1.4E

Thank you for using PHOTOfunSTUDIO. Before use, please read these instructions completely.



















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Before Use

Introduction

- Please note that some of the explanation and screens covered in these operating instructions may differ from actual ones depending on the operating environment of your PC. Please be aware of this beforehand.
- No information is provided about basic PC operations and terms. Please refer to the relevant PC manual.
- The contents of these operating instructions may be subjected to changes without prior notice.
- Reproduction of these operating instructions in part or in full without permission is prohibited.
- •The description of Windows[®] in these operating instructions is based on the Windows[®] XP screen.
- •The English, German and French versions of this software are available to the OS of the corresponding languages. If you use an OS of other language, the English version of this software will be installed and become available.
- •Pages to be referred to are shown as "⇒00".
- In these operating instructions, PHOTOfunSTUDIO -viewer- 1.4E is indicated as "PHOTOfunSTUDIO".
- In these operating instructions, a memory card refers to an SD memory card, including the internal memory.
- The usable operation items on the menu and context menu depend on the operation status of PHOTOfunSTUDIO or status of the selection of the pictures. The unusable items are displayed in grey.

Please be aware of this beforehand.

- Some digital cameras may not be equipped with the [BABY] mode, [PET] mode, [TRAVEL DATE] function, [DATE STAMP] function, [TEXT STAMP] function, RAW file function, etc. described in these operating instructions.
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Customer Care Centre

- For customers within the UK: 0844 844 3852
- For customers within the Republic of Ireland: 01 289 8333
- Visit our website for product information
- E-mail: customer.care@panasonic.co.uk

Technical Support for AV Software

For UK, ROI: 0844 844 3869

Direct Sales at Panasonic UK

- Order accessory and consumable items for your product with ease and confidence by phoning our Customer Care Centre Monday – Thursday 9.00 a.m. – 5.30 p.m., Friday 9.30 a.m. – 5.30 p.m. (Excluding public holidays)
- Or go on line through our Internet Accessory ordering application at www.panasonic.co.uk.
- Most major credit and debit cards accepted.
- All enquiries transactions and distribution facilities are provided directly by Panasonic UK Ltd.
- It couldn't be simpler!
- Also available through our Internet is direct shopping for a wide range of finished products, take a browse on our website for further details.

Features

Pictures on the memory card in the digital camera can be acquired to a PC by connecting the camera and the PC using the USB connection cable.

For acquired pictures, you can enjoy various functions such as categorising by date or keyword, processing, outputting (printing, attaching to e-mails, etc.).

- You can acquire still pictures or motion pictures on a memory card onto the hard disk of a PC all at once.
- •Pictures on a memory card or the hard disk can be listed in a thumbnail^{*1} format.
- You can print pictures while checking them on the monitor of a PC.

^{*1:}Thumbnail means displaying pictures in a small size.

System requirements

■ PHOTOfunSTUDIO -viewer- 1.4E

| Personal compute | er:IBM® PC/AT compatible personal computer having Intel® Pentium® III 450 MHz or higher /Intel® Celeron® 400 MHz or higher CPU (including compatible CPU) (Intel® Pentium® III 800 MHz or higher CPU if using Windows Vista | | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| OS: | Preinstalled Microsoft® Windows® 98 Second Edition Microsoft® Windows® Millennium Edition Microsoft® Windows® 2000 Professional Microsoft® Windows® XP Home Edition Microsoft® Windows® XP Professional Microsoft® Windows Vista™ Ultimate Microsoft® Windows Vista™ Business Microsoft® Windows Vista™ Home Premium Microsoft® Windows Vista™ Home Basic | | |
| RAM: | 128 MB or more (256 MB or more recommended) (512 MB or more if using Windows Vista TM) | | |
| Display: | High Colour (16 bit) or more Desktop resolution of 800×600 pixels or more (1024×768 pixels or more recommended) | | |
| Free hard disk space:200 MB or more | | | |
| Necessary softwar | Necessary software:QuickTime 6.1 or later | | |
| Sound: | Windows compatible sound device | | |
| Drive: | CD-ROM drive (required to install this programme) | | |

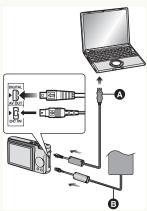
| Interface: | USB port (USB2.0 or USB1.1) |
|------------|-----------------------------------------|
| | (When devices are connected through USB |
| | hub or by using USB extension cable, |
| | operation is not guaranteed.) |

- Even if the system requirements mentioned in these operating instructions are fulfilled, some personal computers cannot be used.
- The operation of this software will not be guaranteed when fonts other than English fonts are selected and used.
- This software cannot be used on Macintosh.
- This software cannot be used on Microsoft Windows[®]
 3.1, Windows[®]
 95, Windows[®]
 98 and Windows NT[®]
- Operation on an upgraded OS is not guaranteed.
- Operation on an OS other than the one pre-installed is not guaranteed.
- Multi-boot environment is not supported.
- Log on with an administrator account or standard user account before using this software. You cannot use this software with a guest account.
- Only the system administrator can install or uninstall this software.
- This software may not run properly on user-built computers.
- •If the settings for the size of characters in the screen settings dialog box in Windows is larger than the standard size, some buttons may be displayed off-screen and cannot be operated. In this case, restore the font size to standard size.
- •This software cannot be used on 64-bit OS.
- QuickTime is needed to play motion pictures.

Setting up

Connecting the digital camera to PC

- When Windows® 98SE is used, install the USB driver before connection. (For details, refer to the Operating Instructions "For Digital Camera PC connection.")
- When you connect the digital camera to the PC, use batteries with sufficient battery power or the AC adaptors. If the remaining battery power is exhausted during communication, the recorded data may be damaged.



- A: USB connection cable
- B: AC adaptor

- Prepare the digital camera.
 - If you use the AC adapter, connect it.
 - Turn on the digital camera.
- 2 Connect the digital camera to the PC via the USB connection cable.
 - Set the digital camera for connecting to a PC. (For details, refer to the operating instructions for the digital camera.)

• When the following window (window of "LUMIX Simple Viewer") appears, click [No] to close the window.



When the following screen appears, if you select
 and click [OK], the PHOTOfunSTUDIO starts and the
 picture acquiring panel is automatically opened. (⇒19)
 (If "LUMIX Simple Viewer" is running,
 PHOTOfunSTUDIO will not start.)



3 Make sure that the digital camera is properly recognised by the PC.

You may judge that the digital camera is properly recognised if a [Removable Disk] is added in [My Computer].

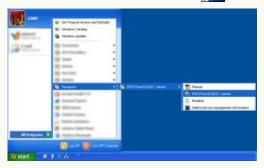
- Before removing the USB connection cable, make sure that the digital camera is not accessing the card.
- Double-click [] icon in the system tray, and select the USB connection cable ([USB Mass Storage Device]) and click [Stop]. Then you can safely remove the USB connection cable without causing any error message to appear.



- Do not operate the digital camera or disconnect the USB connection cable while transferring data in the digital camera. The software may not function correctly and damage the data being transferred.
- The shape of the terminal varies depending on the digital camera used. For details, refer to the operating instructions for the digital camera.

Starting PHOTOfunSTUDIO

- Before using for the first time, select [start] >> [All Programs] >> [Panasonic] >> [PHOTOfunSTUDIO -viewer-] >> [Readme] and make sure to read the supplementary explanation and the latest information.
- Select [start] >> [All Programs] >> [Panasonic] >> [PHOTOfunSTUDIO -viewer-] >> [PHOTOfunSTUDIO -viewer-].
 - Or double-click the shortcut icon [] on the desktop.



 When the removable disk indication (1) appears after connecting the digital camera to the PC and if you select 2 and click 3 here, the PHOTOfunSTUDIO starts and the picture acquiring panel is automatically opened. (⇒19) (If "LUMIX Simple Viewer" is running, PHOTOfunSTUDIO will not start.)



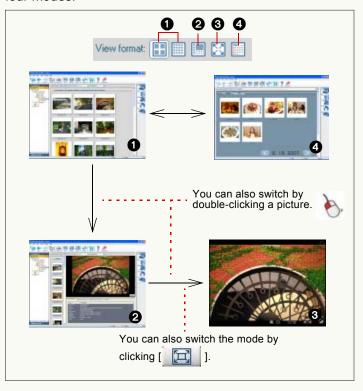
■ Exiting PHOTOfunSTUDIO

- 1 Select [File] >> [Exit] on the menu.
 - You may also exit the PHOTOfunSTUDIO by pressing the [Alt] key and the [F4] key at the same time when the picture browser is displayed.

Basic screens

Switching among basic modes

With PHOTOfunSTUDIO, you can view in the following four modes.



List mode (⇒12)

Displays pictures with reduced ones (thumbnail) in list form.

② Focus mode (⇒14)

A selected picture is displayed in the browser in enlarged view.

- •Pictures information can also be displayed.
- · Motion pictures can also be played.
- 3 Full Screen mode (⇒15)

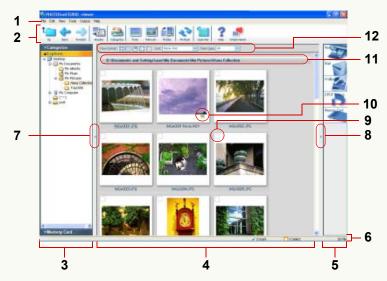
A selected picture is enlarged to full screen.

- •To return to the previous screen (mode), press [Esc] key or click [].

Sorts pictures by recording date and then displays them in the format for Monthly Calendar mode or the Daily Calendar mode.

- You can also select each of the modes by selecting [View] >> [View Format] from the menu, or by right-clicking in the picture browser and selecting [View Format].
- If you switch to the Focus mode or the Full Screen mode without selecting any picture, the first picture within the folder is displayed.
- ❖ For the file formats that can be displayed, consult "Picture files that can be displayed by PHOTOfunSTUDIO" (⇒100).

List mode



1 Menu bar

The operating items in PHOTOfunSTUDIO are arranged according to the classifications such as [File], [Edit], [View] and [Output]. $(\Rightarrow 94)$

2 Tool bar

The operating items frequently used such as acquiring, categorising, and processing are arranged with buttons to facilitate operations. $(\Rightarrow 92)$

3 Folder view

Folders can be displayed by type ([Categorize], [Explorer] and [Memory Card]).

The pictures within the folder selected here are displayed in the picture browser.

- To open the window of any type, click its title bar (e.g., [Explorer]). The currently open window is closed when another window is opened.
- Nothing can be displayed in the picture browser when [My Computer] is selected on [Explorer].
- Thumbnails may not be displayed when you select a folder including more than 10,000 pictures.
- For more detailed setting, see ⇒83.
- [Categorize] (⇒30)
- [Explorer]

All folders on the PC are displayed.

• [Memory Card]

Displays folders where pictures recorded by the digital camera are saved.

4 Picture browser

The pictures within the folder selected in the folder view (3) are displayed.

 The following two patterns (large thumbnail, small thumbnail) are available to display pictures.
 You can switch among them in [View format] of the picture browser view setting area (12).

[Large thumbnail]

Pictures are displayed with large thumbnails.



[Small thumbnail]

Pictures are displayed with small thumbnails.



- If there are many pictures in a folder, it may take time until they are thumbnail-displayed.
- Even incompatible files are indicated with data file icons of their associated applications, if installed.

5 Output view

Operation items concerned with picture output are placed as buttons. $(\Rightarrow 62)$

• You can output in the following ways.

| - Printing | -DPOF Setting |
|-----------------------|---------------------------|
| - Attaching to E-mail | -Outputting to the memory |
| -Setting as Wallpaper | card |

6 Status bar

The total number of files in the selected folder, the number of files selected and the number of files marked are displayed.

7 Folder view open/close button

The folder view can be opened or closed by clicking this button.

8 Output view open/close button

The output view can be opened or closed by clicking this button.

9 Check box

This is the check box for marking. This is selected when you left-click the mouse in the box and the picture becomes marked. (⇒25)

10 Motion picture and "FAVORITE" identification icons

Motion pictures are displayed with [] icons to allow you to identify them.

For the pictures set to "FAVORITE", [\square] is displayed. (\Rightarrow 34)

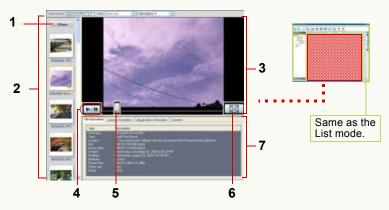
11 Folder name display area

Displays the name or location (path) of the folder whose pictures are displayed in the picture browser.

12 Picture browser view setting area

- -Changing the view format (mode) (⇒11) (⇒78)
- -Sorting pictures (⇒79)
- -Narrowing types of pictures (⇒80)

Focus mode



1 Folder name display area

The name or path of the folder whose pictures are being displayed in the picture browser are shown.

2 Thumbnail window

The picture selected here appears in enlarged view.

3 Enlarged picture window

4 Motion picture PLAY/PAUSE button*

Each time this button is clicked, the motion picture switches between playback and pausing.

 Motion pictures automatically play when selected, and play repeatedly until pausing.

5 Motion picture playback slider*

The playback position can be changed by dragging this slider.

6 Full Screen mode select button

When clicking this button, a selected picture is enlarged to full screen.

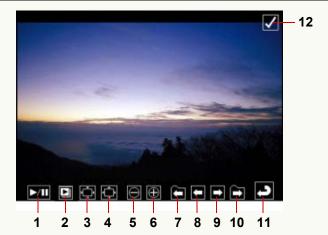
• For motion pictures, playback starts automatically.

7 Information window

Information about the picture is displayed. Clicking each information tab switches the contents displayed.

- The contents displayed are the same as those on the Properties screen. (⇒86)
- * Displayed only when a motion picture is selected.
- When playing motion pictures, the pictures and/or voice may be interrupted depending on the performance of your PC.

Full Screen mode



1 Motion picture PLAY/PAUSE button

Each time this button is clicked, the motion picture switches between playback and pausing.

 Motion pictures automatically play, and play repeatedly until pausing.

2 Picture show start/stop button

Click this button to display a picture for a certain period of time (3 seconds is the default) and switch to successive pictures. Click the button again to stop picture show.

- To change the display period for a picture or set/cancel the repeated playback, select [Tools] >> [Options]. (⇒90)
- For motion pictures, the next picture will be displayed after a

full motion video clip is played back, irrespective of the period set.

- **3** Restores the picture to the original size.
- 4 Fits to the window.
- 5 Zoom out
- 6 Zoom in
- **7** To the first picture in the previous folder. (Displayed only when two or more folders are selected.)
- 8 To the previous picture.
- 9 To the next picture.
- **10** To the first picture in the next folder. (Displayed only when two or more folders are selected.)
- 11 Returns to the previous screen (mode).

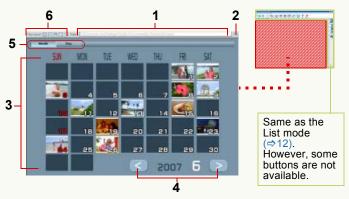
12 Check box

Sets/Cancels mark on the picture. (⇒26)

- Only available buttons can be displayed. When the mouse cursor is not operated, the buttons disappear.
- When the whole of the picture is not displayed, you can move the position of the picture by dragging it with a mouse. (For still picture)
- When playing motion pictures, the pictures and/or voice may be interrupted depending on the performance of your PC.
- Depending on the picture, a black band may appear around it.

Calendar Mode

■ Monthly calendar display



1 Folder name display area

Displays the location (path) of the folder containing the pictures displayed in Calendar mode.

2 Folder change button

Click this button to open the folder selection screen and change the folder displayed in Calendar mode.

3 Calendar display area

Pictures in the selected folder (including pictures in the sub folders) are sorted by recording date according to the Exif information (\$\Delta\$103) and displayed in thumbnail view on the calendar. Double-click the date displayed in thumbnail view to switch to the daily calendar display (\$\Delta\$17), and display pictures recorded on that day.

- If there are two or more pictures recorded on the same day, the latest picture will be used in thumbnail view.
- Pictures with no recording date in Exif will be sorted according to the date the file was updated.

4 Month back/forward button

Click the [] button to display the previous month, and click the [] button to display the next month; however, a month with no picture to display will be skipped.

5 Month/Day button

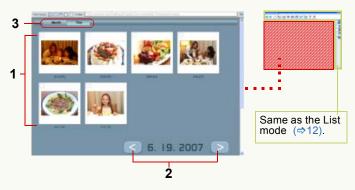
Select a date with pictures in the calendar display area and click [Day] to switch the screen to the daily calendar display $(\Rightarrow 17)$.

6 Picture browser display setting area

You can change the display format (mode). (⇒11) (⇒78)

• You cannot switch to Focus mode or Full Screen mode.

Daily calendar display



1 Picture browser

Pictures recorded on the selected day will be displayed in thumbnail view. You can select and mark pictures just like in List mode.

2 Day back/forward button

Click the [] button to display the previous day, and click the [] button to display the next day; however, a day with no picture to display will be skipped.

3 Month/Day button Click [Month] to switch the screen to the monthly calendar display. (⇒16)

- ❖ Only a calendar during the period from 1971 to 2037 can be displayed. Pictures that were recorded/updated in 1970 or before or pictures that will be recorded in 2038 or after will be displayed collectively on the last page that can be displayed using the month forward/day forward buttons [>]. (The year and date will be displayed with [-].)
- Since pictures are sorted according to the date when the file is first created or updated with the calendar display function on the digital camera, the same pictures may be displayed with a different date in PHOTOfunSTUDIO.

Acquiring and displaying pictures

- Acquire recorded pictures from the digital camera to the PC ⇒19
 Acquire pictures from a digital camera using PHOTOfunSTUDIO.
- Display pictures acquired ⇒21 Acquired pictures can be displayed in a list by the picture browser.
- Select pictures ⇒24 You can select one or more pictures.
- Copy, move or delete pictures ⇒27 ⇒28 ⇒29
- Refresh the display ⇒29
 Even after pictures are copied, moved or deleted, the result of the processes may not be reflected on the screen. In this case, refresh the picture browser or the folder view.
- Pictures may not be acquired normally if digital cameras other than Panasonic products are used. To acquire or to categorise pictures properly, set the clock setting properly on the digital camera before recording. You can properly acquire pictures with recording dates from 1971 to 2037 with this software.

Acquiring pictures from a digital camera

- ❖ Connect a digital camera and a PC. (⇒8)
- 1 Click [].

The 1 panel will be opened.



- Right-click the thumbnail of any picture and select [Properties], and you can see the picture information.
- 2 Check the acquisition destination folder and click the [OK] button.

Pictures are acquired to the folder specified.

 The acquisition destination folder is [PHOTOfunSTUDIO] by default.

Folder path

(when Windows® is installed on drive C):

C:\Users\(User Name)\Pictures\PHOTOfunSTUDIO (Windows VistaTM)

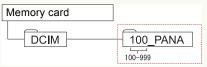
C:\Documents and Settings\(User Name)\
My Documents\My Pictures\PHOTOfunSTUDIO

(Windows® 2000/XP)

C:\My Documents\My Pictures\PHOTOfunSTUDIO (Windows® 98SE/Me)

- When you change the folder to save the acquired pictures, click 3 to select the desired folder.
- When the same name as the acquired picture exists on the folder, the date of update and the file size of the acquired picture are compared with those of the file on the folder. If both are the same, the picture will not be acquired. If either of them are not the same, numbers with brackets will be added to the file name of the acquired picture to prevent overwriting as default. If you want to change the process, select [Tools] >> [Options] from the menu. (⇒88)
- When two or more digital cameras are connected, select the appropriate drive letter (e.g., E, F) from 2 for the digital camera you wish to acquire from.
- On acquisition, pictures are automatically categorised by date, model, or keyword ([My favorites], [Baby mode], [Pet mode], [Travel date], [Pictures acquired ×××(date)]) and registered in [Categorize], by default. (This holds true only when the pictures have such information.) (⇒32) (⇒33) (⇒34) If you want to change the process, select [Tools] >> [Options] from the menu. (⇒88)
- If you set [Keyword], they will be automatically categorised by the keyword and registered in the categorisation folders. (⇒34)

- If the message [Insert a memory card containing pictures taken by a digital still camera.] appears, check the following:
 - -Whether the USB connection cable is securely inserted into both the digital camera and the PC.
 - -Whether the digital camera is powered on.
 - -Whether the digital camera is set for connecting to a PC. (For details, refer to the operating instructions for the digital camera.)
 - Whether the folder shown below is present on the memory card.



If there is no folder shown in the figure, the card is not recognised as the memory card. In such cases, insert the card into the card slot of the digital camera again and record pictures, and folders are automatically created and the card comes to be recognised as the memory card. (However, only the files stored in the folder enclosed in a red frame can be acquired.)

Displaying the acquired pictures in list view

Displays pictures acquired from the digital camera in the picture browser.

Click [Explorer] title bar in the folder view to open [Explorer] window.



- 2 Click the folder where acquired pictures are saved. Acquired pictures are displayed in a list by the picture browser.
 - The [ℍ] icon is displayed on a thumbnail to clearly indicate that it is a motion picture.
 For the pictures set to "FAVORITE", [□] is displayed. (⇒34)
 - If [Explorer] is not displayed, select [View] >> [Folder]
 >> [Explorer] from the menu.
 - If the whole folder view is not displayed, click folder view open/close button to display it. (⇒12)

- To display folders in the picture browser, check [View subfolder] on [View] menu.
- ❖ When the screen display is distorted because the screen saver is started or other reasons, refresh the screen display. (⇒29)
- The acquisition destination folder is [PHOTOfunSTUDIO] by default.

Folder path (when Windows® is installed on drive C):

C:\Users\(User Name)\Pictures\PHOTOfunSTUDIO (Windows VistaTM)

C:\Documents and Settings\(User Name)\

My Documents\My Pictures\PHOTOfunSTUDIO (Windows® 2000/XP)

C:\My Documents\My Pictures\PHOTOfunSTUDIO (Windows® 98SE/Me)

Displaying enlarged pictures

In the Focus mode or the Full Screen mode, pictures can be seen in enlarged view.

- ❖ You cannot enlarge pictures from Calendar mode. Switch to List mode before enlarging pictures (⇒78).
- 1 To enlarge a picture, click to select the picture in the picture browser.
- 2 Select Focus mode (1) or Full Screen mode (2) from [View format].



- Pictures can also be enlarged by the following methods.
- Double-click a picture.
- Right-click a picture and select [Focus] or [Full Screen] from [View Format].
- Select a picture and select [View] >> [View Format] >> [Focus] or [Full Screen] from the menu.
- To return from the Full Screen mode (②) to the previous screen (mode):
- Press [Esc] key.
- Double-click the picture.
- Click [] on the screen.

When playing motion pictures, the pictures and/or voice may be interrupted depending on the performance of your PC.

Displaying pictures by recording date

1 Select Calendar mode (1) from [View format].



Pictures in the [My pictures] ([Pictures]) folder (including pictures in the sub folders) are sorted by recording date according to the Exif information (⇒103) and displayed in the calendar.



- The calendar for a month with a picture with the latest recording date in the folder will be displayed. If there are pictures from 1970 or before and 2038 or later, pages showing these pictures collectively are displayed first.
- If there are two or more pictures recorded on the same day, the latest picture will be used in thumbnail view.
- Pictures with no recording date in Exif will be sorted according to the date the file was updated.
- To display pictures in other folders, click the folder selection button (2) to select and display the desired folder.

- 2 Click the [] or [] button to display a specific month.
- 3 Double-click the thumbnail of the date to be displayed.

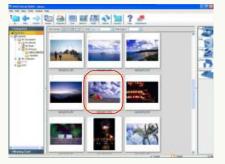
 The calendar will switch to the daily calendar display and a list of the pictures recorded on that day will be displayed.



- You can switch to the daily calendar display by selecting the thumbnail view and clicking the [Day] button on the top of the calendar.
- ❖ Only a calendar during the period from 1971 to 2037 can be displayed. Pictures that were recorded/updated in 1970 or before or pictures that will be recorded in 2038 or after will be displayed collectively on the last page that can be displayed using the month forward/day forward buttons
 [>]. (The year and date will be displayed with [-].)
- Since pictures are sorted according to the date when the file is first created or updated with the calendar display function on the digital camera, the same pictures may be displayed with a different date in PHOTOfunSTUDIO.
- ❖ If displays on the screen are corrupted, such as after starting the screen saver, update the display. (⇒29)

Selecting pictures

- Pictures cannot be selected while in the monthly calendar display in the Calendar mode. Double-click a desired date to switch the screen to the daily calendar display.
- 1 Click a thumbnail of the picture to be selected on the picture browser.



Clicked picture is enclosed by a frame and the picture is selected.

To select two or more pictures

Click the pictures to be selected while holding down the [Ctrl] key.

To select two or more successive pictures

Select the first picture, then hold down the [Shift] key while you select the last picture.

• To select all pictures in the displayed folder

Select [Edit] >> [Select All] from the menu, or press the [A] key while holding down the [Ctrl] key after left-clicking the picture browser.

• To invert the selection

Select [Edit] >> [Invert Selection] from the menu. The selected pictures will be deselected and the deselected pictures will be selected.

• To deselect pictures

Select [Edit] >> [Deselect All] from the menu or click anywhere in the picture browser other than the thumbnails.

■ In Focus mode and Full Screen mode

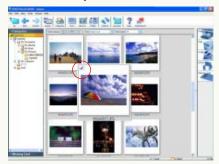
You can select only one picture in Focus mode. When in the Full Screen mode, you cannot bring any picture into selected state.

To select multiple pictures in the Focus mode or select pictures in the Full Screen mode, mark them. (⇒26)

Marking on pictures

When selecting pictures on PHOTOfunSTUDIO, bring the pictures into selected or marked state. With the mark, you can select pictures in different folders at one time. Moreover, the marks are kept until PHOTOfunSTUDIO is stopped unless you cancel them. Therefore, you can prevent mistakes in operations such as cancelling the selection after you select multiple pictures, etc.

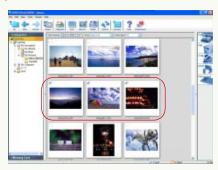
- The mark function cannot be used for operations such as Cut and Delete. Select files to execute these operations.
- It is impossible to mark pictures in the monthly calendar display in the Calendar mode. Double-click a desired date to switch the screen to the daily calendar display.
- Click the check box on the picture you want to mark on the picture browser.



The check box is selected and the picture is marked.

Marking multiple pictures

Click the check box on the pictures you want to mark by turns.



 You can also mark multiple pictures by selecting multiple pictures you want to mark and then clicking the check box of any 1 picture.

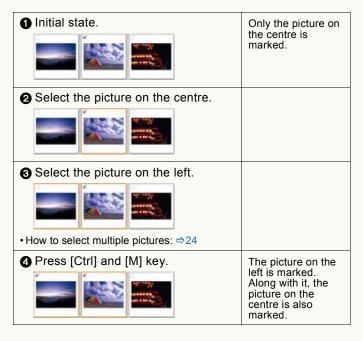
Cancelling all marks

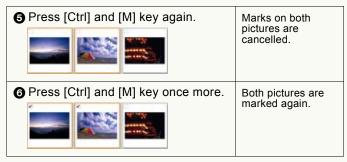
- Select [Edit] >> [Cancel all marks] from the menu.
- Right-click on the picture browser and select [Cancel all marks] from the context menu.
- The marks are kept until PHOTOfunSTUDIO is stopped unless you cancel them. When you select [Marked picture] to operate files or output files, all of the marked pictures are processed at the same time even they are not displayed on the browser.

Switching marks with [Ctrl] key + [M] key

If you press the [M] key while holding down the [Ctrl] key with the picture selected, marks on the selected pictures are alternatively switched.

When the conditions of the marks on the selected multiple pictures are different, all of the selected pictures follow the condition of the mark on the picture selected last.





Setting/Cancelling marks in Focus mode

In Focus mode, click the check box on any thumbnail picture to set/cancel the mark.



 You can also set/cancel the mark of a picture in selected state (with focus), by pressing the [M] key while holding down the [Ctrl] key on the PC.

■ Setting/Cancelling marks in Full Screen mode

When in the Full Screen mode, click the check box at the top right corner to set or cancel the mark.

 You can also set/cancel the mark of a picture, by pressing the [M] key while holding down the [Ctrl] key on the PC.

Copying pictures

- 1 Select a picture to be copied in the picture browser.
- 2 Right-click the picture to open the context menu and select (1).



- 3 Open a target folder, right-click in the picture browser to open the context menu, and select 3.
 - You cannot copy any picture into [Categorize].
 - When you apply this operation to a file in the [Categorize], its registration itself is also copied.
 - When you want to copy pictures into [Memory Card], refer to "Writing pictures onto a memory card" (⇒75).

■ Copying using Menu

- 1) Select a picture to be copied in the picture browser.
- 2) Select [Edit] >> [Copy] from the menu.
- 3) Open a target folder and select [Edit] >> [Paste] from the menu.

■ Copying by dragging and dropping

In the case of the List mode or the Focus mode, pictures can be copied by dragging the desired picture while

pressing the [Ctrl] key on the picture browser and then dropping it into the destination folder in the folder view.



• When you copy a picture to a folder in a different drive, you can copy it by simply dragging and dropping it into the folder without holding down the [Ctrl] key.

■ To copy marked pictures

- 1) Select [Edit] >> [Copying marked files] from the menu. The folder selection screen will appear.
- 2) Select the destination folder and click [OK].



Moving pictures

- 1 Select a picture to be moved in the picture browser.
- 2 Right-click the picture to open the context menu and select (1).



- 3 Open the target folder, right-click in the picture browser to open the context menu, and select 3.
 - You cannot move any picture into the [Categorize].
 - When you apply this operation to files in the [Categorize], the original files are moved.
 - No picture can be moved into [Memory Card]. To copy, refer to "Writing pictures onto a memory card" (⇒75).

■ Moving using Menu

- 1) Select a picture to be moved in the picture browser.
- 2) Select [Edit] >> [Cut] from the menu.
- 3) Open a target folder and select [Edit] >> [Paste] from the menu.

Moving by dragging and dropping

In the case of the List mode or the Focus mode, pictures can be moved by dragging the desired picture on the picture browser and then dropping it into the destination folder in the folder view.

 When you move a picture to a folder in a different drive, hold down the [Shift] key while you drag and drop it into the folder. If you do not hold the [Shift] key while you drag and drop it, the file will be copied, not moved.

■ To move marked pictures

1)Select [Edit] >> [Moving marked files] from the menu.

The folder selection screen will appear.

2) Select the destination folder and click [OK].



❖ If the result of moving is not reflected in the picture browser after these operations, refresh the display on the picture browser. (⇒29)

Deleting pictures

- 1 Select a picture to be deleted in the picture browser.
- 2 Right-click the picture to open the context menu and select (1).



The confirmation message will be displayed. Select [Yes] to delete the picture.

- You may also delete the picture by pressing the [Delete] key while the picture is selected.
- If you delete pictures in the [Categorize], the pictures will be deleted only from the registration. The original pictures themselves will not be deleted.

■ Deleting using Menu

- 1) Select a picture to be deleted in the picture browser.
- 2) Select [File] >> [Delete] from the menu.

 The confirmation message will be displayed. Select
 [Yes] to delete the picture.
- ❖ If the result of deleting is not reflected in the picture browser after these operations, refresh the display on the picture browser. (⇒29)

Refreshing the display

When the result of the operating such as copying, moving or deleting pictures, etc. is not reflected on the picture browser, refresh the display on the picture browser.

- 1 Click [].
 - The display on the picture browser is also refreshed by pressing [F5] key or selecting [View] >> [Refresh] from the menu.
- When the operations to the files and folders performed on the software except PHOTOfunSTUDIO are not reflected on the picture browser or the folder view, refresh the display on the picture browser or the folder view.
- When you eject a memory card from the digital camera or re-insert a memory card to the digital camera, refresh the display.

Categorisation

The PHOTOfunSTUDIO has functions to categorise acquired pictures in accordance with a specified condition and to group them.

The pictures categorised are registered in the [Categorize] to be easily viewed in a list form. When the number of recorded pictures increases, it is hard to find pictures to be viewed. However, if the complete pictures are categorised, the target pictures will be found easily.

- ▷ To categorise pictures by recording date ⇒ 32
- ➤ To categorise pictures by adding keywords to them ⇒ 34
 - -To change keywords ⇒35
- The pictures which can be categorised are the pictures in the following formats. (However, what can be sorted by model name are only JPEG and TIFF files with Exif information containing model name information.)

Still picture:

JPEG format (extension .JPG, .JPEG, .JPE), BMP format (extension .BMP), TIFF format (extension .TIF, .TIFF)

Motion picture:

MOV format (extension .MOV)

Others:

RAW format (extension, RAW)

- ❖ Up to 10,000 pictures can be categorised at one time. (Up to 800 pictures in the case of Windows[®] 98SE/Me) However, depending on the amount of the memory installed in the PC, the number of pictures to be categorised may be restricted to less than 10,000.
- Pictures except those acquired in the PC (pictures in a floppy disk, CD-ROM, memory card, etc.) cannot be categorised. Categorise pictures after acquiring them on the hard disk of the PC.

Flow of categorisation

- ❖ Only the pictures in the hard disk can be categorised. Acquire the pictures from the memory card (digital camera) into the PC beforehand. (⇒19)
- Select a folder from the folder view that contains the pictures to be categorised.
 - The pictures within [Memory Card] cannot be categorised.
- 2 Preselect pictures. (Selection, marking)
 - This operation is not required when categorising all the pictures within the folder.
- 3 Click [🎎] on the tool bar.
- 4 Select pictures.



- A. The selected pictures
- B. The marked pictures
- C. All pictures in the folder

- 5 Select a categorisation condition.
 - D. To categorise automatically by date and time (⇒32) To categorise automatically by model name (⇒33)
 - **E.** To categorise manually by keyword (⇒34)
- 6 Click [OK].
- 7 Perform necessary settings on each categorisation screen, and execute the categorisation.
- If you categorise many files at one time, it may take time to proceed with registration of the files to a database.

Categorising pictures by recording date

- 1 Select [Automatic categorization by date or model] for the condition. (⇒31)
- 2 Select (1).



- When a check mark is cleared, the corresponding item becomes dimmed (3), indicating that categorising on that condition is not done.
- When there is no information about the recording date on the picture file, the date of update is replaced as the recording date.
- 3 Click 1.

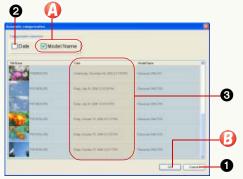
A [Date] folder is created in the [Categorize] and the categorised pictures are registered by date.

- If the [Date] folder and the folders created for each date already exists, the pictures will be additionally registered in the appropriate folder.
- If you cancel the categorisation, click 1.
- Pictures recorded by digital cameras made by other than Panasonic may not be categorised normally. To categorise pictures properly, check the clock setting on the digital camera before recording. You can properly categorise pictures with recording date from 1971 to 2037 by using this software.
- The pictures that could not be categorised are registered in [Keyword] folder of [Categorize] as [Pictures with no date].
- ❖ For ②, see ⇒33.

Categorising pictures by model name

You can categorise pictures by the name of manufacturer and model name of the digital camera.

- Only JPEG and TIFF files with Exif information containing model name information can be categorised.
- Select [Automatic categorization by date or model] for the condition. (⇒31)
- 2 Select (1).



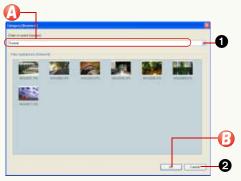
- When a check mark is cleared, the corresponding item becomes dimmed (3), indicating that categorising on that condition is not done.
- Pictures having no information in [Model Name] are not categorised.
- 3 Click 1.

[Model Name] folder is created in [Categorize] and then the categorised pictures will be registered according to the name of manufacturer and model name.

- If [Model Name] folder and folders having a name of manufacturer or model name already exist, the pictures are additionally registered in the corresponding folder.
- Click
 one if you want to cancel the categorisation.
- ❖ For ②, see ⇒32.

Categorising pictures by keyword

- 1 Select [Tagging a keyword] for the condition. (⇒31)
- 2 Enter a keyword in the 🕗 column.



- Up to 64 characters (single-byte) can be registered as the keyword.
- If there is a picture to which a keyword was set previously or when acquired from a digital camera, you can select the keyword by clicking ①.
- You can add two or more keywords to a picture.
 Pictures with two or more keywords are registered in each corresponding keyword folder redundantly.
- 3 Click 3.

A [Keyword] folder is created in the [Categorize]. Furthermore, a folder for each keyword is created in the

[Keyword] folder and the categorised pictures are registered in it.

- If the [Keyword] folder and a folder for each keyword already exists, the pictures will be additionally registered in the corresponding folder.
- If you want to cancel categorisation, click 2.

■ When categorising pictures by [My favorites]

If you enter [My favorites] as a keyword, [] is placed onto the pictures just like those set to "FAVORITE" with a compatible digital camera.

- When outputting these pictures to the memory card and reproducing them with a compatible digital camera, "FAVORITE" icon is also displayed in the pictures on the digital camera. (Only for JPEG and TIFF files with Exif information)
- This is also applicable to the pictures set to "My favorite" on the simplified version of PHOTOfunSTUDIO, "LUMIX Simple Viewer".

Changing the keyword

When categorising [Keyword], you can change the folder name.

1 Select a folder with a name you want to change from [Keyword] folder in [Categorize] on the folder view.



- You cannot select the whole categorisation or multiple items in the categorisation.
- You cannot change the names of the folders in [Date] and [Model Name] categorisations.
- You cannot change [Baby mode], [Pet mode], [Travel date] or [My favorites].

2 Right-click to select (1).



Now the folder name can be changed. Input a new name and then press [Enter] key.

- Up to 64 alphanumeric (single-byte) characters can be set as a folder name.
- The following characters cannot be used for the folder name.

 You cannot change the folder name to the following names.

In [Keyword] categorisation: "Enter a keyword."

Deleting categorisation

You can delete (cancel) pictures from the categorisation and delete (cancel) one complete folder (item) in the categorisation. You can also delete all the categorisations at one time.

Even if the pictures are deleted from the categorisations, the original pictures still remain as they are.

Deleting pictures from categorisation

Pictures can be deleted from items in each categorisation.

Select the categorisation item which includes a desired picture from the [Categorize] on the folder view.



- 2 Select the pictures to be deleted on the picture browser.
 - If you click pictures while holding down the [Ctrl] key, you can select multiple pictures.
- 3 Right-click to open the context menu and then select [Delete].

The confirmation message for deleting categorisation information appears. Click [Yes] to delete pictures from the categorisation.

- The picture is deleted only from the registered categorisation database, not deleted from the hard disk.
- If the picture deleted from the categorisation item folder is still displayed, click [] to refresh the display or open another folder, then open the categorisation item folder again.
- When the original picture is deleted, the picture in the [Categorize] is also deleted.

Deleting an item in a categorisation

To delete one complete item (folder) in [Date], [Keyword], or [Model Name] categorisation, follow the procedures below.

Select an item to be deleted from the [Categorize] in the folder view.



 You cannot select the whole categorisations or two or more items in a categorisation.

However, in the case of [Date] or [Model Name], all items in the sub folders of the selected folder will be selected. For example, in the case of [Date], selecting the "Month" item selects all "Day" items in the sub folder and selecting the "Year" item selects all "Month" items and "Day" items in the sub folder.

2 Right-click to select (1).



The confirmation message for deleting categorisation appears. If you click [Yes], the selected categorisation items are deleted.

- You cannot delete [Baby mode], [Pet mode], [Travel date] or [My favorites] folder in [Keyword] categorisation.
- To delete the whole of one categorisation

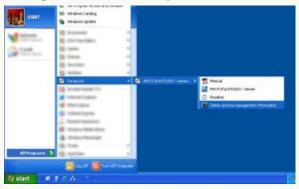
Repeat the deletion procedure for each item. When all the items in the categorisation are deleted, the categorisation in the [Categorize] will be deleted.

Deleting all categorisations

You can delete all the [Date], [Keyword] and [Model Name] categorisations at one time.

When you want to delete the whole categorisation status because it is erroneous, PHOTOfunSTUDIO is reinstalled (the picture categorisation information was not deleted when PHOTOfunSTUDIO was uninstalled), etc., delete it using the following procedure:

- Delete categorisations when PHOTOfunSTUDIO is stopped.
- Select [start] >> [All Programs] >> [Panasonic] >> [PHOTOfunSTUDIO -viewer-] >> [Delete picture management information].



2 Click [Yes].



3 Click [Yes].



The categorisation information such as [Date], [Keyword] and the comment information are deleted, however, the original picture files cannot be deleted.

Process

The PHOTOfunSTUDIO allows a picture acquired or organised to be processed.

- ❖ When you process pictures, it is recommended to save the pictures on the hard disk beforehand.
- Process flow ⇒40

You can reduce the size of pictures and decrease the file size by changing the data compression ratio of JPEG.

- ➤ To convert the format of a picture ⇒43
 - You can convert pictures into BMP (bitmap) format, TIFF format or JPEG format.
- ➤ To change the file names of pictures at one time ⇒44
 You can change the file name of pictures by numbering sequentially.
- ➤ To add date and title information on pictures ⇒46
 The recording date and the title information can be added to the picture.
- ➤ To change the recording date of a picture ⇒48
 You can correct recording date information for pictures which have incorrect recording dates (because you forgot the clock setting of the digital camera in recording, etc.).
- ➤ To create still pictures from motion pictures ⇒49
 It is possible to divide motion pictures into frames and display them. It is also possible to save your favourite frames as still pictures (JPEG format), including saving a successive nine frames as a single still picture (JPEG format).
- ➤ To rotate a picture ⇒51
- ❖ If the results of the processes are not reflected on the picture browser after the operations described above, refresh the display on the picture browser. (⇒29)

Process flow

You can process pictures as follows.

- 1 Select a desired folder, containing pictures you want to process from the folder view.
- 2 Preselect pictures. (Selection, marking)
 - This operation is not required when processing all the pictures within the folder.
 - For the file format that can be processed, refer to the page corresponding to each processing.
- 3 Select a desired process type.



- Changing the picture size
- 2 Converting the picture format
- 3 Changing several file names at one time
- 4 Adding date and title information to a picture
- **5** Changing the recording date
- 6 Creating still pictures from motion pictures
- Rotation

4 Select pictures and click [OK].



- A. The selected pictures
- B. The marked pictures
- C. All pictures in the folder
- If [Create still pictures] is selected in Step 3, only one motion picture (MOV format) can be processed by a single operation. If there are two or more motion pictures to be processed, click [Yes] when the confirmation message is displayed to open the settings screen for the first motion picture only. Click [No] to return to the previous screen without processing.

5 Set the details of the process on the Setting screen.

- Changing the picture size⇒42
- 2 Converting the picture format ⇒43
- 3 Changing several file names at one time ⇒44
- 4 Adding date and title information to a picture ⇒46

- **⑤** Changing the recording date ⇒48
- 6 Creating still pictures from motion pictures ⇒49
- Rotation ⇒51

6 Specify how to save.



- In this description, the screen for changing the picture size (1) is used.
- Processing the original picture directly:
- A. Select the check box.
 - In case of converting the picture format (2), select [Delete the original file] check box in the lower part of the screen.
 - If the original picture must be maintained, deselect it.
- Creating a new picture without deleting the original picture:

Clear the check box **A** and perform the following settings.

[Save Destination Folder]

- **B.** The created picture is saved in the same folder as the original picture.
- C. Saved in any folder you designate.

Click [Browse] and [Select Folder] screen will appear. Select any folder you want to designate as the save designation and click [OK].

[Name of File for Storage]

- **D.** The same name as the file name of the original picture is given.
 - If a file having the same name already exists, a parenthesized number is suffixed. (Example: [P1000123 (1)])
 - If you select this item for picture files on the memory card, those files may not be reproduced by your digital camera.
- **E.** A file name that can be reproduced by digital cameras is given. (4 alphabet characters + 4-digit number. Example: [IMGA0123])
 - However, only JPEG files (extension .JPG) can be reproduced by digital cameras.

7 Click [OK].

Resizing a picture

- Select [Resize] as the process type. (⇒40)
 - You can resize pictures in BMP format, JPEG format and TIFF format.
 - You can select two or more pictures to resize at one time.

2 Set the picture size.



[Resize picture]

- **A.** Enter the desired size into [Width] and [Height].
 - The maximum value to be entered depends on the memory size on the PC.
 - Check [Length-to-width ratio fixed] and set either [Width] or [Height], and the other will be automatically set.
 - If the aspect ratio is changed, the picture will be distorted. Unless otherwise necessary, it is recommended not to deselect [Length-to-width ratio fixed].
- **B.** Set the desired picture size with the [Expansion/reduction ratio] with reference to the

original picture size.

- The settable range is 1% to 200%. However, you cannot set the maximum value depending on the memory size of the PC.
- If either [Width] or [Height] is changed to 1 or less after resizing, 1 will be set.

[Change JPEG compression ratio]

- **C.** If the picture to be resized is in JPEG format, the compression ratio can be set by the slider.
 - Move the slider to the right for lower compression ratio or to the left for higher compression ratio.
 - The higher the compression ratio is set, the smaller the file size becomes and the more the picture quality is degraded.

3 Specify how to save. (⇒41)

4 Click [OK].

A resized picture is created.

• If you select multiple pictures, the same settings are applied to all pictures.

Converting picture format

- 1 Select [Format conversion] as the process type. (⇒40)
 - You can convert pictures in BMP format, JPEG format and TIFF format.
 - You can select two or more pictures and convert their format at one time.
- 2 Set the picture format.



[Format Conversion]

Sets the picture format you would like to convert to. You can select any of BMP (bitmap), JPEG or TIFF.

- You cannot select the same format as that of the original picture.
- If two or more pictures are selected, you can select the same picture format as that of the original picture, but the conversion will be carried out only for the pictures in different formats.

For example, if the formats of the original pictures are BMP, JPEG and TIFF and [JPEG] is selected in [Format Conversion], the BMP and TIFF pictures will

be converted into JPEG format but the conversion will not be carried out for the JPEG pictures.

- 3 Specify how to save. (⇒41)
- 4 Click [OK].

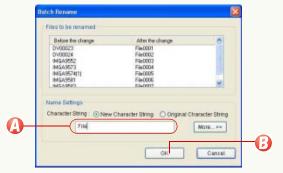
The format of the picture selected is converted.

 If you select multiple pictures, the same settings are applied to all pictures.

Changing several picture file names at one time (Batch renaming)

You can change the names of files in numerical serial sequence.

- 1 Select [Batch renaming] as the process type. (⇒40)
- 2 Enter the name which is commonly used as the first half of the file names of all files on (4) and click (5).



The names of the picture files selected are changed to the common name + a serial number at one time.

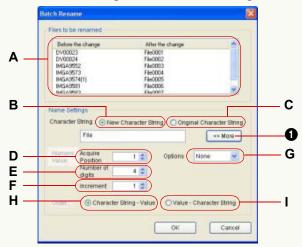
- If there is a file having the same name and the same serial number, the serial number will be skipped and ascended for renaming the next file.
- ❖ If you want to set in detail, see ⇒45.
- When the file name of the picture in the memory card is changed, the picture cannot be played on the digital

camera in some cases.

If you cannot play the picture after you changed the file name of the picture, acquire the picture file to the hard disk once and then write it onto the memory card with the procedure described in "Writing pictures onto a memory card" (⇒75). The file will be written with its file name automatically changed to be suitable for playing on the digital camera.

However, given attention to the free space of the memory card because the original file is left on it.

Advanced settings for Batch renaming



• Display of the files to be renamed

A. The file names before and after changing can be checked.

In [After the change], the results of the naming rule set in [Name Settings] reflected are displayed. Verify them before clicking [OK].

Name Settings[Character String]

B. You can add any character string common to the names of all the files.

The character string set here and the serial number to be set in the [Numeric Value] below are combined to make file names.

- Up to 64 alphanumeric (single-byte) characters can be set.
- **C.** The serial number to be set in the [Numeric Value] below and the original file name are combined to make file names.

[Numeric Value]

Sets the serial number which is a part of the name. (Clicking **1** displays the serial number part.)

- **D.** Sets the start number from which the serial number starts. The settable range is 0 to 1,000.
- **E.** Sets the number of digits for the serial number. The settable range is 1 to 9.
- **F.** Sets the increment of the serial number. Up to 1,000 can be set.
- **G.** You can put parentheses around the numeric value or set a symbol between the character string and the numeric value. How these options are reflected can be verified in [After the change].

[Order]

Sets the order of the character string and the numeric value.

- **H.** The character string comes first, then the numeric value.
- **I.** The numeric value comes first, then the character string.

Adding date and title information to a picture (Burn-in)



- 1 Select [Burn-in] as the process type. (⇒40)
 - You can select and insert the recording date and title information onto two or more pictures at one time.
 - If there are pictures imprinted with the date and the title information from a digital camera compatible with the [DATE STAMP] and [TEXT STAMP] functions, the message "The same data will be inserted over the existing date and the title information" appears when the insertion is performed.

If [Yes] is clicked, the insertion will continue. If [No] is clicked, the insertion will stop. (If there are pictures with the date and title information inserted by other than the [DATE STAMP] and the [TEXT STAMP] functions, the message will not appear, so check the contents carefully before performing the insertion.)

2 Set the information to be added together with the date and title information.



- A. Insert the date.
 - (Only pictures with the recording date information in JPEG or TIFF format of Exif)
- **B.** Insert the number of travel days (××th day of travel). (Only pictures recorded with the [TRAVEL DATE] function on a digital camera)
- C. Insert the age in months/years. (Only pictures recorded with the [WITH AGE] function on a digital camera with [BABY] mode and [PET] mode.)
- D. Insert the title information. (Only pictures recorded together with title information on a digital camera equipped with a [TITLE EDIT] function.)
- The date and title information will be inserted on the bottom right of the picture. A maximum of three lines will be indicated in the order of A, B/C, and D from the top.)
- 3 Specify how to save. (⇒41)

4 Click [OK].

Pictures with the date and title information will be saved.

- When you select multiple pictures, the equal settings will be applied to all of the pictures.
- The colour and size of the characters used for the inserted date and title information cannot be changed.
- When the date and title information are inserted, the picture will be recompressed, and picture quality may be degraded.
- The date may not be properly added and printed on pictures if the date was not set on the digital camera when the picture was taken or if it was recorded by a digital camera not manufactured by Panasonic.

Changing the recording date

- You can change the recording date of only JPEG and TIFF pictures with Exif information (containing the recording date information).
- 1 Select [Recording date change] as the process type. (⇒40)
 - You can select multiple pictures and change the recording date at one time.
- 2 Set the date and time of recording.



- Display of the target picture
- **A.** Displays the file name of the target picture.
 - When you select multiple pictures, you can switch them with [], [] and [].
- **B.** The date which is now set as the recording date is displayed.
- Setting new date and time
- C. Sets the month, day, year, hour, minute and second.

- **D.** When this button is clicked, the calendar dialog is opened and you can set the date from the calendar dialog.
- **E.** The same settings can be applied to all of the selected pictures.
- 3 Specify how to save. (⇒41)
- 4 Click [OK].

The pictures whose date and time of recording have been changed are saved.

- You can set the recording dates from 1971 to 2037.
- In the case of pictures recorded with the [BABY] mode, [PET] mode or with the [TRAVEL DATE] function by the digital camera that supports these functions, the age in months/years or the number of travel days is not changed even if the recording date has changed.

Creating still pictures from motion pictures

You can divide motion pictures into frames of a certain time length and save your favourite frames as still pictures (in JPEG format of Exif).

- Only motion picture files recorded in the MOV format, recorded on Panasonic's LUMIX digital still cameras can be processed.
- Select [Create still pictures] as the process type. (⇒40)
 - It is impossible to process two or more motion pictures at one time.
- 2 Set the number of frames per second.



- If the value [15] is set, for instance, motion pictures will be divided into still pictures every 1/15 (one-fifteenth) of a second.
- You cannot select a number of frames that exceeds the number of frames (fps) in the motion picture files.
- 3 Click the [▶/■] button to play back the motion picture.

The motion picture will be played back at the centre of frames that are divided into nine sections.

4 Click [>/III] button at your favourite position to stop the motion picture being played back.



The motion pictures stop and the previous and next frames are displayed as still pictures.

- You can move the displayed position by moving the motion picture playback slider (1) horizontally while the motion picture is being played back or while stopped.
- 5 Click the frame that you want to save as a still picture.
 - Double-click the frame to enlarge the displayed still picture so that the detailed contents can be confirmed.
- 6 Specify how to save. (⇒41)

7 Click [Save picture].

The selected frame will be saved as a still picture.

- If you want to continue to save other scenes as still pictures, repeat Step 3 to 7.
- To save nine successive frames as a single still picture

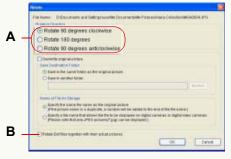
Click the [Save 9 screens] button to save the nine frames collectively displayed as a single still picture.

8 Click [Exit].

The [Create still pictures from video] screen will close and return to the original screen.

Rotating picture (Rotate)

- 1 Select [Rotate] as the process type. (⇒40)
 - You can rotate pictures in BMP, JPEG and TIFF format.
 - You can select two or more pictures to rotate them at one time.
 - When you rotate many pictures at one time, it may take time to finish the process.
- 2 Set the direction of rotating the picture.



- When the setting panel does not appear, select [Show setting panel before rotating.] in [Rotate] tab on the Option setting panel. (⇒91)
- **A.** Select the direction and angle to rotate the picture. You can select [Rotate 90 degrees clockwise], [Rotate 180 degrees] or [Rotate 90 degrees anticlockwise].
- B. If checked, not only the picture with its Exif information being rewritten is rotated, but also the

actual picture data will be rotated as well.

- However, when the actual picture is rotated, it is recompressed and the picture quality may be deteriorated.
- 3 Specify how to save. (⇒41)
- 4 Click [OK].

The selected pictures will be rotated.

- When you select multiple pictures, the equal settings will be applied to all of the pictures.
- You can also rotate pictures with the settings set beforehand without displaying the setting panel. Select [Hide setting panel] in [Rotate] tab on the Option setting panel and set in detail. (⇒91)

■ Rotating pictures using the context menu

- You can rotate only JPEG and TIFF pictures with Exif information using the context menu.
- 1) Select the pictures to be rotated from the picture browser.
- 2) Right-click the picture to open the context menu and then select [Clockwise 90-degree rotation] or [Anticlockwise 90-degree rotation].
 - The original picture is directly rotated by the change in Exif information.

Retouch

PHOTOfunSTUDIO is equipped with the retouch function, which is capable of correcting pictures and adding effects.

By using the retouch function, you can adjust the brightness and colour tone of pictures as well as adding such effects as blur and sharpness.

- Start and exit the retouch function ⇒53
- Screen configuration of the retouch function ⇒54
- □ To correct pictures or add effects ⇒ 56
- ➤ To save retouched pictures ⇒ 59
- Please note: When adjustments made to a picture's color, contrast, brightness or hue are made, the appearance of the printed pictures may differ slightly from that which is seen on your PC's monitor. This is due to the individual adjustments of your PC's monitor and video card. This is normal and does not indicate a malfunction.
- When any adjustments or modification to a picture is made, we suggest you save the modified picture by another name. This way, the original picture is preserved for possible use in the future.

Start and exit the retouch function

Start

- Select the picture to be retouched from the picture browser.
- 2 Click [on the toolbar.
- $oldsymbol{3}$ Select the picture to be retouched and click [OK].



The retouch function starts and the selected picture will be displayed in the picture window.

- If multiple pictures are selected or marked, the confirmation message will be displayed. Select [Yes] to start the retouch function for the top picture. Select [No] to cancel the retouch function and return to the original window.
- With the retouch function, you can edit and process only files in JPEG, BMP or TIFF formats, among the picture formats supported by PHOTOfunSTUDIO.

Exit

1 Select [File] >> [Exit] on the menu bar for the retouch function.



• You can also exit by clicking [X] on the top right of the retouch screen.

Screen configuration for the retouch function



1 Picture window

Displays the pictures being retouched. When pictures are retouched, the operation results will be reflected every time.

2 Menu bar (⇒60)

Collectively displays available retouch function operations by type.

3 Toolbar

Collectively displays the buttons for frequently used functions.

100% : Magnification ratio

Displays the current magnification ratio of the picture window.

[Actual Size]

When this button is clicked, the picture is displayed in the actual size.

[Zoom]

When clicked, the button turns orange, and the mouse pointer becomes a magnifying glass (Enlarged/Reduced mode). Left-click once in this state to increase magnification by one step. Right-click once to decrease the magnification by one step.

To return to normal mode from the enlarged/reduced mode, click the button again.

[Undo]

Cancels the last operation and returns the screen to the state before executing the operation.

Redo]

Executes the same operation again that had been cancelled.

[Undo All]

Cancels all of the executed retouch operations and returns to the initial state.

[Rotate Left]

When this button is clicked, the displayed picture rotates 90 degrees to the left.

[Rotate Right]

When this button is clicked, the displayed picture rotates 90 degrees to the right.

4 Editing panel [Picture]

The picture files in the selected folder when starting the retouch function will be displayed in thumbnail view. However, files that cannot be displayed in thumbnail view will be displayed with $[\times]$. Files that were deleted with software other than PHOTOfunSTUDIO after starting the retouch function may be displayed with an $[\times]$.

[Effect] (⇒56)



With these buttons, you can change brightness, contrast, chroma, colour phases, sharpness and other characteristics of the picture and execute auto correction.

Correcting pictures or add effects

- Double-click a picture to be retouched in the [Picture] panel.
 - This operation is not required if the picture to be retouched has already been displayed in the picture window.
- 2 Select items corrections and add effects on the [Effect] panel and set details.
 - [Brightness & Contrast]

Click this button to display the slider (1) for adjusting brightness, contrast and gamma.



Adjust by moving the slider and checking the effects in the picture window.

By clicking **2**, you can select colours to be corrected among [Red], [Green], [Blue] and [All colors].

-

[Hue & Saturation]

Click this button to display the slider (1) for adjusting hue and saturation.



Adjust by moving the slider and checking the effects in the picture window.

[Sharpness]

Click this button to display the slider (1) for sharpening or shading pictures.



Adjust by moving the slider and checking the effects in the picture window.

[Sepia]

Click this button to convert picture colours to sepia.





[Negative]

Click this button to invert negative and positive pictures.



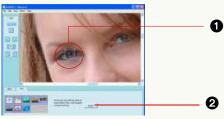


Click this button to convert pictures to gray scale (monochrome pictures).



[Red Eye Remove]

Click this button to display a frame (1) for setting the range of red eye elimination. Set the frame on the area of red eye effects and click [Apply] (2) to reduce red eye.



Effects of red eye elimination may vary with the picture.

[Auto Enhancement]

Click this button to automatically correct brightness and contrast.



- This function is effective when the subject has been photographed in backlight and it is too dark. However, the expected effects may not be obtained with some pictures.
- When a picture is printed incorporating the picture quality correction function, do not execute auto correction with the retouch function. The picture may be corrected too much.

■ To cancel retouching effects

Click [] on the toolbar or select [Edit] >> [Undo] on the menu to cancel the previous operation and return the picture to the state before executing the retouch operation. With this function, it is possible to cancel the previous operations of up to 20 times.

To execute again the cancelled operation, click [] on the toolbar or select [Edit] >> [Redo] on the menu.

Click [] on the toolbar or select [Edit] >> [Undo All] on the menu to cancel all retouching operations. The picture then returns to the initial state.

To execute retouching using the menu

Instead of the editing panel, you can correct or add effects to pictures from [Effect] on the menu bar.



To set [Brightness & Contrast], [Hue & Saturation] and [Sharpness], the respective windows for detailed settings will be opened



The setting methods are the same as the editing panel. Whenever settings are changed, the results will be reflected in the picture window and in the set values on the editing panel.

To fix the contents and close the detailed settings screen, click [OK].

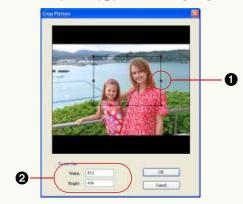
Click [Cancel] to cancel the setting and close the detailed

settings screen. Pictures in the picture window and the settings on the editing panel will also return to the initial states before the detailed setting screen was opened.

■ To extract a part of a picture

It is also possible to extract only the necessary part of a picture.

- 1)Select [Effect] >> [Crop Picture] on the menu. The [Crop Picture] panel will be displayed.
- 2) Designate the necessary part by dragging the anchor point (1) and click [OK].



The designated part will be extracted.

 You can also set the size of the part to be extracted by entering a numerical value in (2).

Saving retouched pictures

To save with a new name

Select [File] >> [Save As] from the menu.



2 Set the location for saving pictures, the file name and the file type, and then click [Save].



- Only files in BMP format, JPEG format and TIFF format can be saved.
- If the original pictures are recorded in JPEG format, the recording information for the original pictures can be saved by checking (1) to save in JPEG format.

To overwrite

1 Select [File] >> [Save] from the menu.



The [Save As] window will be displayed for pictures that have not been saved. To overwrite the original picture, save the picture using the same name as the original. From the second time, pictures will be overwritten simply by selecting [Save].

Retouch function menu

■ [File] Menu



[Save]

Overwrites the edited file.

[Save As]

Renames and saves the edited file.

[Exit]

Exits from the retouch function.

■ [Edit] Menu



[Undo]

Cancels the previous operation.

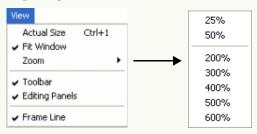
[Undo All]

Cancels all of the executed retouch operations and returns to the initial state.

[Redo]

Restores a cancelled operation.

[View] Menu



[Actual Size]

Cancel the zoom on the edit window to switch to the actual size display (100%).

[Fit Window]

Adjusts the image to the size of the edit window. (The aspect ratio is not changed.)

[Zoom]

You can select the magnification from 25% to 600%.

[Toolbar]

When you tick off this menu, the toolbar is displayed on the screen.

[Editing Panels]

When you tick off this menu, the editing panel is displayed on the screen.

[Frame Line]

When you tick off this menu, a frame line is displayed on the edit window.

■ [Effect] Menu



[Brightness & Contrast] (⇒56)

[Hue & Saturation] (⇒56)

[Sharpness] (⇒56)

[Sepia] (**⇒**56)

[Negative] (⇒57)

[Grey Scale] (⇒57)

[Red Eye Remove] (⇒57)

[Auto Enhancement] (⇒57)

[Crop Picture] (⇒58)

■ [Help] Menu



[About Retouch]

Displays the version information of Retouch function.

Outputting

Not only can you enjoy looking at pictures acquired from a digital camera in the picture browser, but you can also print them with a printer, or attach them to e-mails. You can also make wallpaper from them. One of the features of the PHOTOfunSTUDIO is the ability to output pictures acquired in various formats.

- Dutput flow ⇒63

Not only can you print pictures one by one, but print multiple pictures (2, 4, or 8 pictures) on a sheet of paper to the paper size and print multiple reduced pictures in list form. You can also print the pictures recorded using "SIMPLE MODE" of digital camera to sizes appropriate to those pictures.

- ➤ To attach pictures to e-mails ⇒ 70
 You can easily process pictures so that you can attach them to e-mails.
- ➤ To make wallpaper from pictures ⇒73
 You can make wallpaper from the acquired pictures.
- ➤ To DPOF-set ⇒74
 You can set DPOF setting on the pictures in a memory card.
- ➤ To copy pictures into the memory card ⇒75
 You can write edited or altered pictures into a memory card.

Output flow

You can output pictures as follows.

- Select a desired folder from the folder view, which contains pictures you want to output.
- 2 Preselect pictures. (Selection, marking)
 - This operation is not required when outputting all the pictures within the folder.
 - For the file format that can be output, refer to the page corresponding to each outputting.
- 3 Select a desired output destination in the Output view.



- PrintAttaching to E-mail
- 3 Setting as Wallpaper
- 4 DPOF Setting
- **3** Outputting to the memory card
- If you drag the selected pictures to the output destination button, go to Step 5.

- You can also select any output destination from the context menu opened by right-clicking a picture.
- 4 Select pictures and click [OK].



- A. The selected pictures
- B. The marked pictures
- C. All pictures in the folder
- When you select [DPOF Setting] (4) as the output destination:



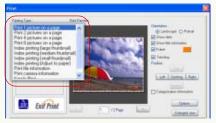
- **D.** Reads the pictures already subjected to DPOF setting on the memory card.
- 5 Set and output.
 - Print ⇒64
 - Attaching to E-mail ⇒70
 - Setting as Wallpaper ⇒73
- 4 DPOF Setting ⇒74
- Outputting to the memory card ⇒75

Printing picture

- ❖ This function cannot be used when the printer setting is not completed on Windows®.

1 Select [as the output destination. (⇒63)

- The printable picture formats are JPEG, BMP, TIFF and MOV format.
- Up to 1,000 pictures can be printed at one time.
- 2 Select a desired print type.



| Print type | Description |
|-----------------------------------|------------------------------------------|
| Print 1 picture on a page | Prints one picture on one sheet. |
| Print 2 pictures on a page | Prints 2 pictures on one sheet. |
| Print 4 pictures on a page | Prints 4 pictures on one sheet. |
| Print 8 pictures on a page | Prints 8 pictures on one sheet. |
| Index printing (large thumbnail) | Prints about 20 thumbnails on one sheet. |
| Index printing (medium thumbnail) | Prints about 40 thumbnails on one sheet. |

| Print type | Description |
|----------------------------------|----------------------------------------------------------------------------------------------------------|
| Index printing (small thumbnail) | Prints about 80 thumbnails on one sheet. |
| Index printing (Adjust to paper) | Prints up to about 160 thumbnails on one sheet, which are sized to the sheet. |
| Print file information | Prints thumbnails and file information as an index print. |
| Print camera information | Prints thumbnails and camera information as an index print. |
| Simple Print*1 | Prints the pictures recorded using "SIMPLE MODE" of digital camera to sizes appropriate to picture mode. |

- Pictures are arranged after automatically enlarged or reduced to the sheet size (except in [Simple Print]) and rotated.
- *1:In [Simple Print], pictures are arranged on the sheet of paper by the picture mode specified on recording.

The print size of pictures is as given below.

| Mode | Picture size |
|---------------|-----------------------------|
| 4"×6"/10×15cm | L size (89 × 127 mm) |
| E-MAIL | A7 size (70 × 93 mm) |
| ENLARGE | Size adapted to print paper |

Pictures recorded in different modes are not printed together on the same sheet of paper.

When printing pictures other than the ones recorded in "SIMPLE MODE", those pictures are printed in the size adapted to printing paper.

3 Set the layout.



- The contents of the setting vary depending on the print type. (⇒67)
- A picture to be printed is displayed in [Print Preview]. Clicking ② displays the previous or next page, and typing a page number in ① and pressing [Enter] key displays the corresponding page.
- When you want to examine the picture in the enlarged view, click [Enlarged view].
- The inside of the dotted-line frame (red) is to be printed.
- If there are pictures imprinted with the date and title information from a digital camera that is compatible with the [DATE STAMP] and [TEXT STAMP] functions, the message "The same data will be printed over the existing date and the title information" appears when [Show date] or [Show title information] is checked. If [Yes] is clicked, the recording date and the title information will be added when printing because these check boxes remain selected. (Confirm the printed contents in [Print Preview].)

If [No] is clicked, these check boxes are cleared, and the recording date and the title information will not be added.

(If there are pictures with the date and the title information inserted by other than the [DATE STAMP] and the [TEXT STAMP] functions, the message will not appear, so check the contents carefully with [Print Preview] before printing.)

4 Select when compensating using PRINT Image Matching*2 information or Exif Print*2 information.



- You cannot compensate thumbnail pictures.
- If you select any printer or paper incompatible with PRINT Image Matching or Exif Print, the selection is cancelled.
- *2:Refer to Glossary.

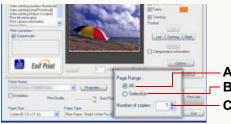
5 Perform paper setting.



- A. Select a printer.
- **B.** When you select this check box, borderless printing (which refers to printing without leaving any margins of the paper) is set.
 - This option can be selected when you use a printer compatible with EPSON EasyPrintModule*3. If your printer is incompatible with it, set from **D**.
 - You cannot select this check box if your printer is incompatible with borderless printing.
- C. Select a paper size.
- **D.** When you click this button, the Properties screen of the printer appears. You can adjust Advanced settings of the printer there.
 - The settings specified in the Properties screen are reflected on items **A** to **F**.
- **E.** Set the picture quality.
 - This option can be selected only when you select a paper type permitting picture quality setting.
- **F.** Select a paper type.

- This option can be selected when you use a printer compatible with EPSON EasyPrintModule*3. If your printer is incompatible with it, set from **D**.
- *3:EPSON EasyPrintModule is a programme, supplied from EPSON, which permits you to easily configure the print settings of your printer from compatible application software. If you use an EPSON printer, install the module supplied with your printer.

6 Set the print range.



[Page Range]

- A. Prints all pages.
- **B.** Prints only pages displayed in [Print Preview].

[Number of copies]

- **C.** Sets the number of prints for one page.
 - You can set in the range of 1 to 9,999.

7 Click [Print start].

- To stop printing, click [Exit].
- To break printing halfway, click [Cancel].
- With motion pictures, the first scene of the motion picture is printed. You cannot select a scene halfway to print.

Details of layout setting

[Print 1 picture on a page]



 [Print 2 pictures on a page], [Print 4 pictures on a page], [Print 8 pictures on a page]



• [Index printing]



• [Print file information], [Print camera information]



• [Simple Print]



- A. Select a desired orientation of paper.
- **B.** If you check this box, the date of recording is displayed on the picture.
 - If there is no information about the recording date, the last update date is displayed.
 - The date is set in accordance with the Regional Settings in Windows[®] Control Panel.
 - The date may not be properly added and printed on pictures for which the date was not set on the digital camera or those recorded by digital cameras made by other than Panasonic.
 - Set a digital camera equipped with the [BABY] mode to [WITH AGE] and take pictures, and the pictures are printed with the age in months/years as well as the date of recording. (This setting can be changed. (⇒69))
 - Set a digital camera equipped with the [PET] mode to [WITH AGE] and take pictures, and the pictures are printed with the age in months/years as well as the date of recording. (This setting can be changed. (⇒69))
 - If the digital camera is equipped with a [TRAVEL DATE] function and you set this function and take pictures, the pictures are printed with number of travel days (××th day of travel) as well as the date of recording. (This setting can be changed. (⇒69))
- **C.** If you check this box, the title information will be printed on the picture.
- **D.** If you check this box, a frame is added around the picture.
 - Clicking [] opens the colour selection panel, on which you can set the colour of the frame.
- **E.** If you check this box, the picture is printed without changing its size.
 - When the picture lies off the edges of the paper, you can adjust its position by clicking the operating buttons

([Top]/[Bottom]/[Left]/[Right]).

If you click [Centring], the picture is adjusted so that its centre will match the centre of the print area (inside the dotted-line frame).

- When you adjust the picture to print it in full on the paper, the picture may be cut due to errors in feeding paper, in process to enlarge or minimise the size of the picture, etc. When you trim the picture, leave a little blank/white space on the sides of the paper.
- If you clear this check box, the whole picture is printed.
- **F.** If you check this box, categorisation information (comment, keyword) are displayed in the lower part of the paper.
 - This takes effect only when information is set in the picture file.
 - The line feed position of the comment on the preview screen may differ from the line feed position on the actual print.
- **G.** Enter letters and they will appear in the upper part of the paper.
- **H.** If you check this box, the paper number is displayed in the lower part of the paper.
- I. Set the contents displayed under each thumbnail.

 Clicking [Options] button enables you to make more detailed settings.



[Date setting]

If adding the recording date on the picture, you can set the following items.

- **A.** You can show/hide information other than the recording date ([Travel date] <××th day of travel> and [Baby/Pet] <age in months/years>).
- B. Set the display position.
- **C.** Clicking [____] opens the colour selection panel, on which you can set the colour of the letters.

[Set title information]

To add title information to a picture, set the following items.

- **D.** You can select either [Top] or [Bottom] of the display position.
 - Printing is normally done from the left side of the picture.

- If the position for the printing date is the same position as the title information (top left or bottom left), the title information will be printed on the right side of the picture.
- **E.** Clicking [] opens the colour selection panel, where you can set the colour of the characters.

[Set the categorisation information]

If adding the categorisation information, you can set the following items.

- **F.** You can select categorisation items to be displayed.
- **G.** Set the display position.
- **H.** You can make the background transparent/opaque.

[Font setting]

- Types of characters (fonts) used for the date, title information and categorisation information can be set.
- If you rotate pictures recorded in portrait orientation lengthwise beforehand, you can print the date etc. on the position determined.

Attaching pictures to e-mail

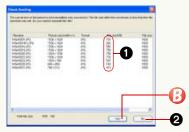
You can attach acquired pictures to e-mail. You can change both the file size and picture size at the same time that is necessary when attaching pictures to e-mail.

- ❖ With e-mail software other than Windows[®] Mail, Microsoft[®] Outlook[®] and Microsoft[®] Outlook Express, attaching pictures to e-mails using this function may not work.
- 1 Select [select [select] as the output destination. (⇒63)
 - The picture formats that can be attached to e-mails are BMP, JPEG, TIFF and MOV.
 - You can attach up to 20 pictures at one time.
- 2 Set the picture size and file size to appropriate size and click (1).



For details, see ⇒72.

3 Check the current settings and then click 3.



- If the file size exceeds the set size, the file size (1) is displayed in red. When you want to review the picture size or other information, you can return to the setting panel by clicking 2.
- It is recommended to restrict the total file size of an e-mail (the file size of the message text plus those of pictures to be attached) to 1 MB.
- The e-mail software starts and the message box is opened with the picture attached. Enter the required items.



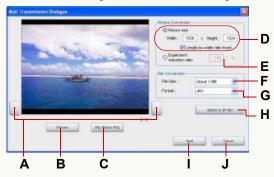
• Enter the destination, title and message and send it as you normally would.

If you cannot attach a file to an e-mail

The e-mail software must be set up. Exit from the PHOTOfunSTUDIO, and set up as follows:

- 1) Activate the mail software to be set up.
 - If you activate it for the first time, set the mail addresses, etc.
- 2) If the message, [Would you like to make it your default client?] appears, select [Yes].
 - If the message does not appear, refer to the operating instructions of the e-mail software to set the e-mail software as the default client.
 - Example: Select [start] >> [Control Panel] and open [Internet Options]. Then click [Programs] tab, select the software you use on [E-mail] and click [OK].
 - The contents of the message vary by the e-mail software you are using.
 - Also read the operating instructions for the e-mail software.

Advanced settings for e-mail sending



Picture file confirmation buttons

- **A.** Clicking these buttons switches to the previous and the next picture when multiple pictures are selected.
- **B.** A picture converted with the set conditions is temporarily displayed. (Preview)
 - Preview is allowed by an application associated with the converted picture.
 - You cannot switch to the previous or subsequent pictures on the preview screen.
- **C.** The properties of the original picture are displayed.

Picture size setting

- **D.** You can specify any size. The settable maximum picture size depends on the amount of memory installed in the PC.
 - Be aware that the attached picture will be skewed if the set aspect ratio differs from that of the original picture.

- With [Length-to-width ratio fixed] selected, when you enter any number in either [Width] or [Height] area, an appropriate number that maintains the original picture's length-to-width ratio is automatically set in the other area.
- **E.** Sets the picture size by the zoom ratio. The settable zoom ratio is 1% to 200%.

Setting the file size and picture format

- **F.** Sets the target file size for a picture to be attached. The selectable target values are [About 100 KB], [About 300 KB], [About 500 KB], [About 1 MB], and [Not specified].
 - However, if formats other than JPEG is selected in [Format], the file size cannot be set.
- G. Set if you convert the format of the picture when it is attached to an e-mail. The selectable picture formats are [JPG], [BMP] and [TIF].

Others

- **H.** The picture size, file size and file format currently set is applied to all the pictures selected. Click this if you apply the same settings to all the files to be attached.
- I. Opens [Check Sending].
- J. The attachment is cancelled and the panel is closed.
- MOV file cannot be converted to other size or file formats. (The buttons are greyed out.)

Using a picture as wallpaper

1 Select [state output destination. (⇒63)

- The picture formats that can be used as Wallpaper are BMP, JPEG and TIFF.
- · Only one picture can be set.
- 2 Select the display position with (2) and click (3).



• You can select a desired display position from among the following.

[Stretch]:

The picture is expanded as large as the desktop to be displayed.

[Center]:

The picture is displayed on the centre of the desktop.

[Tile]:

The picture is duplicated and laid on the entire screen.

- If the selected picture is larger than the desktop size, a message asking whether or not the picture size is changed will appear. If you want to change the picture size to the desktop size to use the picture as wallpaper, click [Yes].
- If the wallpaper is not displayed, click the desktop and press the [F5] key, and it will be displayed.
- ❖ When the aspect ratio of the picture set as a wallpaper is different from that of the display of your PC, the picture may be stretched vertically or horizontally. In this case, set [Picture Display] to [Center] or [Tile].
- ❖ [PHOTOfunSTUDIO wallpaper] will be created on the desktop setting screen of the PC.
- ❖ On Windows® 98SE/Me, the settable maximum size of the picture as a wallpaper is 2048 dots high and 2700 dots wide. If you attempt to set a picture which is larger than the maximum size without resizing, the error message appears and the wallpaper setting screen will be closed.

DPOF-setting

- Only the still pictures (JPEG format or TIFF format) in the memory card recorded by a digital camera can be DPOF-set. Select pictures in [Memory Card] on the folder view. (Cannot be set if the pictures are selected from memory card drive in [Explorer].)
- 1 Select [
- DPOF Services

] as the output destination. (⇒63)

- Only one memory card can be DPOF-set at one time.
 If pictures are selected from multiple memory cards
 (selected with the mark), the memory card selection
 screen will appear. Specify a desired memory card by
 the drive letter (e.g., C, D) and click [OK]. (Pictures in
 other memory cards cannot be DPOF-set.)
- 2 Set the number of prints and other items.



- Displaying the target picture
- A. Displays the file name of the target picture.
 - When two or more pictures are selected, you can switch between them using [], [], and [].

- Setting the number of copies to be printed
- **B.** You can set the number of copies to be printed.
 - Specify the number of copies to be printed with []. (0 to 999 can be specified.)
 - If 0 is specified in [Number of copies being printed], the DPOF setting for the picture will be cancelled.
 - If [Do not print] is selected, the DPOF setting will not be allowed.
- C. No printing.
- **D.** The same settings are applied to all the selected pictures.
- Setting the date printing
- **E.** If you select it, you can print pictures with the date (recording date). You cannot select this when the pictures have no recording date information.
- Displaying the total number of copies to be printed
- **F.** The total number of copies to be printed for pictures in the memory card is displayed.
- 3 Click (1).

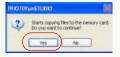
The contents set are written onto the memory card.

- ❖ Refer to the "Glossary" for "DPOF". (⇒103)
- If you change a file name of a picture etc. on the PC, the picture cannot be DPOF-set.
- ❖ Pictures on unsupported memory cards cannot be DPOF-set.
- The contents of the DPOF setting will be saved as [AUTPRINT.MRK] in the [MISC] folder in the memory card.
- After setting, the DPOF data saved in the memory card can be used on a printer supporting DPOF, etc.

Writing pictures onto a memory card

You can copy (output) pictures acquired to the PC (hard disk) or pictures processed to a memory card in the format that can be reproduced by your digital camera.

- ❖ Connect a digital camera with a memory card, or a USB reader/writer (optional) or PC card adapter (optional) for memory card to your PC in advance. (For the method of connecting this camera: ⇒8, For the method of connecting USB reader/writer or PC card adapter: see operating instructions of each devices)
- 1 Select [select ination. (⇒63)
- 2 Click [OK].



Pictures are copied to the memory card.

- Pictures are saved in the format that can be reproduced by the digital camera. (⇒76)
- The picture formats that can be written into memory cards are BMP, JPEG, TIFF, MOV and RAW.
- When multiple memory cards are connected, the following screen appears. Click 1 to select a

desired memory card to copy pictures to by the drive letter (e.g., C, D) and click [OK].



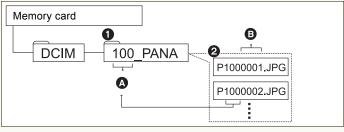
 When no memory card is connected, the following screen appears if any removal disk drive is connected.
 Click [OK] and pictures are copied onto the removal disk.



- Use a memory card with a sufficient free space. If the free space is lacking, pictures are copied only halfway.
- ❖ When outputting pictures with "FAVORITE" icon [☐] and reproducing them with a compatible digital camera, "FAVORITE" icon is also displayed in the pictures on the digital camera. (Only for JPEG and TIFF files with Exif information.)

Saving folder, saving format, and file name

Pictures are copied to 1 folder with file name like 2.



A:100-999 (Folder number) **B**:0001-9999 (File number)

The saving format of each file is as follows.

| files | save format |
|----------------------|-------------|
| ВМР | Exif JPEG |
| JPEG, TIFF, MOV, RAW | unchanged |

If any selected file is associated with a different file (hereafter referred to as an "associated file"), both of two files are copied onto the memory card with the association maintained. (This holds true only when both two files can be copied to a memory card.) If the association with one another is not established, they sometimes cannot be reproduced by the digital camera.

(Associated file: ⇒103)

The alphabetic characters of folder names differ from those in the figure, depending on the model used.

- If there are multiple saving folders, pictures are saved in the folder with the largest folder number. If [100_PANA] and [102_PANA] exist, for example, pictures are saved in [102_PANA].
- If there is no saving folder, a folder is created automatically. (The folder name is [100_PSDV].)
- Numbers following the last number in the folder are assigned to files.
 For example, if the picture file with the largest number among the picture files that exist in a folder is [P1050005.JPG], the file names of pictures to be saved are [P1050006.JPG], [P1050007.JPG]...
- Some files are incapable of reproduction, depending on digital cameras.
- Even if a file is of a format capable of reproduction, it sometimes cannot be reproduced depending on its file specifications such as picture size and frame rate. For the specifications of compatible files, refer to the operating instructions supplied with the digital camera.

Other settings

You can narrow types of pictures to be displayed in the picture browser or change the order of pictures displayed.

- -To select a display format (mode) ⇒78
- -To change the order of pictures displayed ⇒79
- -To narrow types of pictures to be displayed ⇒80

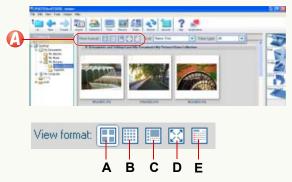
If an application is registered in the launcher, you can activate the application by clicking it on the PHOTOfunSTUDIO screen.

- - You can set the types of folders to be displayed in the folder view and create, delete or rename a folder.
- ➤ To view the properties of a picture file ⇒86
 If you open the properties sheet for a picture file, you can get various information about the picture.
- > To change the default settings of acquisition, picture show and rotation
 - -Changing the default settings of acquisition ⇒88
 - -Changing the default settings of picture show ⇒90
 - -Changing the default settings of rotation ⇒91

Customising picture display

Changing view format of picture browser (View format)

1 Select view format in (A).



- **A.** Displays pictures in thumbnail view (160 pixels \times 160 pixels). (List mode)
- **B.** Displays pictures in thumbnail view (80 pixels \times 80 pixels) using thumbnails smaller than the ones in **A**. (List mode)
- **C.** The view format of the selected pictures is changed to the Focus mode.
 - When no pictures are selected, the first picture in the folder is displayed.
 - · Picture information is also displayed.
- D. The view format of the selected pictures is changed to the Full Screen mode.

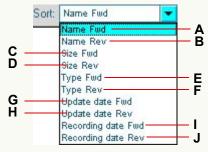
- When no pictures are selected, the first picture in the folder is displayed.
- To return to the previous screen (mode), press the [Esc] key or click [].
- **E.** Pictures are sorted by recording date and displayed in the calendar format. (Calendar mode)
- When the size of the picture file is huge or the picture is in special format, the picture browser may not be changed to the Focus mode or the Full Screen mode.

Changing order of display (Sort)

1 Click In (1).



2 Select the sorting order from the pull-down menu.



- **A.** Files are sorted in ascending order of the alphabet and numbers in the file names.
- **B.** Files are sorted in descending order of the alphabet and numbers in the file names.
- C. Files are sorted in ascending order of the file size.
- **D.** Files are sorted in descending order of the file size.

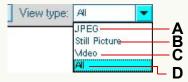
- **E.** Files are sorted in ascending order of the file types (ascending order of the alphabet and numbers of the extensions).
- **F.** Files are sorted in descending order of the file types (descending order of the alphabet and numbers of the extensions).
- **G.** Files are sorted in ascending order of the date of update.
- **H.** Files are sorted in descending order of the date of update.
- Files are sorted in ascending order of the date of recording (or the date of update if no information about the date of recording is available).
- J. Files are sorted in descending order of the date of recording (or the date of update if no information about the date of recording is available).

Setting types of pictures to be displayed in picture browser (View type)

1 Click In (4).



2 Select a type of picture to be displayed from the pull-down menu.



- **A.** Displays JPEG files (only extensions .JPG, .JPEG, and .JPE).
- **B.** Displays all still picture files that can be displayed by the PHOTOfunSTUDIO in thumbnail format. (⇒100)
- C. Displays all motion picture files that can be displayed by the PHOTOfunSTUDIO in thumbnail format. (⇒100)
- **D.** Displays all files. (⇒100)
 - Files that cannot be displayed in thumbnail format are displayed as icons.

Pictures in the types selected and folders are displayed. However, when [View subfolder] on the [View] menu is not selected, no folders are displayed.

Registering application in Launcher

The PHOTOfunSTUDIO allows up to three applications to be registered in the menu of the launcher button.

- 1 Click [] in order to open the pull-down menu and click the [Not registered] column.
- 2 Click (1).



 $oldsymbol{3}$ Select the application to be registered and click $oldsymbol{6}$.



The registered application starts up.

- When selected and marked pictures exist, [Picture selection setting] panel is displayed. After you select picture and click [OK], the picture will be displayed in the application. (This takes effect only when the selected or marked pictures are compatible with the application.)
- When there are no selected or marked pictures, the application simply starts up.

• If large number of pictures are selected, the confirmation screen is displayed. To display all pictures, click [Yes]. If [No] is clicked, the application does not start up.

■ To activate the application registered

Click [] to open the pull-down menu, and click the desired application there.

- You can also start the application and display the file by dragging pictures or icons from the picture browser and dropping them on the application column in the pull-down menu.
- To cancel the registration of an application
- 1) Right-click the application to be removed.
- 2) Click 1.



3) Click 2.

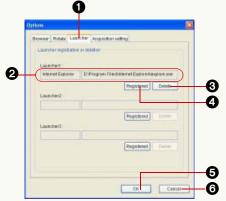
■ To replace an application registered

Right-click the application to be replaced. Click [Registered]. Subsequently, follow the normal application registration procedure.

■ To register/delete applications from the menu

You can also register/delete applications from the menu.

- 1) Select [Tools] >> [Options] from the menu.
- 2) Click 1 and then click 4.



[Open] panel appears.

3) Select the application to be registered and click [Open].

The application name and the path name appear on 2.

4) Click 6.

Registration is completed.

• To delete the registration, click ③. When you click [Yes] on the confirmation screen, the registration of the application will be deleted. (The application cannot be restored after this even if you click ⑥.)

Managing folders

Opening/closing the folder view

You can open or close the folder view by clicking the folder view open/close button.



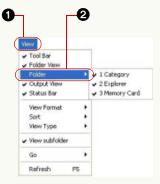
Opening the window

To open each window, click its title bar (e.g., [Explorer]). When you open another window, the currently-open window closes.



Setting types of folders to be displayed

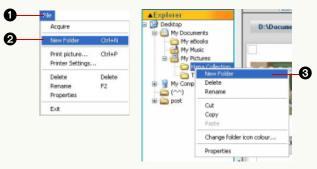
You can set the type of folder to be displayed in the folder view by selecting ① >> ② from the menu. (If the type of folder ([Categorize], [Explorer], [Memory Card]) is clicked to be deselected, it will be hidden.)



Creating a new folder

You can create a new folder in [Explorer].

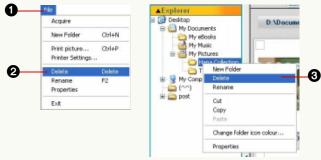
1) Select a folder in which a new folder is to be created. Select 1 >> 2 from the menu.



- You can also create a new folder by right-clicking the folder and selecting 3 from the context menu.
- You cannot create a new folder in [Categorize] or [Memory Card].

Deleting a folder

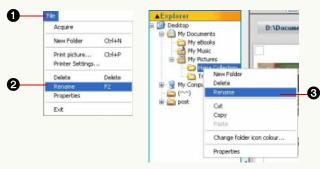
1) Select the folder to be deleted. Select 1 >> 2 from the menu.



- You can also delete the folder by right-clicking the folder and clicking 3 from the context menu. (It is displayed as [Delete Category] on [Categorize].)
- [Baby mode], [Pet mode], [Travel date] and [My favorites] folders in [Keyword] categorisation in [Categorize] cannot be deleted.
- In the case of [Categorize], the categorisation information will be deleted. The picture itself registered in [Categorize] will not be deleted from the PC.
- You cannot delete folders in [Memory Card].

Renaming a folder

1) Select the folder to be renamed. Select 1 >> 2 from the menu.



- You may also rename the folder by right-clicking the folder and selecting **3** from the context menu.
- 2) Input a new name and press [Enter] key.
- You can only rename folders in [Keyword] categorisation in [Categorize]. (However, you cannot rename [My favorites], [Baby mode], [Pet mode] and [Travel date] folders. If you rename a folder with the name [My favorites], [Baby mode], [Pet mode] or [Travel date], the folder cannot be renamed again after that.) You cannot rename a folder in [Memory Card].

■ Changing the colour of folder icon

You can change the colour of the folder in [Explorer].

1) Right-click the folder that you want to change in colour, and select 1 from the context menu.



2) Select a desired colour and click 2.



- If you want to bring the colour to the original, click 3.
- You cannot change the colour of any folder in other than [Explorer].

Properties of picture file

You can confirm various pieces of picture information in [Properties] screen.

- ❖ If there is no information about an item, it will be displayed as [-] etc.
- 1 Select a picture in the picture browser.
- 2 Right-click the picture to open the context menu and select [Properties].

The properties sheet for the picture file opens.

- You can also open the properties sheet by selecting [File] >> [Properties] from the menu.
- When in the Focus mode, the same information is displayed in the information window. (You cannot open the properties sheet.)

■ File information



• The file name, file size, file size on the disk, file type, file location, etc. will appear.

Camera information



 The name of manufacturer of the digital camera used, model name, recording date, shutter speed, aperture value, etc. are displayed. However, the camera information of the picture files recorded by a digital camera made by other than Panasonic or processed may not be properly displayed.

■ Categorisation information



• If categorisation information is registered, each item is displayed.

■ Comment information

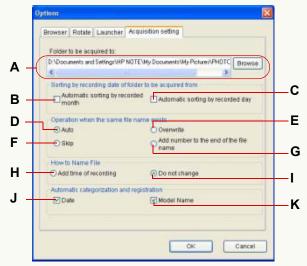


- You can directly enter and edit comments.
- Up to 256 characters can be entered.
- You can add a comment only to compatible pictures on your hard disk.

It is impossible for you to add a comment to pictures on the memory card, etc.

Changing the settings of acquisition

To change the settings of acquisition, select [Tools] >> [Options] on the menu, and click [Acquisition setting] tab.



- Destination folder
 - **A.** You can change the acquisition destination folder. Click [Browse] and select a desired folder.
- Automatic sorting of acquire destination folders by recording date

You can sort and save pictures by the recording month or recording day. Select a desired sorting method.

B. Sorts pictures by the recording month.

Monthly folders are created in the designated folder

(Example: the folder of May 2005 is [200505]), and acquired pictures are automatically sorted and saved.

C. Sorts pictures by the recording day.

Daily folders are created in the designated folder
(Example: the folder of May 1, 2005 is [20050501]),
and acquired pictures are automatically sorted and
saved.

• Method of handling files with the same file name

You can select a handling method from among the following, when a file (picture) with the same name already exists in the acquisition destination folder.

- In the case of associated files, if there is a file with the same name as one of them, both of the two undergo the same processing. (Associated file: ⇒103)
 - **D.** Compares the date of update and the size. If the date and the size of the file in the destination folder are the same as those of the file to be acquired, acquiring the file is cancelled. If either the date or the size of the file in the destination folder is different, the file is acquired with a suffix serial number with brackets.
 - **E.** Overwrites the existing picture.
 - **F.** The file with the same name is not acquired and the subsequent file will be acquired.
 - **G.** Adds a suffix serial number with brackets to the file, then acquires it.

• File naming method

- **H.** You can select this option when sorting acquisition destination folders by recording month or date. Files are named after the date and time of recording. For example, if the date and time of recording is at 12:34:56 on May 1, 2005, the picture file is named [01123456] and saved in the folder [200505] when sorted by the recording month. When sorted by the recording day, the picture file is named [123456] and saved in the folder [20050501].
 - If associated files are acquired by this method, the association comes not to be established.
 When acquiring associated files, you are recommended to save them without changing their original file names. (Associated file: ⇒103)
- **I.** Files are saved using their original file names.

Setting automatic categorisation

You can categorise and register pictures on a selected condition concurrently with acquisition. (This holds true only when the pictures have such information.)

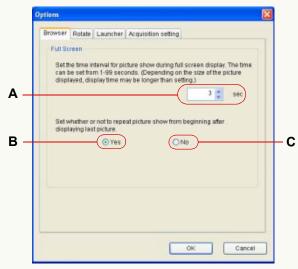
- All items are checked by default.
 - J. Files are categorised by the date of recording.
 - **K.** Files are categorised by the model name of the digital camera.
- Categorisation by keyword ([My favorites], [Baby mode], [Pet mode], [Travel date], [Pictures acquired ×××(date)]) is executed at all times. This setting cannot be cancelled.
 - -[My favorites]: The pictures set to "FAVORITE" by a compatible digital camera are categorised by keyword [My

favorites].

- -[Baby mode]: The pictures recorded with [WITH AGE] by the digital camera that supports [BABY] mode are categorised by keyword [Baby mode].
- [Pet mode]: The pictures recorded with [WITH AGE] by the digital camera that supports [PET] mode are categorised by keyword [Pet mode].
- -[Travel date]: The pictures recorded with the [TRAVEL DATE] function by the digital camera that supports [TRAVEL DATE] function are categorised by keyword [Travel date].
- -[Pictures acquired ×××(date)]: All acquired pictures are categorised by keyword [Pictures acquired ××× (date)].
- If pictures are recorded by digital cameras made by other than Panasonic or whose recording date is outside the 1971 to 2037 range, they may not be sorted into the acquisition destination folder by recording date or categorised by recording date.
- Pictures that cannot be sorted into acquisition destination folders by recording date will be saved with the original file name in the specified folder.
- Pictures that cannot be categorised by recording date will be registered as [Pictures with no date] files in [Keyword] folder in [Categorize].

Changing the settings of picture show

You can change the settings for the function to display pictures in succession in Full Screen mode. Select [Tools] >> [Options] from the menu to open the [Options] panel, and then click the [Browser] tab.



• Display period for a picture

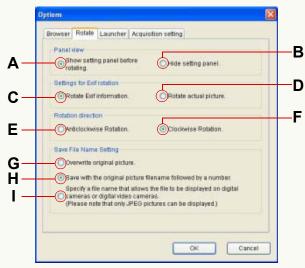
- A. Click to set the period.
 - The settable period is between 1 and 99 seconds.
 - For motion pictures, the next picture will be displayed after a full video clip is played back, irrespective of the period set.

Repeated playback

- **B.** When the last picture is reached, the procedure returns to the first picture and the picture show repeats.
- **C.** When the last picture is reached, the picture show stops.

Changing the settings of rotation

Select [Tools] >> [Options] from the menu to open the [Options] panel, and then click the [Rotate] tab.



Setting the panel display

- **A.** When [is clicked, the advanced settings panel for rotation will be displayed. (⇒51)
- **B.** When [] is clicked, the advanced settings panel will not be displayed and the rotation will be executed in the following settings.

Setting the Exif rotation

- **C.** Only the Exif information of a picture file is overwritten and the picture is rotated. It may not look rotated on some applications. (Picture files without Exif information cannot be rotated.)
- **D.** The picture data itself is rotated. However, the picture quality may be deteriorated because the picture will be recompressed.

Setting the rotating direction

- **E.** Rotates the object 90° anticlockwise.
- **F.** Rotates the object 90° clockwise.

Setting the saving method

- **G.** The rotated picture is saved with the same file name as the original picture by overwriting it.
- **H.** A parenthetic number, such as [P1000123(1)] will be suffixed to the file name.
- **I.** A file name consisting of four alphabetical characters and four digits, such as [IMGA0123] is given.
 - Note that only JPEG pictures can be played on a digital camera.

Convenient information

Tool bar



- 1 Opens the parent folder of the currently-open folder in the picture browser.
- 2 Opens the folder selected previously in the picture browser. 10 Launches an application registered. (⇒81)
- **3** Opens the folder selected next in the picture browser.
- **4** Acquires pictures from the memory card. (⇒19)
- **5** Categorises pictures. (⇒30)
- **6** Executes picture processing, e.g. resizing, format conversion, and date insertion. (⇒39)
- **7** Starts the retouch function. (⇒53)
- *1:This button is not displayed if "LUMIX Simple Viewer" is not installed.

- **8** Rotates the picture. (⇒51)
- **9** Refreshes the picture browser and the folder view. (⇒29)
- **11** Starts the operating instructions on the PC.
- 12 Exits PHOTOfunSTUDIO and starts a simplified version of PHOTOfunSTUDIO, "LUMIX Simple Viewer". (For details, refer to the Operating Instructions "For Digital Camera PC connection.")*

Picture browser view setting area



- **1** Selects the display format (mode) of the picture browser. (⇒78)
- **2** Selects the order of picture display of the picture browser. (⇒79)
- **3** Selects a file type of picture to be displayed in the picture browser. (⇒80)

Status bar

1 2 3

1 Number of files marked

3 Total number of files in a selected folder

2 Number of files selected

Output view



- **1** Prints pictures. (⇒64)
- **2** Attaches pictures to an e-mail. (⇒70)
- **3** Sets a picture as a Windows[®] wallpaper. (⇒73)
- **4** Sets DPOF setting to pictures in a memory card. (⇒74)
- **5** Copies pictures onto the memory card. (⇒75)

Menu

[File] menu



[Acquire]

Acquires pictures from the memory card. (⇒19)

[New Folder]

Creates a new folder. (⇒84)

[Print picture]

Pictures can be printed. (⇒64)

[Printer Settings]

The [Print Setup] dialogue is displayed to set the printer type and paper size.

[Delete]

Deletes a selected picture file or folder.

[Rename]

Changes the name of a selected picture file or folder.

[Properties]

Displays the information of a picture or folder being selected. $(\Rightarrow 86)$

[Exit]

Exits PHOTOfunSTUDIO. (⇒10)

■ [Edit] menu



[Cut]

Cuts the selected picture file or folder.

[Copy]

Copies the selected picture file or folder.

[Paste]

Pastes the picture file or folder that has been copied or cut.

[Select All]

Selects all the pictures displayed in the picture browser.

[Deselect All]

Deselects all the pictures selected.

[Invert Selection]

Deselects the pictures selected, and selects the pictures not selected while the pictures are displayed in the picture browser.

[Mark on/off]

Reverses the marks on the selected pictures. When marks are set on the pictures, the pictures are unmarked. When marks are not set on the pictures, the pictures are marked.

[Cancel all marks]

Cancels the marks by deselecting all of the marked pictures.

[Copying marked files]

You can specify the destination and copy all of the marked pictures.

[Moving marked files]

You can specify the destination and move all of the marked pictures.

■ [View] menu



[Tool Bar]

Switches between the displayed and the hidden state of the tool bar.

[Folder View]

Switches between the displayed and the hidden state of the folder view.

[Folder]



Selects the type of folder to be displayed in the folder view. Checked folders are displayed and deselected folders are not displayed. (\$83)

However, you cannot deselect all the folders.

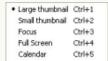
[Output View]

Switches between the displayed and the hidden state of the output view.

[Status Bar]

Switches between the displayed and the hidden state of the status bar. (⇒93)

[View Format]



Sets the display format of the picture browser. $(\Rightarrow 78)$ [Sort]



Selects the order of picture display in the picture browser. $(\Rightarrow 79)$

[View Type]

JPEG Still Picture Video • All

Selects a file type of picture to be displayed in the picture browser. (⇒80)

[View subfolder]

Displays sub folders in the picture browser when this is selected.

[Go]

Up Backspace Back Alt+Left Arrow Forward Alt+Right Arrow

Switches the selected folder.

[Up]

Opens the immediate upper folder when any of folders in [Explorer], [Categorize] or [Memory Card] are displayed on the picture browser.

[Back]

Opens the folder selected previously in the picture browser.

[Forward]

Opens the folder selected next in the picture browser.

[Refresh]

Updates the contents of the folder displayed in the picture browser. $(\Rightarrow 29)$

■ [Tools] menu



[Categorise]

Categorises pictures. (⇒30)

[Resize]

Changes the picture size. (⇒42)

[Format conversion]

Changes the format of pictures to another format. (⇒43)

[Batch renaming]

Changes the file names of multiple pictures at one time. $(\Rightarrow 44)$

[Recording date change]

Corrects the recording date information of pictures. (⇒48)

[Rotate]

Rotates pictures. (⇒51)

[Retouch]

Starts the retouch function. (⇒53)

[Burn-in]

Inserts the recording date and the title information on a picture. (⇒46)

[Create still pictures]

Creates still pictures from motion pictures. (⇒49)

[Options]

Opens the detail setting screen of the PHOTOfunSTUDIO.

(⇒88) (⇒90) (⇒91)

■ [Output] menu



[Print]

Prints pictures. (⇒64)

[Mail]

Attaches pictures to an e-mail. (⇒70)

[Wallpaper]

Sets a picture as wallpaper. (⇒73)

[DPOF Setting]

Sets DPOF setting to pictures. (⇒74)

[Memory Card]

Copies pictures onto the memory card. (⇒75)

■ [Help] menu



[Manual]

Starts the operating instructions (this manual) on the PC.

[About]

Displays the version of PHOTOfunSTUDIO.

Context menu

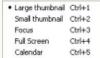
Context menu on the picture browser

The context menu is displayed by right-clicking the mouse when the picture browser is in the List mode, Focus mode or Calendar mode and the mouse pointer is on a picture displayed in it.



[View Format]

Sets the display format of the picture browser. (⇒78)



[Large thumbnail]

Displays pictures in thumbnail view. (List mode)

[Small thumbnail]

Displays pictures in thumbnail view with smaller thumbnails. (List mode)

[Focus]

Changes the picture browser's mode to the Focus mode and displays a picture selected. (⇒14)

[Full Screen]

Changes the picture browser's mode to the Full Screen mode and displays a selected picture full screen. (⇒15)

[Calendar]

Changes the picture browser's mode to the Calendar mode and displays thumbnails in monthly calendar view. (⇒16)

[Cut]

Cuts the selected picture file or folder.

[Copy]

Copies the selected picture file or folder.

[Paste]

Pastes the picture file or folder that has been copied or cut. $(\Rightarrow 27)$ $(\Rightarrow 28)$

[Delete]

Deletes the selected picture file or folder. (⇒29)

[Rename]

Changes the name of a selected picture file or folder.

[Mark on/off]

Reverses the marks on the selected pictures. When marks are set on the pictures, the pictures are unmarked. When marks are not set on the pictures, the pictures are marked.

[Cancel all marks]

Cancels the marks by deselecting all of the marked pictures.

[Clockwise 90-degree rotation], [Anticlockwise 90-degree rotation]

Rotates the selected picture to the right (clockwise) or left

(anticlockwise) by 90°.

 Only JPEG or TIFF format pictures with Exif information can be handled.

[Print]

Prints pictures. (⇒64)

[Mail]

Attaches pictures to an e-mail. (⇒70)

[Wallpaper]

Sets a picture as wallpaper. (⇒73)

[DPOF Setting]

Sets DPOF setting to pictures. (⇒74)

[Memory Card]

Copies pictures onto the memory card. (⇒75)

[Properties]

Displays the information about a selected picture file or folder. $(\Rightarrow 86)$

Context menu on the folder view

■ Context menu on [Categorize]

This context menu is displayed by right-clicking the mouse when the mouse pointer is on a folder name in [Categorize].



[Rename]

Changes the keyword being selected. (⇒35)

[Delete Category]

Deletes a selected categorisation item from the database. The deleted categorisation item disappears from the [Categorize]. (⇒37)

Context menu on [Explorer]

This context menu is displayed by right-clicking the mouse when the mouse pointer is on a folder name in [Explorer].



[New Folder]

Creates a new folder. (⇒84)

[Delete]

Deletes the folder. (⇒84)

[Rename]

Changes the folder name. (⇒85)

[Cut]

Cuts the folder.

[Copy]

Copies the folder.

[Paste]

Pastes the folder that has been copied or cut.

[Change folder icon colour]

Changes the colour of the folder icon. (⇒85)

[Properties]

Displays the information about a selected folder.

Picture files that can be displayed by PHOTOfunSTUDIO

The following picture files can be displayed in each mode of PHOTOfunSTUDIO.

■ Still picture

Still pictures can be displayed in any of the modes: List, Focus, and Full Screen. (They will be displayed as thumbnails in List mode.)

If [Video] is selected as the type of picture displayed, no still picture is displayed. Besides, if [JPEG] is selected, only picture files in the JPEG format are displayed.

JPEG format

JPEG-format files with extensions of .JPG, .JPEG, and .JPE can be displayed.

 JPEG is an abbreviation of Joint Photographic Experts Group, and derives from the designation of the committee that has developed this compression format. This file format adopts the data compression method that thins out colour data from a coloured image to the extent that the human eye cannot discern.

BMP format

BMP-format files with an extension of .BMP can be displayed. However, BMP files of some special formats are excluded.

 BMP is an abbreviation of Bitmap, and an image format most commonly used in Windows[®].

TIFF format

TIFF-format files with extensions of .TIF and .TIFF can be displayed.

• TIFF is an abbreviation of Tagged Image File Format.

■ Motion picture

Motion pictures can be displayed in every mode. The representative picture (typically, the first frame) of a motion picture is displayed. (Motion pictures are displayed in thumbnail view when in List mode.)

Besides, if [Still Picture] or [JPEG] is selected as the type of picture displayed, no motion picture file is displayed.

MOV format

QuickTime motion picture files in Motion JPEG format with extensions of .MOV can be displayed.

To play files in this format, QuickTime is needed.

Other files and folders

RAW format

Only when in the List mode, files with an extension of .RAW can be displayed with [RAW] icon.

Still pictures and motion picture files other than mentioned above, and other files and folders can be displayed as icons when displayed in thumbnail view only.

Troubleshooting (Q&A)

| Q (Question) | A (Answer) |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Even when your digital camera and PC are connected using the USB connection cable, the PC does not recognise the digital camera. | Is any memory card inserted into the digital camera? Depending on the digital camera, it becomes necessary to set the digital camera to be connected with the PC. For details, refer to the operating instructions for the digital camera. |
| | Select [start], right-click [My Computer] and then select [Properties] to open [System Properties]. Furthermore, click [Hardware] tab and then click [Device Manager] to open [Device Manager]. If [Unknown device] is displayed in [Device Manager], disconnect the USB connection cable and reinstall the USB driver. (Only when using Windows 98SE) |
| | If the digital camera is connected with the PC before driver installation, the driver supplied with Windows® is installed and the digital camera may not be recognised properly. (Only when using Windows 98SE) |
| Pictures cannot be displayed in the Focus mode or the Full Screen mode although they can be displayed in thumbnails in the List mode. | Even if the pictures with thumbnail picture as Exif data exceed the applicable maximum file size, they can be displayed in thumbnails only in the List mode. |
| No folder in any network computer can be opened in the [Explorer] of the folder view. | Assign a network drive to the folder you want to open to make it possible to access it by a drive letter (F drive, Z drive, etc.). |

| Q (Question) | A (Answer) |
|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| There are two files with the same name. | Two files associated with each other (associated files) have the same name except for the extension. (⇒103) If the association with one another comes not to be established, they come not be reproduced by the digital camera in some cases. |
| Even after a motion picture is deleted, a still picture identical to the motion picture remains. | When you record motion pictures with a digital camera, both motion pictures (MOV file) and still pictures (JPEG file) are recorded. Even when these associated files exist, only selected pictures can be deleted by PHOTOfunSTUDIO. (If you want to delete both files, then please delete each one individually.) |
| Pictures in the memory card cannot be deleted. | You cannot delete pictures if the write-protect switch on the memory card is set to [LOCK]. |
| Pictures cannot be categorised. Registered categorisation item can not be displayed. | The picture control information file may be destroyed. In such case, delete the picture control information file by selecting [start] >> [All Programs] >> [Panasonic] >> [PHOTOfunSTUDIO -viewer-] >> [Delete picture management information], and categorise pictures again. |

Glossary

Exif

Exif is an abbreviation for Exchangeable Image File Format.

This format embeds information other than a picture in a JPEG or TIFF file. The thumbnail, recording date and time, digital camera name, focal length, aperture, shutter speed, white balance, GPS information (positional information) and other information can be recorded.

PHOTOfunSTUDIO is capable of automatic sorting and printing of the recording date, using the Exif information.

DPOF

DPOF stands for Digital Print Order Format, which allows pictures in a memory card to be added with printing information so that they can be used in DPOF-compliant systems. If you select a file which does not comply with DPOF, the dialogue for DPOF will not appear.

■ Exif Print (Exif2.2)

Nickname of Exif2.2

Exif2.2 refers to technology to print the data recorded with the digital still camera on the printer faithfully.

If you have an Exif2.2-compliant printer and digital camera, the printer refers to the information recorded when the picture was taken to reflect this information on prints.

PRINT Image Matching

This is technology that enables digital cameras and printers to work together, proposed by Seiko Epson Corporation.

If you have a compliant digital still camera and printer, you can reflect the situations at the time of recording and the photographer's intention on prints more faithfully.

Associated file

In PHOTOfunSTUDIO, two files associated with each other are called "associated files". (e.g., JPEG files and MOV files, JPEG files and TIFF files, etc.)

The two files that satisfy the following conditions are judged to be associated files.

- -They exist in a folder.
- -Their file names are identical except for the extension.
- -Their file names are compliant with the DCF standards*.
- * This software recognises as a DCF-compliant file any file with a file name composed of a base name of 8 single-byte characters and an extension of 3 single-byte characters, and with a base name whose first 4 digits consists of single-byte uppercase alphanumerics or "_" and last 4 digits are a number from 0001 to 9999.

 (DCF is an abbreviation of "Design rule for Camera File system", stipulated by "JEITA (Japan Electronics and Information Technology Industries Association)".)

Precautions for use

- Do not unplug the USB connection cable when the PHOTOfunSTUDIO is in use. Otherwise, the software may not operate properly or the data being transferred may be damaged.
- •Do not remove the USB connection cable when the digital camera is accessing the card. Otherwise, the software may not operate properly or the data being transferred may be damaged. Also read the instruction manual for the digital camera.
- When connecting your PC and digital camera, use the AC adapter or a fully charged battery for both of them. If the battery is exhausted during data transfer, the data may be damaged.
- •If the PHOTOfunSTUDIO cannot be started due to the lack of system resources, close other applications and then restart the PHOTOfunSTUDIO.
- •If there are many pictures in a folder, it may take time until they are displayed in thumbnails.
- When a folder containing hundreds of picture files is displayed, thumbnails are sometimes not normally displayed depending on the operating environment.