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About KODAK DC120 Digital Access (TWAIN Acquire)

KODAK DC120 Digital Access (TWAIN Acquire) Software allows applications that support the TWAIN protocol to get pictures stored in the KODAK DC120 digital camera and on an optional KODAK Picture Card (memory card). You can also view and select KDC-format pictures that were copied to your computer using the KODAK Picture Transfer Application or the KODAK DC120 Mounter. For more information on these applications, see the camera *User's Guide*.

Digital Access software lets you:

- View an enlargement of the picture and magnify it to see more detail
- Compensate for the lighting conditions when the picture was taken
- Rotate selected pictures
- Take a picture while the DC120 camera is connected to the computer
- Transfer selected pictures to the host application
- Erase pictures stored in the DC120 camera and on the camera memory card
- Set communication, monitor display, and transfer resolution options
- Change camera preferences
- Setup camera albums
- View information on a selected picture

Application Window

The application window provides the work area for Digital Access software. The application window provides the following elements:

- The **title bar** shows the name of the application. It also contains the System (Control) menu and the Close button. The System (Control) menu contains the About KODAK DC120 Digital Access command.

- The **picture viewing area** shows the welcome screen when you start the application. After you get pictures, the picture viewing area shows either a single picture scaled to fit in the center of the viewing area or shows thumbnails of multiple pictures.

- Twelve **control buttons**:

  - **Get Pictures from Camera** displays the Get Camera Pictures dialog box, from which you can select pictures stored in the camera and on an optional memory card (if the card is in the camera).

  - **Get Pictures from Computer** displays the Get Disk Pictures dialog box, from which you can select and preview KDC-format pictures:

    - From a memory card inserted in a card reader connected to your computer.

    - Copied to your computer using either the KODAK Picture Transfer Application or the KODAK DC120 Mounter. For more information on these applications, see the camera *User's Guide*.

  - **Take a Picture!** takes a picture while the DC120 camera is connected to your computer, displays the picture in the picture viewing area, and stores the picture in the camera.

  - **Rotate** displays the Rotate dialog box, from which you can change the orientation of a single picture or selected thumbnails displayed in the picture viewing area.

  - **Enhance** displays the Enhance dialog box, from which you can change the white balance applied to a single picture or to a selected thumbnail displayed in the picture viewing area.

  - **Transfer Picture(s)** processes the selected picture(s) according to the current preferences and transfers them to the host application.

  - **Preview** displays a single picture in the Preview window. You can view the picture scaled to fit or at its actual size for your screen resolution.

  - **Picture Info** displays the Picture Info dialog box showing information on the selected picture.

  - **Help** displays this file.

  - **Preferences** displays the Preferences dialog box, from which you can set the serial port and speed, monitor display, and transfer resolution preferences.

  - **Camera Functions** displays the Camera Functions dialog box, from which you can set the camera status LCD functions and other camera controls, set up camera albums, and erase selected pictures from the camera or memory card.

  - **Close** exits Digital Access software.

- The **status bar** displays information about actions taking place in the active window and provides instructions on using the feature that the cursor is currently over.

Camera Functions Dialog Box

The Camera Functions dialog box is displayed when you click Camera Functions in the application window. You use the Camera Functions dialog box to view and reset camera settings while the DC120 camera is connected to your computer.

The Camera Functions dialog box consists of the following elements:

- The **title bar** shows the name of the dialog box and contains the Close button.

- Three **tab cards**:

  - **Status LCD Function Setup** shows a representation of the DC120 Status Display controls and lets you set the camera auto focus, auto or manual exposure, flash, picture quality, album, and self-timer settings.

  - **Other Camera Function Setup** provides options that can only be set using Digital Access software. You can designate the camera zoom setting, power-save and color LCD sleep timeout, macro mode unit of measure, date and time display, default flash setting, user name, and camera date and time.

  - **Album Setup** lets you rename and create albums, and then copy them to the DC120 camera.

  Each tab card provides a Help button that displays help on using the card features.

- **Erase Pictures** displays the Erase Pictures dialog box, from which you can select the pictures you want to delete from the camera or a memory card.

- **Close** closes the dialog box without saving any changes not accepted on the individual Camera Functions cards.

See also   Change Camera Preferences
Erase (Delete) Pictures from the Camera
Set Status LCD Functions
Set Up Camera Albums

Get Camera Pictures Dialog Box

The Get Camera Pictures dialog box is displayed when you click Get Pictures from Camera in the application window.

The Get Camera Pictures dialog box consists of the following elements:

- The **title bar** shows the name of the dialog box. It also contains the System (Control) menu and the Close button.

- Three **list boxes**:

  - **File Selection** shows the contents of the folder selected in the Folder Selection list box.

  - **Folder Selection** lets you select the DC120 camera Memory and Card folders on the camera.

  - **Picture Transfer List** displays the filenames of pictures that will be processed.

- The **Preview area** shows a thumbnail of the selected picture. To display the thumbnail, select the Show Thumbnail check box.

- **Add to List** places the filenames of the selected pictures in the Picture Transfer List.

- **Remove from List** removes the selected picture filenames from the Picture Transfer List.

- **Remove All from List** removes all the picture filenames from the Picture Transfer List.

- **Cancel** closes the dialog box without selecting any pictures.

- **OK** retrieves the selected pictures and closes the dialog box. The pictures are displayed in the picture viewing area of the application window.

Get Disk Pictures Dialog Box

The Get Disk Pictures dialog box is displayed when you click Get Pictures from Computer in the application window. You use the Get Disk Pictures dialog box to view and select KDC-format pictures:

- From a memory card inserted in a card reader connected to your computer.

- Copied to your computer using the KODAK Picture Transfer Application or the KODAK DC120 Mounter. For more information on these applications, see the camera *User's Guide*.

The Get Disk Pictures dialog box consists of the following elements:

- The **title bar** shows the name of the dialog box. It also contains the System (Control) menu and the Close button.

- Three **list boxes**:

    - **File Selection** shows the contents of the folder selected in the Folder Selection list box.

    - **Folder Selection** lets you navigate to the folder on your computer where the transferred pictures were copied. You can also select a card reader that is connected to your computer.

    - **Picture Transfer List** displays the filenames of KDC-format pictures that will be processed.

- The **Preview area** shows a thumbnail of the selected picture. To display the thumbnail, select the Show Thumbnail check box.

- **Add to List** places the filenames of the selected pictures in the Picture Transfer List.

- **Remove from List** removes the selected picture filenames from the Picture Transfer List.

- **Remove All from List** removes all the picture filenames from the Picture Transfer List.

- **Cancel** closes the dialog box without selecting any pictures.

- **OK** retrieves the selected pictures and closes the dialog box. The pictures are displayed in the picture viewing area of the application window.

Preferences Dialog Box

The Preferences dialog box is displayed when you click Preferences in the application window. You use the Preferences dialog box to select the connection (communication), monitor display, and transfer resolution preferences.

The Preferences dialog box consists of the following elements:

- The **title bar** shows the name of the dialog box and contains the Close button.

- Three **tab cards**:

  - **Connection Setup** lets you select the computer serial port into which the camera cable is plugged and set the speed used to retrieve pictures from the camera. For detailed information, see Set Communication Options.

  - **Display Setup** lets you customize the monitor setup by designating the values for the monitor gamma, white temperature, and phosphor settings. For detailed information, see Set Display Monitor Options.

  - **Transfer Resolution** lets you select the resolution at which the pictures are retrieved from the DC120 camera and memory card. For detailed information, see Set Transfer Resolution.

  Each tab card provides a Help button that displays help on using the card features.

- **Cancel** closes the dialog box without saving any changes that were not accepted on the individual cards.

- **OK** closes the dialog box and returns you to the application window.

Preview Window

The Preview window is displayed when you click Preview in the application window. The Preview window shows a single picture scaled to fit in the center of the window display area.

The Preview window consists of the following elements:

- The **title bar** shows the window name and contains the Close button.

- The **display area** shows the picture scaled to fit in the center of the display area.

- **View** lets you select the way the picture is displayed in the Preview window.

    - **Scaled to Fit** (the default) shows the picture scaled to fit and centered in the display area.

    - **Actual Size** shows the picture at its actual size for your screen resolution. Depending on your screen resolution, scroll bars may appear in the window.

- **Close** closes the window and returns you to the application window.

Progress Window

The Progress window consists of the following elements:

- The **title bar** shows the name of the window and contains the Close button.
- A **thumbnail** shows the picture that is currently being processed.
- A **progress bar** shows the percentage of each picture as it is processed.
- **Cancel** terminates retrieving or transferring the pictures.

On-line Help

On-line help provides information on using Digital Access software.

- Clicking the green text with a solid underline takes you to that Help topic.

- Clicking the green text with a dotted underline opens a pop-up window containing a definition.

To return to a Help topic you have viewed, click Back on the Help toolbar.

To print the current Help topic, choose File -> Print Topic. The topic is printed to the default printer. You cannot print information that is in a pop-up window.

DC120 camera filename

Pictures stored in the DC120 camera and memory card use the camera template name, a sequential camera picture number, and the camera file extension (for example, `P000111.KDC`). Picture numbers represent the total number of pictures taken by the camera and do not correspond to the current session picture number.

host application

The host application is the software application used to start KODAK DC120 Digital Access (TWAIN Acquire) Software. The host application receives the pictures you transfer from Digital Access software, allowing you to save them to your hard disk.

KDC file format

KDC (KODAK Digital Camera) is a native file format used to store pictures in a digital camera and on a KODAK Picture Card (memory card). You use Digital Access software to retrieve KDC-format pictures from the camera and transfer them to the host application. KDC are compressed.

monitor gamma

Monitor gamma measures the contrast that affects the midtones, allowing you to change the monitor brightness without altering the shadows and highlights.

picture source

The picture source is the location where the pictures are stored. The picture source can be your digital camera memory, a KODAK Picture Card (memory card), or a folder on your computer.

phosphor

Phosphor is the light emitting material (red, green, and blue) in a monitor that creates the range of colors seen on a color display monitor. The type and quality of the phosphors used to coat the glass screen can create color imperfections, and can make the picture look fuzzy and out of focus.

thumbnail

A thumbnail is a miniaturized version of a picture and does not contain all the picture data.

white balance

White balance is the reflection of lighting conditions when the picture was taken.

white temperature

White temperature compensates for the bluish tint found in the monitor display. Most monitors have a white temperature of 9300K, the extreme blue range of the visible spectrum, resulting in a bluish tint in the white areas of the monitor display.

Connect the Camera to the Computer

In order to transfer pictures to your computer, you need to connect the camera to the computer using the Mini-DIN serial cable provided with the camera. If your camera has a 25-pin port, you will need to purchase a 9-pin adapter and connect it to the computer port.

NOTE: You should use only the cable provided with the camera to connect it to the computer.

To connect the camera to your computer:

1. Turn the camera off.

2. Plug one end of the cable (or the adapter) into a COM port on the back of your computer. Make sure the cable is correctly aligned with the port before you push it into place.

    NOTE: Make a note of the computer serial port. You will need this information when you set the communication options.

3. Lift the rubber tab on the camera to uncover the camera serial port and then plug the other end of the cable into the serial port. Make sure the cable is correctly aligned with the port before you push it into place.

4. Turn the camera on.

When you transfer pictures from the camera, it is recommended that you use an AC power adapter to save the camera batteries. For more information, see Connect the Power Adapter.

See also   Error Communicating with the Camera

Connect the Power Adapter

The DC120 camera has a built-in connector that allows you to use an AC power adapter to plug your camera into an electrical outlet. Using a power adapter saves the camera batteries when you view pictures on the camera LCD screen, retrieve pictures from the camera, and transfer pictures to the host application.

NOTE: You should use only the AC adapter designed for the DC120 camera. If you use any other adapter, it can cause camera failure, fire, electric shock, or injury. For information on purchasing a universal power adapter, contact your local Kodak dealer.

To connect a power adapter:

1. Turn the camera off.

2. Lift the rubber tab to uncover the camera power adapter socket and then plug the cable end of the power adapter into the socket.

3. Plug the other end of the power adapter into an electrical outlet.

4. Turn the camera on.

Error in Communicating with the Camera

If the camera cannot communicate with your computer, do the following:

- Check that your camera is securely connected to the computer and that the camera is turned on. Make a note of the serial port into which the camera cable is plugged.

- In the application window, click Preferences to display the Preferences dialog box. In the Communication section, make sure the camera type and serial port selections are correct.

- Verify that the serial port is not being used by an internal device, such as a modem.

- If your computer has infrared capability, turn it off.

- If your computer has a power conservation mode and it is enabled, disable it in the Control Panel.

For more information on system-specified actions, see the computer *User's Guide*.

Exit Digital Access Software

To exit Digital Access software, click Close in the application window or click the Close button in the application title bar.

Get Pictures from the Camera

You can get all the pictures or selected pictures stored in the DC120 camera and on an optional memory card (if the card is in the camera).

To select, preview, and get pictures:

1. Make sure the DC120 camera is connected to the computer and the camera is turned on.

2. In the application window, click Get Pictures from Camera.

    An hourglass and message appear while Digital Access software connects to the camera and retrieves the picture information. If you have a large number of pictures stored in the camera, it may take awhile before the Get Camera Pictures dialog box appears.

    The Folder Selection list box shows the camera type, and the Memory and Card folders. These folders represent the locations where pictures are stored in the camera.

3. To display the picture filenames, do the following as appropriate:

    ◆   To display the picture filenames and albums stored in the camera, click either the Memory or Card folder.

    ◆   To display the contents of an album, click the album folder.

    ◆   To open another folder, navigate to the camera level and then select the camera folder you want. To display the contents of a folder or an album, click the folder.

    DC120 camera picture filenames are displayed as `P000001.KDC`, `P000002.KDC`, and so forth.

4. To preview a picture, click the Show Thumbnail check box and then click the picture filename to select it. A thumbnail of the picture is displayed in the Preview area.

5. To select picture filenames and add them to the Picture Transfer List:

    ◆   **Windows 3.1.** Click the filename of each picture to select it and then click Add to List.

    ◆   **Windows 95.** To select picture filenames, do the following as appropriate:

        •   **One picture.** Click the filename of the picture to select it and then click Add to List.

        •   **Multiple contiguous pictures.** Click the filename of the first picture and then Shift-click the last picture you want to include in the selection. Click Add to List.

        •   **Multiple noncontiguous pictures.** Control-click the filename of each picture and then click Add to List.

        •   **All the pictures.** Click the filename of the first picture and then Shift-click the filename of the last picture. Click Add to List.

    To remove a picture from the Picture Transfer List, click the filename to select it and then click Remove from List.

    To remove all the pictures from the Picture Transfer List, click Remove All from List.

6. When you have selected the pictures you want to retrieve, click OK.

    The progress window shows a thumbnail and progress bar of each picture as it is retrieved from the camera. If you selected:

    ◆   **A single picture,** it is displayed scaled to fit in the center of the picture viewing area. The picture filename is displayed below the picture.

    ◆   **Multiple pictures,** a thumbnail of each picture is displayed in the picture viewing area. The picture filename is displayed below each thumbnail.

You can view information about a picture in the Picture Information window. If you have:

- **A single picture** displayed in the picture viewing area, click Picture Info.

- **Multiple thumbnails** displayed in the picture viewing area, click a thumbnail to select it and then click Picture Info.

You can view an enlargement of a picture in the Preview window. If you have:

- **A single picture,** displayed in the picture viewing area, click Preview.

- **Multiple thumbnails** displayed in the picture viewing area, click the thumbnail to select it and then click Preview.

You can now rotate, enhance, and transfer the pictures to the host application.

See also   Enhance Pictures
                     Rotate Pictures
                     Transfer Pictures

Get Pictures Transferred to the Computer

You can use Digital Access software to select and preview KDC-format pictures:

- From a memory card inserted in a card reader connected to your computer.

- Copied to your computer using either the KODAK Picture Transfer Application or the KODAK DC120 Mounter. For more information on these applications, see the camera *User's Guide*.

To get KDC-format pictures from the computer or a card reader:

1. To select either the folder on your computer where the pictures were copied or the card reader, do either of the following:

   ◆ **From the computer.** In the application window, click Get Pictures from Computer to display the Get Disk Pictures dialog box. In the Folder Selection list box, click the folder on your computer where the transferred pictures were copied.

   ◆ **From a card reader.** In the application window, click Get Pictures from Computer to display the Get Disk Pictures dialog box. In the Folder Selection list box, click the card reader folder.

2. To preview a picture, click the Show Thumbnail check box and then click the picture filename to select it. A thumbnail of the picture is displayed in the Preview area.

3. To select the picture filenames and add them to the Picture Transfer List:

   ◆ **Windows 3.1.** Click the filename of each picture to select it and then click Add to List.

   ◆ **Window 95.** To select picture filenames, do the following as appropriate:

      • **One picture.** Click the filename of the picture to select it and then click Add to List.

      • **Multiple contiguous pictures.** Click the filename of the first picture and then Shift-click the last picture you want to include in the selection. Click Add to List.

      • **Multiple noncontiguous pictures.** Control-click the filename of each picture and then click Add to List.

      • **All the pictures.** Click the filename of the first picture and then Shift-click the filename of the last picture. Click Add to List.

   To remove a picture from the Picture Transfer List, click the filename to select it and then click Remove from List.

   To remove all the pictures from the Picture Transfer List, click Remove All from List.

4. When you have selected the pictures you want, click OK.

   The progress window shows a thumbnail and progress bar of each picture as it is retrieved from the camera. When the picture information is retrieved, you are returned to the application window. If you retrieved:

   ◆ **A single picture,** it is displayed scaled to fit in the center of the picture viewing area. The picture filename is displayed below the picture.

   ◆ **Multiple pictures,** a thumbnail of each picture is displayed in the picture viewing area. The picture filename is displayed below each thumbnail.

Set Communication Options

You use the Connection Setup card from the Preferences dialog box to select the serial port on your computer into which you have plugged the camera cable and to set the speed used to retrieve the pictures from the DC120 camera.

To set communication options:

1. In the application window, click Preferences.

2. On the Connection Setup card, do the following:

    ◆   **Serial port.** From the Serial Port drop-down list box, select the computer serial port into which you have plugged the DC120 camera cable. The default is Auto Search.

        NOTE: Auto Search automatically searches for the serial port, but takes longer to connect to the camera. It is recommended that you select either COM1 or COM2, depending on the serial port you are using.

    ◆   **Speed used to retrieve pictures.** From the Serial Speed drop-down list box, select the baud rate you want to use to get the pictures from the camera. The default is 38.4 KB.

        NOTE: You can use the 230.4 KB baud rate only if your computer has a special card that performs at this rate and the driver is properly installed.

        To improve the speed at which pictures are retrieved from the camera, try selecting a higher rate. If you have selected a higher baud rate and are having trouble communicating with the camera, try selecting a lower rate.

3. To save the settings, click Apply.

    The settings are used for the current session and remain the default until you change them. To cancel any changes you made, click Cancel.

4. To close the Preferences dialog box, click OK.

Set Display Monitor Options

You use the Display Setup card from the Preferences dialog box to set monitor gamma, white temperature, and phosphor options. These options are specified by the CRT manufacturer and describe the way color is reproduced in terms of the overall range of colors and white point. Digital Access software sets the default values based on the P-22 specification and the color temperature used by most monitors.

NOTE: If you require accurate on-screen color reproduction, you can specify the display monitor values. Any changes you make affect the color of the picture transferred to the host application. You should not change the default values without considering the devices on which you plan to view and print the pictures. For more information, see the monitor *User's Guide*.

To set the display monitor options:

1. In the application window, click Preferences.

2. In the Preferences dialog box, click the Display Setup tab to make it the active card, and then do the following:

   ◆ **Monitor gamma.** Every monitor has an associated brightness (gamma). Adjusting the monitor gamma is helpful when you want the picture to match an output device.

   To change the monitor gamma, type the value you want in the Monitor Gamma text box. You can enter a value between 0.11 and 3.99. The default is 2.3

   ◆ **White temperature.** Most monitors use a white temperature setting of 9300K, the extreme blue range of the visible spectrum, often resulting in a bluish tint in the white area of the monitor.

   Digital Access software sets the white temperature default at 6500K. If your monitor shows a bluish tint using this default value, you can change the value in the White Temperature text box. You can enter a value in increments of 100 beginning at 4500 up to 9500.

   ◆ **Phosphor values.** Phosphor is the light emitting material (red, green, and blue) that produces the range of colors seen on your color display monitor. The type and quality of the phosphors used to coat the monitor glass screen can create color imperfections, and can make your picture look fuzzy and out of focus.

   Digital Access software uses the following red, green, and blue default settings:

	x	y
Red	0.64	0.33
Green	0.3	0.6
Blue	0.15	0.06

   To compensate for any color imperfections, type the values you want in the Red, Green, and Blue x and y text boxes. The x and y chromaticity values should be between .001 and .999. The sum of $x + y$ should be greater than 0 but less than 1.

3. To save the settings, click Apply.

   The monitor settings are updated for the current session and remain the default until you change them. To cancel any changes you made, click Cancel. To return to the default settings, click Return to Default.

4. To close the Preferences dialog box, click OK.

Set Transfer Resolution

You use the Transfer Resolution card from the Preferences dialog box to set the resolution at which the pictures are retrieved from the DC120 camera. The retrieval resolution does not affect the camera resolution used to take the picture.

In determining a resolution setting, you should consider how you plan to use the pictures. If you plan to:

- **Display the pictures on-screen** (for example, on a website), you should select a lower resolution.

- **Print the pictures,** you should select a higher resolution. The physical size of a printed picture depends on the resolution of your printer and the way the application you are using scales the picture data. For example, a 1280 x 960 picture printed at 300 dpi results in a 3-inch x 4-inch picture.

To set the transfer resolution:

1. In the application window, click Preferences.

2. In the Preferences dialog box, click the Transfer Resolution tab to make it the active card, and then select the resolution you want.

   Resolution settings (in pixels) include 1280 x 960 (the default), 960 x 720, 640 x 480, and 320 x 240.

3. To save the setting, click Apply.

   The setting is used to retrieve pictures for the current session and remains the default until you change it. To cancel any changes you made, click Cancel.

4. To close the Preferences dialog box, click OK.

Wake Up the Camera from Sleep Mode

The camera power-save mode automatically turns the camera off after the specified period of time if you do not use the camera. The camera wakes up automatically any time the camera is turned on and Digital Access software communicates with it or when you press any camera button.

Enhance Pictures

The camera calculates the picture white balance at the time the picture is taken. You can use the enhance options to compensate for the lighting conditions at the time the picture was taken.

NOTE: You can correct the white balance to only one displayed picture or one selected thumbnail at a time.

To enhance a picture:

1. Make sure the DC120 camera is connected to the computer and the camera is turned on.

2. Retrieve and display the pictures you want to enhance in the picture viewing area of the application window. For more information, see Get Pictures from the Camera.

3. In the application window, select the picture to which you want to apply the enhancement. If you have:

    ◆ **A single picture,** click Enhance.

    ◆ **Multiple thumbnails,** click a thumbnail to select it and then click Enhance. You can select and enhance only one picture at a time.

4. In the Enhance dialog box, select any of the following options as appropriate:

    ◆ **Auto White Balance** (the default) uses the correction calculated by the camera when the picture was taken. You can also click Auto White Balance after a correction is applied to return the picture to the way it appeared when it was retrieved from the camera.

    ◆ **Daylight/Flash** applies a filter that optimizes pictures taken in the sunlight, that are too bright, or that have flash spots.

    ◆ **Tungsten** applies a filter that optimizes pictures taken under warm incandescent lighting or candlelight.

    ◆ **Fluorescent** applies a filter that optimizes pictures taken under cool fluorescent lighting. This setting also optimizes pictures that have a green cast.

    ◆ **No White Balance Correction** applies no correction to the picture.

    ◆ **Custom White Balance Correction** lets you designate white balance values between 1.00 and 8.00 for each color channel (Red, Green, and Blue). Custom values are saved by the host application and are displayed in the R, G, and B text boxes the next time you use the host application to retrieve pictures from the camera.

5. To apply the filter, click Apply. To close the Enhance dialog box without applying the correction, click Cancel.

    A progress indicator appears while the filter is applied. If you have:

    ◆ **A single picture** displayed in the picture viewing area, the picture shows the white balance correction you applied.

    ◆ **Multiple thumbnails** in the picture viewing area, click the thumbnail to select it and then click Preview to display the picture in the Preview window. The picture shows the white balance correction you applied.

6. To enhance another picture, repeat steps 3 through 5.

Erase (Delete) Pictures from the Camera

You can use Digital Access software to erase pictures stored in the DC120 camera and on the camera memory card. For information on erasing pictures using the camera Erase feature, see the camera *User's Guide*.

To erase pictures:

1. Make sure the DC120 camera is connected to the computer and the camera is turned on.

2. In the application window, click Camera Functions. In the Camera Functions dialog box, click Erase Pictures to display the Erase Pictures card.

3. In the Folder Selection list box, navigate to the camera level and then click either the Memory or Card folder. The picture filenames and albums stored in the selected folder are displayed.

4. To select the pictures you want to erase and add them to the Erase Picture List:

   ◆ **Windows 3.1.** Click the filename of each picture to select it and then click Add to List.

   ◆ **Windows 95.** To select picture filenames, do the following as appropriate:

       • **One picture.** Click the filename of the picture to select it and then click Add to List.

       • **Multiple contiguous pictures.** Click the filename of the first picture and then Shift-click the last picture you want to include in the selection. Click Add to List.

       • **Multiple noncontiguous pictures.** Control-click the filename of each picture and then click Add to List.

       • **All the pictures.** Click the filename of the first picture and then Shift-click the filename of the last picture. Click Add to List.

   To remove a picture from the Erase Picture List, click the filename to select it and then click Remove from List.

5. To erase the selected pictures, click OK.

6. In the resulting message, click OK to erase the selected pictures from the picture source. To keep the pictures, click Cancel.

   NOTE: Do not eject a memory card from or insert a memory card into the camera when you are erasing pictures.

   A progress indicator appears while the pictures are being erased from the camera. To stop erasing the pictures, click Cancel.

7. To close the Camera Functions dialog box, click Close.

Rotate Pictures

You can change the orientation of a single picture or selected thumbnails displayed in the picture viewing area of the application window. When you apply a rotation option, the selected pictures in the picture viewing area reflect the change and the pictures are transferred to the host application in the new orientation.

To rotate pictures:

1. Make sure the DC120 camera is connected to the computer and the camera is turned on.

2. Retrieve and display the pictures you want to rotate in the picture viewing area of the application window. For more information, see Get Pictures from the Camera.

3. Select the pictures that you want to rotate. If you have:

   ◆ **A single picture** displayed in the picture viewing area, click Rotate.

   ◆ **Multiple thumbnails** displayed in the picture viewing area, Control-click each thumbnail and then click Rotate.

   To deselect a thumbnail, Control-click it. To deselect all the thumbnails, click anywhere in the picture viewing area, but not on a thumbnail.

4. In the Rotate dialog box, select one of the following as appropriate:

   ◆ **90 degrees right** rotates the pictures 90 degrees to the right (clockwise).

   ◆ **180 degrees** rotates the pictures 180 degrees to the right.

   ◆ **90 degrees left** rotates the pictures 90 degrees to the left (counterclockwise).

5. To rotate the selected pictures, click Apply. To close the dialog box without applying a rotation, click Cancel. If you applied the rotation to:

   ◆ **A single picture** displayed in the picture viewing area, a progress indicator appears. The selected picture is then displayed in the picture viewing area with the changed orientation.

   ◆ **A single thumbnail or multiple thumbnails** displayed in the picture viewing area, the rotation is applied immediately to the selected thumbnails without a progress indicator appearing.

6. To save the changes and close the dialog box, click OK.

Save Pictures

When you retrieve pictures from the camera and transfer them to the host application, the pictures are still stored on the camera until you erase them. You can also save the pictures to your computer using the File -> Save As command from the host application.

Take a Picture While Connected to the Camera

You can take a picture while the DC120 camera is connected to your computer and have the picture displayed in the picture viewing area of the application window. When you take a picture, the camera uses the current camera settings and also stores the picture in the camera.

NOTE: If you have a single picture or thumbnails displayed in the picture viewing area, a message notifies you that the picture will replace the displayed pictures. The replaced pictures are still stored in the picture source.

To take a picture:

1. Make sure the DC120 camera is connected to the computer and the camera is turned on.

2. Frame the subject in the viewfinder.

3. Click Take a Picture!

    There is a brief delay until the picture is actually taken. Be sure to hold the camera steady until you hear the click of the shutter.

    An hourglass appears, followed by a progress indicator showing a thumbnail and progress bar of the picture as it is being processed. When the picture is processed, it is displayed in the picture viewing area of the application window.

    If a memory card is in the camera, the picture is stored on the memory card. If you do not have a memory card in the camera, the picture is stored in the camera.

    NOTE: Do not eject a memory card from or insert a memory card into the camera when you are taking a picture.

You can now rotate, enhance, and transfer the picture to the host application.

See also   Enhance Pictures
Rotate Pictures
Transfer Pictures

Transfer Pictures

In order to save and print the pictures stored in your camera or on the memory card, you need to transfer them to the host application.

To transfer pictures:

1. Make sure the DC120 camera is connected to the computer and the camera is turned on.

2. Retrieve and display the pictures you want to transfer in the picture viewing area of the application window. For more information, see Get Pictures from the Camera.

3. Select the pictures you want to transfer. If you want to transfer:

    ◆ **A single picture,** proceed to step 4.

    ◆ **Multiple thumbnails.** To select thumbnails, do the following as appropriate.

        • **One thumbnail.** Click the thumbnail to select.

        • **Multiple contiguous thumbnails.** Click the first thumbnail to select it and then Shift-click the last thumbnail you want to include in the selection.

        • **Multiple noncontiguous thumbnails.** Control-click each thumbnail.

        • **All the thumbnails.** Click the first thumbnail and then Shift-click the last thumbnail.

    To deselect a thumbnail, Control-click it. To deselect all the thumbnails, click anywhere in the picture viewing area, but not on a thumbnail.

4. To transfer the selected pictures, click Transfer Picture(s).

    NOTE: Do not eject a memory card from or insert a memory card into the camera when you are erasing pictures.

    The progress indicator shows a thumbnail and progress bar for each picture as it is copied to the host application. To terminate the transfer process, click Cancel. When each picture is successfully transferred to the host application, it is displayed in a separate window.

View Picture Information

You can view picture information for a single picture or a selected thumbnail displayed in the picture viewing area of the application window.

To view picture information:

1. Make sure the DC120 camera is connected to the computer and the camera is turned on.

2. Retrieve and display the pictures in the picture viewing area of the application window. For more information, see Get Pictures From the Camera.

3. In the application window, do the following as appropriate. If you have:

   ◆ **A single picture** displayed in the picture viewing area, click Picture Info.

   ◆ **Multiple thumbnails** displayed in the picture viewing area, click the thumbnail to select it and then click Picture Info.

   The Picture Information window shows the following:

   ◆ The **title bar** shows the name of the dialog box and contains the Close button.

   ◆ **Name** shows the picture name or sequence number, and the KDC file extension.

   ◆ **Quality** shows the picture quality setting used to take picture. Settings include Good, Better, Best, and No Compression.

   ◆ **Flash Used?** shows the flash mode used to take the picture.

   ◆ **Size (bytes)** shows the size of the raw picture.

   ◆ **Dimensions (pixels)** shows the width and height of the picture.

   ◆ **Date/Time Taken** shows the date the picture was taken and the time, using a 24-hour clock.

   ◆ **Aperture (f-stop)** shows the f-stop used to take the picture.

   ◆ **Exposure Time (sec)** shows the shutter speed used when the picture was taken.

   ◆ **Album Name** shows the album in which the picture was stored on the camera.

4. To close the Picture Information window, click Close.

Change Camera Preferences

You use the Other Camera Function Setup card from the Camera Functions dialog box to set DC120 camera preferences. The camera settings on this card can only be made using Digital Access software. You can designate the zoom setting, power-save and color LCD sleep time-out, macro mode unit of measure, date and time display, default flash setting, user name, and camera date and time

To set camera preferences:

1. In the application window, click Camera Functions and then click the Other Camera Function Setup tab to make it the active card.

2. Set the following camera preferences as appropriate:

   ◆ **Zoom setting.** By default, the zoom setting is 37mm. To change the setting, select the option you want from the Zoom Setting drop-down list box. Options include 37mm (the default), 46mm, 61mm, 77mm, 92mm, 100mm, and 111mm.

      NOTE: When you turn the camera off, the zoom setting returns to the default.

   ◆ **Camera power-save timeout.** By default, the camera automatically goes into sleep mode after one minute, if you do not use it. To change the power-save timeout, select the time you want from the Camera Power Save Timeout drop-down list box. Options include 1 Minute and 2 Minutes.

   ◆ **Color LCD sleep timeout.** DC120 camera features appear as icons in the Liquid Crystal Display (LCD) screen on the back of the camera. By default, the LCD screen automatically reverts to sleep mode after one minute to save battery power. To change the LCD sleep timeout, select the time you want from the Color LCD Sleep Timeout drop-down list box**.** Options include 1 Minute and 2 Minutes.

   ◆ **Macro mode unit of measure.** The default unit of measure is Inches. To change the default, select a unit of measure from the Macro Mode Unit of Measure drop-down list box. Options include Inches and Centimeters. The macro mode feature lets you manually adjust the focus distance using the Wide Angle and TelePhoto buttons on the camera.

   ◆ **Date and time display.** The date and time the picture was taken are displayed on the LDC screen when you select the camera INFO button. To change the default display, do the following as appropriate:

      • **Date.** By default, the date is displayed as dd/mm/yy. To change the date display, select the option you want from the Date Display drop-down list box. Options include dd/mm/yy (the default), mm/dd/yy, and yy/mm/dd.

         To set the current date, use the Camera Date UP ARROW or DOWN ARROW. To set the date to your system, click the Set Clock to System Date/Time check box. The camera clock is automatically updated to reflect the current setting on your computer.

      • **Time.** By default, the time is displayed using a 12-hour clock. To change the time display, select the clock option you want from the Time Display drop-down list box. Options include 24-hour clock and 12-hour clock.

         To set the current time, use the Camera Time UP ARROW or DOWN ARROW. To set the clock to your system time, click the Set Clock to System Date/Time check box. The camera clock is automatically updated to reflect the current setting on your computer.

   ◆ **Default flash mode.** To change the flash default setting, select the option you want from the Default Flash Setting drop-down list box. Options include:

      • **Auto** (the default) uses the flash when the camera determines there is insufficient light to take a picture.

      • **Fill** always uses the flash when you press the shutter button. You should use this setting when the lighting conditions are poor or when the subject is lit from behind.

- **Off** does not use the flash when you take a picture.

  NOTE: When you disconnect the camera from your computer and turn the camera off, the selected option remains the default. However, Digital Access software shows Auto as the default, regardless of the camera setting.

  ◆ **User name.** To add your name to the camera LCD display, type it in the User Name text box. You can enter up to 32 alphanumeric characters.

3. When you have finished making your selections, click Update Camera.

   The preferences are transmitted to the camera and are used as the defaults until you change them, except for the zoom setting.

4. To close the Camera Functions dialog box, click Close.

Set Up Camera Albums

Albums let you organize the pictures stored in the camera or on a memory card. The DC120 camera can hold up to eight albums; the memory card can hold up to 60 albums. Album names can be displayed on the camera LCD display screen (for example, ALBUM 1, ALBUM 2, and so forth).

You can designate an album for storing pictures (the active album), rename albums, and create new ones. You can use either the Digital Access software or the DC120 camera LCD display to administer albums. This topic describes using the Digital Access software. For information on using the LCD display, see the camera *User's Guide*.

Using Digital Access software to set up your albums involves these steps:

1. Set up your albums—create new albums or rename existing ones.

2. Select the active album.

3. Take a picture.

The following sections describe the procedures involved.

To create a new album:

1. Using the DC120 camera, do the following:

    ◆   Eject the memory card from the camera.

    ◆   Make sure there are at least eight pictures in the camera memory. You must have a picture for each of the eight camera albums.

    ◆   Use the CHANGE ALBUM option to move one picture into each of the albums.

    ◆   Insert the memory card into the camera.

    ◆   Use the MOVE TO CARD option to move the eight albums from the camera to the memory card. For more information, see the camera *User's Guide*.

2. In the application window, click Camera Functions and then click the Album Setup tab to make it the active card.

3. Click the album text box and then type the album name. If you are running:

    ◆   **Windows 3.1,** it is recommended you use no more than 8 characters, including spaces.

    ◆   **Windows 95,** the album name can contain up to 14 characters, including spaces.

    When typing an album name, you can use uppercase letters (A through Z), numbers (0 through 9), and insert a space between words and numbers. For example, VAC 1997. If you type lowercase letters, they are displayed in uppercase. You can also use the following symbols:

    ◆   Question mark (?)

    ◆   Greater than sign (>)

    ◆   Slash (/)

    ◆   Colon (:)

    ◆   Equal sign (=)

    ◆   Period (.)

    ◆   Underscore (_)

    Repeat this step for each album you want to create.

4. To copy the album names to the camera, click Upload Albums to Camera.

5. Optionally, move the newly created albums from the camera to the memory card and then repeat steps 3 and 4. The memory cards holds up to 60 albums.

6. To close the Camera Functions dialog box, click Close.

To select the active album:

1. In the application window, click Camera Functions to display the Status LCD Function Setup card.

2. Select an album from the Album drop-down list box.

   When you disconnect the camera from your computer and turn the camera off, the selected album remains the default.

   NOTE: When you start Digital Access software and click Camera Functions in the application window, No Album is displayed, regardless of the camera settings. After selecting an album, the selected album is highlighted in the Album drop-down list box.

To rename a camera album:

1. In the application window, click Camera Functions and then click the Album Setup tab to make it the active card. The current album names are displayed in the text box.

2. Click an album text box and then type the album name. For information on the letters, numbers, and symbols you can use, see the "To create a new album" section.

3. Repeat step 2 for each album you want to rename.

4. To copy the album to the camera, click Upload Albums to Camera.

5. To close the Camera Functions dialog box, click Close.

Set Status LCD Functions

You use the Status LCD Function Setup card from the Camera Functions dialog box to change the DC120 camera status display controls. You can set the camera auto focus, auto or manual exposure, flash, picture quality, album, and self-timer settings.

To change the status display controls:

1. In the application window, click Camera Functions to display the Status LCD Function Setup card.

    The center of the card shows a representation of the camera LCD Status Display screen. For information on the icons, click here.

2. To set the status display preferences, do the following as appropriate.

    ◆ **Auto focus.** In the Auto Focus section, select the option you want.

       • **Multi-Spot** (the default) measures the distance of the subject using three different locations in the scene and adjusts the focus to the closest distance.

       • **Single Spot** measures the distance of the subject at the center location and adjusts the focus to that distance.

       • **Macro Mode** lets you adjust the focus manually from 8 to 20 inches using the TelePhoto or Wide buttons on the camera. When you use Macro Mode, the camera automatically enters Preview mode when you press the Shutter button. For more information, see the camera *User's Guide*.

    When you disconnect the camera from your computer, the auto focus setting remains in effect. When you turn the camera off, the setting returns to Multi-Spot (the default).

    ◆ **Auto exposure compensation.** The exposure value (EV) is measured automatically when the camera is set to the Auto Exposure mode. You can use Auto Exposure only when the Manual Exposure setting is turned off.

    The default is No Compensation. You can select an exposure compensation value of plus or minus two steps of the exposure value used to take the picture. To select a compensation value, do the following:

       • Turn the Manual Exposure setting to Off.

       • From the Auto Exposure drop-down list box, select the setting you want. Options range from Auto Exposure +2.0 EV to Auto Exposure -2.0 EV.

          One step equals one aperture value. A picture taken with an aperture exposure of +1.0 is brighter than a picture taken using Auto Exposure and No Compensation.

    NOTE: Auto Exposure is not available if you select Manual Exposure.

    When you disconnect the camera from the computer, the exposure compensation returns to No Compensation (the default).

    ◆ **Manual exposure.** You can override the auto exposure setting used by the camera to take a picture and select a shutter speed from 1/500 to 16 seconds. To select a shutter speed, select a speed from the Manual Exposure drop-down list box. The f-stop (wide) and f-stop (tele) values reflect the new setting.

    When you disconnect the camera from the computer, the manual exposure setting returns to Off (the default). The manual exposure setting is not stored in the camera.

    ◆ **Flash mode.** The DC120 camera has three built-in sensor flash settings. To change the flash setting, click the flash option you want.

       • **Auto** (the default) uses the flash when the camera determines there is insufficient light to take a picture.

- **Fill** always uses the flash when you press the shutter button. You should use this setting when the lighting conditions are poor or when the subject is lit from behind.

- **Off** does not use the flash when you take a picture.

When you disconnect the camera from your computer, the flash setting remains in effect. When you turn the camera off, the setting returns to Auto (the default).

◆ **Album.** Camera albums help you organize your pictures stored in the camera. To designate the album in which the pictures are stored, select an album from the Album drop-down list box. The default is No Album.

When you disconnect the camera from your computer and turn the camera off, the selected album remains the default.

NOTE: When you start Digital Access software and click Camera Functions in the application window, No Album is displayed, regardless of the camera settings. After selecting an album, the selected album is highlighted in the Album drop-down list box.

◆ **Self-Timer.** The self-timer creates a 10-second delay between the time the shutter button is pressed and the picture is taken. To set the self-timer, click the On option button.

When you disconnect the camera from your computer, the self-timer setting remains in effect. When you turn the camera off, the setting returns to Off (the default).

◆ **Quality.** The DC120 camera can capture pictures in one of four picture quality settings. To set the picture quality, click a Quality option button. Options include Good, Better, Best, and No Compression.

NOTE: Pictures include more detail using the No Compression or Best setting, but take more memory than the Better or Good setting.

When you disconnect the camera from your computer and turn the camera off, the picture quality setting remains the default.

3. To change the settings on the camera, click Update Camera.

4. To close the Camera Functions dialog box, click Close.

LCD Icons

Focus Icons

Multi-spot (the default) indicates the camera measures the distance of the subject using three different locations in the scene and adjusts the focus to the closest distance.

Single spot indicates the camera measures the distance of the subject at the center location and adjusts the focus to that distance.

Macro Mode indicates you can adjust the focus manually from 8 to 20 inches using the TelePhoto or Wide buttons on the camera.

Exposure Icons

Auto Exposure (the default) indicates the exposure is adjusted automatically.

Auto Exposure Plus (+) indicates you can manually increase the exposure in half-stop increments up to two full stops.

Auto Exposure Minus (–) indicates you can manually decrease the exposure in half-stop increments up to two full stops.

Manual Exposure indicates you can override the auto exposure setting and select a shutter speed from 1/500 to 16 seconds.

Flash Icons

Auto (the default) indicates the flash is used when the camera determines there is insufficient light to take a pictures.

Fill indicates the flash is always used when the shutter button is pressed.

Off indicates the flash is not used when you take a picture.

Album Icon

Album indicates an album is selected and the pictures will be stored in the album.

Card Status Icons

No Card indicates the KODAK Picture Card is not in the camera; pictures are saved in the camera memory.

Card Inserted indicates a KODAK Picture Card is in the camera; pictures are saved to the memory card.

Picture Quality

No Compression indicates the picture quality setting is No Compression. You can store two pictures in the camera using this setting.

Best indicates the picture quality setting is Best. Pictures using this setting are compressed. You can store up to seven pictures in the camera using this setting.

Better indicates the picture quality setting is Better. Pictures using this setting are compressed. You can store up to 12 pictures in the camera using this setting.

Good indicates the picture quality setting is Good. Pictures using this setting are compressed. You can store up to 20 pictures on the camera using this setting.

Self-Timer Icons

Self-Timer Off indicates there is no delay between the time the shutter button is pressed and the pictures is taken.

Self-Time On indicates the self-timer is turned on, providing a 10-second delay between the time the shutter button is pressed and the picture is taken.

Pictures Remaining

Pictures Remaining indicates the number of pictures you can take and store in the camera or on the memory card at the current picture quality setting.

Battery Status Icons

Batteries Charged indicates the batteries are fully charged.

Replace Batteries indicates the batteries are low and need to be replaced.