

DCS Firmware Read Me

DCS5xx.BIN Version 3.2.3

July 17, 2000

This firmware supports the following:

KODAK PROFESSIONAL DCS520, DCS560 Digital Cameras.

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1.1 Note users upgrading from versions 2.0.3 and earlier

Note: If you upgrade to version 3.2.3 or higher you will not be able to return to any version of firmware prior to version 3.0.

This version of firmware brings a new look and feel to the camera's User Interface (UI). In addition to many new features, it offers easier and more efficient access to many key functions, better organization of the Main Menu, Properties Settings and Custom Functions, and allows room for the addition of future features.

If you're familiar with previous firmware versions, you may find the new UI to be slightly different. Our extensive customer research, which assessed the impact on users migrating from previous firmware versions, indicates you should allow a reasonable amount of time to adjust to the new UI's features. Beta testing has provided extremely positive feedback once users have familiarized themselves with the UI.

New White Balance user interaction.

Both the in-camera Custom White Balance and the new Custom White Balance options can be accessed directly from the White Balance Button. To accomplish this, navigate through the white balance options until there are no icons visible in the White Balance box on the lower rear Status LCD. This indicates you are in the Custom White Balance mode. When in the Custom White Balance mode, pressing and releasing the White Balance button displays the "Use image?" screen. This screen will allow you to apply Custom White Balance of a subject (often an 18% Grey card). Choosing the option button on this screen will allow the user to load a Host Software White Balance file from a storage card into the camera's memory. The camera's memory will hold up to 10 White Balance files created with DCS Host Software allowing the user to select among them until the user deletes them from the camera's memory. Please refer to the Host software user manual PDF file for further information on creating Custom White Balance files to the Kodak DCS cameras.

1.2 New DCS Camera User Guide

A new DCS Camera user guide incorporating information about new features is available on the Kodak web site. Follow the links to find your camera from this WWW URL address:
<http://www.kodak.com/go/drivers>

1.3 What's new in this version

- Enhanced storage card compatibility.
- *Remote File Transmission directly from the DCS camera. *A key must be purchased from Kodak to enable this feature. ** DCS 520 only.
- External GPS support (Garmin GPS III plus via DCS camera serial port)
- Additional features supported via serial port. *See the DCS User Guide for more information.
- Image output resolution can now be preset in camera.
- Multiple Custom White Balance files can now be saved in camera memory from the camera.
- Enhanced 1394 support. *See the DCS Host Software Readme for more details.
- General firmware improvements.

See the DCS Firmware user guide for more details on all new features.

1.4 Compatible DCS Host Software

Version 3.2.3 firmware is compatible with KODAK PROFESSIONAL DCS Acquire Module and KODAK PROFESSIONAL DCS TWAIN Data Source Version 5.9.3 or higher.

DEVELOPERS using the DCS SDK:

This firmware version is incompatible with DCS SDK versions older than 1.6. If you have applications that use an older DCS SDK, it is recommended that you inform your customers not to upgrade to this new firmware version. DCS SDK Version 1.6 is now available on the Eastman Kodak Company Developer Relations web page that is fully compatible with this new firmware version.

1.5 Known Issues

- This firmware is not compatible with Adobe PhotoShop version 3.0.5 or older.
- Sony Memory Sticks require extended time to complete "Full format".
- Never insert Two Cards simultaneously. Insert one, wait for LED to stop blinking, then insert the second card.
- Never insert or remove any cards while the red LED or the Card Icon is blinking
- Certain setting combinations using Image Processing and Transmission may be incompatible.
- If the camera is powered on with room for only a few images while the shutter button is depressed, it is possible the camera will fill the card and continue shooting beyond the remaining card capacity until the memory buffer is full. If this occurs, without powering off the camera, remove the current card and insert a card with adequate space in the same slot. Select Retry for each image and they will be saved on the new card.

1.6 Firmware Installation Instructions

Camera firmware can be installed using the DCS Host Software or from a PC Card. For installation instructions using the DCS Host Software, please refer to the User Manual. For installation using a PC Card, follow these steps:

1. It is recommended that you connect your camera to the Kodak specified AC adapter for use with your camera or use a fully charged battery. **Warning: A loss of power could corrupt the firmware.**
2. Insert a PC Card into the card reader on your computer.
3. On your computer, copy the firmware file dcs6xx.bin to the root directory of the PC Card. (Do not copy the file to a folder on the card)
4. Insert the PC Card into your camera.
5. Navigate to the Main Menu on the Camera LCD.
6. Select "Firmware" from the Main Menu.
7. When the Firmware menu appears, select "Update From Card".
8. A confirmation screen will appear giving you two options. If you choose "Cancel", the firmware will not be updated and you'll be returned to the Main Menu. If you choose OK, the firmware update will continue.
9. When the firmware has been updated, a screen will appear informing you the firmware has been updated. Press "OK".
10. Firmware will automatically restart the camera if updating from version 2.x.x firmware. If you're updating from version 1.x.x firmware, turn your camera Off, then On to start the new firmware

1.7 Memory Card Compatibility

The camera accepts Type II or Type III ATA compatible storage cards, including CompactFlash cards using a Type II adapter, IBM MicroDrives using IBM Microdrive Adapter and Sony Memory Sticks using a Memory Stick Adapter. The physical size of Type III media is too large to allow Dual Card option.

NOTE: Storage cards not listed below may not format correctly in the camera. A possible work around is to format the storage card using a PC and a PCMCIA card reader.

The following PC Cards have been tested:

Type III HDD:

- Calluna 520MB and 1GB
- Integral Viper 170, 260, 340MB
- Kingston DataPak 520MB (Tested in previous firmware version)

Type III ATA Flash:

- SanDisk 220MB FlashDisk (Tested in previous firmware version)

Type II ATA Flash:

- Kodak Picture Card
- PreTec
 - AFH160D 160MB ATA Flash PC card, Type II
 - AFH256D 256MB ATA Flash PC card, Type II
 - AFH320D 320MB ATA Flash PC card, Type II
 - AFH512D 512MB ATA Flash PC card, Type II
 - AFH700D 700MB ATA Flash PC card, Type II
- Lexar
- Hitachi
- SiliconTech 320MB (Tested in previous firmware version)
- Panasonic 160M PC CARD ATA (Tested in previous firmware version)

Type II HDD:

- Calluna Type II 260MB Hard Drive (Tested in previous firmware version)

CF+ Type II:

- IBM Microdrive (Hard Disk)
- Simple Technology 320MB (Flash Memory)

Compact Flash:

- Kodak Picture Card
- Hitachi
- Sandisk
- Lexar (Includes USB enabled)

Sony Memory Stick:

- All (Requires extended "Full format" time) (Tested in previous firmware version)

1.8 Camera Firmware is available on the World Wide Web

As Camera Firmware is updated, it is placed on the World Wide Web (WWW). Follow the links to find your camera from this WWW URL address:
<http://www.kodak.com/go/drivers>

See additional information in the DCS Host Software (either DCS Acquire Module or DCS TWAIN Data Source) ReadMe

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