

EPSON PRODUCT SUPPORT BULLETIN

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Reference:	TE 06-0051 Rev. A	Total Pages:	9
Product(s):	R-D1 Digital Rangefinder Camera		
Subject:	R-D1 Firmware version 2.0 Upgrade Service Information		

This bulletin was created to inform you of the release of the major service release firmware update to version 2.0 that will significantly enhance and improve functionality of your Epson R-D1 Digital Rangefinder Camera.

Significant added functions:

- Picture preview magnifying power change: Jpeg: from x10 to x16. RAW: from x2 to x16.
- Film set-up default value change. The RD-1 default film can be set to 1, 2 or 3, the value 1 will have a portrait-shooting set-up, the value 2 will have a landscape-shooting set-up and the value 3 will have a night-view shooting set-up. Still, the original film set-up values will be kept right after the firmware upgrade. The new default value will be set after "Initialize Settings" is performed.
- Color Space change. "Adobe RGB" is now supported.
- Simultaneous RAW+JPEG image record. This function records a picture simultaneously in two different files (Jpeg (H) and RAW) under the same file number.
- "Quick view" Function. This setting allows the picture to be displayed on the LCD right after the shot is taken.
- Noise reduction for long exposure time. The Noise Reduction setting is now just On or Off regardless of exposure time.
- CCD pixel defect correction function. This function allows the CCD pixel defect correction function to be set from the menu.
- Compatible with PRINT Image Matching 3.
- LCD display playback time's shutter release processing change. For LCD display playback time, the shutter operates as if it is in full release mode.
- Auto white balance shot color change. The reddish counter-effect on a shot taken under incandescent lighting is reduced.
- Noise reduction when shooting with the ISO1600 set-up.
- Multi-shot function improvement: The number of successive shots goes from 2 to 3.

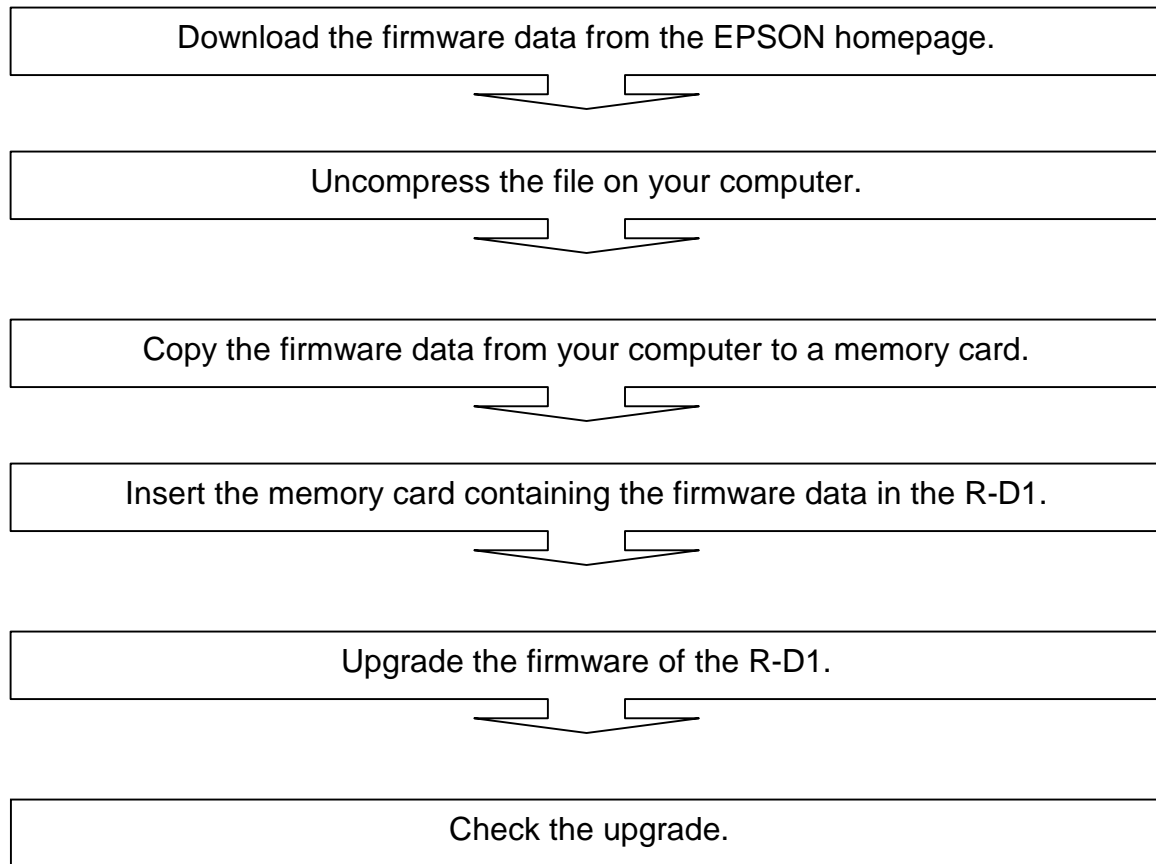
R-D1 Firmware Update Instructions

This document provides the instructions for updating the EPSON R-D1 digital camera firmware. Please read these instructions completely before attempting the firmware update.

Important remarks concerning the firmware upgrade

- **Once you have upgraded your Epson R-D1 digital Rangefinder camera to firmware version 2.0, you will not be able to “downgrade” or return to previous versions of the firmware. Please take this into consideration prior to the upgrade.**
- **If your memory card contains data, we recommend making a back up of the important data to your computer since the data stored in the memory card might be deleted when the memory card is formatted.**
- **Due to the new functions added by the upgrade, picture capacity of memory cards is decreased about 10%.**
- This firmware upgrade operation may be performed by Epson customers. Be sure to perform the upgrade by strictly following the instructions in this guide. Do not alter the firmware files in any way. There should be no failure by following the firmware update instructions. Please understand that if the upgrade fails due to any reason (battery removal, low battery etc.), it will lead to time-consuming repairs of the R-D1 on which the upgrade has failed.

Firmware Upgrade Process



Before performing the upgrade, prepare the below items:

- The R-D1 camera to be updated
- Make sure the battery pack for the R-D1 camera to be updated is fully charged. If the camera loses power during the update, costly damage may occur to the camera.
- A Secure Digital (SD) memory card with at least 16 MB available free space on the card. Please copy any data on this card to another location since this procedure requires the card be formatted prior to use.
- A computer with an internet connection
- A Windows 98SE / Me / 2000 / XP computer, or a Macintosh computer with Mac OS X 10.2.x – 10.4.x fitted with a SD card reader.
 - If the computer does not have a SD card reader, you will need to provide an external card reader that can connect to your computer system.

Download the Firmware:

Download the firmware update instructions and data files from the Epson Internet support web page at <http://support.epson.com>.

Once on the support web site navigate to “Digital Photography” > Digital Cameras > R-D1. Then select “Drivers & Downloads” and select your Operating System. Find the file name

epson11884.exe for Windows 98SE / Me / 2000 / XP, or epson11885.dmg for Macintosh OS X version 10.2.x to version 10.4.x.

The downloaded file is a self-extracting archive. The procedure to extract the file will vary according to your computer operating system.

If you are using Windows 98SE / Me / 2000 / XP, epson11884.exe will extract to the C:\EPSON\epson11884_rd1____firmware_update_20 folder.

If you are using Macintosh OS X 10.2.x – 10.4.x, a folder called epson11885_rd1____firmware_update_20 should appear on the desktop when the file is extracted.

Format the Memory Card

Warning!

Formatting the SD card will erase all the data contained on the memory card. Please make sure it does not contain any important data before formatting.

1. Insert the memory card into the memory card slot of the R-D1 (see the R-D1 user manual for more details on the way to insert the card).
2. Format the memory card in the R-D1 memory card slot (see the R-D1 user manual for more details on the way to format the card).
3. When the card format is complete, remove the card from the R-D1 memory card slot.

Copying the Firmware Update Files to the Memory Card

1. Insert the memory card in the computer or in the card reader and have the computer recognize the card. (See the computer or card reader user manual for more details.)
2. When the memory card is recognized, you will see the card drive icon in the “My Computer” window for Windows users or on the desktop for Macintosh users. Drag and drop to the memory card a copy of the files **R_D1_010214_E.BIN** and **ss_3_010002.ram** which can be found in the C:\EPSON\epson11884_rd1____firmware_update_20 folder or the epson11885_rd1____firmware_update_20 folder if you are using Macintosh OS X 10.2.x – 10.4.x.

Notes: When copying the two Firmware data files on the memory card, make sure you copy the files on to the root directory or top level of the card. If the files are copied to a folder on the memory card, the firmware upgrade will not work.



Do not remove the memory card from the computer or the card reader if the copy is still in progress. (See your computer or card reader manual for more details on the way to remove the memory card)

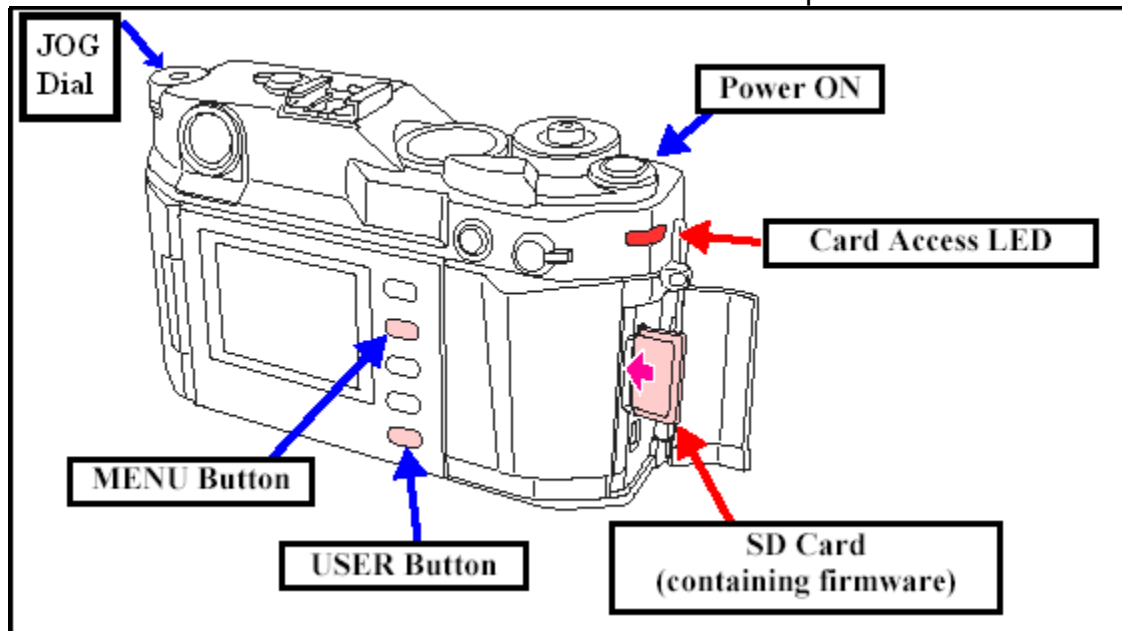
Set the memory card in the R-D1

1. Install a fully charged battery in the R-D1. If needed, see the R-D1 manual for the battery installation information. You must make sure that the battery is fully charged before performing the firmware upgrade.

2. Insert the memory card containing the firmware data described above into the R-D1 memory card slot. (See the R-D1 manual for more information on the memory card insertion)


Perform the firmware upgrade

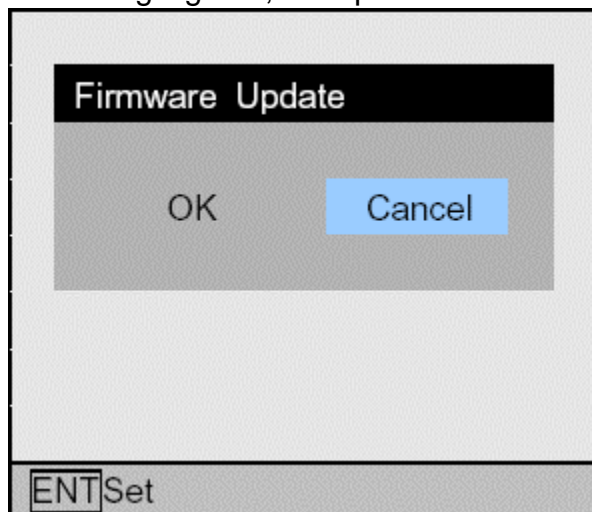
1. With the R-D1 turned off, simultaneously press and hold the MENU  button and the USER button  then turn ON the R-D1 power switch.



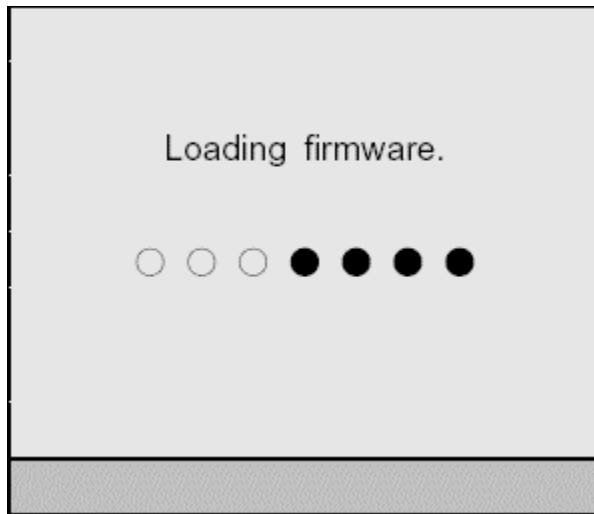
Warning!

Do not remove the memory card, or turn off the power switch during the firmware upgrade process! This will cause an upgrade failure, and may render the camera unusable.

2. When the screen below is displayed, turn the JOG dial (see image above) until "OK" is highlighted, then press the ENTER button 



3. The screen below is displayed when the upgrade starts.





4. When the screen below is displayed, the firmware upgrade has successfully completed. Check that the Version is "2.0", and then turn off the camera with the power switch.



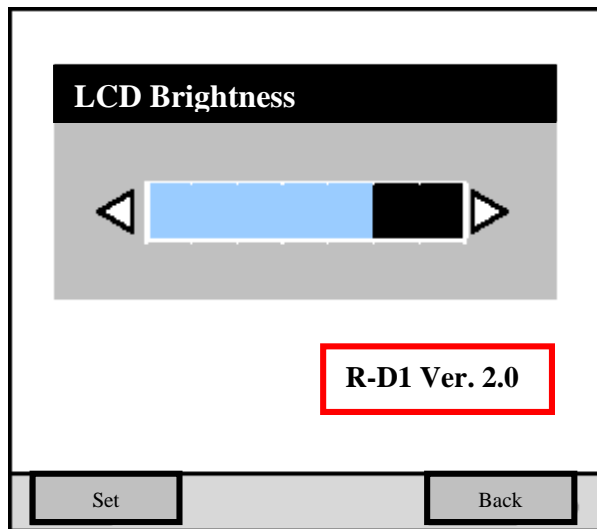
Confirm that the firmware has been properly upgraded

Turn on the R-D1 with the power switch, turn on the LCD display by pressing the LCD

Button  then bring up the Main Menu with the MENU Button  Select "Settings" (you may need to use the JOG Dial if you have images on the SD Card) and

press the ENTER Button  Use the JOG Dial to select "Basic Setup" and Press the ENTER Button, turn the JOG Dial to select "LCD Brightness" and press the ENTER

button. If the screen displays “**R-D1 Ver. 2.0**” as in the screen below, the upgrade is correct.



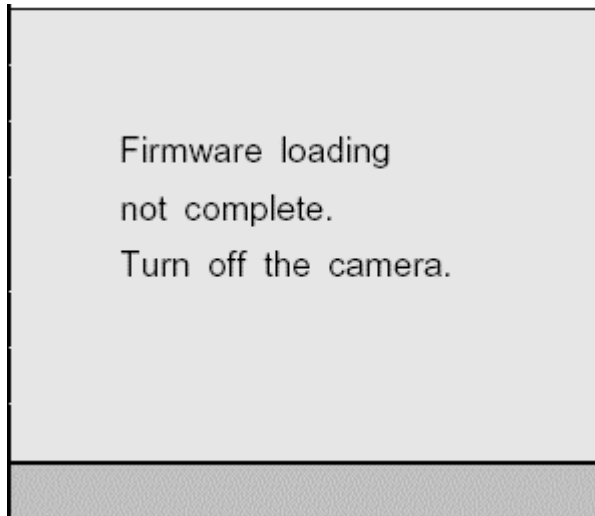
Attention!

After the Firmware upgrade, the user's "Film Settings" set-up will be maintained. In order to reset the Film Settings back to the camera default set-up, you will need to perform an "Initialize Settings" from the Settings menu. This will, however, also reset all user selectable camera settings back to default set-up. The exception to "Initialize Settings" is the camera's language, date and time, these settings will be maintained.

> If the upgrade is unsuccessful <

If the upgrade is cancelled

When the upgrade is cancelled, the screen below is displayed. In order to proceed again with the upgrade, turn off the camera with the power switch and do the procedure again starting from **Perform the firmware upgrade.**



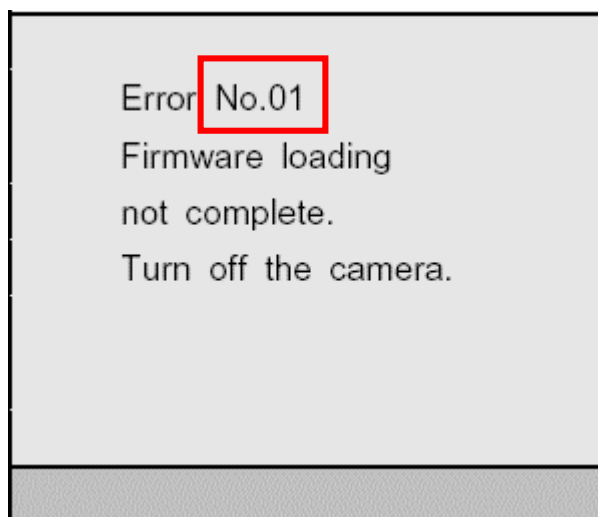
If the battery is low

When the battery is low, the screen below is displayed and the upgrade cannot be performed. Turn the camera off with the power switch, install a fully charged battery and do the procedure again starting from **Perform the firmware upgrade.**



Other errors

If another error occurs during the upgrade, the screen below is displayed. Look at the table below the line corresponding to the error number showing the error meaning and the solution.



Error #	Meaning	Solution
01	The memory card has been removed.	This leads to an onerous repair. Please contact the support service.
02	The content of the firmware has been altered or the download was not carried out correctly. The firmware files may be corrupt.	This leads to a time-consuming repair. Please contact Epson Technical support at 1-562-276-4303
03	The wrong firmware has been downloaded.	Download the proper firmware and proceed again with the upgrade.
04	The firmware file name is not correct.	The firmware file has been altered, This leads to a time-consuming repair. Please contact Epson Technical support at 1-562-276-4303.

EPSON PRODUCT SUPPORT BULLETIN

Date:	11/4/2005	Originator:	TC/JQ
PSB #:	PSB.2005.11.001	Authorization:	<i>Kas</i>
Reference:	N/A	Total Pages:	1
Product(s):	Epson R-D1 Digital Rangefinder Camera		
Subject:	Information on Cleaning the CCD Sensor		

This bulletin was created to provide information on Cleaning the CCD Sensor for the Epson R-D1 Digital Rangefinder Camera.

Procedure:

If there are any black spots in the same place on all the photos you take, there might be dust on the CCD sensor inside your camera. Follow the instructions below to clean dust off the CCD sensor. Use an air blower for cameras (manual type **without a brush**), and use a locking cable release.

Important Notes:

- **Do not touch the CCD sensor with any object(s), including your fingers, cleaning brushes, tools or cloths. Doing so may scratch or damage the surface of the CCD sensor and affect the quality of your photos. Epson America Inc. only supports the use of hand blowers for cleaning your CCD. If Epson determines there are scratches or evidence that you have touched the CCD sensor, the repair will not be covered under warranty.**
- **Do not use air compressors or canned air (air dusters) of any kind for cleaning the CCD. Even photography grade canned air can release unwanted moisture or contaminants under certain conditions. This is why we only recommend the use of hand powered blowers. Do not put the blower inside the lens mount; otherwise, the shutter or CCD sensor may be damaged if the shutter closes or comes in contact with the blower.**
- **Damage caused by not following the instructions in this bulletin is not covered by your camera's warranty, even if it is within the warranty period. If repair is necessary, you will be billed for the repair!**

If dust cannot be removed from the CCD sensor following the procedure below, contact the EPSON Connection at 1-562-276-4303.

1. Remove the SD Memory Card from the camera.
Removing the SD Memory Card turns off the electricity to the CCD sensor.
2. Rotate the shutter speed dial to B (Bulb), and then install the cable release.
3. Insert a fully charged battery into the camera, then turn the power switch to the on position.
Do not use a deteriorated battery or a battery with low power. It may cause the shutter to close during cleaning.
4. Operate the shutter charge lever to charge the shutter, and then remove the lens or the lens mount cover.
5. Open the shutter using the cable release, and then lock it.
Make sure to use a locking cable release so the shutter does not close during cleaning.
6. Blow the dust off the CCD sensor using the camera blower carefully.
7. Unlock the cable release after cleaning the sensor, then close the shutter.
8. Attach the lens or the lens mount cover, then remove the cable release. Cleaning is complete.