

# Manual for "μIEC\_Man" V1.3

## 1. General

The program "μIEC\_Man" (micro-IEC Manager) was written for μIEC V3. It also works with older versions of μIEC and also should work with MMC2IEC and SD2IEC. The main requirement is the sd2iec firmware by Ingo Korb (<http://www.sd2iec.de>) in version v0.10.1 or newer. The program cannot be guaranteed to function with older firmware versions.

The program works with GEOS V2 (including Gateway), Wheels, and GEOS MegaPatch V3.

In the following manual **I only use "μIEC"**, which also indicates MMC2IEC, and SD2IEC. **If I write GEOS**, this means GEOS V2 (including Gateway), Wheels, or GEOS MegaPatch V3.

## 2. Conditions

For use of μIEC in GEOS there are no special drivers needed. Simply use the Configure program of your system. It is possible you must set the "file based M-R emulation" ("XR:" command) and mount a .Dxx image, so your Configure program can "see" the μIEC.

The μIEC must be set to the drive address that it later has in GEOS (OPEN15,CD,15,"U0>" + CHR\$(ND):CLOSE15 ; CD=Current Device address of μIEC; ND=New Device address of μIEC).

To use the μIEC in GEOS the "XR:" command for "file based M-R emulation" is used. For this, the DOS images of the drives are needed. If you do not have these files you can find them for 1541, 1571, and 1581 drives in VICE emulator (<http://sourceforge.net/projects/vice-emu>) in directory "DRIVES".

For the CMD HD you can find the file **fakeroms.zip** on <http://www.sd2iec.de>. This file contains a dummy DOS file for CMD HD and CMD FD. The CMD FD Native Mode is not supported by "μIEC\_Man" but the FD works as a 1581 drive.

Also, JiffyDOS ROM images can be used. You can buy these from Jim Brain (<http://store.go4retro.com>).

**Important:** For a μIEC drive to be recognized in GEOS the DOS images must be copied to the root directory of the storage medium with the following file names:

DOS1541.BIN	for CBM 1541 drive
DOS1571.BIN	for CBM 1571 drive
DOS1581.BIN	for CBM 1581 drive
HD.BIN	CMD HD native partition: only in Wheels for now!

The program μIEC\_Man expects a special directory structure on the μIEC storage medium. Please create these subdirectories in the root directory:

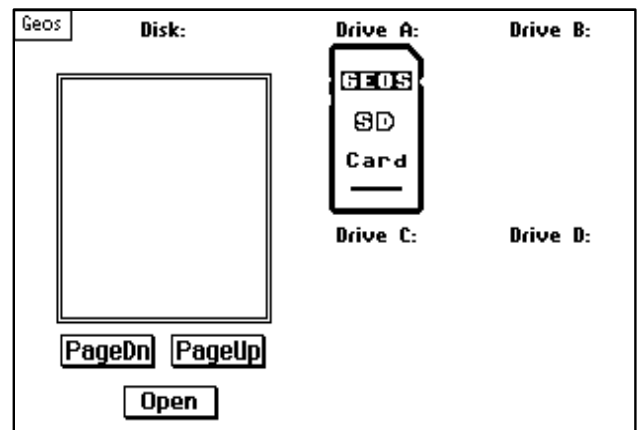
GEOSD64	for .D64 files on a CBM 1541 drive
GEOSD71	for .D64 & .D71 files on a CBM 1571 drive
GEOSD81	for .D81 files on a CBM 1581 drive
GEOSDNP	for native .DNP files on a CMD HD in Wheels (HD does not work in MegaPatch V3 for now)

You do not have to create all of these directories. Only those directories are required for how the μIEC is configured in GEOS. You must copy the appropriate disk images (.Dxx files) into these directories.

**Note:** To check the correct spelling for the DOS images and the four directories, switch on your computer with the μIEC connected and call the directory of the μIEC device. The file names of the DOS images and the four directories must be displayed as above. If not, you can run into problems.



The program "μIEC\_Man" uses the following μIEC commands:

"X?"	search for "μIEC"
"CD:_"	unmount .Dxx image
"CD//GEOSD64/"	open directory for 1541 images
"CD//GEOSD71/"	open directory for 1571 & 1541 images
"CD//GEOSD81/"	open directory for 1581 images
"CD//GEOSDNP/"	open dir for CMD HD native images (doesn't work in MegaPatch V3 for now)
"CD:xxx.Dxx"	mount .Dxx image
"XR:DOS1541.BIN"	for 1541 "file based M-R emulation"
"XR:DOS1571.BIN"	for 1571 "file based M-R emulation"
"XR:DOS1581.BIN"	for 1581 "file based M-R emulation"
"XR:HD.BIN"	for native CMD HD "file based M-R emulation" (HD doesn't work in MegaPatch V3 for now)



The program screen showing one detected μIEC device

## 3. μIEC\_Man

μIEC_Man 64	for GEOS 64		
μIEC_Man 128	for GEOS 128 80 column only	μIEC_Man 64	μIEC_Man 128

With the program "μIEC\_Man" you can change the currently active .Dxx image on a μIEC in GEOS. Up to four μIEC drives are supported (on address 8 to 11).

First, the program searches for a μIEC on drive addresses 8 - 11. After the search, the main screen appears. If one or more μIEC drives are found you will see an SD card symbol for each μIEC below the drive text on the right side of screen. If no SD card symbol appears on screen, there was no μIEC found in the system. To see a list of available .Dxx files, click on an SD card image.

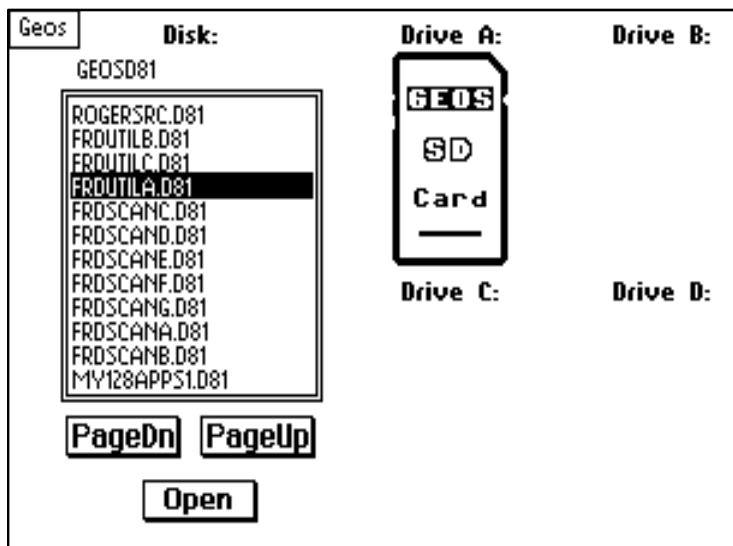
The left side of the screen is used to display files. It shows you the .Dxx files (after clicking on an SD image) or the directory of a .Dxx file (after selecting a .Dxx image and clicking Open). The current disk or directory name is displayed above the file name area.

By clicking on "PageDn" (one page down) or "PageUp" (one page up) you can display longer directories. Clicking "Open" will open a selected item.

**Important:** During start of "μIEC\_Man" and the search for μIEC devices nothing is changed on the μIEC device. If you quit the program without doing anything the currently mounted .Dxx image and the currently used DOS file ("XR:" command) is still active.

After a click on one of the SD card symbols on the right side of screen the current .Dxx image is unmounted and one of the DOS files (see "Conditions") is set. You should always open a new .Dxx file. If you do not open a new .Dxx file you get an error message ("No disk in drive") in your Desktop for this  $\mu$ IEC device.

To change the disk image, click one time on one of the SD card symbols on the right side of screen. On the left side of the screen you then see the available .Dxx images corresponding with the drive type of the  $\mu$ IEC. With "PageDn" or "PageUp" you can navigate in longer directories. After clicking on "PageDn", or "PageUp", a previously selected file is de-selected.



After clicking on an SD card image the appropriate folder opens (in this case GEOSD81) and the available .Dxx image files can be seen. Here, FRDUTILA.D81 has been selected.

To select a new .Dxx image simply click one time on its file name. The selected item is highlighted. If you click on another file name a previous selection is disabled and the new one is highlighted.

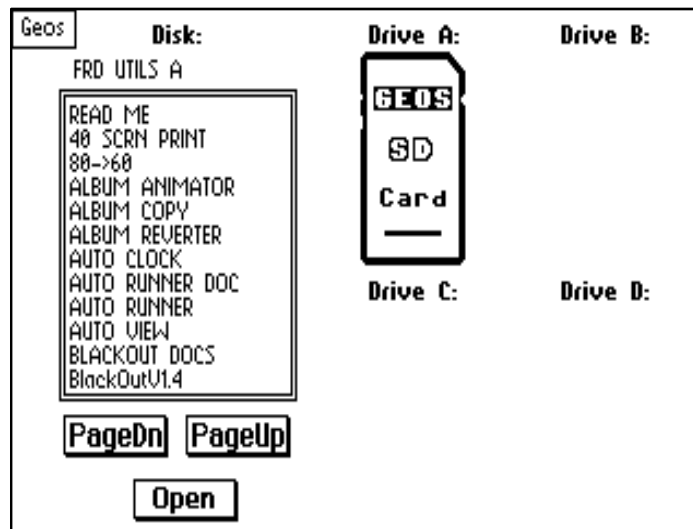
With "Open", the selected item is opened. You now see the directory of the .Dxx image in the left window and the disk name above it. The icons "PageDn" and "PageUp" are always active. When viewing a .Dxx image directory the "Open" icon is disabled and you cannot select an item now.

After Opening a .Dxx image, choosing Quit from the Geos menu takes you back to the Desktop with the selected .Dxx image available to access.

You can also click on the right side of the screen on one of the SD card icons to start the file selection again.

The main "Geos" menu contains two entries:

"Info" - displays a short information about the program  
 "Quit" - quit the program back to Desktop



After clicking Open you will see the files in the selected .Dxx image. To return to the Desktop and access this disk, click Quit from the Geos menu. To select a different .Dxx image, click an SD card image.

#### 4. $\mu$ IEC-Run (for GEOS 64 and GEOS 128)



The program " $\mu$ IEC-Run" is an Auto\_Exec program. With this you can start " $\mu$ IEC\_Man" during booting of GEOS. To do this you must copy " $\mu$ IEC-Run" and " $\mu$ IEC\_Man" onto your boot disk/partition after your Configure file. During the next GEOS booting the program " $\mu$ IEC\_Man" is run automatically and a new .Dxx image can be selected.

**Note:** If you boot GEOS from a  $\mu$ IEC, it is not a good idea to change the .Dxx image of the boot device during booting. GEOS runs into problems if you do that!

#### 5. Words of thanks

Thank you to the developers of MMC2IEC, SD2IEC, and  $\mu$ IEC. A special thank you goes to Bo Zimmerman who gave me permission to use some of his GEOS code in " $\mu$ IEC\_Man" (.Dxx file selector).

For error messages, hints, and suggestions, please send me an email.

(w) 2011  
 Werner Weicht  
 wweicht(AT)t-online.de