

How to format MPEG-2 files for the DV-68

It is a very simple procedure to copy MPEG2 files to the Compact Flash card to use with the DV-68 digital video player.

Insert the Flash card into your PC's card reader and it will show up as an external hard drive.

Right-click the drive, choose Format, choose FAT or FAT 32 (Do not use NTFS)

Any size CF may be used. Team Kingsley LLC has verified up to 8 MB 133x speed cards.

Next open the drive that your video is stored on.

Drag and drop files to copy them to the Flash card.

Right-click each file on flash card and re-name as follows:

000.mpg for attract loop

001.mpg for push-button #1

002.mpg for push-button #2

Up to

099.mpg for push-button #99

Note that the DV-68K pushbutton accessory can only access up to 99 files, but with RS-232 control up to 200 files may be accessed.

Copying your present video to the PC

Use a video capture plug-in board and software to save video as MPEG2 on your hard drive. (See your user's manuals for instructions on this as procedure varies by model)

Video that is on DVD is already in MPEG2 format and can be read/ copied to the hard drive using many different video editing software packages without a video capture card. Team Kingsley LLC uses MPEG Video Wizard from www.womble.com that can be downloaded for around \$69.00. Please see notes below on maximum bit rates.

Having new video produced out of house

Ask your production studio to supply video clips in MPEG2 files. This is standard for DVD's. Specify that you do not want them to add any "command" encoding such as looping etc. Just plain MPEG2 files, one for each video clip. They can send the files to you on disk or FTP. Advise them of the maximum bit rates below.

Maximum bit rates for Compact Flash cards

MPEG2 bit rate:

CBR (constant bit rate) = 8 Mbps

VBR (variable bit rate) = average 8 Mbps / peak 8.5 Mbps

There are different speeds of CF cards. You must use CF cards with a data transfer rate higher than the maximum bit rate you choose to use. The higher the bit rate the cleaner the video will look. The lower the bit rate the more video you can fit onto the CF card.

1X speed = 150kb/s

For example:

Normal speed 24X CF card = $24 * 150K =$ about 3.6 Mb/s

Medium speed 40X CF card = $40X * 150K =$ about 6 Mb/s

High speed cards of over 100X are now available. We recommend using at least an 80X for the highest bit rates.

MP3 audio files and JPEG picture files may use the low speed CF cards.

NOTE: in the first half of 2010 we have had many reports of SanDisk CF cards not working properly. Reports were “freezing” and “pixelating”. We have had good experience with Transcend 133x speed CF.

Settings for Editing Software Output to File

Video Settings:

MPEG1 (VCD) bit rate 1.8 Mb/s to 3.3 Mb/s resolution 352 x 240

MPEG2 (SVCD) bit rate 3 Mb/s resolution 480 x 480

MPEG2 (DVD) bit rate 3 Mb/s to 9 Mb/s resolution 640 x 480 for 4:3, 720 x 480 for 16:9

MPEG4 (DivX Codec) bit rate 4 Mb/s resolution 640 x 480 for 4:3, 720 x 480 for 16:9

(JPEG resolution 1600 x 1200 in 4:3 aspect ratio)

Frames per second = 29.97

Note that when using the VGA output the max resolution is 640 x 480 or 720 x 480 (16:9)

Audio Settings:

Format = Layer 2

Channels = Stereo

Sample Rate = 44.1 kHz

Bit Rate = 192 kbps

MAC / Apple Users Special Notes

You can create MPEG movie clips on a Mac, but the MPEG files that you made need to be transferred to the CF card using a PC or even a virtual PC. Please note that the CF card must be formatted to FAT 32 on a PC. You may also import .avi files into the MPEG Video Wizard software and Export as MPEG files.

We often have calls from MAC users where the video is fine but there is no audio. It seems that the MAC system prefers to create 2 separate files, video and audio. Please check with your video editing software's help or online forums to find how to create a “multiplexed” stream where video and audio are embedded into a single file.

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