

# DV66 – FAQ SHEET

## DV-66B Hardware Related Q & A

### **Q: How to switch from Video Composite to VGA output**

A: To switch the AV and VGA output of DV-66B, please refer to the following methods:

1). Internal switch (DV-66B on board selection) - To switch between VGA/AV mode on DV66B, dipswitch # 2 must be changed from the "ON" to the "OFF" position WHILE THE PLAYER IS POWERED ON.

2). Via RS232 - please contact your sales representative for DV-66B RS232 command list sheet.

The RS232 command for VGA/Video is:

RS232 Code (Decimal) - 227

RS232 Code (Hex) - E3

IR Key code - 27

### **Q: The Ultra II Series cards are thicker than the normal compact flash cards (5mm. instead of 3.3mm.) - will this be a problem?**

A: Both Compact Flash type I and type II can be used for the DV-66B player.

### **Q: How do you transfer the video clips onto the flash cards that will be used in DV-66B?**

A: To ensure the file quality of MPEG file, we recommend contacting your local multimedia studio for professional assistance to transfer the video clips to MPEG-1 or MPEG-2 file. Or, you may purchase a video capture box to capture the video clips to MPEG video format. The file quality will not be ensured. Once you have the MPEG file you can copy and paste to your CompactFlash® Card using a CompactFlash® Card Reader in your computer. You may utilize any CompactFlash® Card Reader for card programming.

### **Q: How do I know if the OSD function is active?**

A: If the OSD function is active, you will see a "Play" or "Track #" displayed on the upper left corner of the monitor, depending on what operating function stage the DV-66B is in.

NOTE: By default the OSD feature is disabled. To enable the OSD function please turn dipswitch # 3 to the "Off" position, while the power is on.

### **Q: What do you specifically use to compress video from a PC?**

A: You can use any video editing software that allows you to convert video clips in different formats such as .avi or .mov to MPEG format file. We suggest customers to use either Adobe Premier or Ulead VideoStudio or Super to import their video clips and save them to either MPEG-1 (352\*240) or MPEG-2 (720\*480) format.

### **Q: Is it possible to change the CF card while the unit is still at ON position?**

A: Only SanDisk Ultra II CF card approved for CF card exchange while the unit is power ON.

### **Q: How do you switch from Menu mode to Repeat mode?**

A: To switch the Menu and Repeat mode of DV-66B, please refer to the following methods:

1) Via Dipswitch # 1 (DV-66B on board selection). Look for the 6-position DIP Switch (Blue color with number from 1 to 6) on the DV-66B. All the switches should set at default mode (Dipswitch # 1 should be set to the "ON" position). Set it to the "OFF" position. Now your DV-66B is set to Repeat mode. This mode will play and loop all the contents stored on your CompactFlash Card (in alphabetical order).

2) Via RS232 command

Please contact your sales representative for DV-66B RS232 command list sheet.

You also could switch the Menu/Repeat mode by modify the command of RS232 TTL signal.

### **Q: How do I setup the PAL display with VGA output on the DV-66B?**

A: For HW1.3 and FW1.6 units, VGA output set as 60Hz, this will help to support the PAL video to transfer its output from 50Hz (PAL) to 60Hz (NTSC) in VGA output. Per this change, it will help to support most of the update LCD/CRT monitors, which support vertical frequency from 56Hz to 78Hz when playing 50Hz PAL video.

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**Q: My DV-66B unit does not play files in the correct order for the files I stored, how can I fix that?**

A: Rename all your files from 000.mpg and all the way up to 099.mpg. When the player starts to play, it's always going to be 000.mpg file first.

**Q: What is the recommended operating temperature range of DV-66B?**

A: Temperature range: Operating = 0 to +60°C

**Q: How do I connect the PIR sensor to the DV-66B?**

A: PIR sensor has three wires (for example: OUT, V+, and GND). With these wires you can connect directly to the J4 (PIR connector) connector on the DV-66B. Please connect the OUT (PIR) to P20 (J4), V+ (PIR) to Vcc (J4), and GND (PIR) to GND (J4).

**Q: How can I control the player with 30 buttons selection?**

A: There are two ways you can achieve this function, both method can control up to 99 tracks.

Use the DV-68K with wiring modification.

Use the RS232 cable and RS232TTL command software.

Please note: When making track selections using the DV-66K or RS-232 the DV-66B will not lockout.

Meaning that if you select one track, then select another track while the first track is playing; the DV-66B will not wait until the first track is finished.

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## DV-66B File Encoding Related Q & A

### **Q: What is the maximum MPEG-2 bit rate the player can handle?**

A: MPEG-2 Bit rate for IBM MicroDrive application:

- CBR (consistent bit rate) = 8Mbps
- VBR (variable bit rate) = average 8Mbps / peak 9Mbps

MPEG-2 Bit rate for Compact Flash card (40X or above) application:

- CBR = 5Mbps
- VBR = average 4.5Mbps / peak 5.1Mbps

MPEG-1 refers to CBR only!!

### **Q: I am a Mac user, is there anything I should be aware when creating MPEG for DV-66B player?**

A: You can create MPEG movie clips on 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 CF card has to be formatted to be FAT16 from a PC. If you are unable to create MPEG movie clips on Mac, you can use Mac Quicktime to save the file in \*.avi format and read the file in the PC, then using Adobe Premiere to import/convert the \*.avi file into \*.mpg file format.

### **Q: What is the extension on the MPEG-1 or MPEG-2 files?**

A: To have the MPEG-1 and MPEG-2 played properly through DV-66B player. You need to make sure both MPEG-1 and MPEG-2 have file extension 'xxx.mpg' Or else the video clips will not be recognized by DV-66B.

### **Q: What is the DV-66B Response Time?**

A: From pressing a button or issuing a serial command, approximately 1 second

### **Q: DV-66B NTSC/PAL auto-detection**

A: Refer to the DV-66B player specifications for NTSC/PAL auto-detection capability. Player will auto-detect the programmed file and display in an NTSC or PAL format automatically. Note: Monitor with NTSC or PAL capability is needed for proper viewing. Refer to system setup examples:

NTSC

>> DV-66B -- NTSC/PAL auto detection

>> program file on CF card -- NTSC

>> Display unit (monitor/LCD/TV) -- either NTSC/PAL auto-selection, or NTSC system

PAL

>> DV-66B -- NTSC/PAL auto detection

>> program file on CF card -- PAL

>> Display unit (monitor/LCD/TV) -- either NTSC/PAL auto-selection, or PAL system

### **Q: What is the DV-66B Audio / Video file resolution?**

A: MPEG-1 (VCD) : bit rate 1.8Mbps ~3.3Mbps resolution 352 x 240

MPEG-2 (SVCD): bit rate 3Mbps resolution 480 x 480

MPEG-2 (DVD): bit rate 3Mbps~8Mbps , resolution 720 x 480

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**Q: What are DV-66B VGA output parameters and is there a way of changing the parameters (resolution, refresh rate)?**

A: VGA or NTSC output

Resolution: 720 x 480

Horizontal Freq: 31 kHz

Vertical Freq: 60 Hz

VGA mode / PAL output

Resolution: 640 x 480

Horizontal Freq: 31kHz

Vertical Freq: 50Hz (49.9Hz)

Version 1.6 Vertical Freq: 60 Hz

DV-66B only supports single output 720 x 480 for VGA output and no, the VGA parameters cannot be changed.

**Q: What is the DV-66B Quality of VGA & Video signal?**

A: The Image resolutions and frame rate for VGA and Video signal is as below:

VGA output: max. 720 x 480/ 60Hz for NTSC and 640 x 480/60Hz for PAL

Composite Video: NTSC/60Hz/505 lines; PAL/50Hz/625 lines

**Q: Why did my DV-66B player freeze on me and lock up the images on the display?**

A: The main cause of the malfunction is due to non-mpeg, mp3, or jpg format file in the CF card. For example, if your CF card contains MPEG-2 files and word document, this kind of setting would have cause the unit to freeze or lock up the image on the display when you used the external controller like the DV-66k. If you encounter freezing or locking up images on the display, carefully remove the CF card from the player and delete

### DV-66B Content Storage Related Q & A

**Q: How do I format the CF card to be FAT16?**

A: DV-66B only supports the CF card that is formatted to be FAT, FAT16 and FAT32 from a PC (Do not format on a MAC). To format your CF card on a PC please see the instruction below:

- a) On your PC, go to My computer and select the location of your CF card reader, it could be E: or G:, etc.
- b) Right click on your mouse when pointing it to the CF card drive.
- c) A menu will appear, choose Format in the selections.
- d) There should be three items under File System, select "FAT" ,FAT(16)" or " FAT32". Do not pick NTFS!
- e) Click Format now to start the formatting process

**Q: What is the largest CF micro drive that the DV-66B supports?**

A: Currently the DV-66B can support CF MicroDrive up to 2.2 GB.

**Q: How is the 2.5 HDD formatted and loaded with media files?**

A: Connect the 2.5 HDD to your existing PC with the 44-pin ribbon cable, or an IDE to 44-pin adaptor to connect with the IDE port, have the HDD set as secondary master or primary slave (depending on the PC available port). Afterwards, start up the PC and go to My Computer. Right click on 2.5 HDD and choose format. The PC will ask which format. Choose FAT32 format, the DV-66B does not recognize the NTFS format. After you are finished with formatting, you can copy and paste the video files into this HDD. When you are done with the copying, remove the HDD from PC and connect it back to the DV-66B.

**Q: What is the maximum capacity of HDD that I can be used?**

A: There are no limits on the capacity of HDD.

Please note: Have only tested up to 40GB.

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**Q: How do I test my CompactFlash® Card?**

A: Test files are available at:  
[www.technovision.com/ftp/TEST\\_MEDIA](http://www.technovision.com/ftp/TEST_MEDIA)

**Q: What speed specification of CF card is required for DV-66B to play MPEG-2 video clips smoothly?**

A: We recommend a minimum of 40X (Ultra high speed) or above for MPEG applications.

**ADDITIONAL NOTES:**

First, the MPEG-2 specification bit rate is between 3Mbps--8Mbps. (If you play the MPEG file in the power DVD or other software, you can open some OSD function to show this rate on the screen). For the DV-66B, it is refer to the READ rate of the CF card:

1X speed = 150kbps

For example:

Normal speed 24X CF card =  $24X * 150K = \text{approx } 3.60\text{MB/s}$ .

High-speed 40X CF card =  $40X * 150K = \text{approx } 6.00\text{MB/s}$ .

Following the above formula, you may calculate the suitable Compact Flash card speed for your application.

For a normal resolution video footage, the average bit rate might be just about 3Mbps to 4Mbps and the peak bit rate might be just 5Mbps or 6Mbps. Then, a 40X Compact Flash card will be adequate.

For a higher resolution video footage with numerous frame changes, the average bit rate 5Mbps to 6Mbps and the peak bit rate 8Mbps-9Mbps. A Compact Flash card of 50X ~ 60X is needed to play the video program smoothly.

For the DV-66B MPEG-2 player Compact Flash card programming, we have 3 recommendations for our customers:

1. Use 40X or above CF card for normal video program.
2. Edit the video program at the setting of average around bit rate 4Mbps~4.5Mbps.
3. Edit the video program at the setting of peak bit rate to be under 6Mbps.

**Q: What format CompactFlash Card does the DV66 Player use?**

A: The DV66 player uses FAT16 or FAT32 format.

**Q: What is the maximum storage capacity/time of the DV-66B?**

A: The video storage time of the Compact Flash card is as follows:  
MPEG-4 (.divx) video @ 4.5mbps, 1GB = approx 24 ~ 32 minutes  
MPEG-2 (.vob DVD quality) video, 1GB = approx 15 minutes