EPSON®

S1D13705 Embedded Memory LCD Controller

13705BMP Demonstration Program

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13705BMP

13705BMP is a demonstration program for the S1D13705 which can read and display .BMP format (Windows bitmap) files.

The 13705BMP display utility is designed to operate on an x86 based personal computer. There are both 16-bit and 32-bit versions of 13705BMP. The 16-bit version is for use under DOS when the S1D13705 evaluation board has been configured for D0000. The 32-bit version is intended for use under Win32. Before use 13705BMP must be configured for the display system. Consult documentation for the program 13705CFG.EXE which can be used to configure 13705BMP.

13705BMP is not supported on non-PC platforms.

Installation

For 16-Bit Program Version: copy the file 13705BMP.EXE to a directory that is in the DOS path on your hard drive.

For 32-Bit Program Version: install the 32-bit Windows device driver S1D13X0X.VXD as described in the S1D13X0X 32-Bit Windows Device Driver Installation Guide, document number X00A-E-003-xx. Copy the file 13705BMP.EXE to a directory that is in the DOS path on your hard drive.

Usage

At the prompt, type:

`13705bmp bmp_file [/a[time]] [/l] [/p] [/noinit] [/?]`.

Where:

`bmp_file`	the name of the file to display
`/a[time]`	automatic mode returns to the operating system after “time” seconds. If time is not specified the default is 5 seconds. This option is intended for use with batch files to automate displaying a series of images.
`/l`	override default configuration settings and set landscape display mode.
`/p`	override default configuration settings and set portrait display mode.
`/noinit`	bypass the register initialization and use the current setup use this option to override changes that take place to the timing registers
`/?`	displays the Help screen

Comments

- 13705BMP currently views only Windows BMP format images.

Program Messages

ERROR: Did not find an S1D13705 device.

The HAL was unable to locate an S1D13705 at the configured address. Check that the correct physical address was configured into 13705BMP.EXE

ERROR: Unable to locate/load S1D13XXX.VXD

The file S1D13XXX.VXD is required by the 32-bit version of the 13705BMP. Check that the .VXD file is in c:\WINDOWS\SYSTEM. If the file is not there, install it as described in the S1D13XXX 32-Bit Windows Device Driver Installation Guide, document number X00A-E-003-xx.

ERROR: An IOCTL error occurred.

The device driver S1D13XXX.VXD was unable to assign memory. Check that the PC hardware is configured correctly and that 13705BMP has been configured with the correct memory location.

ERROR: The HAL returned an unknown error.

This error message should never bee **seen. Contact ERD.**

ERROR: Could not initialize device.

The HAL failed to initialize the S1D13705.

Failed to open .BMP file '?.....?'

13705BMP was unable to open the .BMP file ?.....? specified on the command line.

?.....? is not a valid bitmap file.

While performing validity checks it was determined that the file ?.....? is either not a valid .BMP file or is of an unsupported format.

ERROR: Unable to set a suitable display mode.

13705BMP was unable to set a display mode to view the image with.

ERROR: Currently unable to process images greater than 8 bpp.

13705BMP can decode images of 8BPP or less color depth. Try reducing the color depth of your image.

ERROR: Image larger than display memory size.

The amount of memory required by this image is more than the amount of memory available to the S1D13705. Try choosing a smaller image.

ERROR: Unable to allocate enough memory to decode the image.

In order to decode a .BMP image 13705BMP needs to allocate some additional system memory. This message is seen if the call to allocate additional memory fails.