AVC8000S

8xD1 Video Frame Grabber

Application
Note
HDelay

Advanced Micro Peripherals
THE EMBEDDED VIDEO EXPERTS

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Revision History

Document version	Date	Comments	Approved
A.00	20th November 2013	Initial release	AS

Contents

Introduction

The AVC8000S driver has predefined values for the setup of the input video decoders to support a wide range of video sources. With some sources however the standard configuration will not work correctly leading to black bars down the edge of the capture.

To resolve this issue the windows driver supports a manual override of the Horizontal Delay (HDELAY) setting used by the decoder to control which section of the input video is captured. HDELAY determines the number of pixels before the start of active video on each line.

The example given in Figure 1 - HDELAY shows a situation where the standard HDELAY value does not match the input video source and so part of the non-active video signal (indicated by the hatched area) is captured on the right hand edge. In this case the HDELAY value should be made smaller to correct the offset.
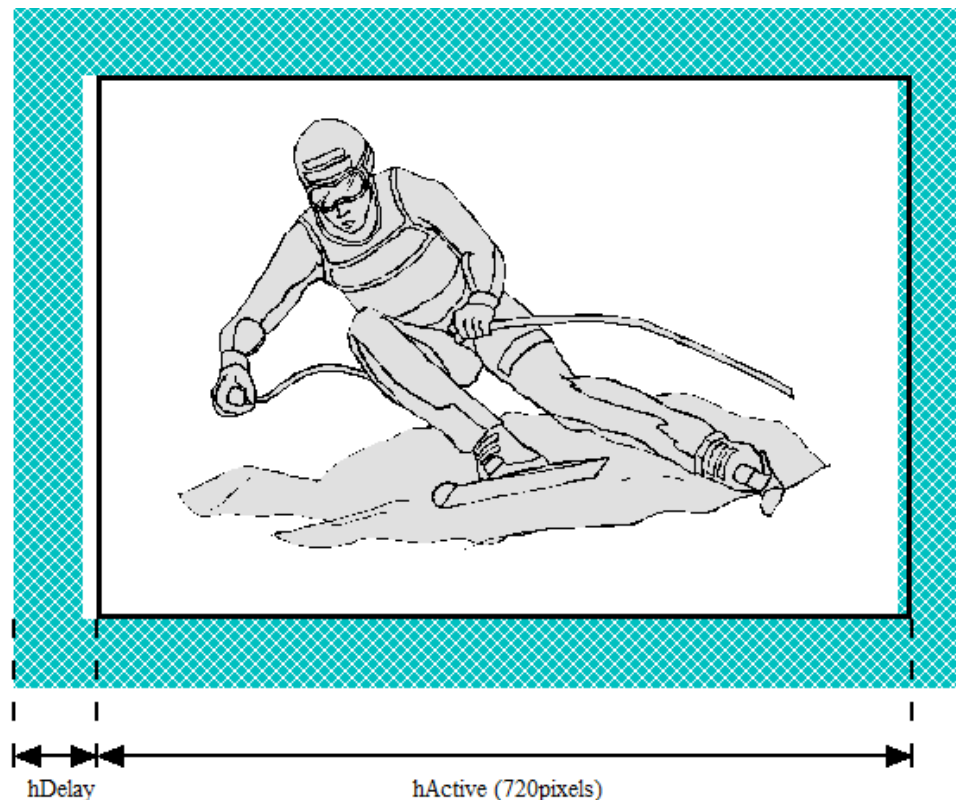

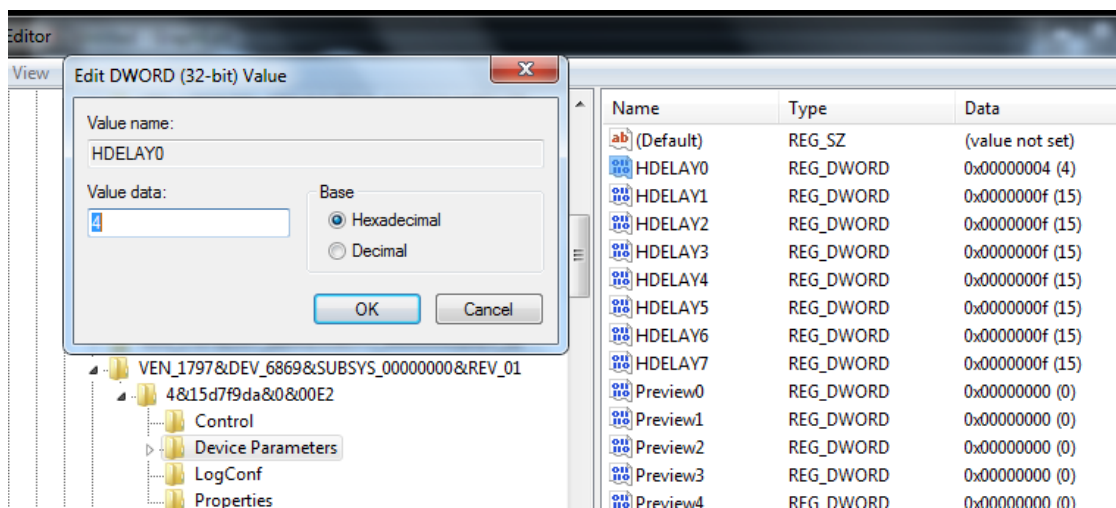hDelay   hActive (720pixels)

Figure 1 - HDELAY

Manually Setting HDELAY

The HDELAY value is stored in the system registry and read by the driver whenever a channel is opened. The following procedure can be used to change the HDELAY value for a given channel

1. Ensure the latest driver is installed.

2. Open the Windows registry editing tool, regedit, by doing Windows + R, and typing regedit in the run box.

3. Browse to the following key:
   HKEY_LOCAL_MACHINE\System\CurrentControlSet\Enum\PCI\VEN1797&DEV _6864&SUBSYS_00000000&REV_01\XXXX\DeviceParameters. (XXXX is a generated string that will vary on each system)

4. Each channel can have a unique HDELAY value. Create a DWORD value with the name HDELAYx where x is a 0 based channel number, e.g. for the first channel create a key called HDELAY0. Set the value data to the desired HDELAY, for reference the default HDELAY values are given below.

   NTSC: 0x0A

   PAL: 0x0f

5. Close regedit and restart the application that is using the AVC8000S for the changes to take effect.

A:
Contacting AMP

Sales

AMP's sales team is always available to assist you in choosing the board that best meets your requirements. Contact your local sales office or hotline.

Sales office US

Advanced Micro Peripherals Inc.
Suite 1117, 149 Madison Ave
New York
NY, 10016
USA

Tel: +1 212 951 7205
Fax: +1 212 951 7206
E-mail: sales@amp-usa.com
Web: www.amp-usa.com

Sales office UK

Advanced Micro Peripherals Ltd.
1 Harrier House, Sedgeway Business Park
Witchford, Cambridge,
CB6 2HY
United Kingdom

Tel: +44 (0)1353 659500
Fax: +44 (0)1353 659600
E-mail: sales@ampltd.com
Web: www.ampltd.com

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Please submit your technical support query to the appropriate email address:

Technical support US

E-mail: support@amp-usa.com

Technical support UK

E-mail: support@ampltd.com