



**MS9100, MS9200  
HD Decoder Card  
Installation Guide**

HD DECODER CARD INSTALLATION GUIDE

June 30<sup>th</sup>, 2002

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# Preface

## About This User Guide

The manual is comprised of the following chapters:

- Chapter 1: Introduction**
- Chapter 2: Installation Overview**
- Chapter 4: Installing the HD Decoder Card**
- Chapter 5: Installing Drivers**
- Chapter 6: Installing MGI SoftDVD MAX**
- Chapter 7: Installing the HD Server Application**
- Chapter 8: “Regedit”**

A full contents list appears after this preface.

## Software Versions

This manual applies to the MS9100 and 9200 HD decoder cards.

MANUAL VERSION	DATE	BY	COMMENTS
1.0	06.30.02	SS	Initial Release
1.1	11.06.03	SS	Add 9200 version D extender card
1.3	08.18.04	SS	General Updates

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## Chapter 1: Introduction

The MediaSonic MS9100 and MS9200 HD Decoder cards are PCI devices that when installed in a standard desktop Personal Computer will allow the user to display single channel analog (MS9100) or digital (MS9200) High Definition encoded program material.

The cards decode MPEG MP@HL transport streams and output either SMPTE 296 or SMPTE 274 formats as defined by the ATSC (Advanced Television Standards Committee).

A video preview display is provided, allowing the operator to view a copy of the Analog video output within the graphical user interface.

Note: Video preview function is only available on a graphics card that utilizes a VIP 2.0 connector.

Digital video ensures that image quality is maintained irrespective of the number of times a file is displayed or copied. Using the computer/network topology, video files may be transferred and displayed on remote Players.

## Chapter 2: Installation Overview

### MS9100 HD Decoder Card

#### MS9100 Package contents:

1. MS9100 HD Decoder Card with: Analog HD Video output/Black-burst/SPDIF/Timecode connectors
2. 26 pin ribbon cable
3. “Y” adaptor cable (2x RCA male to 1x 4 pin mini DIN)
4. Two female/female RCA adaptor connectors
5. CD-ROM (includes all software necessary for installation and operation of the HD Decoder Card, as well as a Video Test File)
6. HD Server Application User Manual

### MS9200 HD Decoder Card

The MS9200 series decoder card is available as versions Rev.C and Rev.D

#### MS9200 Rev.D Package contents:

1. MS9200 Rev.D, HD Decoder Card with: Digital HD Video/Two Analog HD Video output connectors
2. Daughter Card A with: Genlock/Black-burst/SPDIF/Timecode output connectors
3. Qty. 1, 26 pin ribbon cable
4. Qty. 2, 10 pin ribbon cables – required for item 2
5. Daughter Card B with: Analog Audio/S-Video/Composite Video output connectors
6. A 3 conductor ribbon cable – required for item 5
7. A 5 conductor ribbon cable – required for item 5
8. CD-ROM (includes all software necessary for installation and operation of the HD Decoder Card, as well as a Video Test File)
9. HD Server Application User Manual

#### MS9200 Rev.C Package contents:

1. MS9200 Rev. C HD Decoder Card – same outputs as MS9200 Rev.D
2. All of the above except for items 1,5,6,7

**NOTE: These applications must be installed on computers running the Windows 2000 operating system.**

### **HD Decoder Card and Software:**

1. SHUT DOWN the computer
2. Install the HD Decoder Card(s)
3. Install Software:
  - Drivers (Win2000 folder)
  - MGI Soft DVD MAX (MGI Folder)
  - HD Server Application

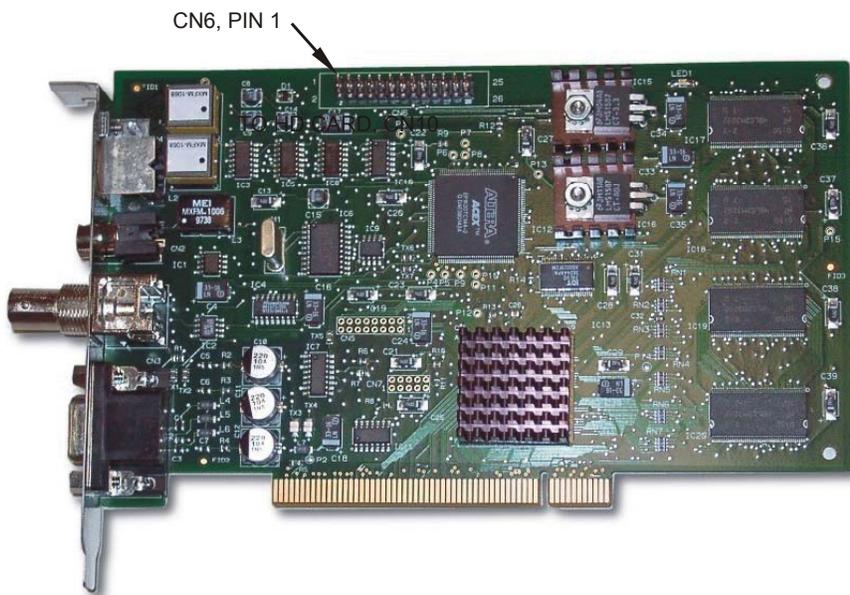
## Chapter 3: Installing the HD Decoder Card

**Note 1:** Observe precautions for handling static sensitive electronic components during installation of the HD Decoder Card.

**Note 2:** Dedicate three adjacent PCI slots to the installation of the Decoder Card(s). This will ensure proper ventilation, and accommodate the required daughter cards (when using the MS9200).

### To install the MS9100 HD Decoder Card:

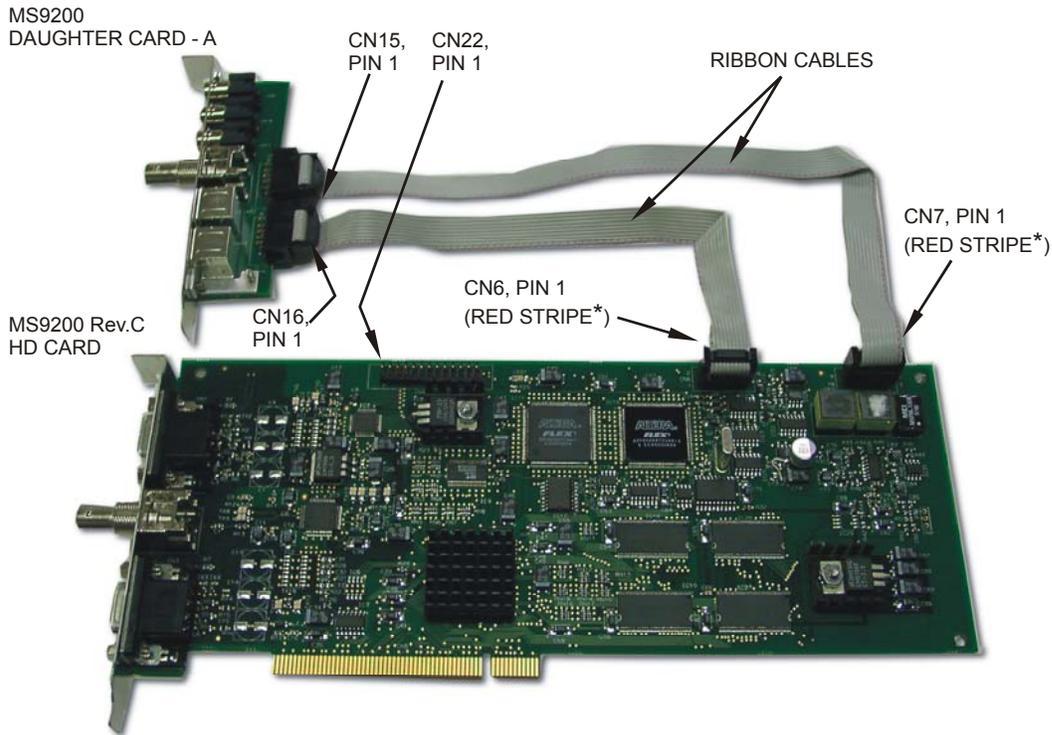
1. Remove the computer cover to gain access to the PCI card slots
2. Remove the PCI slot cover in the card position. Put aside the screw for future use
3. Carefully install the HD Card in the chosen PCI slot.
4. Connect the 26-pin ribbon cable to CN6 on the MS9100 and the PC video card. Make sure that pin 1 is oriented correctly.
5. Secure the card with the screw removed from the PCI slot
6. Replace the computer cover
7. Replace the AC power cable and turn on the computer



**Figure 1.** MS9100 Decoder Card (Analog)

## To install the MS9200 HD Decoder Card (Rev. C)

1. Remove the computer cover to gain access to the PCI card slots
2. Remove the PCI slot covers in the card position(s). Put aside the screws for future use
3. Connect the Digital Card daughter card A to the main HD Card with the two (2) ribbon cables provided
4. Orient connectors CN6 and CN7 as shown in Figure 2, (red stripe marks pin 1)
5. Carefully install the HD Card, (and Daughter Card if needed) in the chosen PCI slots
6. Connect the 26-pin ribbon cable to CN22 on the MS9200 and the PC video card. Make sure that pin 1 is oriented correctly
7. Secure the card(s) with the screws removed from the PCI slots
8. Replace the computer cover
9. Replace the AC power cable and turn on the computer



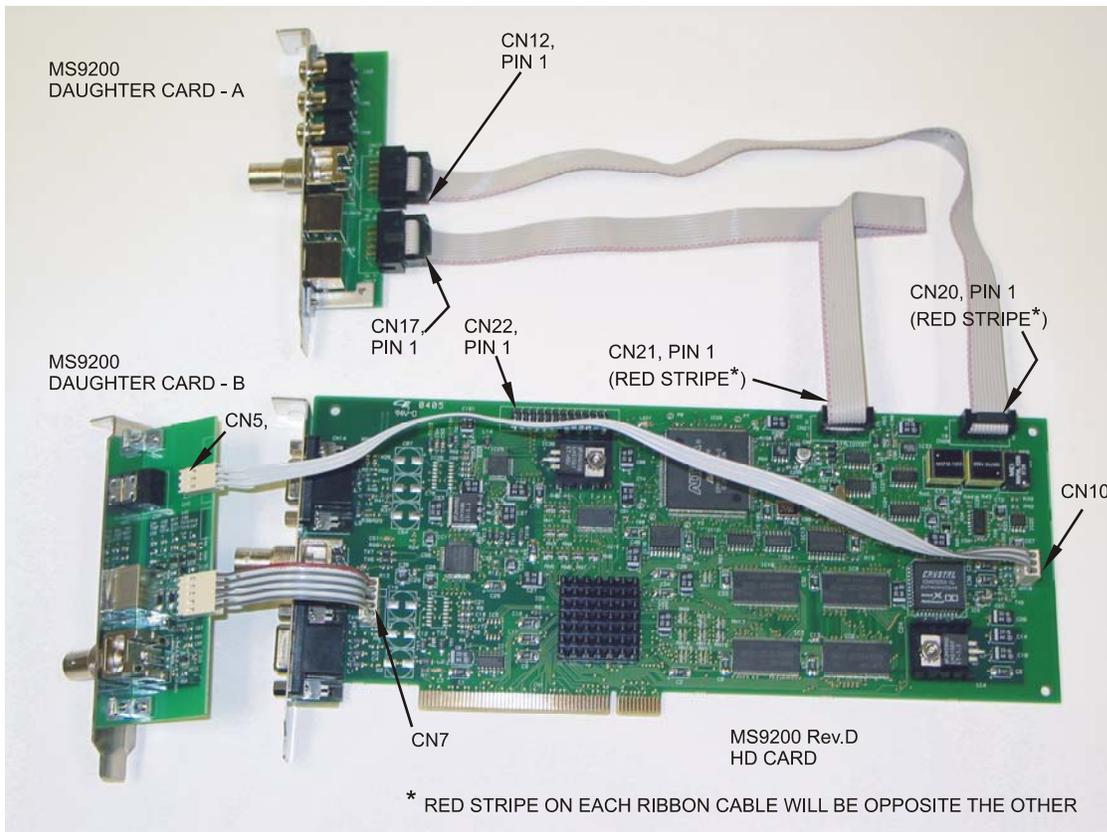
\* RED STRIPE ON EACH RIBBON CABLE WILL BE OPPOSITE THE OTHER

**Figure 2.** MS9200 Rev.C Digital Decoder Card and Daughter Card A connections

## To install the MS9200 HD Decoder Card (Rev. D)

The Rev. D HD Card utilizes an additional daughter card (Daughter Card – B) as well as offering all of the features of the Rev. C card described above.

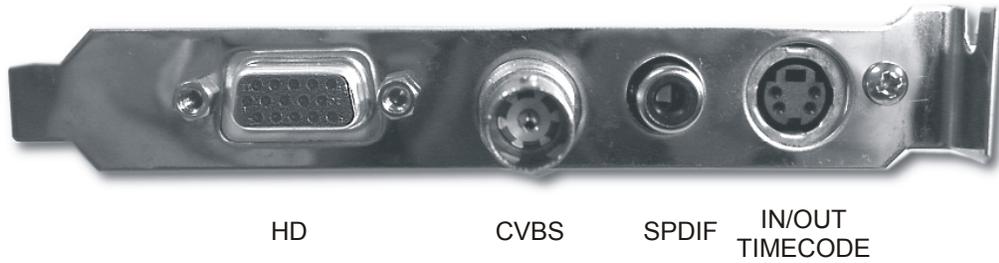
1. Remove the computer cover to gain access to the PCI card slots
2. Remove the PCI slot covers in the card position(s). Put aside the screws for future use
3. Connect the Daughter Card - A (see previous description, Figure 2), connector labels are different, but orientation is the same.
4. Connect Daughter Card - B to the main HD Card with the four (4) ribbon cables provided (see Figure 3)
5. Carefully install the HD Card, (and Daughter Cards) in the chosen PCI slots
6. Connect the 26-pin ribbon cable to CN22 on the MS9200 and the PC video card. Make sure that pin 1 is oriented correctly.
7. Secure the card(s) with the screws removed from the PCI slots
8. Replace the computer cover
9. Replace the AC power cable and turn on the computer



**Figure 3.** MS9200 Rev.D Digital Decoder Card and Daughter Card B connections

### MS9100 Interface

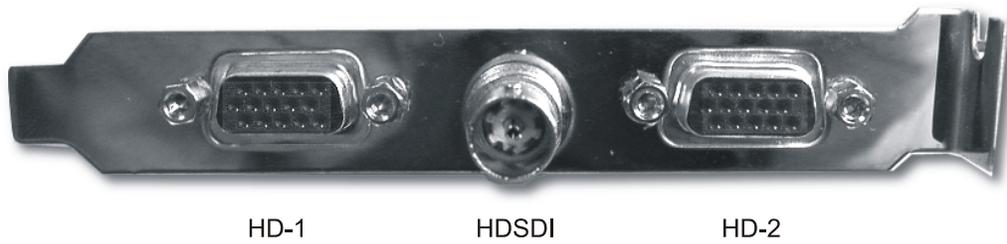
Figure 4 show the interface connectors available for wiring the MS9100 Analog Decoder Card into your display system:



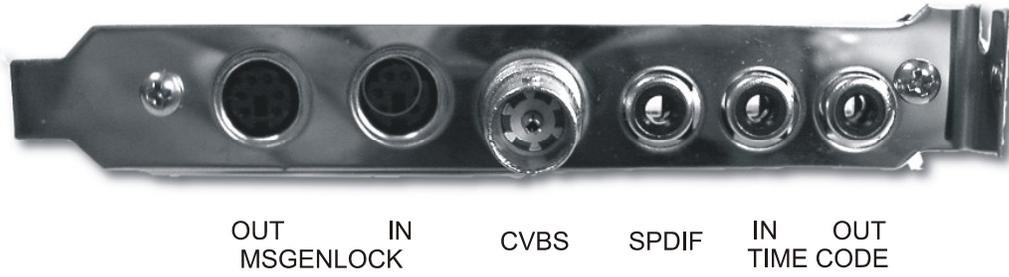
**Figure 4.** MS9100 Analog Decoder Card interface plan

### MS9200 Interface

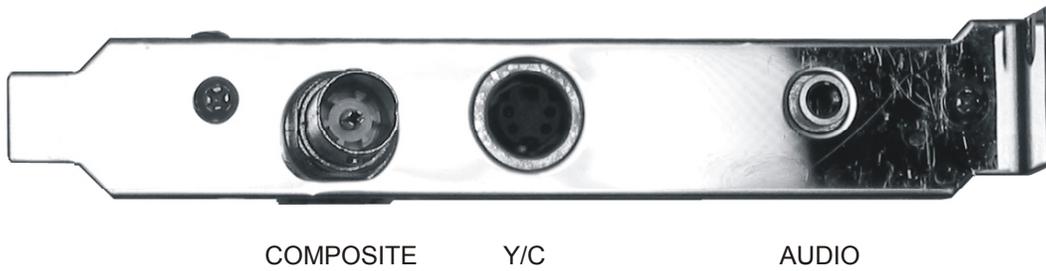
Figures 5-7 show the interface connectors available for wiring the MS9200 Digital Decoder Card/Daughter Card(s) into your display system:



**Figure 5.** MS9200 Digital Decoder Card - Rev. C or Rev .D



**Figure 6.** MS9200 Daughter Card A - Rev. C or Rev. D



**Figure 7.** MS9200 Daughter Card B - Rev. D only

## Chapter 4: Installing Drivers

### The Found New Hardware Wizard

Upon booting-up the computer will display the **Found New Hardware Wizard** dialog box:



This dialog box provides the opportunity to install the drivers necessary for the correct functioning of the newly installed HD Decoder card.

Click **“Next”** to get started.

The Install Hardware Device Drivers dialog box appears:



(Note: The actual contents of this display may vary depending upon the configuration of your computer)

Click **“Next”** to proceed. This will allow the computer to locate the required drivers.

## The Locate Driver Files dialog box

The following picture shows the next dialog box:



Make sure that the “Specify a location” box is checked.

Click “Next”

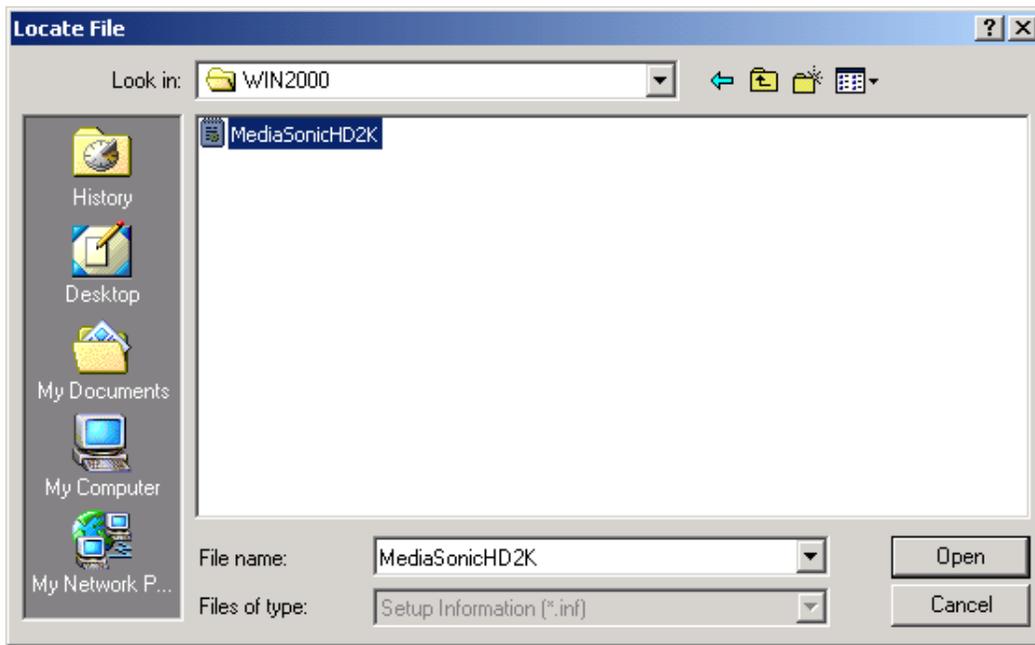
The following dialog box will appear:



You are required to perform a search for the required data.

Insert the CD provided with the HD Card and click “**Browse**” to navigate the CD..

Search CD ROM for: **.../WIN2000/Janus2000**



Select “MediaSonicHD2K” and click “Open”



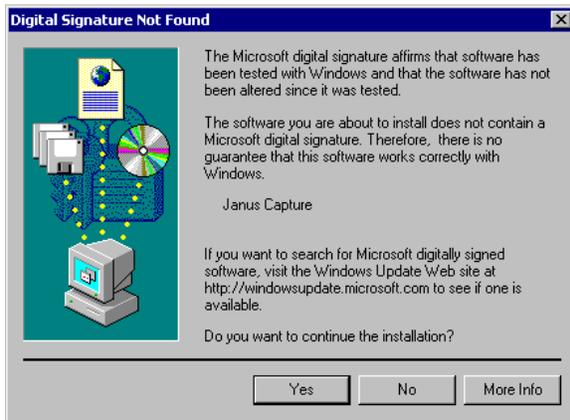
Click “OK”, to copy the drivers to the correct location on your computer.

The Driver Files Search Results dialog box appears:



Click "Next"

The Digital Signature Not Found dialog box appears:



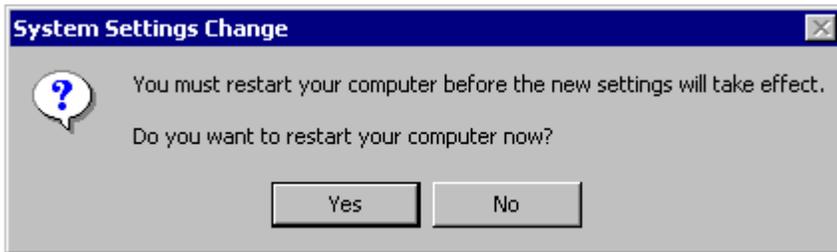
Accept the default, by clicking clicking "Yes"

After a few seconds The Found New Hardware Wizard will appear:



Click **“Finish”**

The following prompt appears:



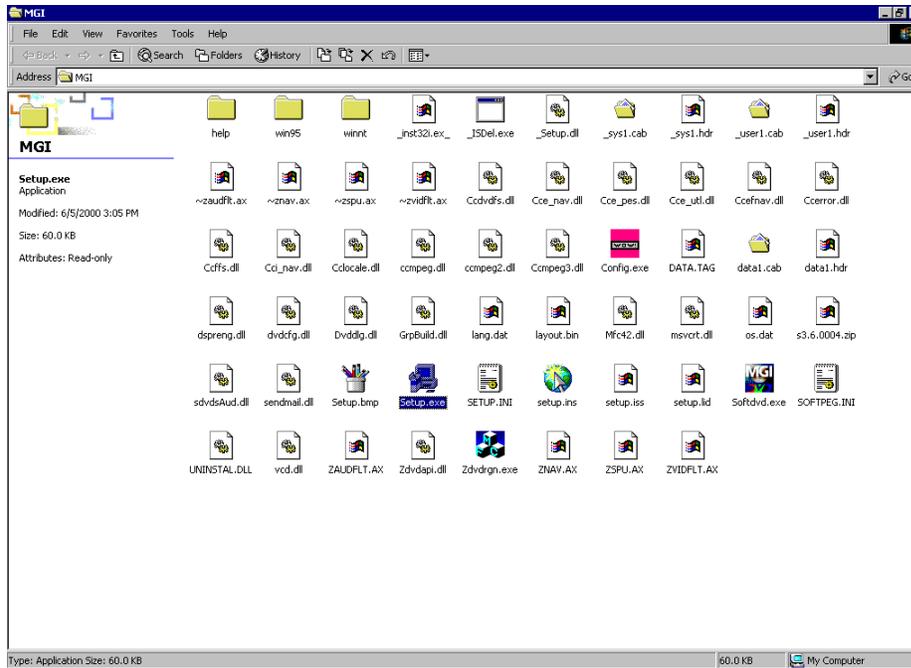
Click **“No”** and proceed to the Installation of the MGI SoftDVD MAX program.

## Chapter 5: Installing MGI SoftDVD MAX

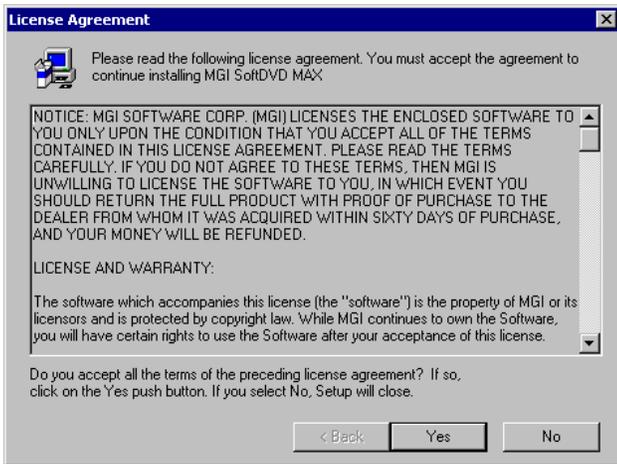
This software enables the audio features of the HD Decoder card.

### CD-ROM contents folder

Locate the file “**Setup.exe**” in the MGI folder of the the CD-ROM:



Double click “**Setup.exe**” then accept the license agreement terms by clicking “**Yes**” in the following dialog:



The MGI SoftDVD MAX Setup dialog box appears.

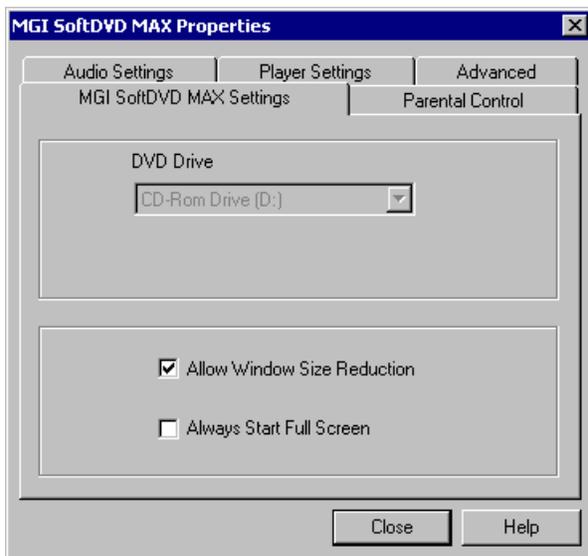
### The MGI SoftDVD MAX dialog box



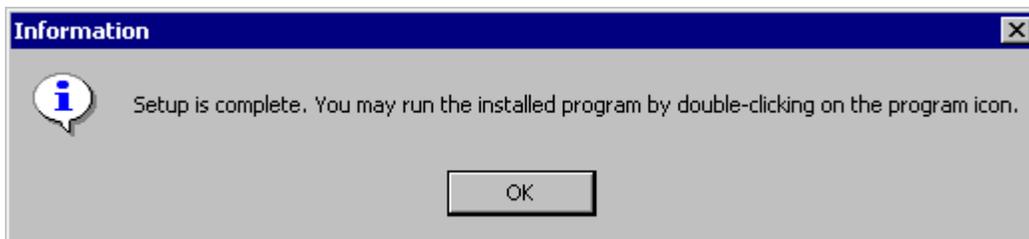
To continue the installation, Click “Next” to proceed.



Accept the default by clicking “Next”

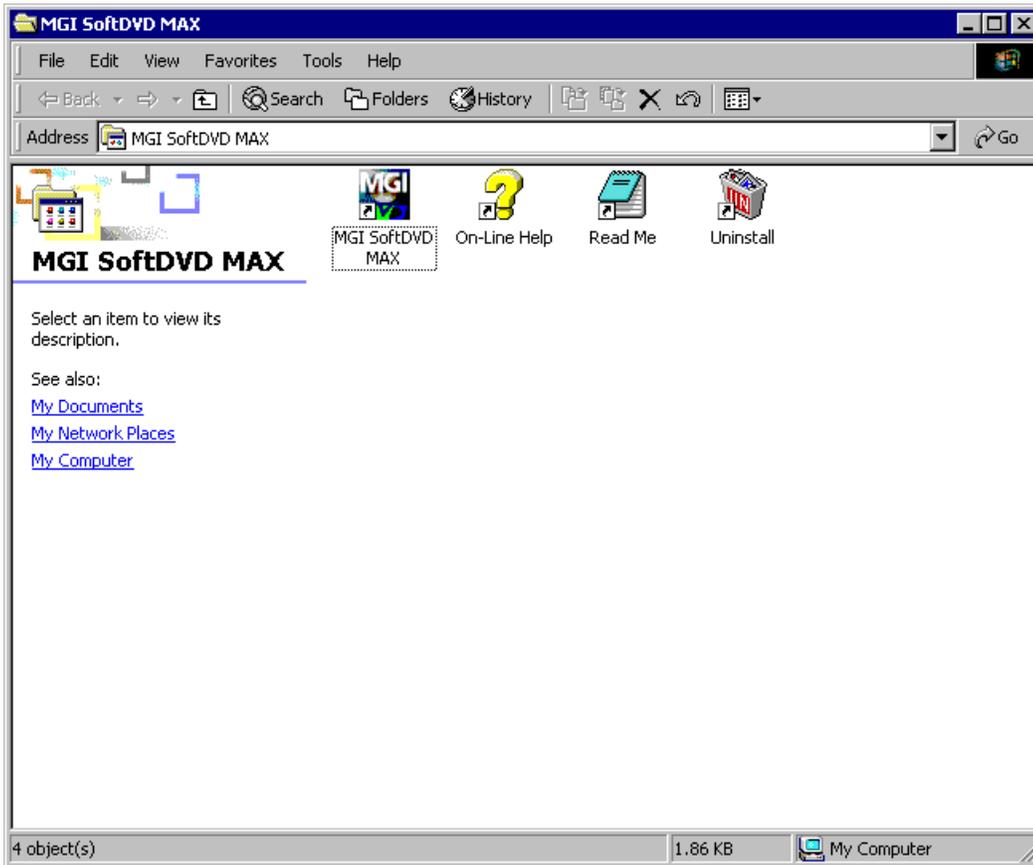


Accept the default by clicking “Close”



Select “OK” to complete the installation of MGI SoftDVD MAX.

The MGI SoftDVD MAX folder opens:



Close the folder.

**Note: the MGI SoftDVD icon should be present on your desktop.**

You may activate MGI SoftDVD MAX by double clicking the icon in the folder above or the desktop icon.

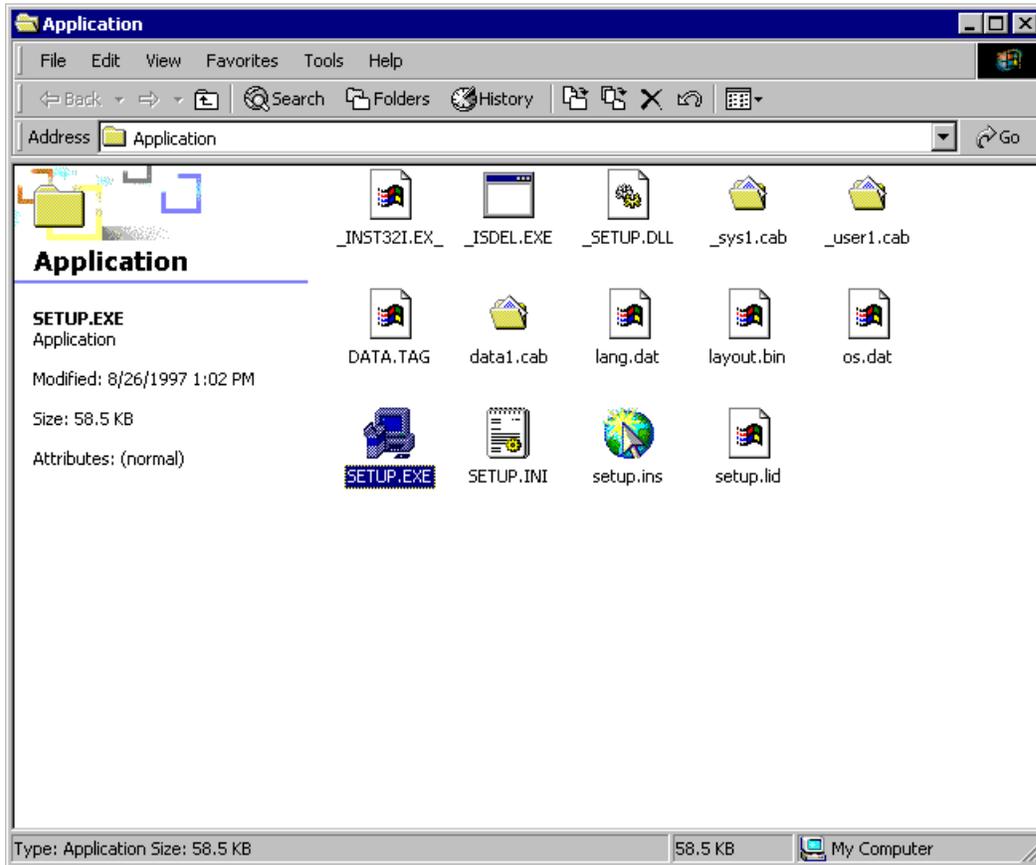
If you prefer, you may delete the icon from your desktop without affecting the software.

## Chapter 6: Install HD Server Application

This software enables user access to the HD Server” control panel”

### Application folder on the CD-ROM

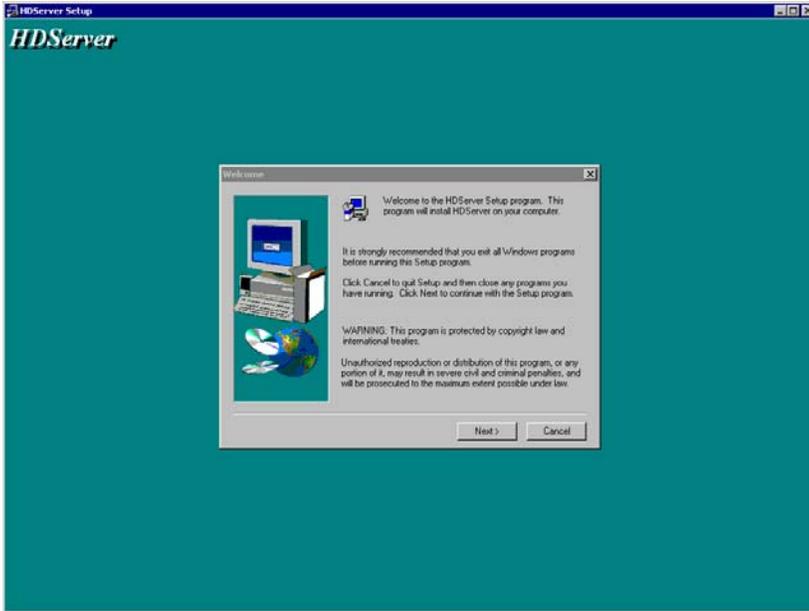
Browse the CD-ROM to the Application folder.



Double click “**Setup.exe**”

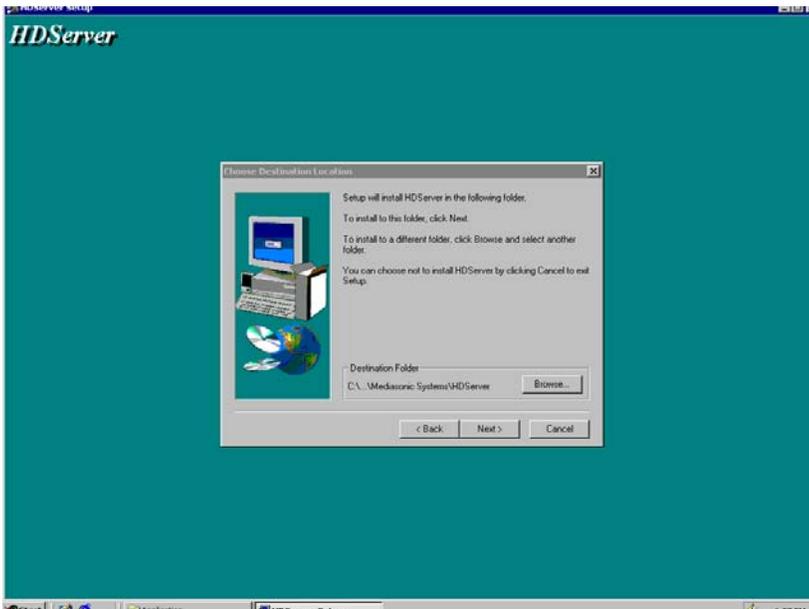
The HD Server Setup dialog box will appear:

The HD Server Setup dialog box:



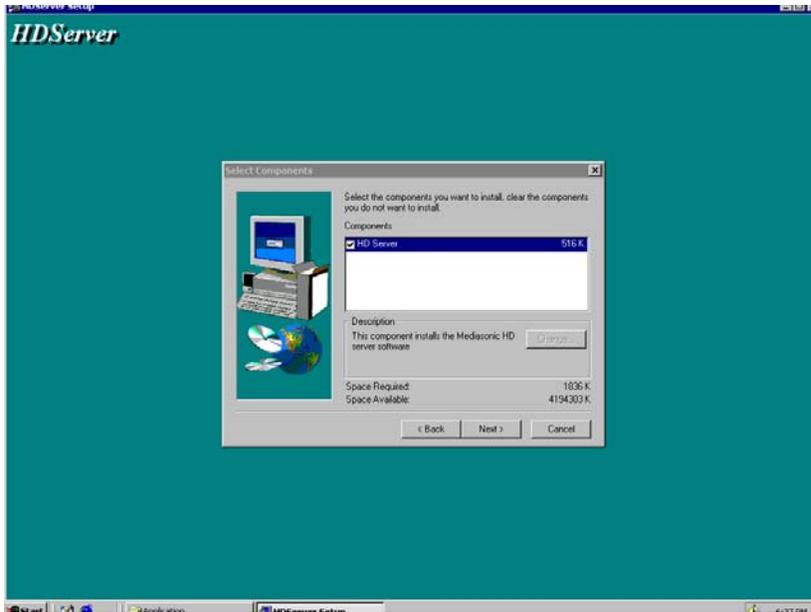
Follow the instructions to close all applications that may be running then click “Next”.

The next dialog box appears to inform you of the default location for installing the HD Server software.:



Click “Next” to accept the default folder.

Default folder:



Make sure “HD Server” is selected.

Click “Next”.



Click “OK”.

A final screen will appear:



Click **“Finish”** to restart your computer.

**The MS 9100 HD Decoder Card installation is complete please refer to the HD Server manual included with your product documentation for further information.**

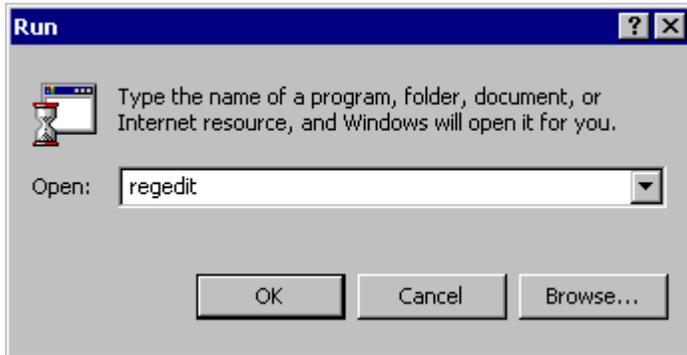
## Chapter 7: “REGEDIT”

### “REGEDIT” (MS 9200 only)

**NOTE: MS 9200 HD Decoder Card users must perform the following procedure:**

From the Windows 2000 “Start” menu, click “Run”.

The “Run” command dialog box opens:



Type “**regedit**” in the dialog and click “**OK**”

The Registry Editor folder opens.

In the **folders** (left side) area of the display:

Double click “**HKEY\_LOCAL\_MACHINE**”

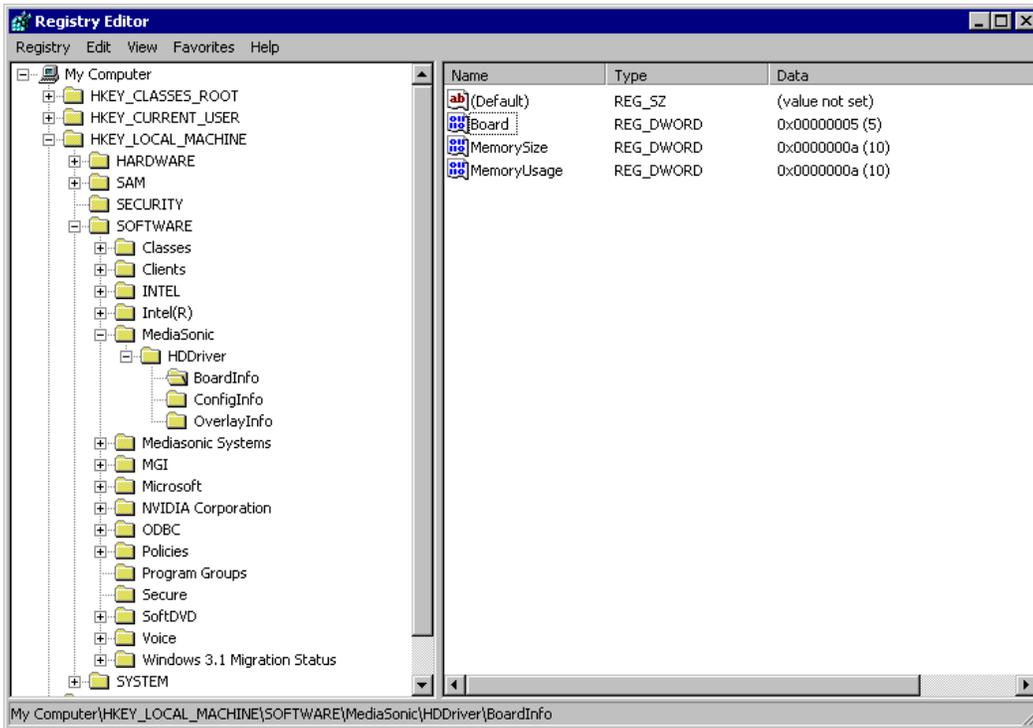
Double click “**SOFTWARE**”

Double click “**Mediasonic**”

Double click “**HDdriver**”

Double click “**Boardinfo**”

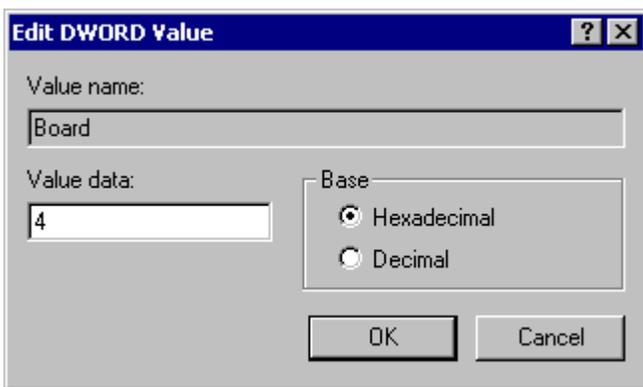
The Registry Editor folder will look like this:



Double click “**Board**”.

### The Edit DWORD Value dialog box

The Edit DWORD Value dialog box appears:



Enter “4” in the Value data window (the default value of 5 is required when using an MS9100 Decoder Card).  
Click “OK”.

## **Registry refresh**

**Refresh NOTE: (In Registry Editor) Select “View”, scroll to “Refresh”**

**The MS 9200 HD Decoder Card installation is complete please refer to the HD Server manual included with your product documentation for further information.**