

MS9100, MS9200 HD Decoder Card Installation Guide

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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:

- $1. \hspace{0.1in} MS9200 \hspace{0.1in} \text{Rev. C HD Decoder Card} \text{same outputs as } MS9200 \hspace{0.1in} \text{Rev.D}$
- 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:





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:

Found New Hardware Wizard			
Locate Driver Files Where do you want Windows to search for driv	ver files?		
Search for driver files for the following hardware	device:		
Multimedia Controller			
The wizard searches for suitable drivers in its dr any of the following optional search locations th To start the search, click Next. If you are search insert the forence lick or CD before clicking Next	iver database iat you specify hing on a flop	on your compute , py disk or CD-RC	er and in)M drive,
Optional search locations:			
CD-ROM drives Specify a location			
Microsoft Windows Update			
	< Back	Next >	Cancel

Make sure that the "Specify a location" box is checked.

Click "Next"

The following dialog box will appear:

Found Nev	w Hardware Wizard	×
=	Insert the manufacturer's installation disk into the drive selected, and then click OK.	OK Cancel
	Copy manufacturer's files from:	Browse

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

HD Decoder Card In	stallation Guide
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Locate File					? ×
Look in:	🔄 WIN2000		•	수 🗈 💣 🎟-	
<u>3</u>	B MediaSonicHD2	ĸ			
History					
Desktop					
Mu Documents					
My Computer					
Mu Network P	File name:	MediaSonicHD2K		•	Open
	Files of type:	Setup Information (*.inf)		T	Cancel

Select "MediaSonicHD2K" and click "Open"

Found New	# Hardware Wizard	×
	Insert the manufacturer's installation disk into the drive selected, and then click OK.	OK Cancel
	Copy manufacturer's files from:	Browse

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:

🚔 MGI											_ 8 ×
File Edit View Favorites To	ols Help										-
🛛 🗢 Back 🔹 🔿 🔹 🖻 🗌 🔕 Search	Folders (History [23 1 2 1 2 1	•							
Address 🔁 MGI											▼ @Go
MGI	help	win95	winnt	_inst32i.ex_	_ISDel.exe	_Setup.dl	sys1.cab	_sys1.hdr	_user1.cab	_user1.hdr	
Setup.exe Application Modified: 6/5/2000 3:05 PM	⊘zaudfit.a x	Image: State of the state o	✓ZSPU.ax	₹ ∼zvidflt.ax	Ccdvdfs.dl	Cce_nav.dll	Cce_pes.dl	Cce_utl.dl	Ccefnav.dll	Ccerror.dl	
Size: 60.0 KB Attributes: Read-only	Ccffs.dll	Cci_nav.dll	Cclocale.dll	ccmpeg.dll	ccmpeg2.dl	Ccmpeg3.dll	Config.exe	DATA. TAG	data1.cab	data1.hdr	
	dspreng.dll	water and the second se	Dvddlg.dll	GrpBuild.dll	ang.dat	ayout.bin	Mfc42.dll	svort.dl	os.dat	\$3.6.0004.zip	
	sdvdsAud.dll	sendmail.dl	Setup.bmp	Setup.exe	SETUP.INI	it setup.ins	setup.iss	setup.lid	Softdvd.exe	SOFTPEG.INI	
		wcd.dll	ZAUDFLT.AX	Zdvdapi.dll	Zdvdrgn.exe	ZNAV.AX	ZSPU.AX	ZVIDFLT.AX			
Type: Application Size: 60.0 KB									60.0 KB	🖳 My Compute	er

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.

Choose Destination Loca	tion	×
	Setup will install MGI SoftDVD MAX in the following folder. To install to this folder, click Next. To install to a different folder, click Browse and select another folder. You can choose not to install MGI SoftDVD MAX by clicking Cancel to exit Setup.	
2 y	Destination Folder	_
	C:\Program Files\SoftDVD Browse	
		_
	< Back Next > Cancel	

Accept the default by clicking "Next"

MGI SoftDVD MAX Prop	erties	×
Audio Settings MGI SoftDVD MA	Player Settings × Settings	Advanced Parental Control
DVD Drive	Drive (D:)	Y
	w Window Size Reduc	tion
□ Alw	ays Start Full Screen	
	CI	ose Help

Accept the default by clicking "Close"

Informati	ion 🛛 🔀
•	Setup is complete. You may run the installed program by double-clicking on the program icon.
	ОК

Select "OK" to complete the installation of MGI SoftDVD MAX.

19	Rev. 0.0

The MGI SoftDVD MAX folder opens:

🚔 MGI SoftDVD MAX		
File Edit View Favorites Tools Help		
🛛 🗇 Back 🔻 🔿 👻 🖻 🛛 🔞 Search 🖓 Folders 🛛 🖓 History 🛛 🖺 🦉 🗙	n 📰 -	
Address 📻 MGI SoftDVD MAX		. ∂∞
MGI SoftDVD MAX	Uninstall	
Select an item to view its description.		
See also: <u>My Documents</u> <u>My Network Places</u> <u>My Computer</u>		
4 object(s)	1.86 KB	My Computer

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:

HDServer Setup			=0 >
HDServer			
	Webcome	,	<u>عا</u>
	B is storage recome	e to the HDServer Setup program. This will install HDServer on your computer. sended that you exit all Windows programs Setup program.	
	Cick Cancel to gat have running. Cick WAPINING: This pr international treater	Setup and then close any program you Next to continue with the Setup program. ogram is protected by copylight law and	
	Unauthorized repro- portion of it, may res will be prosecuted to	suction or distribution of this program, or any ult in severe civil and criminal penalties, and the maximum extent possible under law	
		(1997) Cancel	_

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.:

Salapasa ascob		
HDServer		
	Choose Destination Location	
	Setup will initial HDS erver in the following folder. To initial to this folder, cick New! To initial to a different folder, cick Browse and select another folder. You can choose not to initial HDS erver by clicking Cancel to exit Setup.	
	Destination Folder C.1. Mediasconic Systems/HDServer Bitomen. CReb. Net Destination	
an an 178 at 100 miles	ntron Mathematic Entrum	A 67700

Click "Next" to accept the default folder.

Default folder:

And	
DServer	
Select Components	x
Calert the components on user to initial clear the	
you do not want to install.	
Components	
E HD Server	516 K
Description This component installs the Mediaconic HD	
server software	
Space Required	1836 K.
Spice Areador.	100000
(Back Next)	Cancel
art 178 🚳 Passedratos MultiCasson Calum	de em

Make sure "HD Server" is selected.

Click "Next".

Information X		
٩	The Installation of HDServer is now complete	
	ОК	

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:

Run	? 🗙
7	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	regedit
	OK Cancel Browse

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:

🥵 Registry Editor			
Registry Edit View Favorites Help			
🖃 🗐 My Computer	Name	Туре	Data
HKEY_CLASSES_ROOT	(Default)	REG_SZ	(value not set)
	Board	REG_DWORD	0×00000005 (5)
	MemorySize	REG_DWORD	0×0000000a (10)
HARDWARE	MemoryUsage	REG_DWORD	0×0000000a (10)
- HDDriver			
ConfigInfo			
OverlayInfo			
🕀 🧰 Mediasonic Systems			
🗄 🚞 MGI			
NVIDIA Corporation			
Secure			
Windows 3.1 Migration Status			
SYSTEM			
ست : My Computer\HKEY_LOCAL_MACHINE\SOFTWARE\MediaSonic\HI	DDriver\BoardInfo		

Double click "Board".

The Edit DWORD Value dialog box

The Edit DWORD Value dialog box appears:

Edit DWORD Value	? ×
Value name:	
Board	
Value data:	Base
4	Hexadecimal
	O Decimal
	OK Conset

26

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.