

FCC ID : FQI3DVPDPCI

EUT: VGA CARD

JOYTECH COMPUTER CO., LTD.

USER'S MANUAL

EXHIB

FEDERAL COMMUNICATIONS COMMISSION

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Shielded interface cables(except speaker, line out data cable) must be used in order to comply with emission limits.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Section 1

Introduction

Thank you for choosing the Media II solution. The Media II multimedia card, together with Mpack 2 3DVD™ Version 1.0, provides your computer with a fully integrated set of features including powerful 2D/3D graphics acceleration with VGA support, and high-quality, high-speed video playback for DVD (with AC-3™ Audio) and MPEG-1.

Your purchase may include Software Dynamics' Entertainment Center, a software application that turns your computer into a central entertainment station for both listening to audio CDs and for viewing videos, Video CDs, and DVDs.

All software for this release is contained on a single CD-ROM.

2. Integrated software for all major multimedia functions on an x86 Windows 95™ PC.
3. Real-time dynamically shared processing with standard or MMX x86 host for highest total system efficiency.
4. Software-programmable hardware interfaces support today's popular displays, video encoders and decoders, and audio, while providing the flexibility to support future I/O device types.
5. Low cost codecs are added as needed to support a wide range applications.
6. Only two low-cost 2-Mbyte Rambus DRAMs needed for normal operation.

Your Windows 95 distribution disk, if additional files are needed during installation of software components.

- Monitor with "Designed for Microsoft Windows 95" logo.
- DVD-ROM drive with DMA enabled

To enable DMA:

1. From the Windows task bar, choose **Start> Settings> Control Panel**.
 2. Double-click the **System** icon to open the System Properties dialog.
 3. Choose the **Device Manager** tab.
 4. Double-click the **CDROM** icon.
 5. Select your DVD-ROM device entry.
 6. Click the **Properties** button to open the Properties dialog for the DVD-ROM.
 7. Choose the **Settings** tab.
 8. In the **Options** section, select **DMA**.
 9. Click **OK** to dismiss the DVD-ROM properties box.
 10. Click **OK** to close the Systems Properties box.
- Approximately 67 MB of free space on the C drive, plus 7 MB of additional temporary disk space available during installation

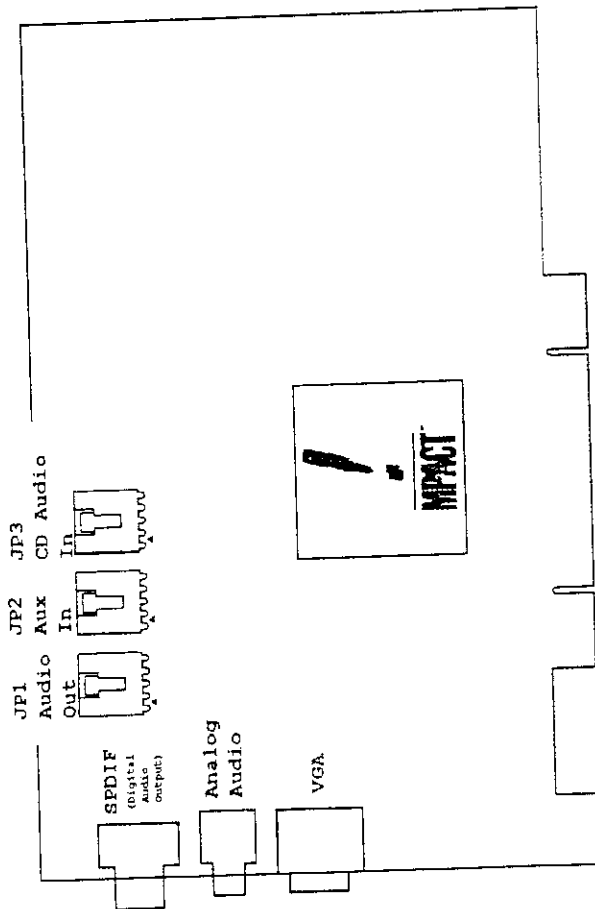
Section 4

Equipment Requirements

Each PC must have at least the following required components:

- 1). Pentium 166 MHz processor (or faster).
- 2). Windows 95, OSR2 version .
- 3). 256KB cache memory.
- 4). Media II PCI / AGP card .
- 5). 16 MBytes RAM (or greater).
- 6). Mediaware for Mpact 2 3DVD Version 1 installed.
- 7). The Mpact card and Mediaware must both be enabled for processing DVD data in the DVD region where the class will be conducted.
- 8). Audio speakers.
- 9). DVD-ROM drive.
- 10). One DVD title (movie disk) for each training station; title must be enabled for viewing in the DVD region where the class will be conducted.
- 11). 17" multi-sync monitor for each station (or larger).

5. Connect your DVD-ROM audio output to the Media II multimedia card internal JP3 jack. For more information, see the **Internal Connectors** section.



5-2. Internal Connectors

Some CDs (audio CDs, game titles with audio tracks, etc.) require that the DVD-ROM drive or CD-ROM drive be connected to the Media II multimedia card. To listen to this type of CD through your Media II card, connect an audio pass-through cable from the internal audio output jack of your DVD-ROM drive or CD-ROM drive to the CD Audio Input connector on the Media II card. The connector on the Media II card is compatible with most DVD-ROM drive and CD-ROM drive audio pass-through cables. If your drive manufacturer did not provide an audio pass-through cable, you can purchase one from a computer supply store at a nominal cost.



Connector	Description
JP2 AUX IN	This jack accepts a standard 4-conductor pass-through cable from an auxiliary audio device.
JP3 CD Audio In	This jack accepts a standard 4-conductor pass-through cable for connecting a DVD-ROM to the Media II card.
JP1 Audio Out	This jack accepts a standard 4-conductor pass-through cable for connecting a CD-ROM to the Media II card.

Section 6

Using Mpact Mediaware

Mpact 2 3DVD version 1.0 is the software that enables the multimedia features of your Media II card.

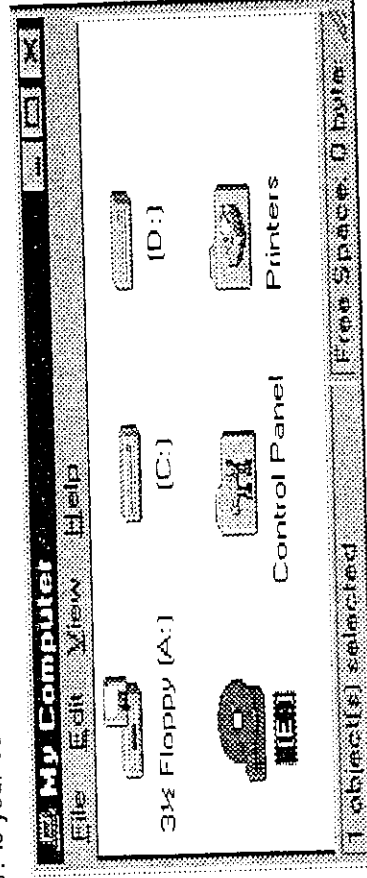
6-1. Installing Mpact Mediaware

Perform the following steps after you install the Media II multimedia card.

1. Run the Mpact setup program from the Mpact mediaware CD-ROM.

The program runs automatically if you have the run CD-ROM automatically option enabled in your Windows 95 system and you insert the CD-ROM disc.

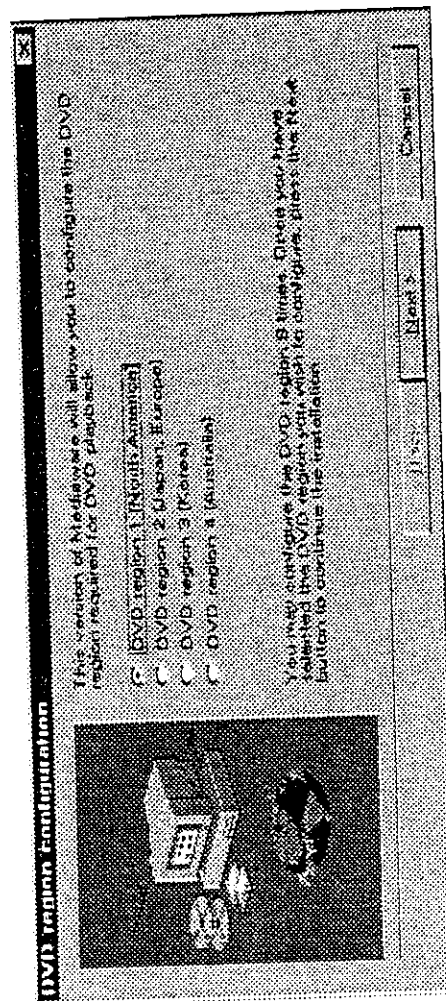
To run the setup program manually, click **Start** on the task bar and select **Run**. Type **E:\setup**, where **E:** is your CD-ROM drive. Click **OK**. (If you have one harddisk only, so we suppose the CD-ROM is d:\)



6-2. Selecting DVD Region

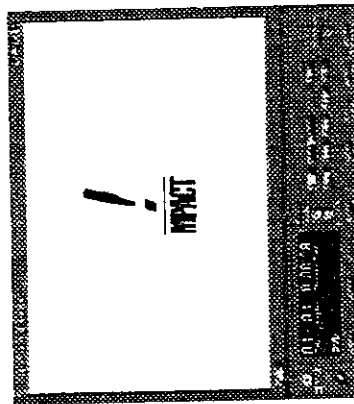
During the mediaware installation process you are given an opportunity to select the region assigned to your area. You can change the region selected up to nine times. To change the selected region you must reinstall mediaware.

The DVD industry allows DVD publishers to restrict media to certain parts of the world. A DVD disc from one region, such as Region 1 (United States, Canada, and part of the Caribbean) may not play on a DVD drive designed for Region 2 (Japan, parts of Europe and the Middle East, and some of Africa) or Region 3 (Korea, Malaysia, Burma, Indonesia, Philippines, and Southeast Asia). There are six regions worldwide.



The following is a list of components in this release:

- **Mpact Mediaware.** The basic software that implements various multimedia functions on the Mpact media processor and the host system. **This box must be checked.**
- **Mpact Multimedia Tour.** This is a short tutorial program that introduces and demonstrates the Mpact multimedia features.
- **Software Dynamics Entertainment Center.** This software application turns your computer into a central entertainment station for listening to audio CDs and for viewing videos, and Video CDs. Entertainment Center can also play DVDs from your region. (Digital Versatile Disk or DVD)



Section 7

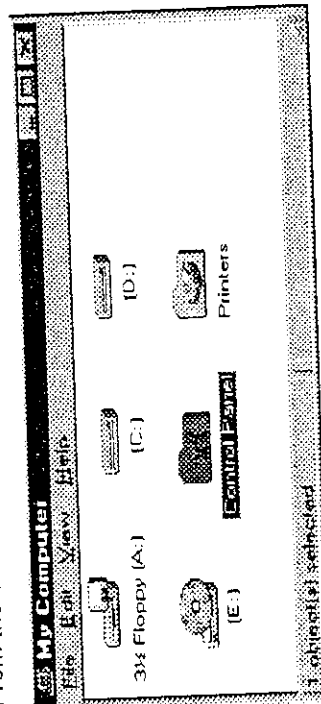
Troubleshooting

The **Media II** has tested the Mpact card thoroughly to ensure that it performs as expected. If you experience a problem with the **Media II** card, review the installation process and check the following details:

- Make sure that the card is properly seated in the PCI or AGP slot.
- Make sure that mediaware is correctly installed. If you think the problem may be the installation of mediaware:
 1. Set the display to VGA. Within this guide, see **Set the display to standard VGA**.
 2. Install mediaware. Within this guide, see **Installing Mpact Mediaware**.

7-1. Set the display to standard VGA

1. From the Windows task bar, choose **Start> Settings> Control Panel**.



4. Click the **Advanced Properties** button.
5. Click the **Change** button.
6. Select the **Show All Devices** radio button.
7. Scroll up the list of manufacturers to select **Standard Display Types (VGA)**.
8. Click **OK**.
9. Windows 95 may request that you restart the PC for these changes to take effect. Reboot if requested.

7-2. DVD Regions

You may need to verify which region your DVD-ROM is designed for.

To verify which region your DVD-ROM is designed for:

1. On the Windows95 task bar, choose **Start> Settings> Control Panel**.
2. In the Control Panel, double-click the **Mpact** icon.
3. Select the **General** tab.

If you attempt to play a DVD from a different region, an error message similar to the one below is displayed.

"This disc cannot be played because the regional encoding is not compatible with this system."

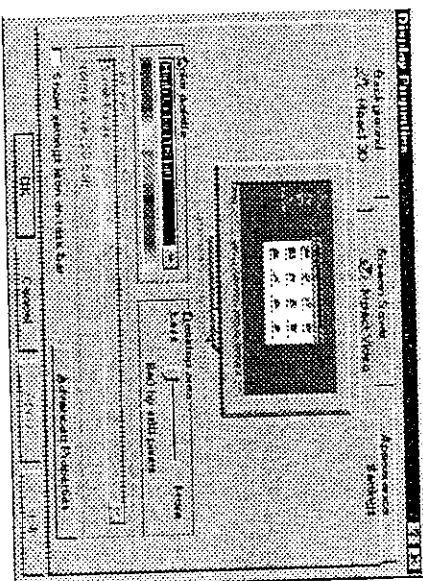
Section 8

APPENDIX

Media II Memory Requirements

Maximum Display Resolution (pixels)	Associated Pixel Depth (bits)	Extra Functions Supported	Rambus Channel 0 (Mbytes)	Rambus Channel 1 (Mbytes)	Total RDRAM (Mbytes)
1280 × 1024	8,16,24	DVD	4	4	8
1280 × 1024	8,16,24		2	2	4
1280 × 1024	8,16	DVD	2	2	4
1024 × 768	8,16,24	DVD	4	4	8
1024 × 768	8,16,24		2	2	4
640 × 480	8,16,24	DVD	2	2	4

3. Click the **Settings** tab.



- **Microsoft DirectX 5.0** This software is supplied by Microsoft to improve multimedia performance. In many cases, an older version of this software will already be installed. Version 5 is required, so be certain to install it if you are running an earlier version.

6-4. Exploring Mediaware's Features

Mpact mediaware comes with a program that demonstrates the features of Mpact multimedia. If you selected the Mpact Multimedia Tour checkbox during the Mpact setup program, the Mpact installation puts a icon on your desktop.



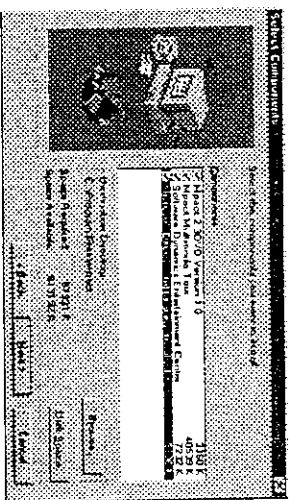
To run the Mpact Multimedia Tour, double-click the Mpact Multimedia Pilot icon on the Windows desktop.

When the Mpact Multimedia dialog box appears, click the arrow button to get started. On the next page, choose an Mpact feature from the list and click the button provided to see the demonstration. At any time, click the "Question mark" button to find out how to get help.

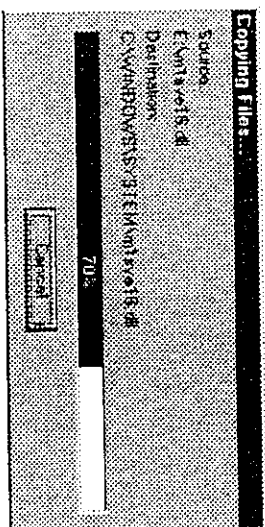
6-3. Selecting Components

During the installation process you are given the opportunity to select components.

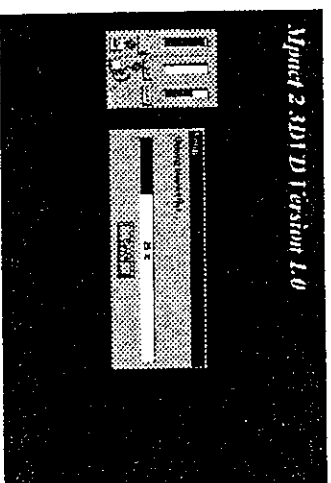
1).



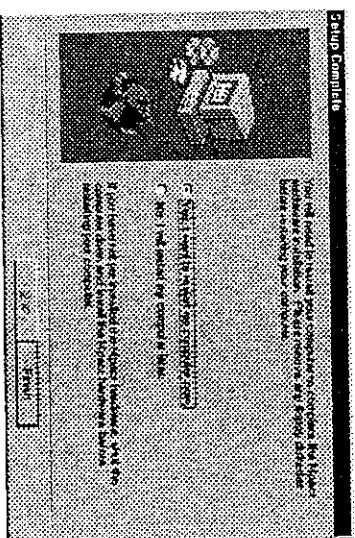
2).



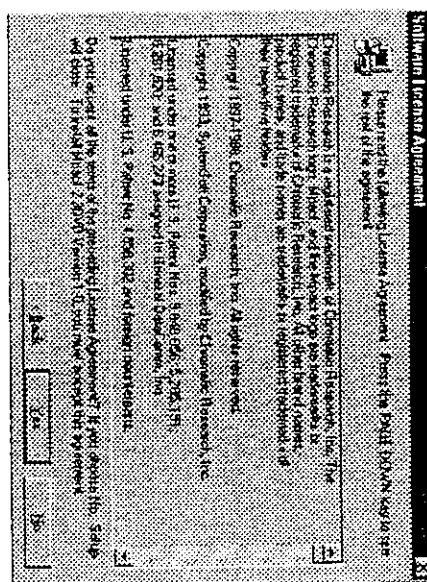
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4).



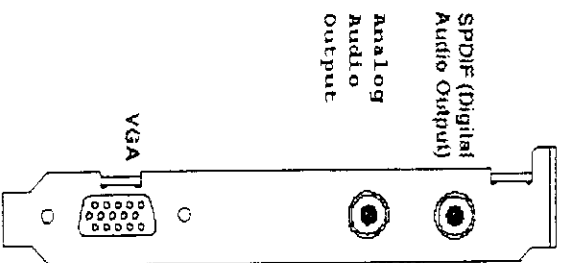
Section 6. Using Mpack Mediaware 15



Section 6. Using Mpack Mediaware 15

5-3. External Connectors

The Media II card has external connectors for audio output. They can be connected to a stereo, or other compatible device that accepts audio input.



Connector	Description
SPDIF (Digital Audio Output)	This RCA connector supplies SPDIF digital Audio to an external audio output device. (SPDIF stands for Sony-Phillips Digital interface.)
Analog Audio Output	The analog audio output is for speak / line out.
VGA	This standard connector sends display information to a VGA monitor.

6. Close the case on your computer and plug in the power cord.
7. Connect external audio and video cables. For more information, see the **External Connectors** section.
8. Turn on the computer. After your computer restarts, a **New Hardware Found** dialog box appears as Windows 95 prepares to configure the hardware. Click **Cancel** to skip the Windows 95 hardware wizard. Configuration of the new hardware is done after Mpact 2 3DVD version 1.0 mediaware is installed.
9. Install mediaware. See **Installing Mpact Mediaware** for instruction. The Media II card cannot work properly until you have also installed the Mpact 2 3DVD version 1.0 mediaware.

For instructions on installing your DVD-ROM, see the documentation provided with your DVD drive.

Section 5

Installing the Media II Multimedia Card

5-1. Installation Procedure

To install the Media II multimedia card, perform the following procedure:

1. Turn off your computer, and unplug the power cord from the wall outlet.
2. Open the case to gain access to the add-in cards.
3. Remove any graphics cards that could interfere with operation of the Media II card. The Media II card cannot function properly if there are other graphics cards in the system.
4. Install the Media II PCI card into a PCI slot or install the Media II AGP card into the AGP slot.

To determine how much free space is available on the C drive:

1. From the Windows 95 desktop, double-click **My Computer**.
2. Select the C drive.
3. Choose **File menu> Properties> General tab**.

- At least 16 MB of system memory.

To determine how much RAM your computer has:

1. From the Windows 95 task bar, choose **Start> Settings> Control Panel**.
2. Double-click the **System** icon.
3. Select the **General** tab. The amount of RAM is listed under "Computer".

Section 3

Prerequisites for Installation

Before installing Mediaware for 3DVD and the Media II PCI / AGP hardware, be sure you have the following:

- Media II PCI multimedia card or Media II AGP multimedia card.

NOTE: The 3DVD card is shipped in a special anti-static bag to protect it from static discharge. Do not open the bag or handle the board unless you are properly grounded and working on a grounded work surface.

- Media II CD-ROM.
- Pentium class computer (166 MHz or faster).
- Microsoft Windows 95 OSR2 installed.

To determine which version of Windows 95 you are running:

1. From the Windows 95 task bar, choose **Start> Settings> Control Panel**.
2. Double-click the **System** icon.
3. Select the **General** tab. Under "System" you should see "Microsoft Windows 95 version 4.00.950 B". If the version number is different, you may not be able to run Mpack II 3DVD.

Section 2

Features

1. **2D Graphics:** Full VGA and SVGA support, acceleration of video playback, and GUI through GPI and DirectDraw.
2. **3D graphics:** 3D hardware acceleration and Direct3D support.
3. **Video:** DVD video, MPEG-1 and MPEG-2 decode, MPEG-1 encode.
4. **Audio I/O:** Industry-standard sound card compatibility, 3D audio (SRS) and 3D positional effects (Direct Sound), Dolby AC-3 and MPEG-1 decode, and wavetable and waveguide synthesis.
5. **Memories are large, fast, and low-cost:**
Rambus technology now provides high-bandwidth, dynamic, low-cost memories to support graphics and video buffer needs.

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