



TrinosaurTM

User's Manual
Application manual

Preliminary

MpactTM Media processor-equipped Hyper Graphic card

Federal Communications Commission (FCC) Statement

RADIO FREQUENCY INTERFERENCE STATEMENT

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 against harmful interference in a residential installation. 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 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.

Any special accessories needed for compliance must be specified in the instruction manual.

Warning: A shielded-type power cord is required in order to meet FCC emission limits and also to prevent interference to the nearby radio and television reception. It is essential that only the supplied power cord be used.

Use only shielded cables to connect I/O devices to this equipment.

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

Chapter 1

Users' Manual

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1. Before you start

Special thanks for purchasing our company product.

"Trinosa" is the motherboard manufactured on the ultra modern technology of MpactTM developed by Chromatic Research Inc.

This section instructs prerequisites before using the product.

Exempted items

Corporation assumes no responsibility for the following:

- Loss caused by earthquake, fire, acts by third parties, or other accidents, or by intentional misuses negligence, abuse, or use under abnormal conditions by customers.
- Incidental loss caused by the use or lack of availability of this product (loss of business profit, interruption of business, change in or disappearance of record contents, etc.)
- Loss caused by use other than that described in the users manual.
- Loss caused by malfunctions due to use in combination with other equipment.

Caution

- When connecting this product to the system, be sure to turn the power to system off and confirm that the power plug is not inserted into the plug socket before performing any work. (Otherwise, system failure, breakage, or electric shock may occur.)
- In the event of an abnormal odor, overheating, or smoking, immediately turn the power off and remove the power plug from the plug socket. When operation is continued, fire or failure may occur. When such symptoms are detected, have the product checked by the distributor from whom the product was purchased.
- Do not allow any metal object, such as a paper clip, or any liquid, such as coffee, to any object or liquid enters the product, turn the power off, remove the plug, and have the product checked by the distributor.
- Do not use the product in an area subject to excessive moisture or humidity, as a risk of fire or electric shock may result.
- When using speakers or headphones, avoid playing at a loud volume, as hearing damage may result.

System Requirement

The followings are the required system configuration for "Trinosaure".

| | PCI Bus version | AGP Version |
|--------------|--|--|
| Mother Board | IBM PC/AT compatible computer with one or more PCI bus slots (version 2.1 or higher) | IBM PC/AT compatible computer with AGP |
| CPU | Intel MMX Technology Pentium 166MHz or higher | |
| RAM | | 32MB |
| OS | Windows95 OSR2 English version (Mandatory) | |
| Slot | One PCI Bus | AGP |
| CD-ROM Drive | | DVD-ROM Drive |
| Disk space | 70MB or more (Including the space for application) | |

This graphic display supports the following resolutions and color in Windows95.

● 8MB RAMBUS DRAM version

| | 640×480 | 800×600 | 1024×768 | 1280×1024 | 1600×1200 |
|-------------------|---------|---------|----------|-----------|-----------|
| 256 color | ○ | ○ | ○ | ○ | ○ |
| High Color(16bit) | ○ | ○ | ○ | ○ | ○ |
| True Color(24bit) | ○ | ○ | ○ | ○ | × |

● 4MB RAMBUS DRAM version

| | 640×480 | 800×600 | 1024×768 | 1280×1024 | 1600×1200 |
|-------------------|---------|---------|----------|-----------|-----------|
| 256 color | ○ | ○ | ○ | ○ | ○ |
| High Color(16bit) | ○ | ○ | ○ | ○ | × |
| True Color(24bit) | ○ | ○ | ○ | × | × |

○: Support

×: Not support

2. Introducing MpactTM Technology

About the MpactTM 2 Media processor

2.1 Special MpactTM Features

The Mpact technology that supports the functionality of the "Trinosaure" offers a variety of advanced special features, including:

- High-speed data processing at more than 6.000 MOPS (million operations per second).
- High performance 230MHz. RAMDAC on Chip
- A multimedia data processing architecture based on VLIW (very long instruction word) and SIMD (single instruction multiple data) functions.
- Dual channel RAMBUS interface capable of handling up to 600MB of data per second.
- Supporting both AGP and PCI (PCI2.1) interface.

3. Comprehensive control of multimedia functions

This section explains Multimedia functions realized by MpactTM technology. "Trinosaure" enables the following functions by the installation of "MpactTM Mediaware 3DVD."

- Graphics Acceleration
- Video Support
- Audio Support

3.1 Graphics Acceleration

2D Graphics

"Trinosaure" supports all standard VGA acceleration functions of MS-DOS and Windows 95.

- DirectDraw
- VESA Standard compliance
- DDC1, DDC2

3D Graphics

"Trinosaure" complies with the Windows 95 and Direct3D standards. For 3D graphics acceleration, priority can be assigned to either graphics quality or speed. (The default is for automatic selection.)

3.2 Video Support

- High quality MPEG1 and MPEG2 playback
- DVD Video playback
- Video CD playback
- Full screen video or Windows Displaying on TV screen
- Video output through NTSC
(Supported by future Mpact Mediaware 3DVD upgrade)

3.3 Audio Support

- MPEG-1 Audio decode
- Dolby Digital (AC-3) decode
- Dolby Digital output through S/PDIF
- SRS TruSurround output (Needs optional sound board)

4. "Trinosa" Installation

This section instructs the installation procedure of "Trinosa".

Make sure to turn off and unplug your system, always before the operation.

Installation procedure without system turning off may cause malfunctions of the system, breakage of the board and getting electric shock.

Make sure the system turned off before the installation.

4. 1 Using other add-in cards

"Trinosa" holds the function to control multimedia functionality by itself, so it can not be used together with the following add-in cards.

Before installing "Trinosa" remove the board mentioned below.

- Graphics board
- DVD Decoder board

4. 2 Motherboard Setting

If there is the graphics function on the motherboard, disable that function by jumpers.

4. 3 Precaution before the installation to your system.

Install the product by the following procedure.

1. Un-install the driver software of the board.

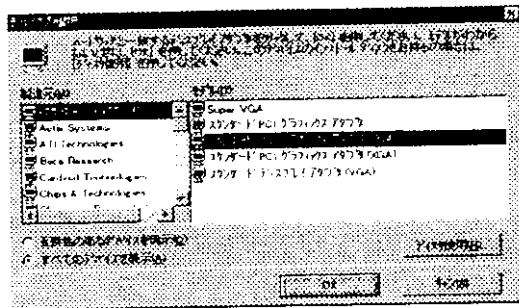
If Device driver or Utility are installed for the graphics board which is previously used, un-install them.

Refer to the users manual of the graphics board for un-installation procedure.

2. Change Display driver to "VGA".

- (1) Click, "Start" → "Settings" → "Control Panel."
- (2) Double-click "Display" in "Control Panel"
- (3) "Display Properties" appears.
 Click "Settings" → "Advanced Properties"
- (4) "Advanced Display Properties" appears.
 Click "Change".
- (5) "Select Devices" appears.
 Click "Show all devices"
- (6) Set as below, and click "OK".

| Configuration | Contents |
|---------------|--------------------------------|
| Manufacture | (Plug and Play Monitor) |
| Display Type | Standard Display Adapter (VGA) |

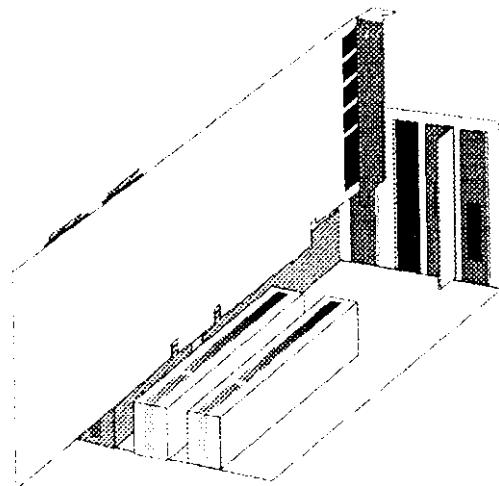


- (7) Restart the system to enable the settings.

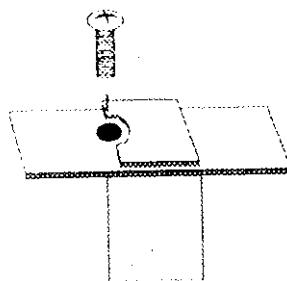
Display Driver is changed "VGA" with these procedure.

3. Installing "Trinosaure"

Insert the product to the PCI or AGP slot on the motherboard as shown. Plug the board firmly, screw and fix it to the I/O slot.



Plug "Trinosaure" board to
PCI slot (PCI version) or AGP slot (AGP version)



Screw and fix to I/O slot.

4. Installing "MpactTM Mediaware 3DVD"

Install "MpactTM Mediaware 3DVD".

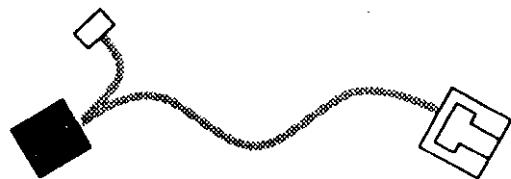
Please refer to the section of "MpactTM Mediaware 3DVD Installation" for installation procedure.

5. "Trinosa" Set up

This section instructs how to set each Interface (cables) of "Trinosa".

Cable

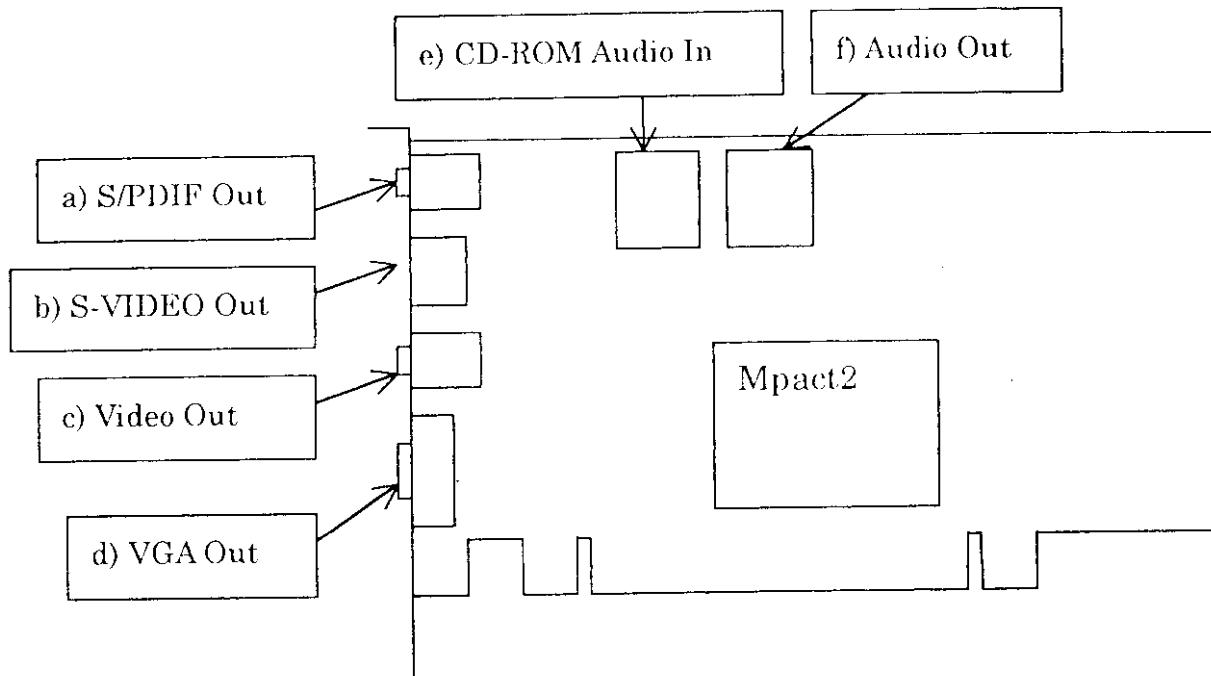
- Exclusive CD Audio cable



Exclusive CD Audio cable

5.1 Interface Connection

"Trinosa" has the following interface as is the illustration below.



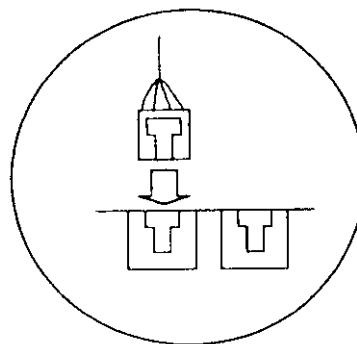
| | |
|---|--|
| a | S/PDIF "Dolby Digital (AC-3)" output It is connected to Dolby Digital Amplifier for DVD playback. |
| b | S-VIDEO Output |
| c | NTSC Video output |
| d | VGA Output |
| e | To connect Audio Output of CD-ROM Drive. Use the attached Audio cable of Trinosa or that of CD-ROM Drive. |
| f | Audio Output Use the attached Audio cable to connect the CD-ROM Input jack of other sound card. |

CD Audio Input Jack (CD-IN)

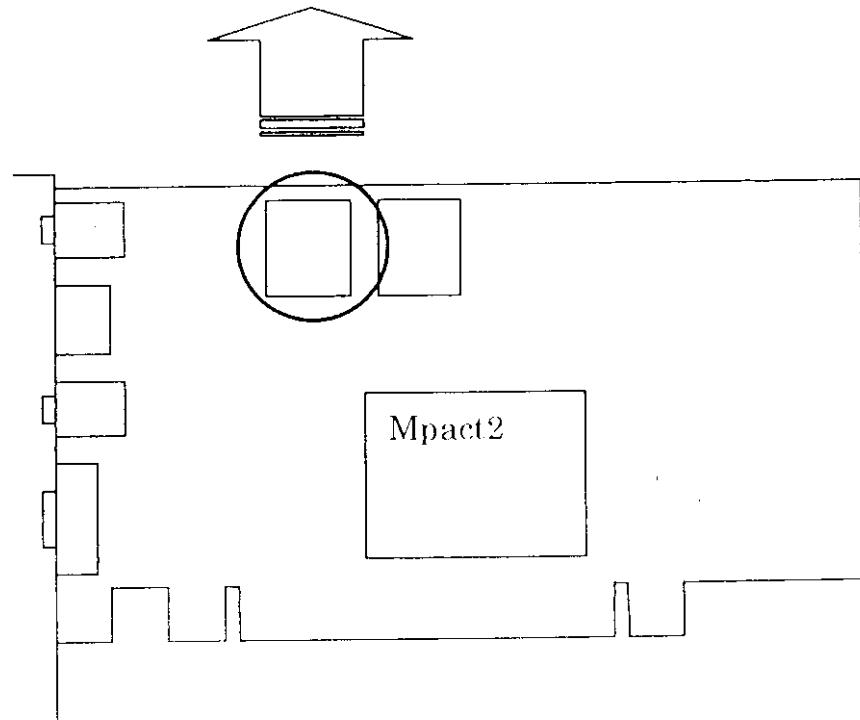
Use the bundled exclusive CD audio cable.

Connect to Audio Output jack of the CD-ROM drive and CD-Audio Input jack of "Trinosaure"

The bundled exclusive cable holds two kinds of connectors for the CD-ROM drive.
Select either connector corresponding to the CD-ROM Output jack.



Match the direction of latch of Audio cable to that of socket on board.



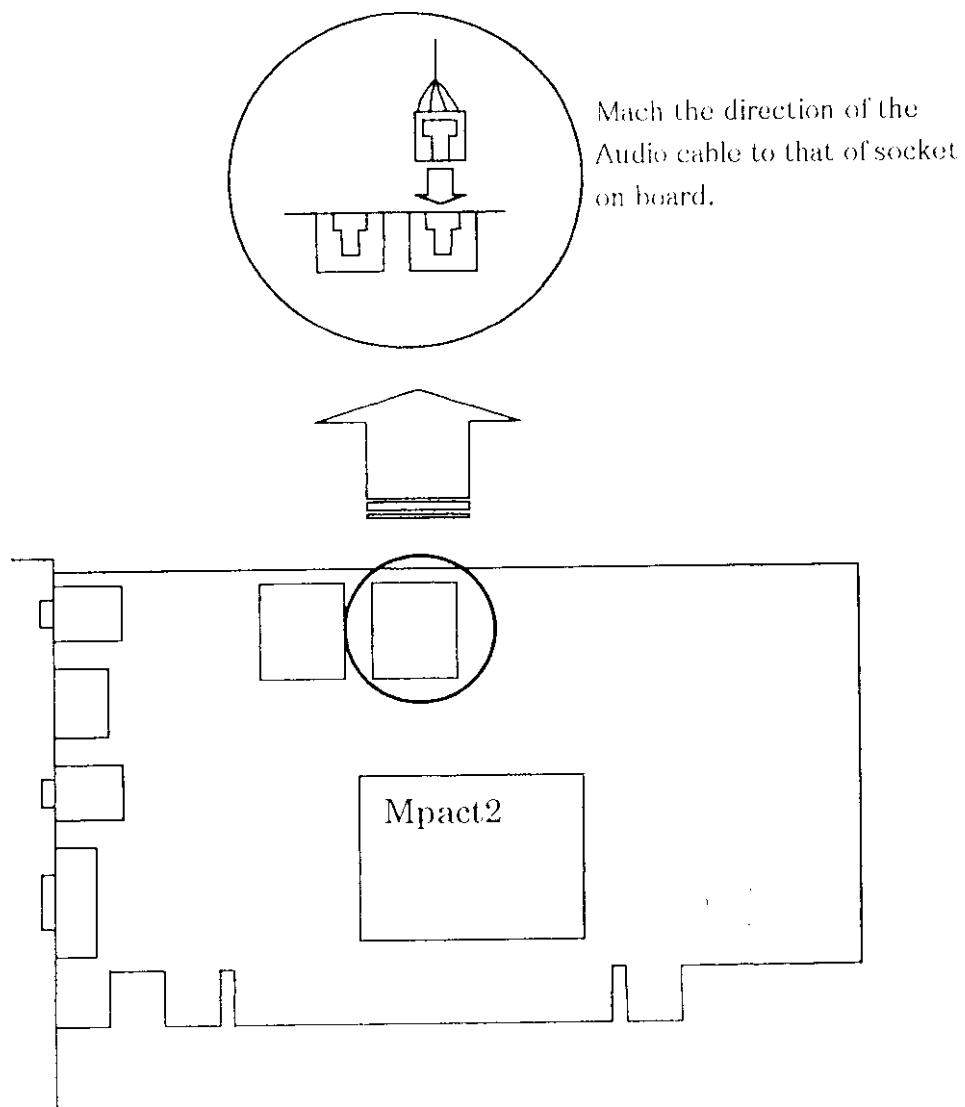
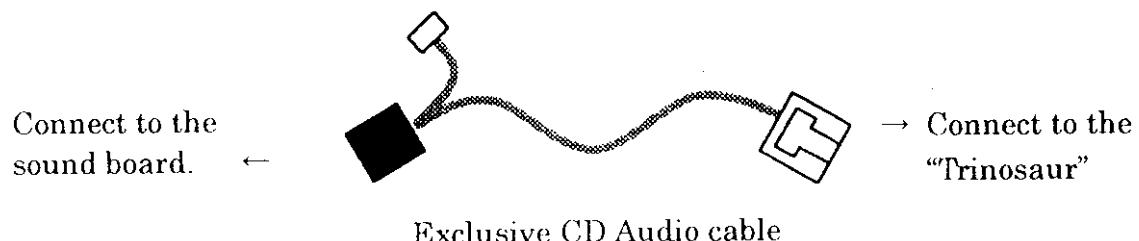
CD Audio out (Audio-OUT)

Use the bundled exclusive CD audio cable.

Connect to Input jack of the sound card and Output jack of "Trinosaure"

The bundled exclusive cable holds two kinds of connectors for the sound card.

Select either connector corresponding to the sound board to use.



6. “Mpact™ Mediaware 3DVD” Installation

If “Mpact™ Mediaware 3DVD” is already installed in your system, the following procedure is not necessary.

It is necessary to install “Mpact™ Mediaware 3DVD” to enable the functionality of “Trinosaure”.

This section instructs the installation procedure of “Mpact™ Mediaware 3DVD.” The following is the installation procedure.

Following example of the installation is assumed that CD-ROM drive is set to “Drive D:”

6.1 Checking the version of Windows 95

Windows 95 OSR2 must be installed before “Mpact™ Mediaware 3DVD” installation.

If Windows 95 OSR2 is not installed yet, install it first referring to the Windows 95 users manual.

Make sure the version of Windows 95 by the following procedure.

- (1) Click, “Start” → “Settings” → “Control Panel”
- (2) Double click the System icon in the Control Panel.
- (3) “System Property” appears.
Click “Information”
- (4) Make sure the figures as “System: Microsoft Windows 95 1.00.950B.”
If the figures of the version are different, “Trinosaure” will not work properly.

6.2 Setting of DMA for DVD-ROM drive

Enable DMA transfer by installing Bus Master driver for the chipset of your mother board by the following procedure.

Refer to PC or Motherboard manufacturers how to obtain Bus Master driver for the chipset of your mother board and installation procedure.

- (1) Click, "Start" → "Settings" → "Control Panel."
- (2) "System Property" appears.
- (3) Click "Device Manager."
- (4) Double-click "CD-ROM."
- (5) Click your "DVD-ROM device."
- (6) Click "Properties."
- (7) "DVD-ROM Properties" appears.
- (8) Click "Settings."
- (9) Select "DMA."
- (10) Select "OK."
- (11) Click "OK" and finish "DVD-ROM Properties."
- (12) "System settings changed" appears.
- (13) Click "Yes" and restart the system.

6.3 Installing "Mpact™ Mediaware 3DVD"

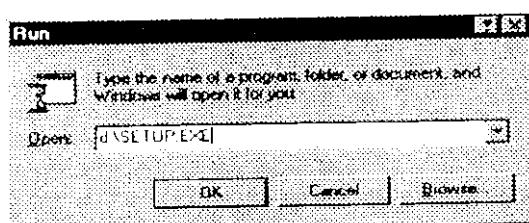
The following is the installation procedure.

- (1) Insert CD-ROM of Mpact™ Mediaware 3DVD to the Drive D.

The installer starts automatically by the auto-play function of Windows 95.

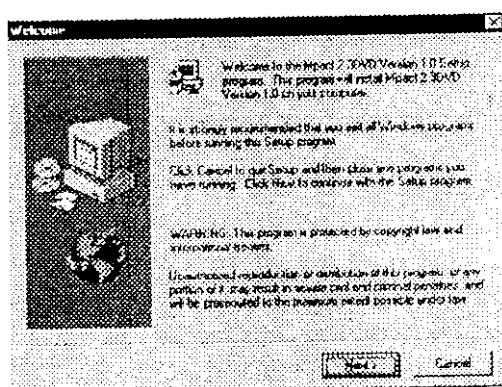
If the auto-play function is not available, click "Start" - "Run."

Type D:\SETUP.EXE and click "OK."



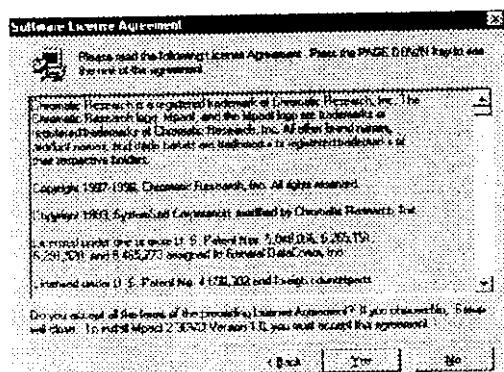
- (2) "Welcome" appears

Click "Next."



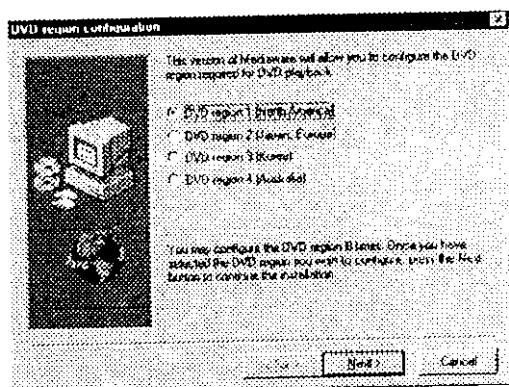
- (3) "Software License Agreement" appears.

Read "Software License Agreement." (Using "Page Up" "Page Down" key) If you agree, and click "Yes".



(4) "DVD region configuration" appears.

Select appropriate DVD region and click "Next."

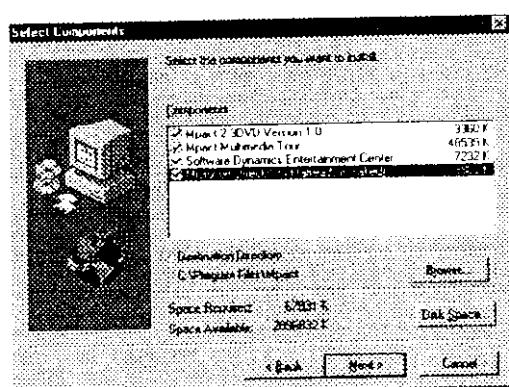


(5) "Select components" appears.

Usually you don't have to change the component.

Continue to install as default.

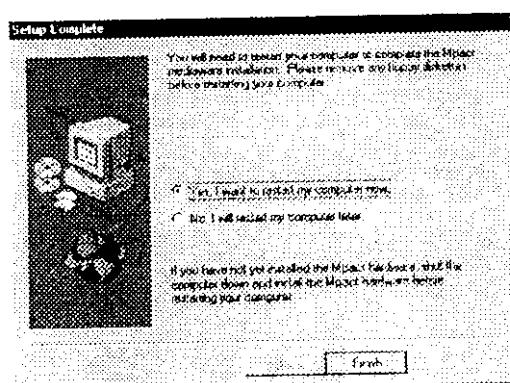
Click "Next", and the copy of the file starts.



(6) "Setup Complete" appears.

Recognizing "I want to restart my computer now", and click "End"

Restart the computer to enable the system settings.

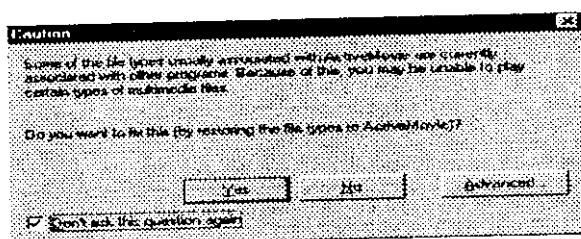


(7) After restarting, "System Settings Change" appears.

Click "Yes" to restart.

(8) After restarting the system, sometimes appears the following caution concerning ActiveMovie.

Select "Don't ask this question again", click "No."



With these procedure the installation of Mpact™ Mediaware 3DVD is completed.

7. "MpactTM Mediaware 3DVD" Un-installation

In the following cases, it is necessary to un-install MpactTM Mediaware 3DVD.

- When to exchange "Trinosaure" to another graphics board.
- When to upgrade the version of "MpactTM Mediaware 3DVD."
- When to unable start up Windows95 by the Normal mode.

This section instructs the un-installation procedure of "MpactTM Mediaware 3DVD."

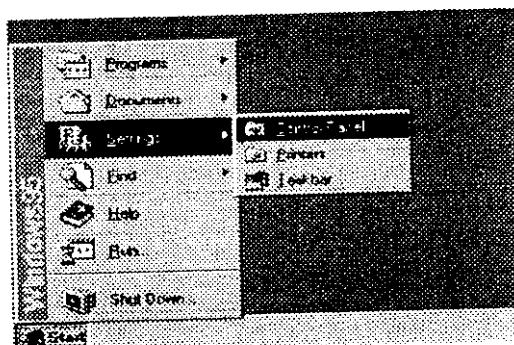
Un-install as follows.

(1) Start up Windows 95 by the Safe mode.

To start up by the Safe mode, hit "F8" key while the message "Starting Windows 95..." appears.

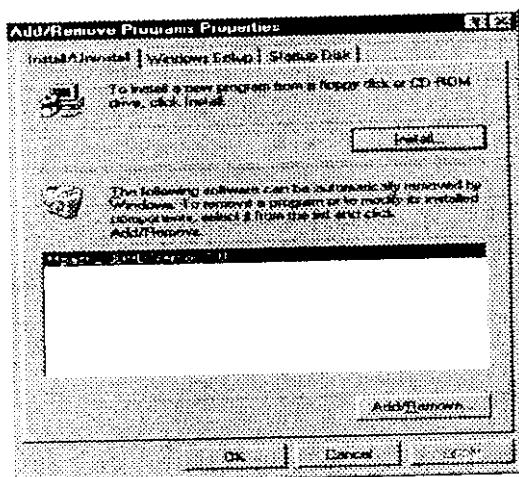
The monitor to select keyboard appears, then select your keyboard.

(2) Click, "Start" → "Settings" → "Control Panel"



(3) Double click "Add/Remove programs" in the Control Panel.

(4) Move the cursor to "MpactTM 2 3DVD....", and click "Add/Remove...".



(5) "Confirm File Deletion" appears. Click "Yes".
Un-installation of "MpactTM Mediaware 3DVD" starts.

(6) "Remove Programs From Your Computers" appears.
After completing all the procedures and click "OK".

(7) Restart Windows 95.

With these procedure the un-installation of MpactTM Mediaware 3DVD is completed.

8. "MpactTM Mediaware 3DVD" Setup

This section explains the following settings of MpactTM Mediaware 3DVD.

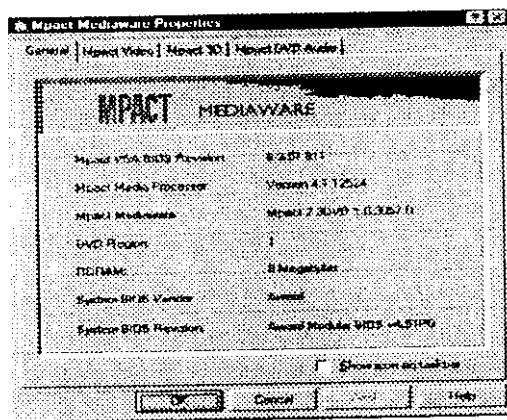
- General
- MpactTM Video
- MpactTM 3D
- MpactTM DVD Audio

Each setting is performed on "MpactTM Mediaware Properties" of MpactTM Mediaware 3DVD.

Start up "MpactTM Mediaware Properties" as follows.

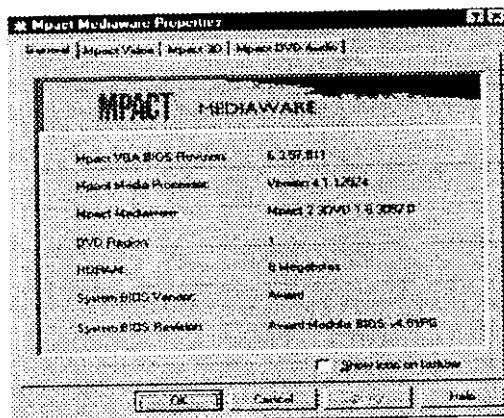
- (1) Click "Start" → "Settings" → "Control Panel"
- (2) Double-click "MpactTM Mediaware" in the control panel.

With these procedure MpactTM Mediaware Properties starts up.



8.1 General

Click "General" of "Mpact™ Mediaware Properties".

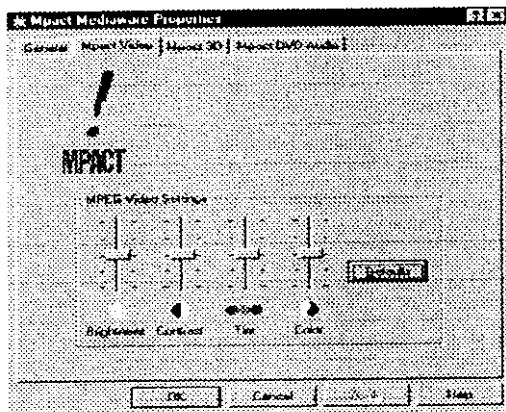


"General" Setup

| Settings | Contents |
|-------------------------|--|
| Mpact VGA BIOS Revision | Revision number of VGA BIOS Use to confirm the BIOS version. |
| Mpact Media Processor | Version of Mpact Mediaprocessor |
| Mpact Mediaware | 3DVD version of Mpact Mediaware |
| DVD Region | DVD region is the region number showing which DVD video can be played back. When to play back DVD video, DVD video disc must support the region number of that DVD video. For the details please refer to the section of "Troubleshooting" |

8.2 M pact Video

Click "M pact video" in "M pact™ Mediaware Properties"



MPEG Video Setup

| Settings | Settings of TV Desktop. |
|----------|--|
| | Available to set the brightness of display. (Up)brighter → darker(Down) |
| | Available to set the contrast of display. |
| | Available to set the tint of display. |
| | Available to set chroma of display. (Up)colorful → monochromatic(Down) |

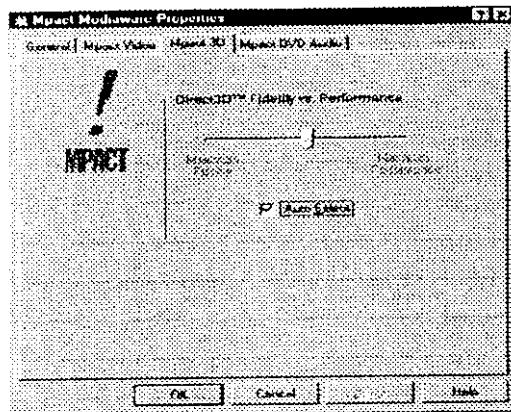
Move the knob and click "Apply", the settings are renewed.

If click "Default", the setting tuned back to original.

The renewed settings are available after the restart of Entertainment Center.

8.3 Mpact 3D

Click "Mpact 3D" in "Mpact™ Mediaware Properties"

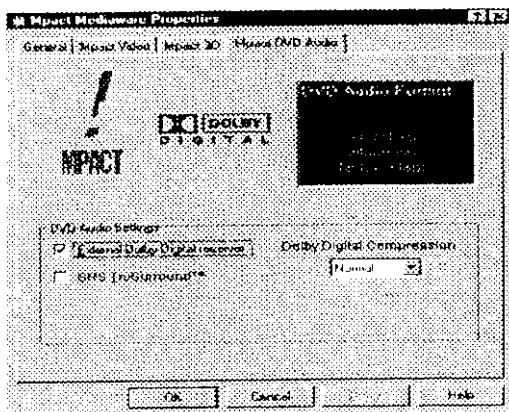


"Mpact 3D" Setting

| Settings | Contents |
|--------------------------------------|--|
| Direct 3D™ Fidelity v.s. Performance | Available to select the setting for "Maximum Fidelity" or "Maximum Performance" of Direct 3D manually. Remove the marking of "Auto Select". Moving the knob and click "Apply", the setting is renewed. Normally use in the condition of "Auto Select". |

8.4 Mpact DVD Audio

Click "Mpact DVD Audio" in "Mpact™ Mediaware Properties"



"DVD Audio format" appears.

Select the setting of Audio-encoding against playing back DVD audio source.

"Mpact Audio" Setting

| Items | Contents | | | | | | | |
|--------------------------------------|---|------|-----------------------------|--------|--------------------|------|----------------------------|--|
| "External Dolby Digital receiver(E)" | To playback Dolby Digital DVD, (1) Marking: S/P DIF for encoded Dolby Digital signal output. Not marking: S/P DIF for PCM signal output. | | | | | | | |
| SRS TruSurround (TM) | (1) Marking: 5.1 channel available with 2speakers System. (2) Not marking: Not available of mentioned above. | | | | | | | |
| Dolby Digital Compression | <table border="1"> <tr> <td>None</td> <td>Output through HiFi system.</td> </tr> <tr> <td>Normal</td> <td>Output through PC.</td> </tr> <tr> <td>Full</td> <td>Output in the noisy place.</td> </tr> </table> | None | Output through HiFi system. | Normal | Output through PC. | Full | Output in the noisy place. | |
| None | Output through HiFi system. | | | | | | | |
| Normal | Output through PC. | | | | | | | |
| Full | Output in the noisy place. | | | | | | | |

9. Trouble Shooting

9.1 Hardware

Q1. Slowly moving of pictures.

A1. Make sure that "Mpact™ Mediaware 3DVD" is properly installed. Before the installation of "Mpact™ Mediaware 3DVD", this product emulates "VGA" function. The installation of "Mpact™ Mediaware 3DVD" is needed to enable the performance of "Mpact™ Mediaware 3DVD".

Q2. Taking time when to reset until the display appears.

A2. Wait for about 1 minute since it takes time to format the motherboard.

Q3. Sometimes not able to start up "Trinosa" or, not able to install "Mpact™ Mediaware 3DVD" after the installation of "Trinosa".

A3. Check the BIOS setting of your motherboard. If the setting is "Not allocating IRQ for VGA", change the setting for "IRQ allocation for VGA".

Q4. Nothing is displayed on the monitor.

A4. Check the followings:

- Make sure that the monitor is switched on.
- Make sure that the monitor connected to your system properly. Even if the motherboard holds VGA output plug, do not connect to the VGA output of the motherboard. Make sure to connect the monitor to the VGA output of "Trinosa."
- Wait for about one minute, depending on the systems it takes time until the display appears.

Q5. Sounds do not come out at all.

A5. Check the followings:

- Make sure that both "Trinosa" and sound card are properly installed.
- Make sure that the speakers are connected properly.
- Make sure that the speakers are switched on and its volume level is not zero.
- Make sure the sound mixer is set properly.
Is the volume level Zero or is Mute ON?
Please refer to the Help of Windows 95 for setting.

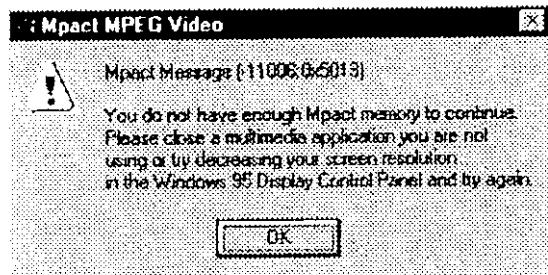
Q6. Sounds of audio CD do not come out.

A6. Please check the followings:

- Make sure that the speakers is properly connected.
- Make sure that "Trinosa" and "CD-ROM" connected properly by Audio cables.
- Make sure that "Trinosa" and the sound card connected properly.
Refer the connection to the guide of Interface connection.
- Check the same as Q5 section.

9.2 Software

Q1. The bundled applications does not run and the following message appears.



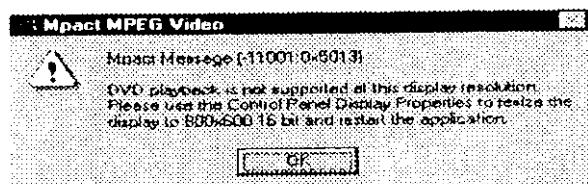
A1. Decrease the resolutions and number of colors and restart again. For the Video output processing, sometimes this error occurs. Decreasing the resolutions and number of colors avoids this error.

Q2. Inserting DVD video disc, it is always rejected from the tray and can not be played back.

A2. Check "Region number" of that DVD video disc.

If Region number is different between your DVD video disc and the that of on Mpact MediawareProperties, DVD video discs are automatically rejected. Consult 8.1 "General" of Mpact Mediaware Properties for how to check the Region number of Mpact Mediaware.

Q3. Unable to playback DVD video discs as the following message appears.



A3. Decreasing the resolution and number of colors, and restart again.

Play back according to the resolution and number of colors as follows.

| | 640×480 | 800×600 | 1024×768 | 1280×1024 | 1600×1200 |
|-------------------|---------|---------|----------|-----------|-----------|
| 256 colors | △ | △ | △ | △ | × |
| High Color(16bit) | ○ | ○ | ○ | × | × |
| True Color(24bit) | × | ○ | × | × | — |

○ :Able to playback

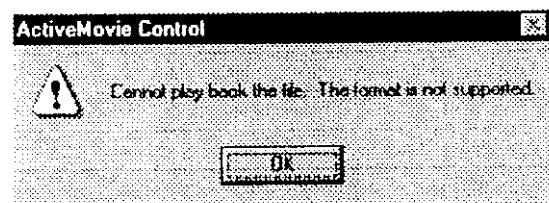
△ :Able to playback but sometimes the number of colors decreased and the quality of the pictures declines.

× :Not able to playback DVD with this resolution.

— :Not supported this resolution by the shortage of VGA memory.

※ With 4MB RAMBUS DRAM, 1280×1024×24 bit and 1600×1200×16 bit are not supported.

Q.4 Unable to playback "morph2.mpg" (MPEG2 File), as the following message appears.



A4. It is not able to playback MPEG2 by ActiveMovie.

Use "Media Player" to play back MPEG2 File.

Chapter 2

Application Manual

| | |
|---------------------------|------|
| 1. Bundled Applications | P.33 |
| 2. Mpact™ Multimedia Tour | P.34 |
| 3. Entertainment Center | P.36 |

1. Bundled Applications

This section of manual explains about bundled applications of Mpact™ Mediaware 3DVD.

The following applications are bundled in Mpact™ Mediaware 3DVD.

| Attached applications | Contents |
|-----------------------|---|
| Mpact Multimedia Tour | This application demonstrate the functions of this product and Mpact technology. |
| Entertainment Center | Enable the play back of DVD video and Video CD. Various functions of DVD video are available by using this application. |

2. M pact™ Multimedia Tour



The following functions are supported by M pact™ Multimedia Tour.

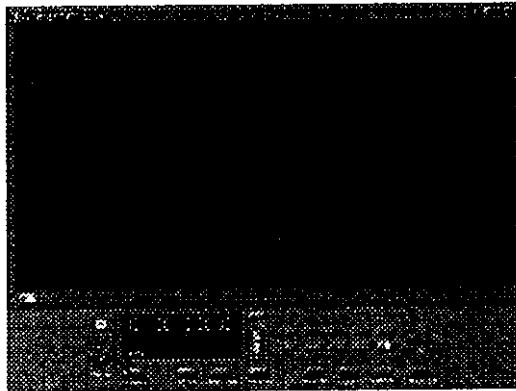
The functionality instruction and demonstrations of M pact™ technology

| Items | Contents |
|-------------|--|
| 2D Graphics | To select the resolution and colors |
| 3D Graphics | To demonstrate 3D Graphics |
| Video | To demonstrate MPEG-1 &2 and DV1 video |
| For help | To consult README.TXT etc. |

2.1 M pact™ Multimedia Tour Start Up

Click "Start" → "Program(P)" → "Chromatic Research M pact" → "M pact Multimedia Tour"

3. Entertainment Center



Entertainment Center supports the following functions.

- DVD video playback
- Video CD(Ver 1.1) playback
- Audio CD playback
- MPEG-1 and MPEG-2 playback

Please refer the online Help file for set up.

Press "F1" key to display the Help file. The Help file can not be displayed when the Entertainment Center is full screen playback mode.

Various functions of DVD video

DVD video playback of this application supports the following functions.

*The functions mentioned below must be supported by DVD video disc.
Make sure to refer the instruction of DVD video disc.*

| Functions | Contents |
|----------------|--|
| Multi-Angle | To select the favorite angle from several multi-photographed motion picture. |
| Multi-Subtitle | To record maximum 32 languages and select languages of subtitle. |
| Multi-Language | To select language and Recording system (Dolby-Digital or PCM). |

3.1 Entertainment Center Start Up

Click "Start" → "Programs" → "Chromatic Research Mpact" → "Entertainment Center"

3.2 How to use Entertainment Center

Control Panel



DVD video functions can be controlled on the control panel. The control panel is not displayed when to start up. Please operate as follows to display the control panel.

In case of Window playback,

Click the button() under the left of Entertainment Center.

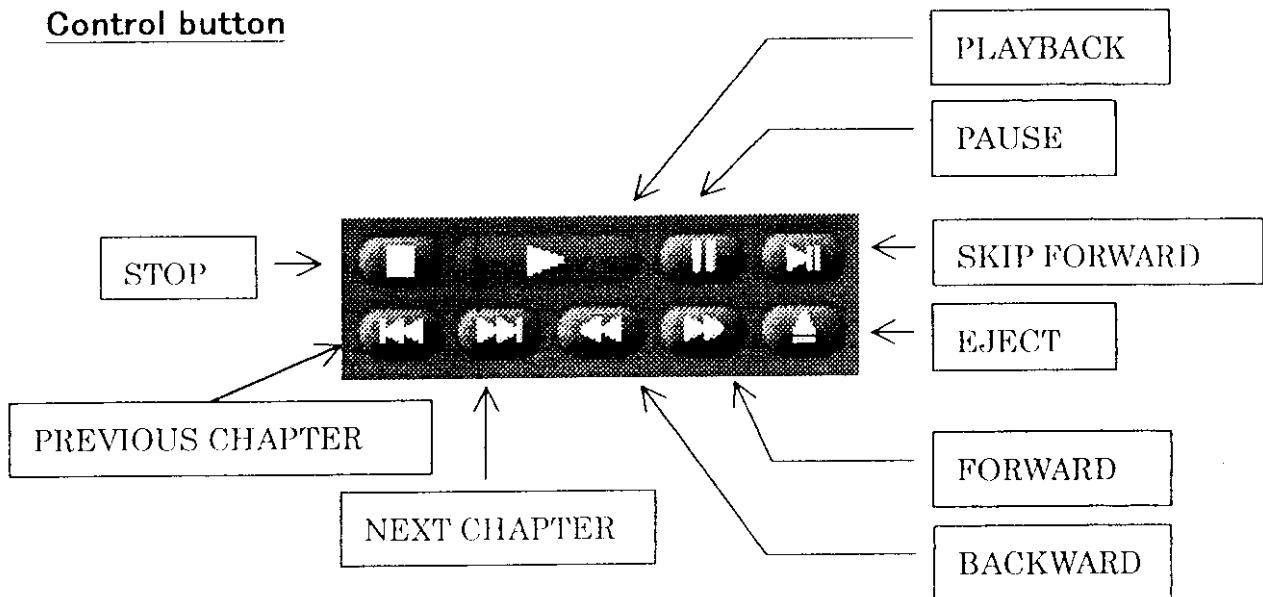
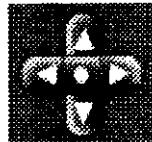
- Move the mouse cursor to the underneath of the display to play back Full screen.

"Windows play back" and "Full screen playback" both are available.

Play back mode

To select the playback media by the button of the left side control panel

| Button | Contents of playback mode |
|---|--|
|  | CD/DVD button Press this button for DVD playback and Video CD playback. |
|  | Media button Press this button for MPEG-1 and MPEG-2 playback. |

Control buttonCross button

This button is used to control the menu screen of DVD navigation function. Controlling 4 dimensions cursor and press "next" button () to select.

Power button ()

To finish Entertainment Center

Menu button ()

To display each menu, and refer online HELP for the details of each menu.

Resume button ()

To replay from the previous playback point.

Resize button ()

To set the screen size either Window playback or Full screen playback.

Search button ()

To restart from the designated point on DVD video disc.

Multi Angle button ()

To select the favorite camera angle.

When the multi angle function is available in your DVD video disc, "Angle" is displayed on the control panel.

**Multi Subtitle button ()**

To select the subtitle from several languages.

Multi Language button ()

To select the language from several languages.

Mute button ()

To mute the sound.

Volume button ()

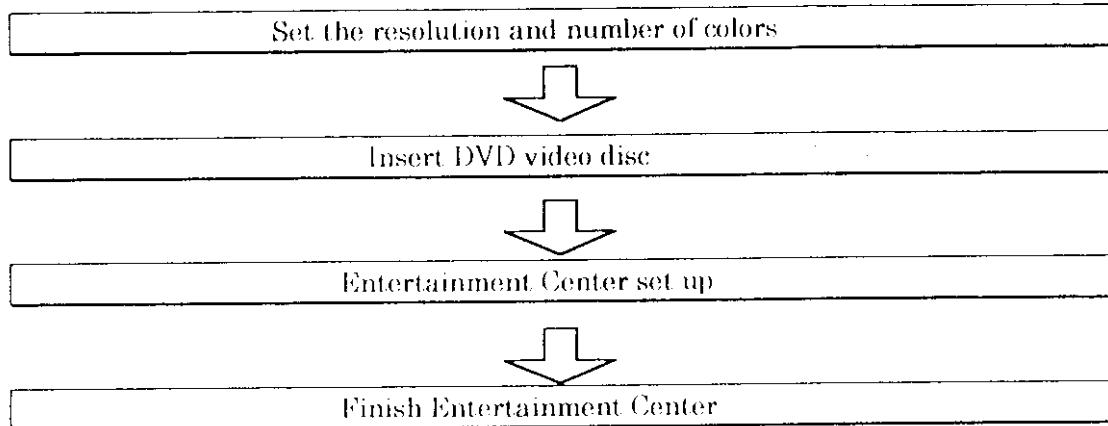
When to play back Audio, click ▼ or ▲ to adjust the volume.

※ To adjust the sound output by Sound card.

3.3 DVD video playback by Entertainment Center

The following instruction is the operation to play back DVD video on the Windows 95 desktop.

Please operate as follows.

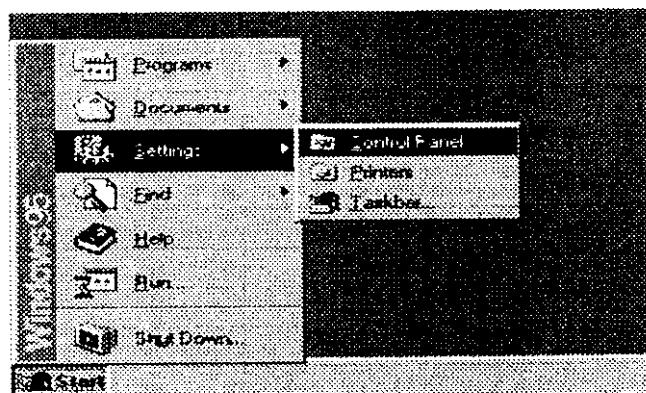


Set resolution and number of colors

To play back DVD video, it is necessary to set the resolution and number of colors. For checking the proper resolution and number of colors, refer to the pages of "Notice of Entertainment Center".

The following is the setting of "800×600×High Color (16 bit)".

(1) Click "Start" → "Settings" → "Control Panel".



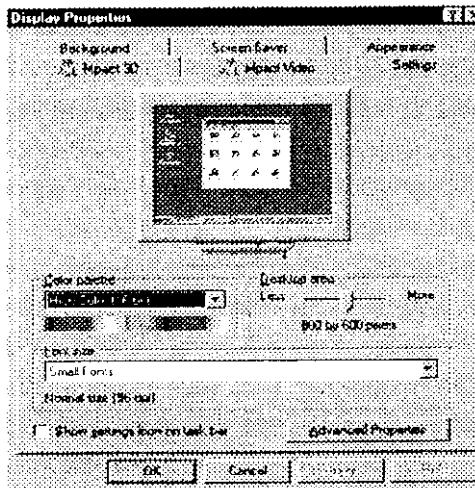
(2) "Control Panel" is displayed.
Double click on "Display."

(3) "Display Properties" appears.

Click "Settings."

(4) "Setting" sheet appears.

| Items | Settings |
|---------------|---------------------|
| Color palette | High Color (16 bit) |
| Desk top area | 800×600 pixels |



(5) Click "OK".

Restart the system to complete display setting.

Insert DVD video disc

Insert DVD video disc into DVD-ROM drive.

Start Entertainment Center

(1) Click "Start" → "Program" → "Chromatic Research Mpact" → "Entertainment Center"

(2) After start up Entertainment Center, DVD video automatically start playing back. If not, click the button down left of Entertainment Center (◀▶), then click playback button (▶).



Finish Entertainment Center

Click Power button () to finish Entertainment Center.

3.4 Notice of Entertainment Center

Supporting system by DVD video disc

Entertainment Center supports various kinds of DVD video functions. To use these functions, it must be supported by DVD video disc.

About supportive functions of the using DVD video disc, refer to the attached manuals to those.

Resolution and number of colors

The following list shows the resolution and number of colors supported by Entertainment Center for playing back DVD video.

For playing back DVD video, the resolution and number of colors of "800×600×16 bit" are recommended.

| | 640×480 | 800×600 | 1024×768 | 1280×1024 | 1600×1200 |
|-------------------|---------|---------|----------|-----------|-----------|
| 256 colors | • △ | △ | △ | △ | × |
| High Color(16bit) | ○ | ○ | ○ | × | × |
| True Color(24bit) | × | ○ | × | × | - |

○ : Available fully for playing back

△ : Available but sometimes number of colors decreases or quality of the picture declines.

× : Not available for playing back DVD with this resolution.

- : Not available because of the shortage of VGA memory with this resolution.

※ Under 4MB condition, 1280×1024×24 bit and 1600×1200×16 bit are not supported.

Explanation of setting for “TruSurround with SRS”

Using the function of “TruSurround with SRS”, to play back “3D” presence sound with two speakers is available. (It is not available with default.)

- (1) Click “Menu” on the Control Panel of Entertainment Center.
- (2) Click “Audio/Video settings” in the “Menu”.
- (3) “Audio/Video settings” is displayed.

Select “TruSurround with SRS” and click it.

