Hardware Setup Manual
EDIUS NX PCI-X / EDIUS NX PCI-e / EDIUS NX Express / HDSTORM
### Manual Explanation

- Information not described in this manual may be displayed in some cases. Make sure to read the text file attached to the disc.
- If there are any variations between the explanation in this manual and the actual application method, priority is given to the actual application method.
- The screens used as examples in this manual are those of the development stage, so they may vary from those in the final product.
- This manual is written for people who have a basic knowledge of how to use a computer. If there are no special instructions, perform the same operation as a normal computer operation.
- In this manual, EDIUS 5 and EDIUS series are called 'EDIUS'.
- In this manual, Microsoft® Windows® XP Professional operating system is called Windows XP Professional or Windows XP. Microsoft® Windows® XP Home Edition operating system is called Windows XP Home Edition or Windows XP.
- In this manual, Adobe Photoshop is called Photoshop, and Adobe After Effects is called After Effects.
- Information in this manual is subject to change without notice, due to the change in product specifications etc.
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Copyright Regulations

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Warranty

This product is covered by a limited warranty when you register your Thomson Grass Valley product. This warranty is for a period of one year (or two years in European Union countries) from the date of purchase from Thomson Grass Valley or an authorized Thomson Grass Valley agent. This warranty applies only to the original purchaser of the Thomson Grass Valley product and is not transferable, Thomson Grass Valley warrants that for this period the product will be in good working order. Should our product fail to be in good working order, Thomson Grass Valley will, at its option, repair or replace it at no additional charge, provided that the product has not been subjected to misuse, abuse or non-Thomson Grass Valley authorized alternations, modifications and/or repair. Proof of purchase is required to validate your warranty. Thomson Grass Valley is not responsible for any lost profits, lost savings or other incidental or consequential damages arising out of the use of, or inability to use, this product. This includes damage to property and, to the extent permitted by law, damages for personal injury. This warranty is in lieu of all other warranties of merchantability and fitness for a particular purpose.
DANGER

The following conditions indicate the potential for serious bodily injury or loss of life.

Health precautions

In rare cases, flashing lights or stimulation from the bright light of a computer display or TV monitor may trigger temporary epileptic seizures or loss of consciousness. It is believed that even individuals whom have never experienced such symptoms may be susceptible. If you or close relatives have experienced any of these symptoms, consult a doctor before using this product.

Do not use in environments requiring a high degree of reliability and safety

This product is not to be used in medical devices or life support systems. The characteristics of this product are not suited for use with such systems.

Protect against static electricity

An electrostatic discharge may damage components of this product. Do not directly touch any of the connectors or component surfaces. Static electricity can be generated on clothing and on people. Before handling the product, discharge static electricity from your body by touching a grounded metal surface.

Do not disassemble

Do not remove the cover or modify the Product. Fire, electric shock or malfunction may result. For internal inspection or repair, please contact your system integrator or Thomson Grass Valley directly.

CAUTION

The following conditions indicate the potential for bodily harm, damage to hardware or loss of data.

Do not setup in areas subject to heat

Do not setup in an area exposed to direct sunlight or near a heating apparatus. The heat can accumulate, causing burns, fire or damage. Also, the unit may become deformed or change color.

Only setup using the prescribed method

Do not setup in a manner other than prescribed. Do not use while wrapped in cloth or plastic. Heat can accumulate, causing burns, fire or damage.
**FCC Notice**

This equipment has been tested and found to comply with the limits for the class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against 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 and 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.

This equipment has been certified to comply with the limits for a class B computing device, pursuant to FCC Rules. In order to maintain compliance with FCC regulations, shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and TV reception. The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the user's authority to operate this equipment.

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.

**Declaration of Conformity**

According to FCC Part 15

Responsible party Name: Grass Valley, Inc
Address: 400 Providence Mine Road, Nevada City, CA 95959
Telephone: 530-478-3890
Operation environment

Notes • EDIUS operation is not necessarily guaranteed even in the environments satisfying all conditions below.

EDIUS NX PCI-X / PCI-e

► PC
CPU:
EDIUS NX PCI-X .......... Intel Pentium 4 2.8GHz or higher
    (Intel Xeon 2.8GHz Dual Processor (Hyper-threading) recommended)
EDIUS NX PCI-e .......... Intel Pentium 4 2.4GHz or higher
    (Intel Pentium D 3.0GHz or higher is recommended for HD resolution)
* Supports multi-processor and Hyper-threading technology.

► PCI bus
Empty bus slots satisfying the below performance are required:
Main board:
EDIUS NX PCI-X .......... Using 1 PCI (64bit / 66MHz PCI ver2.1)
* You can also use two 32bit / 33MHz PCI (PCI Spec. Revision 2.1) slots, if you are editing in SD resolutions only.
EDIUS NX PCI-e .......... Using 1 PCI Express x1 (PCI Express Spec. Revision 1.0a)
Expansion board:
HX-HD1 ......................... Using 1 PCI (32bit / 33MHz PCI ver2.1 or later)

► Memory
EDIUS NX PCI-X .......... 1GB or larger
EDIUS NX PCI-e .......... 512MB or larger
    (1GB or larger recommended for HD resolution editing.)

► Hard disk drive
800MB or larger space required for software installation.
Drive with ATA100 / 7200rpm or faster is necessary for video storage.
* Ultra 160 SCSI or faster is necessary to playback two or more streams in SD uncompressed.
* RAID0 is recommended for HD resolution editing.

► Graphics
Direct3D 9.0c or later, PixelShader 3.0 or later
SD 128 MB or larger required, 256 MB or larger recommended
HD 256 MB or larger required, 512 MB or larger recommended

► Sound system
Support for WDM driver is required.
Before Using

► DVD-ROM drive
Required for software installation.
DVD-R / RW or DVD+R/RW drive is required when creating DVD-Video with
Canopus DVD Creator.

► OS
Windows XP SP2 or later (32bit)
Windows Vista SP1 or later (32bit)*
Windows Vista SP1 or later (64bit)*
  * Windows Vista SP1 includes the following operation systems.
    Windows Vista Home Basic
    Windows Vista Home Premium
    Windows Vista Ultimate
    Windows Vista Business

EDIUS NX Express

► PC
CPU: Intel Pentium 4 2.4GHz or higher
  (Intel Pentium D 3.0GHz or higher is recommended for HD resolution)
  * Supports multi-processor and Hyper-threading technology.

► PCI bus
Empty bus slots satisfying the below performance are required:
Main board:
  Using 1 PCI Express x1 (PCI Express Spec. Revision 1.0a)
Hardware MPEG Engine board:
  Using 1 PCI Express x1 (PCI Express Spec. Revision 1.0a)

► Memory
512MB or larger (1GB or larger recommended for HD resolution editing.)

► Hard disk drive
800MB or larger space required for software installation.
Drive with ATA100 / 7200rpm or faster is necessary for video storage.
  * Ultra 160 SCSI or faster is necessary to playback two or more streams in SD
    uncompressed.
  * RAID0 is recommended for HD resolution editing.

► Graphics
Direct3D 9.0c or later, PixelShader 3.0 or later
SD 128 MB or larger required, 256 MB or larger recommended
HD 256 MB or larger required, 512 MB or larger recommended

► Sound system
Support for WDM driver is required.
► DVD-ROM drive
Required for software installation.
DVD-R / RW or DVD+R/RW drive is required when creating DVD-Video with Canopus DVD Creator.

► OS
Windows XP SP2 or later (32bit)
Windows Vista SP1 or later (32bit)*
Windows Vista SP1 or later (64bit)*
  * Windows Vista SP1 includes the following operation systems.
    Windows Vista Home Basic
    Windows Vista Home Premium
    Windows Vista Ultimate
    Windows Vista Business

HDSTORM

► PC
CPU: Intel Pentium 4 2.8GHz or higher
  (Xeon 2.8GHz Dual Processor (hyper-threading) recommended.)
* EDIUS complies with multi-processor and hyper threading technology.
* CPU supporting SSE2 instructions is necessary in operating EDIUS.

► PCI bus
The below PCI Express slot is required:
PCI Express x1 (PCI Express Spec. Revision 1.0a)

► Memory
Memory space with 1GB or larger required, larger than 2GB recommended.

► Hard disk drive
800MB or larger space required for software installation.
Drive with ATA100 / 7200rpm or faster is necessary for video storage.
  * The disc space in HDD requires twice as large as the size of the file to be edited.
  * RAID 0 is recommended for HD resolution editing.

► Graphics
Direct3D 9.0c or later, PixelShader 3.0 or later
SD 128 MB or larger required, 256 MB or larger recommended
HD 256 MB or larger required, 512 MB or larger recommended

► Sound system
Support for WDM driver is required.
**DVD-ROM drive**
Required for installation.
DVD-R / RW or DVD+R / RW drive is required when creating DVD-Video with Canopus DVD Creator.

**OS**
Windows XP SP2 or later (32bit)
Windows Vista SP1 or later (32bit)*
  * Windows Vista SP1 includes the following operation systems.
    Windows Vista Home Basic
    Windows Vista Home Premium
    Windows Vista Ultimate
    Windows Vista Business
  * Cannot be used in Windows Vista (64bit).

### Limitations
Following are limitations to use HDSTORM / EDIUS NX Express / EDIUS NX PCI-X / EDIUS NX PCI-e. Please also see the Readme text included in the installation DVD-ROM for the latest information.

**Stand-by mode**
Set stand-by mode for screen saver and monitor power supply to "OFF" when using this product.

**Exporting MPEG4 file using Hardware MPEG Engine Board.**
- Up to 4GB of the file size, or up to 500,000 frames (for NTSC), 425,000 frames (for PAL) can be exported.
- The encoding process stops once the exported file surpasses the above limit. As the actual size of the exported file cannot be estimated, the encoding process stops before the file reaches 4GB.
Support

Customer Support
For questions regarding hardware setup and usage, please contact your local Thomson Grass Valley office, distributor or the store where you have purchased this product.

Web-site
Including EDIUS, the latest company information is announced at our web-site: http://desktop.grassvalley.com/
The latest drivers utilities, product manuals, FAQs, etc. are also available at our web-site.

Online User Registration
You can register your EDIUS here.
http://desktop.grassvalley.com/support/
Setting the Main Board

Before board setting, be sure that your work area is dust-free and dry. Prepare a Phillips screwdriver and an empty box for removed screws in advance. Also, be sure that your PC is turned off and that the cables (including power) are removed from the PC.

* The product components vary depending on the product of your purchase.

**POINT** See the instruction manual for your PC (motherboard) for the PCI slot (PCI Express slot) type.

* **EDIUS NX PCI-X**
  - Set the main board (NHX-E1) in the normal PCI slot (64bit / 66MHz PCI).
  - 32bit / 33MHz PCI can be used when you edit only SD format videos.

* **EDIUS NX PCI-e / EDIUS NX Express**
  - Set the main board (NHX-E2) in the PCI Express slot (PCI Express x1).
  - When PCI Express x1 is not available, either PCI Express x4 or x8 can be used.

* **HDSTORM**
  - Set the main board (HQX-E1) in the PCI Express slot (PCI Express x1).
  - When PCI Express x1 is not available, either PCI Express x4 or x8 can be used.

1. **Tightly set the main board in PCI (PCI Express) slot.**

**POINT** The main board should fit in the PCI slot (PCI Express slot) without using any force. If the board cannot be inserted fully, please do not force in or bend any parts of the board.
Setting the Sub Board

EDIUS NX PCI-X / PCI-e / Express

Expansion board (HX-HD1)

1. Set the audio cable (4pin-4pin) to the main board.

2. Tightly slide expansion board (HX-HD1) in PCI slot and fix the bracket temporarily.
3 Connect main and expansion boards with the board connection cable (6pin-6pin).

![Diagram showing connection between main and expansion boards](image1)

4 Connect main and expansion boards with the audio cable (4pin-4pin).

![Diagram showing audio cable connection](image2)

* Do not use these two connectors when connecting the expansion board.

**POINT**  • For more details on audio output, see "Audio output" on page 16.

5 Connect main and expansion boards with the DV cable.

* You can use either of the two DV connectors on the expansion board.

![Diagram showing DV cable connection](image3)
**Hardware MPEG Engine board**

1. Connect the power cable to the Hardware MPEG Engine board.

2. Tightly slide Hardware MPEG Engine board in PCI Express slot and fix the bracket temporarily.

3. Connect main and Hardware MPEG Engine boards with the board connection cable (6pin-6pin).

* The component connectors do not exist on some board.
4 Connect main and Hardware MPEG Engine boards with the DV cable.

* You can use either of the two DV connectors on the Hardware MPEG Engine board.

* The component connectors do not exist on some board.
**Audio output**

Specification of audio cable (4pin-4pin) is:

- **Red**: Right channel (R)
- **White**: Left channel (L)
- **Black**: Ground (G)

Audio cable (4pin-4pin)

For audio output, use the attached audio cable (4pin-4pin) to connect sound device in output destination and the main board.

* Attached audio cable (4pin-4pin) branches off connectors with different type and wiring specification. Connect the side without branch to main board, and the side with branch to sound device in output destination. Use a connector that complies with the connector type and wiring specification for connecting destination. If you cannot use the attached audio cable (4pin-4pin), prepare another cable separately.

For HDSTORM, in addition to the connection with the audio cable (4pin-4pin) mentioned above (internal connection), connection to a sound device to be the output destination with a stereo mini cable (external connection) is available. Internal and external connection cannot be active at the same time.

**Output from sound device on board**

Connect the audio cable to the terminal of motherboard.

* Note that onboard sound device (sound device installed in motherboard: for details, see the instruction manual for your PC or motherboard) might interfere with the board installed in slot depending on connector position of the device.

**EDIUS NX PCI-X/PCI-e/Express**

**HDSTORM**
Output from sound board
Connect the audio cable to the terminal of sound board.

EDIUS NX PCI-X/PCI-e/Express  HDSTORM
Setting the NX Bay (NHX-B10) (Optional)

► For EDIUS NX PCI-X / PCI-e / Express
Before setting the Bay, be sure that your work area is dust-free and dry. Prepare a phillips screwdriver, a slotted screwdriver and an empty box for removed screws in advance.
Also, be sure that your PC is turned off and that the cables (including power) are removed from the PC.

1 Connect the attached DV cable to the NX Bay. Also check the connection of internal connection cables.

2 Set the NX Bay in PC.
3 Connect the internal connection cable to the main board.

![Internal connection cable](image1)

4 Connect the DV cable to the sub board (HX-HD1 / Hardware MPEG Engine board).

![Sub board](image2)

5 Set the NX Bay with screws.

![NX Bay with screws](image3)
Setting the HDSTORM BAY (HQX-B10) (Optional)*

**POINT**
* To mount HDSTORM BAY, the space for 5 inch Bay and 4pin internal power terminal are required on the PC.

* May be included depending on the product package.

**For HDSTORM**
Before setting the Bay, be sure that your work area is dust-free and dry. Prepare a Phillips screwdriver, a slotted screwdriver and an empty box for removed screws in advance.
Also, be sure that your PC is turned off and that the cables (including power) are removed from the PC.

1. **Connect the attached internal connection cable to the HDSTORM BAY.**

   ![Internal connection cable](image)

2. **Set the HDSTORM BAY in PC.**

   ![Set the HDSTORM BAY in PC](image)
3 Connect the internal connection cable to the main board.

4 Set the HDSTORM BAY with screws.

5 Connect the PC internal power cable to the power connector.
Part names

**EDIUS NX PCI-X / PCI-e / Express**

**Main board (NHX-E1 / E2) Rear panel**

-[1] Analog audio input terminal (stereo mini-jack)
-[2] Analog audio output terminal (stereo mini-jack)
-[3] Analog video input terminal (mini-DIN7pin)
  You can directly connect the S-video cable. Use the analog video terminal conversion cable in the package to connect the pin-jack (composite).
-[4] Analog video output terminal (mini-DIN7pin)
  You can directly connect the S-video cable. Use the analog video terminal conversion cable in the package to connect the pin-jack (composite).
-[5] DV terminal (DV4pin)
  In case that the main board and the Hardware MPEG Engine board are connected internally with a DV cable, please do not input DV / HDV signal via the DV terminal (IEEE1394 6pin) on the Hardware MPEG Engine board. Use the DV terminal (DV 4pin) on the main board.

**Expansion board (HX-HD1) Rear panel**

-[1] Unbalanced audio 2ch output terminal (pin-jack)
  This can be simultaneously used with analog audio output of main board.
-[2] HD / SD component output terminal (BNC)
**HDSTORM Main board (HQX-E1) Rear panel**

[1] **AUDIO terminal**
* The sound are output while editing.

[2] **HDMI IN terminal**

[3] **HDMI OUT terminal**

**POINT**
- If the board does not work properly, check the LED on the board.

---

[1] **Configuration status indicator**
The LED is lit in normal condition.
When it flashes, the memory space normally used has a problem and the back-up memory space is used. Reinstall the driver.
When the LED is lit off, any data cannot be read. Please contact your local Grass Valley office, distributor or the store where you have purchased this product.

[2] **Board – PC link status indicator**
The LED is lit off in normal condition.
When the LED is lit, insert the main board to another PCI Express slot.
When it flashes, see Match / mismatch driver indicator

[3] **Match / mismatch driver indicator**
The LED flashes when the main board is inserted to another slot, or when HDSTORM board attached to another PC is inserted to a slot, after installation. Uninstall and reinstall EDIUS and the driver.

[4] **HDSTORM BAY connection indicator**
The LED is lit when HDSTORM BAY is connected, and lit off when not connected.
Hardware MPEG Engine board Rear panel (Optional)

[1] DV terminal (IEEE1394 6pin)
In case that the main board and the Hardware MPEG Engine board are connected internally with a DV cable, please do not input DV / HDV signal via the DV terminal (IEEE1394 6pin) on the Hardware MPEG Engine board. Use the DV terminal (DV 4pin) on the main board.

[2] HD / SD component output terminal (BNC)
* These terminals do not exist on some board.

Notes
• In EDIUS 5, Hardware MPEG encoding for the output is not supported.

NX Bay (NHX-B10) Front panel (Optional)

[1] DV indicator
Lights in DV input / output.

[2] INPUT S-VIDEO indicator
Lights in S-video input.

[3] INPUT VIDEO indicator
Lights in composite video input.

[4] INPUT AUDIO indicator
Lights in analog audio input.

[5] DV terminal

[6] INPUT S-VIDEO (S-Video input) terminal

[7] INPUT VIDEO (composite video input) terminal
[8] INPUT AUDIO L (audio input / left) terminal
[9] INPUT AUDIO R (audio input / right) terminal
[10] OUTPUT S-VIDEO (S-Video output) terminal
[11] OUTPUT VIDEO (composite video output) terminal
[12] OUTPUT AUDIO L (audio output / left) terminal
[13] OUTPUT AUDIO R (audio output / right) terminal

**HDSTORM BAY (HQX-B10) Front panel (Optional)**

* May be included depending on the product package.

---

**[1] HDMI IN terminal**

**[2] HDMI OUT terminal**

**[3] VIDEO IN terminal**
Video component input terminal
You can directly connect the composite video cable to the green terminal.
Use the analog video terminal conversion cable in the package and connect the red and blue terminals to the BAY, to connect to S terminal.

**[4] VIDEO OUT terminal**
Video component output terminal
You can directly connect the composite video cable to the green terminal.
Use the analog video terminal conversion cable in the package and connect the red and blue terminals to the BAY, to connect to S terminal.

**[5] AUDIO IN terminal**

**[6] AUDIO OUT terminal**
Installing EDIUS

This section explains how to install EDIUS both on Windows Vista and Windows XP.

**Notes**
- When you start up PC after setting up the board, "Found New Hardware"("Found New Hardware Wizard" in Windows XP) appears. Select [Cancel] here.
- Before starting installation, close all the other applications that may be running in the task tray.
- Installation requires the account authorized for the administrator (such as PC administrator).
- In order to install, you must log in as a user with administrator privileges.
- When you use the Canopus Video Out Plug-in, install the product which you want to use the plug-in for in advance.
- Application to be installed may differ depending on model.

1. **Set the product DVD into the DVD-ROM drive.**
   If the application does not start automatically, open the product DVD, and double-click "SetupManagerForEDIUS.exe".

2. **Click [Install].**
   "InstallShield Wizard" dialog box appears.

**POINT**
- When the other version of EDIUS has been installed, uninstall it along to the screen instruction and restart PC.

3. **Click [Next].**

**Windows Vista**

**Windows XP**
4 Click [Yes] to agree the license agreement.

**Windows Vista**

![Image of Software Installation/Uninstallation window in Windows Vista]

**Windows XP**

![Image of Software Installation/Uninstallation window in Windows XP]

**POINT**
- If you do not accept the terms, click [No]. If you do not agree to the license agreement, you cannot use this product.

**Notes**
- Be sure of reading through terms and conditions by scrolling whole description.

5 Specify the user name, company name, and serial number, and click [Next].

**Windows Vista**

![Image of User Information entry in Windows Vista]

**Windows XP**

![Image of User Information entry in Windows XP]

**POINT**
- Enter the serial number of 6 to 16 digits, which is pasted on the product package of the EDIUS 5 product DVD.
- Please note that the serial number cannot be reissued. Keep the number securely.
6 Specify the folder to install EDIUS, and click [Next].

   Click [Browse], and select the folder, to install in another folder.

   **Windows Vista**

   ![Windows Vista setup screen](image1)

   **Windows XP**

   ![Windows XP setup screen](image2)

7 Check on the component to install, and click [Next].

   If you have been using EDIUS NX PCI-X / PCI-e / Express, check "HX-E1 / E2" to install it.

   For using HDSTORM, check "HQX-E1" to install.

   When AVC-Intra (optional) is mounted, check "AVC-C1".

   **Windows Vista**

   ![Windows Vista select features screen](image3)

   **Windows XP**

   ![Windows XP select features screen](image4)

8 Check "Create shortcuts on the desktop." and click [Next].

   **Windows Vista**

   ![Windows Vista choose options screen](image5)

   **Windows XP**

   ![Windows XP choose options screen](image6)
9 Check the settings and click [Next].

Installation of EDIUS starts up.

**Windows Vista**

**Windows XP**

**POINT**

To use GPUfx transition, the following conditions are required.
- Direct3D 9.0c or later, PixelShader 3.0 or later
- SD 128 MB or larger required, 256 MB or larger recommended
- HD 256 MB or larger required, 512 MB or larger recommended

10 Click [Install]. (Click [Continue Anyway] in Windows XP.)

**Windows Vista**

**Windows XP**

This screenshot is of EDIUS NX PCI-X/PCI-e/Express.

Instead of [HX-E1], [HQX-E1] is displayed for HDSTORM.

[AVC-C1] is displayed for AVC-Intra.
11 Select "Yes, I want to restart my computer now." and click [Finish].

The screen differs when you have installed the driver for HDSTORM, "HQX-E1" or the driver for AVC-Intra, "AVC-C1". Shut down and restart your PC.

**Windows Vista**

![Windows Vista Wizard](image)

**Windows XP**

![Windows XP Wizard](image)

PC restarts. Installation of EDIUS is completed.

**POINT**

- USB key in the package stores the license for using EDIUS.
- Attach the USB key to the USB port of PC for using EDIUS. If the detection is completed properly, the message appears to notify that new hardware is found.
Installing Attached Application Software

Install attached application software if necessary.
This section explains how to install EDIUS both on Windows Vista and Windows XP.

Notes
• TitleMotion Pro may not be included in the package depending on the product of your purchase.

Installing TitleMotion Pro

TitleMotion Pro is the application software specific for the title creation. A variety of expression is available such as 3D text or animation. It implements 3 functions to create a title by switching each function according to the operation purpose.

1. Set TitleMotion Pro Installation CD into the CD-ROM drive.
"InstallShield Wizard" dialog box appears.

2. Click [Next].

Windows Vista

Windows XP

Installation of TitleMotion Pro starts up.
3 Select "Yes, I want to restart my computer now." and click [Finish].

PC restarts. Installation of TitleMotion Pro is completed.

**Tools Folder contents**

The following contents are provided in Tools Folder in the product DVD.

| Adobe Reader | Adobe Reader is included. Use it to view the PDF manuals provided. If Adobe Reader has not been installed on your PC, execute the setup file and install it by following the on-screen instruction. |
| AVCHD converter | This tool converts AVCHD video files (such as m2ts) into AVI files for Canopus HQ Codec. By using AVCHD converter, you can convert data into AVI files for Canopus HQ Codec, and the response in edit operation improves. To install the tool, double-click "setup.exe" and follow the on-screen instructions. For details on the installation and operation, see the PDF manual in Tools Folder. |
| DVCapture | DV capture tool that supports simultaneous capturing with 3 cameras, with maximum 2 cameras connecting to IEEE1394 ports (OHCI), and one connecting to EDIUS NX series. The function is also available to detect the border of the DV timecode and divide the file automatically. Double-click "CDVCap.exe" and follow the screen instruction to install. |
| EdiusLM | License Transfer Tool is included. Without attaching the USB key, you can use the license of EDIUS or other optional products. |

*License Transfer ➔ P43*
### Keyboard Shortcut

Included files are the default shortcut key file, "Avid shortcut for EDIUS.dat", "EDIUS Pro3 shortcut.dat", "FinalCutPro shortcut for EDIUS.dat", and "FinalCutPro shortcut for EDIUS (104 keys - English).dat". Refer to Reference Manual for details to read the file.

### VideoOut Plug-ins

Canopus VideoOut Plug-ins is included. It is plug-in software for 'NewTek LightWave 3D', 'Autodesk Maya', 'Autodesk 3ds Max', 'Autodesk Combustion', 'TVPaint Mirage', 'Adobe Photoshop' and 'Adobe After Effects'. This outputs videos or images displayed in each applications from video output on appropriate product to TV monitor. For details on the installation and operation, see the PDF manual in "Manual" → "ENG" folder in EDIUS 5 Installation DVD.

---

### HQX-E1 Monitor

HQX-E1 Monitor is software to be used for capturing when HQX-E1 and a device are connected via a HDMI cable. You can check in advance the resolution or the number of audio channels of the video to be captured, and the image display ability or the number of receivable audio channels of the monitor device. The installation is executed automatically when installing the HQX-E1 driver.
Installing DV Capture

This section explains how to install EDIUS both on Windows Vista and Windows XP.

1 Set the product DVD into the DVD-ROM drive.

2 Open "Tools" folder, "DV Capture" folder, and double-click "CDVCap.exe".

"InstallShield Wizard" dialog box appears.

3 Click [Next].

4 If you agree the license agreement, select "I accept the terms of the license agreement" and click [Next].

Notes • Be sure to read through terms and conditions by scrolling whole description.
5 Specify file user name and company name and click [Next].

Windows Vista

6 Specify the folder to install DV Capture, and click [Next].

Click [Change...] and select the folder, to install in another folder.

Windows Vista

7 Click [Install].

Windows Vista
8 Click [Finish].

Windows Vista

![Windows Vista Installation Completion]

Windows XP

![Windows XP Installation Completion]
Confirmation after installation

Confirming resource (in Windows Vista)

Confirm whether driver has been normally installed after restarting when driver and application software installation is finished.

1 Proceed to [System and Maintenance] from [Control Panel] of [Start] menu.
   Or right click [Computer] of [Start] menu and select [Properties].

2 Click [Device Manager].

3 Double click [Sound, video and game controllers].

4 Confirm the device names.
   - [HX-E1] (EDIUS NX PCI-X)
   - [HX-E2] (EDIUS NX PCI-e / EDIUS NX Express)
   - [HQX-E1] (HDSTORM)
   - [Canopus Hardware MPEG Engine] (EDIUS NX Express)
   - [AVC-C1] (AVC-Intra)

   If you find ! or X mark at the top of device name, that means you failed installing HX-E1 / HX-E2 / HQX-E1 / AVC-C1 driver.
   Try installation again, check rival resource, or change board insertion position.

5 Close [Device Manager].

Checking the driver for the main board now finishes.

6 Start up EDIUS or ADVC Mode Controller and exit once.
**POINT** • For more information on how to start up EDIUS, see "Starting EDIUS" "EDIUS User Guide / Reference Manual".

**POINT** For EDIUS PCI-X/PCI-e, follow the procedures below and check the driver for the Expansion board.
1. Referring to steps 1 and 2, open [Device Manager].
2. Double click the following items to check that the driver is installed.
   - [IEEE 1394 Bus host controllers]
   - Device-[NEC OHCI Compliant IEEE 1394 Host Controller]
3. Close [Device Manager].

### When resources compete
EDIUS will not operate normally if your and other devices compete or share PC resources. Try following solution:

- Remove other device that share interrupting or change IRQ of other device.
- Change resource setting with BIOS of PC or motherboard. See instruction manual of PC or motherboard since BIOS setting method varies by manufacturer.

**POINT** • IRQ set method varies depending on PC or motherboard manufacturer. Some types assign arbitrary IRQ to each PCI Express slot with BIOS, other types program special IRQ in advance.

### Confirming resource (in Windows XP)
Confirm whether driver has been normally installed after restarting when driver and application software installation is finished.

1. Proceed to [Performance and maintenance] from [Control panel] of [start] menu and select [See basic information about your computer].
   Or right click [My Computer] of [start] menu and select [Properties].
2 Select [Hardware] tab and click [Device Manager].

3 Double click [Sound, video and game controllers].

*This screenshot is for EDIUS NX Express / EDIUS NX PCI-e.

4 Confirm the device names.
   - [HX-E1] (EDIUS NX PCI-X)
   - [HX-E2] (EDIUS NX PCI-e / EDIUS NX Express)
   - [HQX-E1] (HDSTORM)
   - [Canopus Hardware MPEG Engine] (EDIUS NX Express)
   - [AVC-C1] (AVC-Intra)
   If you find ! or X mark at the top of device name, that means you failed installing HX-E1 / HX-E2 / HQX-E1 / AVC-C1 driver.
   Try installation again, check rival resource, or change board insertion position.

5 Close [Device Manager].
   Checking the driver for the main board now finishes.

6 Start up EDIUS or ADVC Mode Controller and exit once.
For more information on how to start up EDIUS, see "Starting EDIUS" "EDIUS User Guide / Reference Manual".

For EDIUS PCI-X/PCI-e, follow the procedures below and check the driver for the Expansion board.

1. Referring to steps 1 and 2, open [Device Manager].
2. Double click the following items to check that the driver is installed.
   - [IEEE 1394 Bus host controllers]
     Device-[NEC OHCI Compliant IEEE 1394 Host Controller]
   - [Network adapters]
     Driver-[1394 Net Adapter]
   * #2 of [1394 Net Adapter #2] may appear when connecting and disconnecting boards several times. Display description varies depending on your environment.
3. Close [Device Manager].

When resources compete
EDIUS will not operate normally if your and other devices compete or share PC resources. Try following solution.
- Remove other device that share interrupting or change IRQ of other device.
- Change resource setting with BIOS of PC or motherboard. See instruction manual of PC or motherboard since BIOS setting method varies by manufacturer.

* IRQ set method varies depending on PC or motherboard manufacturer. Some types assign arbitrary IRQ to each PCI Express slot with BIOS, other types program special IRQ in advance.
Uninstallation

Uninstalling driver and application software from Windows Vista

Notes

- Before starting uninstallation, close all the other applications that may be running in the task tray.
- In order to uninstall, you must log in as a user with administrator privileges.

1. Click "Start" menu and click "Control Panel".

2. Click "Uninstall a program".

3. Select "EDIUS 5 (SetupManager)" and click [Uninstall].

![Uninstall EDIUS 5 dialog box]

4. Click [Continue] to continue uninstallation.

5. Check on the component to uninstall and click [Next].

![Select uninstall components dialog box]

Uninstallation starts.

6. Click [Finish].

PC will be rebooted. Uninstallation is now completed.
Alternative
• Click "Start" menu and click "All Programs". Click and open "Canopus" folder, and click "Uninstall" in "EDIUS 5" folder. Then follow the procedure in Step4 to 6.

Uninstalling driver and application software from Windows XP

Notes
• Before starting uninstallation, close all the other applications that may be running in the task tray.
• In order to uninstall, you must log in as a user with administrator privileges.

1 Click "Start" menu, and click "Control Panel".

2 Double-click "Add or Remove Programs".

3 Select "EDIUS 5 (SetupManager)", and click [Remove].

4 Check on the component to uninstall, and click [Next].

Uninstallation starts.

5 Click [Finish].
The computer will reboot. Uninstallation is completed.

Alternative
• Click "Start" menu, then click "All programs" → "Canopus" → "EDIUS 5" → "Uninstall". Check the items to uninstall and click [Next].
4 License Transfer

Transferring license

When you are using EDIUS on a desktop PC where the numbers of USB ports are limited, or when you do not want to carry USB key, consider transferring EDIUS licenses. Make sure to read and understand the following notes before transferring licenses.

The procedure in Windows Vista is described here. The operation is same in Windows XP.

Notes

- The license transfer tool must be executed on a PC where EDIUS has been installed.
- When you close the license transfer tool, make sure that the transferring procedures of license have been completed. If you close the tool while processing, your EDIUS license may be lost.
- Please note that the USB key cannot be reissued no matter what the circumstances (even when the license information exists on a PC). Keep the USB key securely.
- License can only be transferred between PC and USB key, or between USB and USB. It cannot be transferred from a PC to another PC.
- If you have several licenses of the same product, they cannot be integrated in one USB key.
- If you have transferred the license to a PC, there is a possibility that the license may be lost because of the malfunction of a hard disk drive or any other reasons. We recommend that you should not transfer the license to a PC unless there is a compelling reason.
- Note that when you have transferred the license to a PC, the registered license data may become invalid if you change the hardware (CPU, Memory, Motherboard, HDD, NIC, etc) configurations.

Using License Transfer tool

1 Set the USB key that contains the licenses you want to transfer to a USB port of a PC.

2 Set the product DVD into the DVD-ROM drive.

Transfer between a USB key and a local disk of a PC

1 Click "USB to PC" on the "EDIUS LM" dialog.

2 Select the license to transfer and click [->].
To transfer from a PC to a USB key, click [<].

3 Wait until the license is transferred, and click [Close].
Transfer between a USB key and another USB key

1. Click the "USB to USB" tab on the "EDIUSLM" dialog.

   ![EDIUSLM dialog](image)

2. Select the license to transfer and click [->].

3. Remove the USB key, set the USB key to transfer the license to, and then click [Refresh].

   Notes
   - Make sure to remove the USB key where the license had been stored, before setting the destination USB key.
   - When you change the USB keys, do not fail to click [Refresh] in order to update the License list.

4. Select the license and click [<->] to transfer it to the new USB key.

5. Wait until the license is transferred, and click [Close].

   Notes
   - Do not remove the USB key when the licenses are being transferred.
   - To transfer licenses, make sure to replace USB keys step by step.
Main Board

**EDIUS NX PCI-X (NHX-E1)**

<table>
<thead>
<tr>
<th><strong>PCI standard</strong></th>
<th>PCI Spec. Revision 2.1  For HD / SD edit: 64bit / 66MHz PCI  For SD edit: 32bit / 33MHz PCI</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Digital video</strong></td>
<td>DV terminal (DV 4pin) x 1  * OHCI board or Expansion board is required for HDV I/O.</td>
</tr>
</tbody>
</table>
| **Analog video**  | Input  
|                  | S terminal (Mini DIN7pin) x 1  
|                  | * S cable can be directly connected.  
|                  | * Use analog video connector conversion cable to connect RCA (composite) connector. |
|                  | Output  
|                  | S terminal (Mini DIN7pin) x 1  
|                  | * S cable can be directly connected.  
|                  | * Use analog video connector conversion cable to connect RCA (composite) connector. |
| **Analog audio**  | Input  
|                  | Stereo mini-jack x 1  
|                  | * Use audio conversion cable to connect RCA connector. |
|                  | Output  
|                  | Stereo mini-jack x 1  
|                  | * Use audio conversion cable to connect RCA connector. |
| **Board size**    | 212mm (Width 107mm) |
| **Max consumption current** | 32bit PCI (for SD edit) +5V: 2.2A, +12V: 440mA, -12V: 160mA  
|                  | 64bit PCI (for HD edit) +5V: 2.4A, +12V: 440mA, -12V: 160mA |
| **Weight**        | About 250g |

**EDIUS NX PCI-e / EDIUS NX Express (NHX-E2)**

<table>
<thead>
<tr>
<th><strong>PCI Express standard</strong></th>
<th>PCI Express x 1 (PCI Express Spec. Revision 1.0a)</th>
</tr>
</thead>
</table>
| **Digital video**        | DV terminal (DV 4pin) x 1  
|                          | * OHCI board or Expansion board is required for HDV I/O. |
## Hardware Specifications

### Analog video

<table>
<thead>
<tr>
<th></th>
<th>Input</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>S terminal (Mini DIN7pin)</td>
<td>S terminal (Mini DIN7pin)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>x 1</td>
<td>x 1</td>
</tr>
<tr>
<td></td>
<td>* S cable can be directly connected.</td>
<td>* S cable can be directly connected.</td>
</tr>
<tr>
<td></td>
<td>* Use analog video connector conversion cable to connect RCA (composite) connector.</td>
<td>* Use analog video connector conversion cable to connect RCA (composite) connector.</td>
</tr>
</tbody>
</table>

### Analog audio

<table>
<thead>
<tr>
<th></th>
<th>Input</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stereo mini-jack</td>
<td>Stereo mini-jack</td>
<td>Stereo mini-jack</td>
</tr>
<tr>
<td>x 1</td>
<td>x 1</td>
<td>x 1</td>
</tr>
<tr>
<td></td>
<td>* Use audio conversion cable to connect RCA connector.</td>
<td>* Use audio conversion cable to connect RCA connector.</td>
</tr>
</tbody>
</table>

### Board size

212mm (Width 111mm)

### Max consumption current

+12V: 2.3A, +3.3V: 1.3A

### Weight

About 240g

---

### HDSTORM (HQX-E1)

<table>
<thead>
<tr>
<th>PCI Express standard</th>
<th>PCI Express x 1 (PCI Express Spec. Revision 1.1)</th>
</tr>
</thead>
</table>

### Video

<table>
<thead>
<tr>
<th></th>
<th>Input</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDMI terminal</td>
<td>HDMI terminal</td>
<td>HDMI terminal</td>
</tr>
<tr>
<td>x 1</td>
<td>x 1</td>
<td>x 1</td>
</tr>
</tbody>
</table>

### Audio

<table>
<thead>
<tr>
<th></th>
<th>Input</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDMI (LPCM 8ch)</td>
<td>HDMI (LPCM 8ch)</td>
<td>Stereo mini-jack</td>
</tr>
<tr>
<td></td>
<td>x 1</td>
<td>x 1</td>
</tr>
<tr>
<td></td>
<td>* HDD</td>
<td>Stereo mini-jack x 1</td>
</tr>
</tbody>
</table>

### Max consumption current

+12V : 250mA, +3.3V : 3A

### Operating temperature

0°C to 45°C

### Operating humidity

40 ~ 80% (No Condensation)
## Expansion board (HX-HD1)

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PCI standard</strong></td>
<td>PCI Spec. Revision 2.1 (32bit / 33MHz)</td>
</tr>
<tr>
<td><strong>Analog video</strong></td>
<td>Output HD / SD component output (BNC) x 3</td>
</tr>
<tr>
<td><strong>Analog audio</strong></td>
<td>Output Unbalanced audio (RCA pin-jack) x 2</td>
</tr>
<tr>
<td><strong>Board size</strong></td>
<td>120mm (Width 93mm)</td>
</tr>
<tr>
<td><strong>Max consumption current</strong></td>
<td>+5V: 200mA, +12V: 100mA, -12V: 100mA</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>About 110g</td>
</tr>
</tbody>
</table>

## Hardware MPEG Engine board

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PCI Express standard</strong></td>
<td>PCI Express x 1 (PCI Express Spec. Revision 1.0a)</td>
</tr>
<tr>
<td><strong>Analog video</strong></td>
<td>Output HD / SD component output (BNC) x 3</td>
</tr>
<tr>
<td><strong>I/O terminal</strong></td>
<td>HDV / DV Input (IEEE1394) 6pin x 1*, 4pin x 2 (for internal connection)</td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
<td>NTSC 720x480, 704x480, 640x480, 480x480, 352x480, 352x240, 320x240, 176x120</td>
</tr>
<tr>
<td><strong>Video Bit Rate</strong></td>
<td>MPEG2 128kbps – 15Mbps(VBR/CBR)</td>
</tr>
<tr>
<td><strong>Number of Pictures</strong></td>
<td>0 to 5</td>
</tr>
<tr>
<td><strong>Cycle</strong></td>
<td>1 to 4</td>
</tr>
<tr>
<td><strong>Frame Rate</strong></td>
<td>NTSC 29.97fps / 14.985fps, PAL 25fps</td>
</tr>
<tr>
<td><strong>Audio Bit Rate</strong></td>
<td>96 to 384kbps</td>
</tr>
<tr>
<td><strong>Sampling Frequency</strong></td>
<td>48kHz 44.1kHz 32kHz</td>
</tr>
<tr>
<td><strong>Audio Compression</strong></td>
<td>MPEG1 Layer2</td>
</tr>
<tr>
<td><strong>Multiplex</strong></td>
<td>MPEG2 program stream</td>
</tr>
</tbody>
</table>
# Hardware Specifications

## MPEG Encoding part

<table>
<thead>
<tr>
<th>Resolutions</th>
<th>NTSC</th>
<th>PAL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MPEG4</strong></td>
<td>720x480, 704x480, 640x480, 480x480, 352x240, 320x240, 176x120</td>
<td>720x576, 704x576, 640x576, 480x576, 352x576, 352x288, 320x288, 176x144</td>
</tr>
<tr>
<td><strong>Video Bit Rate</strong></td>
<td>MPEG4 32kbps to 8Mbps (VBR / CBR)</td>
<td></td>
</tr>
<tr>
<td><strong>Frame Rate</strong></td>
<td>NTSC 29.97fps / 14.985fps</td>
<td>PAL 25fps</td>
</tr>
<tr>
<td><strong>Audio Bit Rate</strong></td>
<td>64 to 160kbps</td>
<td></td>
</tr>
<tr>
<td><strong>Sampling Frequency</strong></td>
<td>48kHz, 24kHz</td>
<td></td>
</tr>
<tr>
<td><strong>Audio Compression</strong></td>
<td>AAC</td>
<td></td>
</tr>
<tr>
<td><strong>Multiplex</strong></td>
<td>MPEG4 File Format ISO/IEC 14496-14 MEMORY STICK Standard Video File Format</td>
<td></td>
</tr>
</tbody>
</table>

## Memory Stick

- **Consumption Current (Max)**: +3.3V 1.8A, +12V 150mA
- **Available Temperature Range**: 5 to 45 degrees C
- **Available Resources**
  - Interrupt: 3
  - Memory Space: Area for 2M byte
- **Size / Weight**: Approx. 163(W) x 112(H)mm x 16mm(D)
  - *Excluding projecting parts*
  - Approx. 140g

---

*In case that the main board and the Hardware MPEG Engine Component Out board are connected internally with a DV cable, please do not input DV / HDV signal via the DV terminal (IEEE1394 6pin) on the Hardware MPEG Engine board. Use the DV terminal (DV 4pin) on the main board.*
### NX Bay (NHX-B10) (Optional)

<table>
<thead>
<tr>
<th>Digital video</th>
<th>DV terminal (DV 4pin) x 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analog video</td>
<td>RCA pin jack x 1</td>
</tr>
<tr>
<td></td>
<td>S terminal x 1</td>
</tr>
<tr>
<td>Output</td>
<td>RCA pin jack x 1</td>
</tr>
<tr>
<td></td>
<td>S terminal x 1</td>
</tr>
<tr>
<td>Analog audio</td>
<td>RCA pin jack x 2 (stereo 1 system)</td>
</tr>
</tbody>
</table>

### HDSTORM BAY (HQX-B10) (Optional)*

* May be included depending on the product package.

<table>
<thead>
<tr>
<th>Digital video</th>
<th>Input</th>
<th>HDMI terminal x 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output</td>
<td>HDMI terminal x 1</td>
<td></td>
</tr>
<tr>
<td>Digital audio</td>
<td>Input</td>
<td>HDMI (LPCM 8ch)</td>
</tr>
<tr>
<td>Output</td>
<td>HDMI (LPCM 8ch)</td>
<td></td>
</tr>
<tr>
<td>Analog video</td>
<td>Input</td>
<td>Component terminal x 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>* Composite video cable can be directly connected.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>* Use analog video connector conversion cable to connect S terminal.</td>
</tr>
<tr>
<td></td>
<td>Output</td>
<td>Component terminal x 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>* Composite video cable can be directly connected.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>* Use analog video connector conversion cable to connect S terminal.</td>
</tr>
<tr>
<td>Analog audio</td>
<td>Input</td>
<td>RCA pin jack x 2 (stereo 1 system)</td>
</tr>
<tr>
<td>Output</td>
<td>RCA pin jack x 2 (stereo 1 system)</td>
<td></td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
<td>DC 5V (supplied from internal PC to 4pin power terminal)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DC 12V</td>
<td></td>
</tr>
<tr>
<td><strong>Max consumption current</strong></td>
<td>+12V : 370mA, +5V : 1.1A</td>
<td></td>
</tr>
<tr>
<td><strong>Product size</strong></td>
<td>143mm(W)x165mm(D)x42mm(H)</td>
<td></td>
</tr>
</tbody>
</table>