

STORM 3G

Setup Guide

www.grassvalley.com

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Manual Explanation	 If there are any valexplanation in this application metho actual application The screens used are those of the draw vary from the This manual is wright basic knowledge of the same operation operation. In this manual, Mi operating system (collective term of Premium, and Hoi In this manual, Mi operating system Vista (collective term of Premium, and Hoi In this manual, Mi operating system Vista (collective term of Premium, and Hoi In this manual, Mi operating system Vista (collective term of Premium, and Hoi In this manual, Mi operating system Vista (collective term of Premium, and Hoi In this manual, Mi operating system Vista (collective term of Premium, and Hoi In this manual, Mi operating system Vista (collective term of Premium, and Hoi 	ariations between the smanual and the actual d, priority is given to the method. I as examples in this manual evelopment stage, so they use in the final product. itten for people who have a of how to use a computer. ecial instructions, perform on as a normal computer crosoft® Windows® 7 is described as Windows 7 is described as Windows 7 is described as Windows 7 is described as Windows me Basic). crosoft® Windows Vista® is described as Windows erm of Ultimate, Business, and Home Basic). crosoft® Windows® XP ating system is described as
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Safety Summaries

General Safety Summary

Review the following safety precautions to avoid injury and prevent damage to this product or any products connected to it.

While using this product, you may need to access other parts of the system. Read the General Safety Summary in other system manuals for warnings and cautions related to operating the system.

Injury Precautions

Do Not Operate Without Covers

To avoid electric shock or fire hazard, do not operate this product with covers or panels removed.

Do Not Operate in Wet/Damp Conditions

To avoid electric shock, do not operate this product in wet or damp conditions.

Do Not Operate in an Explosive Atmosphere

To avoid injury or fire hazard, do not operate this product in an explosive atmosphere.

Avoid Exposed Circuitry

To avoid injury, remove jewelry such as rings, watches, and other metallic objects. Do not touch exposed connections and components when power is present.

Product Damage Precautions

Use Proper Power Source

Do not operate this product from a power source that applies more than the voltage specified.

Provide Proper Ventilation

To prevent product overheating, provide proper ventilation.

Do Not Operate With Suspected Failures

If you suspect there is damage to this product, have it inspected by qualified service personnel.

Safety Terms and Symbols

Terms in This Manual

These terms may appear in this manual:



WARNING: Warning statements identify conditions or practices that can result in personal injury or loss of life.



CAUTION: Caution statements identify conditions or practices that may result in damage to equipment or other property, or which may cause equipment crucial to your business environment to become temporarily non-operational.

Terms on the Product

These terms may appear on the product: DANGER indicates a personal injury hazard immediately accessible as one reads the marking. WARNING indicates a personal injury hazard not immediately accessible as you read the marking. CAUTION indicates a hazard to property including the product.

Symbols on the Product

The following symbols may appear on the product:





 $\left(\frac{\bot}{-}\right)$ Protective ground (earth) terminal



ATTENTION – refer to manual

Service Safety Summary



WARNING: The service instructions in this manual are intended for use by qualified service personnel only. To avoid personal injury, do not perform any servicing unless you are qualified to do so. Refer to all safety summaries before performing service.

Do Not Service Alone

Do not perform internal service or adjustment of this product unless another person capable of rendering first aid and resuscitation is present.

Disconnect Power

To avoid electric shock, disconnect the main power by means of the power cord or, if provided, the power switch

Use Care When Servicing With Power On

Dangerous voltages or currents may exist in this product. Disconnect power and remove battery (if applicable) before removing protective panels, soldering, or replacing components. To avoid electric shock, do not touch exposed connections.

Certifications and Compliances

FCC Emission Control

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Changes or modifications not expressly approved by Grass Valley can affect emission compliance and could void the user's authority to operate this equipment.

Canadian EMC Notice of Compliance

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications. This product must not be used in residential areas.

EMC Directive Class A Warning

This product must not be used in residential areas.

FCC Emission Limits

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 undesirable operation.

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Warranty
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Warranty

This product is covered by a limited warranty when vou register your Grass Valley product. This warranty is for a period of one year (or two years in European Union countories) from the date of purchase from Grass Valley or an authorized Grass Valley agent. This warranty applies only to the original purchaser of the Grass Valley product and is not transferable, 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, 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-Grass Valley authorized alternations, modifications and/or repair. Proof of purchase is required to validate your warranty. 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.

Résumé des mesures de sécurité

Résumé des mesures de sécurité générales

Consultez les mesures de sécurité suivantes afin d'éviter toute blessure corporelle et dommage au produit, et pour tous les produits qui y sont connectés. Lors de l'utilisation de ce produit, il est possible que vous ayez à accéder à d'autres parties du système. Consultez le Résumé des mesures de sécurité générales du manuel des autres systèmes pour prendre connaissance des mises en garde et des avertissements relatifs à leur utilisation.

Précautions relatives aux blessures

Ne pas faire fonctionner le produit sans couvercle

Afin d'éviter un choc électrique ou un risque d'incendie, ne faites pas fonctionner ce produit lorsque que les couvercles ou les panneaux sont retirés.

Ne pas faire fonctionner le produit dans des conditions humides

Afin d'éviter un choc électrique, ne faites pas fonctionner ce produit dans des conditions humides.

Ne pas faire fonctionner le produit dans une atmosphère explosive

Afin d'éviter une blessure corporelle ou un risque d'incendie, ne faites pas fonctionner ce produit dans une atmosphère explosive.

Éviter les circuits à nu

Afin d'éviter une blessure corporelle, retirez tous vos bijoux, tels que bagues, montres et autres objets métalliques. Ne touchez pas les connexions ni les composants à nu lorsque l'appareil est sous tension.

Précautions relatives aux dommages au produit

Utiliser une source d'alimentation appropriée

Ne faites pas fonctionner ce produit avec une source d'alimentation qui applique une tension supérieure à celle spécifiée.

Prévoir une ventilation adéquate

Afin d'empêcher une surchauffe du produit, prévoyez une ventilation adéquate.

Ne pas faire fonctionner le produit en cas de soupçons de panne

Si vous remarquez que ce produit est endommagé, faites-le examiner par un personnel d'entretien qualifié.

Termes et symboles de sécurité

Termes utilisés dans ce manuel

Les termes suivants peuvent apparaître dans ce manuel :



MISE EN GARDE: Les indications de mise en garde identifient des conditions ou des pratiques qui peuvent provoquer des blessures corporelles ou le décès.



AVERTISSEMENT: Les indications d'avertissement identifient des conditions ou des pratiques qui peuvent provoquer des dommages à l'équipement ou à d'autres biens, ou qui peuvent rendre temporairement non opérationnel un équipement indispensable à l'environnement de votre activité.

Termes relatifs au produit

Les termes suivants peuvent apparaître sur le produit : DANGER indique un risque de blessure corporelle immédiatement accessible lors de la lecture de l'inscription.

MISE EN GARDE indique un risque de blessure corporelle non immédiatement accessible lors de la lecture de l'inscription.

AVERTISSEMENT indique un risque relatif aux biens, y compris le produit.

Symboles sur le produit

Les symboles suivants peuvent apparaître sur le produit :



/4 DANGER haute tension



 $\left(\frac{1}{2}\right)$ Prise de mise à la masse (terre)

ATTENTION – consultez le manuel

Résumé des mesures de sécurité d'entretien



MISE EN GARDE: Les instructions d'entretien de ce manuel sont destinées uniquement à du personnel d'entretien qualifié. Afin d'éviter toute blessure corporelle, ne procédez à aucun entretien à moins de posséder les qualifications requises. Consultez tous les résumés des mesures de sécurité avant de procéder à l'entretien.

Ne pas procéder seul à l'entretien

Ne procédez pas à un entretien ou à un ajustement interne de ce produit à moins qu'une autre personne en mesure de prodiguer les premiers soins ou une réanimation ne soit présente.

Débrancher l'alimentation

Afin d'éviter un choc électrique, coupez l'alimentation principale au moyen du cordon d'alimentation ou, le cas échéant, de l'interrupteur d'alimentation.

Faire preuve de prudence lors de l'entretien lorsque l'appareil est sous tension

Ce produit peut être le cadre de tensions et d'intensités dangereuses. Débranchez l'alimentation et retirez la pile (le cas échéant) avant de retirer les panneaux de protection, de procéder à une soudure ou de remplacer des composants.

Afin d'éviter un choc électrique, ne touchez pas les connexions à nu.

Certifications et conformités

Contrôle d'émission du FCC

Le présent équipement a été testé et approuvé comme répondant aux normes des dispositifs numériques de classe A, conformément à la Partie 15 des règlements du FCC. Ces limites sont conçues pour fournir une protection raisonnable contre les brouillages préjudiciables dans un environnement commercial. Cet appareil produit, utilise et peut dégager de l'énergie radioélectrique et, s'il n'est pas installé et utilisé selon les instructions, il peut être la source d'interférences gênantes pour les communications radio. L'utilisation de cet appareil dans une zone résidentielle peut également causer des interférences gênantes, auquel cas l'utilisateur s'engage à mettre fin à ces interférences à ses frais. Les changements et modifications non expressément approuvés par Grass Valley peuvent influer sur la conformité des émissions et pourraient annuler l'autorisation de l'utilisateur à utiliser cet appareil.

Avis de conformité de la CEM pour le Canada

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada. Ce produit ne doit pas être utilisé dans des zones résidentielles.

Directive CEM Avertissement relatif à la classe A

Ce produit ne doit pas être utilisé dans des zones résidentielles.

Limites d'émission du FCC

Cet appareil est conforme à la partie 15 des règlements du FCC. Son utilisation est soumise aux deux conditions suivantes : (1) Cet appareil ne doit pas provoquer d'interférences nuisibles, et (2) cet appareil doit tolérer toute interférence reçue, y compris des interférences qui pourraient provoquer un fonctionnement indésirable. Garantie

Garantie

Ce produit est couvert par une garantie limitée lors de l'enregistrement de votre produit Grass Valley. Cette garantie est valide pour une période d'un an (ou de deux ans dans les pays de l'Union européenne) à partir de la date d'achat de Grass Valley ou un agent autorisé de Grass Valley. Cette garantie ne s'applique qu'à l'acheteur initial du produit Grass Valley et elle ne peut être transférée. Grass Valley garantit le bon fonctionnement du produit pendant la période indiquée. Grass Valley s'engage à réparer ou remplacer le produit, sans frais supplémentaires, si le produit venait à présenter un défaut de fonctionnement qui ne soit pas le résultat d'une mauvaise manipulation, d'un abus ou de toute opération, modification ou réparation non autorisées par Grass Valley. La garantie du produit ne peut être validée que sous présentation d'une évidence d'achat.

Grass Valley ne peut être tenu pour responsable des pertes de bénéfices, pertes d'argent ou autres dommages accessoires ou indirects résultant de l'utilisation de ce produit ou de l'impossibilité de l'utiliser. Cela inclut les dommages matériels et, dans les limites légales, les dommages corporels. Cette garantie remplace toutes les autres garanties de valeur marchande et d'adéquation à un usage particulier.

Section 1

Before Using

Before Using

Operation environment

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

PC

CPU: Intel Pentium 4, Xeon, Core Duo, or higher

- * CPU supporting SSE2 instructions or higher is essential for operating EDIUS.
- * EDIUS complies with multi-processor and hyper threading technology.

PCI bus

PCI Express x4 (PCI Express Spec. Revision 1.1 or later) x1

Hard disk drive

6GB or larger space required for software installation. Drive with ATA100 / 7200rpm or faster is necessary for video storage.

- * RAID 0 is recommended for HD resolution editing.
- * The disc space of twice as large as the size of the file to be edited is required in HDD.

Section 1 — Before Using

Graphics

Graphics Processing Unit supporting Direct 3D 9.0c or later or PixelShader Model 3.0 or later is required. 1024 x 768pixel 32bit display or higher is available. * Some DirectDraw overlay functions cannot be used.

Memory and Video Memory

The operating conditions of memory and video memory are as follows:

Angle of View		SD or smaller		HD or smaller		Larger than HD
depth		8bit	10bit	8bit	10bit	8bit/10bit
32bit OS		~	\checkmark	\checkmark	-	-
64bit OS		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Momory	Minimum	1GB	2GB	2GB	4GB	4GB
wennury	Recommended	2GB	4GB	4GB	4GB	4GB
Video	Minimum	256MB	512MB	512MB	1GB	2GB
Memory	Recommended	512MB	1GB	1GB	2GB	2GB

Sound system

Support for WDM driver is required.

Optical drive

DVD-ROM drive required for software installation.

* For storage on a BD or DVD disc, a supporting drive is required.

0S

Windows 7 (32bit/64bit) Windows Vista SP2 or later (32bit/64bit) Windows XP SP3 or later (32bit) Internet Explorer 8 or later

* However, the operation in the virtual operation systems such as Virtual PC, VMWare, and Windows XP mode of Windows 7 is not guaranteed.

USB port

One USB port required (USB 1.1 or higher, for use of the USB key)

Miscellaneous

Availability of Internet access and e-mail address required

* This is necessary for activation, user registration, and updating of software and receiving support.

Limitations

Following are limitations to use this product. 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.

Section 1 — Before Using

Contacting Grass Valley

International Support Centers	France 24 x 7	+800 8080 2020 or +33 1 48 25 20 20	United States/ Canada 24 x 7	+1 800 547 8949 or +1 530 478 4148	
	Asia	Hong Kong, Taiwan, Korea, Macau: +852 2531 3058 Indian Subcontinent: +91 22 24933476 Southeast Asia/Malaysia: +603 7805 3884 Southeast Asia/Singapore: +65 6379 1313 China: +861 0660 159 450 Japan: +81 3 5484 6868			
Logal Support	Austral +61 130	a and New Zealand: 0 721 495		Central/South America: +55 11 5509 3443	
Centers (available	Middle East: +971 4 299 64 40 Near East and Africa: +800 8080 2020 or +33 1 48 25 20 20				
during normal business hours)	Europe	Belarus, Russia, Uzbekistan: +7 0 Switzerland: +41 S. Europe/Italy-F -Milan: +39 02 48 S. Europe/Spain: Benelux/Belgium Benelux/Netherla N. Europe: +45 4 Germany, Austria 444 UK, Ireland, Isra	Tadzikis 95 25809 1 487 80 3 41 46 58 : +34 91 5 : +32 (0) ands: +31 5 96 88 7 a, Easterr el: +44 12	tan, Ukraine, 24 225 02 9 06 87 20 35 28 3 12 03 50 2 334 90 30 (0) 35 62 38 42 1 0 1 Europe: +49 6150 104	

Grass Valley Web Site

The *http://www.grassvalley.com* web site offers the following:

Online User Documentation — Current versions of product catalogs, brochures, data sheets, ordering guides, planning guides, manuals, and release notes in .pdf format can be downloaded.

FAQ Database — Solutions to problems and troubleshooting efforts can be found by searching our Frequently Asked Questions (FAQ) database.

Software Downloads — Download software updates, drivers, and patches.

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END-OF-LIFE PRODUCT RECYCLING NOTICE

Grass Valley's innovation and excellence in product design also extends to the programs we've established to manage the recycling of our products. Grass Valley has developed a comprehensive end-of-life product take back program for recycle or disposal of end-of-life products. Our program meets the requirements of the European Union's WEEE Directive, the United States Environmental Protection Agency, and U.S. state and local agencies.

Grass Valley's end-of-life product take back program assures proper disposal by use of Best Available Technology. This program accepts any Grass Valley branded equipment. Upon request, a Certificate of Recycling or a Certificate of Destruction, depending on the ultimate disposition of the product, can be sent to the requester.

Grass Valley will be responsible for all costs associated with recycling and disposal, including freight. However, you are responsible for the removal of the equipment from your facility and packing the equipment to make it ready for pickup.



For further information on the Grass Valley product take back system please contact Grass Valley at + 800 80 80 20 20 or +33 1 48 25 20 20 from most other countries. In the U.S. and Americas please cal 800-547-8949 or 530-478-1148, and ask to be connected to the EH8S Department. Additional information concerning the program can be found at: www.grassvalley.com/about/environmental-policy



Hardware Setting

This section describes the part names of STORM 3G, the procedures for mounting STORM 3G and then for installing EDIUS.

Part names

STORM 3G Main board (STORM 3G) rear panel



[3] Reference input connector (REF IN)

[4] SDI input connector (SDI IN)

[5] Remote connector (REMOTE)

STORM 3G Expansion board (HTX-OP1) rear panel (Optional)



[1] TIME CODE input connector (TC IN)

[2] Reference output connector (REF OUT1/REF OUT2)

Connect this terminal to the REF IN terminal of the main board with the attached BNC cable.

Setting the Main Board

Before board setting, be sure that your work area is dust-free and dry. Prepare a Philips 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.
- See the instruction manual for your PC (motherboard) for the PCI (PCI Express) slot type.
 Set the main board (STORM 3G) in the PCI Express slot (PCI Express x4).
 * When PCI Express x4 is not available, either PCI Express x8 or x16 can be used.

1 Tightly set the main board in PCI Express slot.



• The main board should fit in the 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 HTX-OP1 (Optional)

1 Securely insert HTX-OP1 into PCI (PCI Express) slot.



- HTX-OP1 can be inserted into both the PCI slot and the PCI Express slot. When you cannot insert the HTX-OP1 into the slot because of its protruding edge, cut the edge before inserting the HTX-OP1.
- **2** Connect the main board and HTX-OP1 with the attached board connection cable.



Board connection cable

3 Connect the REF OUT terminal of HTX-OP1 and the REF IN terminal of the main board with the attached BNC cable.



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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.

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.



Output from sound board

Connect the audio cable to the terminal of sound board.



Installing EDIUS

Install EDIUS after mounting STORM 3G. For details on the installation procedure, see the Installation Guide of EDIUS.

Confirmation after installation

Confirming resource (in Windows 7/Windows Vista)

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

1 Proceed to "Hardware and sound" from "Control Panel" of "Start" menu.

In Windows Vista, proceed to "System and Maintenance" from "Control Panel" of "Start" menu.

2 Click "Device Manager".

3 Double-click "Sound, video and game controllers".



4 Confirm the device names.

• [STORM 3G]

If you find ! or X mark at the top of device name, that means you failed installing STORM 3G 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.

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 Double-click "System" from "Control panel" of "start" menu.

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".



4 Confirm the device names.

• [STORM 3G]

If you find ! or X mark at the top of device name, that means you failed installing STORM 3G 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.

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.

EDID Monitor

When installing EDIUS with a Grass Valley product mounted to the PC, the driver, and the application software in package (EDID Monitor) are installed at the same time.

EDID Monitor is software to check the video display ability, the number of receivable audio channels, and other information of the monitor device connected to STORM 3G with an HDMI cable.

Section 3

Starting Up EDIUS and Creating New Project

Project file is the largest unit for editing EDIUS works. A project file contains information such as the edit process or the video format.

This section describes the operation when you start up EDIUS for the first time and how to create a new project.

- POINT
 The enclosed USB key must be attached to the PC's USB port in order to use EDIUS.
 Once you have executed the following must be accepted to a start or start or
 - procedures, the operation to start up EDIUS and to create a new project partly differs from that of the first time. Refer to EDIUS User Reference Guide for details.

Starting Up EDIUS

Start up EDIUS and specify the saving destination of project files.

1 Double-click the EDIUS icon on the desktop.



When you start up EDIUS for the first time after installation, "Folder Settings" dialog box appears.

2 Click [Browse] and specify the saving destination folder of project files.

It is recommended to specify a saving destination in a drive other than the one in which your operation system is installed.



3 Click [OK].

Created projects are saved in the specified folder after performing the preceding steps.

The "Start Project" dialog box appears.

Creating a New Project

Set the format of the project to be created, and store it as a project preset.

1 Click [New Project] in the "Start Project" dialog box.



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Section 3 — Starting Up EDIUS and Creating New Project

When you start up EDIUS for the first time, "Create Project Presets" wizard appears.

2 Check one or more items for "Size", "Frame Rate", and then "Bit", and click [Next].

Configure the settings for video size, frame rate, and video quantization according to the format of the project to be created in EDIUS. You can also check one or more check boxes for an item.

Create Project	Presets	×
Select the vid	eo size and frame	arate
Size	-Frame Rate	Bit
🗹 нр	☑ 59.94	⊠ 868
🗆 SD	50	🗹 10ы:
🗹 DV	🗹 59.94p	
	🗆 50p	
	🗆 29.97p	
	🗌 25p	
	🗌 23.98p	
	\sim	
< 6	lack Next >	Cancel
		-

3 Check the items on the list.

The list of the formats corresponding to the conditions set in step 2 appears.

The project presets of the checked formats are created. Remove the check of unused format if necessary.

Create Project Presets	
The following project presets are added:	
Math Math <t< th=""><th></th></t<>	
< Back Completed Canc	4

4 Click [Completed].

The "Project Setting" (Simple Settings) dialog box appears and then the icon of created project preset appears in the "Presets List".

Then, you can create a new project.

5 Enter a project name to "Project name" field in "Project file".

Project Settings						×
Project file						
Project name)			
Folder	E: VEDIUS					
	Create folder v	with project name				
Presets List					Description	
HD 1080	HD 1080	HD 720	HD 720	SD	Video Frame Size : 1920 x 1080 Frame Rate : 29,97	Â
HD 1920x1080 59.94 16:9 8bit	HD 1920x1080 59.94 16:9 10bit	HD 1280x720 59.94p 16:9 10bit	HD 960x720 59.94p 16:9 8bit	DV 720x480 59.94 16:9 8bit	Field order : Upper Field Quantization Bit Rate : 8Bit Audio	=
SD	HD 1080	HD 1080	HD 1080	HD 1080	Quantization Bit Rate : 24 Bit Channel : 8 Setup	
DV 720x480 59.94i 4:3 8bit	HD 1440x1080 59.94i 16:9 8bit	HD 1440x1080 59.94i 16:9 10bit	HD 1280x1080 59.94i 16:9 8bit	HD 1920x1080 59.94p 16:9 8bit	Render format : Canopus HQ A TC preset : 00:00:00;00 TC mode : Drop frame	
Customize					OK Cano	el

6 Select a project preset and click [OK].

A new project file opens in the selected project preset setting.



Section 4

Setting Editing Environments

This section describes how to store the information of the connected devices used for capturing or printing to tape, and how to configure the devices used while editing.

Before editing, configure the following editing environments.

Storing Device Presets

Store and manage the connection information of Grass Valley products and external devices which are used for capturing or printing to tape (cameras, decks, web cameras, and microphones) as the device presets. By using the device presets stored, Input/Output can be operated smoothly when capturing or printing to tape. This section describes how to store a device preset by an example when STORM 3G is used for input/output.

1 Connect the device used for input/output to STORM 3G.

For HTX-OP1, connect the devices to HTX-OP1 if necessary.

2 Click "Settings" on the menu bar and click "System Settings".



3 Click the "Hardware" tree and click "Device Preset".



4 Click [New].



"Preset Wizard" appears.

Section 4 — Setting Editing Environments

5 Enter the device preset name.



6 Click [Select Icon], select the image of the icon, and then click [OK].

To use an image you like, click [...] and select the desired file.

7 Click [Next].

Preset Wizard			
Name Icon Settie	202		_
Traino, roott ootti	-90 -		
	Name		
	Device Preset 1		
= 0			
	Select Icon		
		K Back Next >	Cancel

The screen to configure the connection information for input and to configure the format settings is displayed.

8 Click the pulldown of "Interface" and select "STORM 3G" from the list.

The names of the mounted products are displayed in the "Interface" list. Select the interface to use for input.

Preset Wizard	×
Input H/W, Fo	mat Settings
Interface	STORM 3G
Stream	S01 in Settings
Video Format	[8bx] 1920x1080 59.94p 🗸
Codec	Uncompressed
File Format	AVI
Audio Format	48000Hz/8ch/24bt
Audio Input	SDI/HDMI/1394 embedded
	Convert 168k/2ch
	< Back Next > Cancel

POINT • When connecting an HDV device to the IEEE1394 terminal on your PC, select "Generic HDV", when connecting a DV device to IEEE1394 terminal on your PC, select "Generic OHCI", and when inputting from a video capture device or an audio capture device based on DirectShow, select "DirectShow Capture". When you do not use any interface for input, select "Not Select".

Section 4 — Setting Editing Environments

9 Click [Settings].



The input setting screen of STORM 3G appears. When EDIUS recognizes an input device used for capturing, the video from the input device is displayed on the upper part of the screen.



For details on the setting when inputting with interfaces other than STORM 3G, refer to EDIUS User Reference Guide.

10 Click the "Settings" tree and click an item to set.

11 Set each item.

Configure the input setting of STORM 3G. Click [Apply], and then configure another item.

Sync Settings

Configuring Sync Settings synchronizes the monitor output device used for capturing with STORM 3G. STORM 3G is always synchronized with the input signal from the external devices.

 Settings 	Sync Settings
Sync Settings Video Output Settings	Sync Mode* REF Input Sync 👻
Input Control Setting:	SIGNAL OK SYNC OK
	Tri-Level HD H-shift* 200
	B8 HD H-shift* 200
	SD H-shift* 200
	REF Signal Output
	BB NTSC 🗸
	Default*
	OK Cancel Apply

Section 4 — Setting Editing Environments

Sync	Mode
------	------

Select a sync signal from "REF Input Sync" and "Input Sync". "NO SIGNAL/SIGNAL OK" indicates whether a reference signal which can be synchronized with the current output video format is detected. If the reference signal is not detected (NO SIGNAL), the sync system will be automatically switched to internal sync, and "SYNC OK" is displayed. When "REF Input Sync" is selected, if the output format is HD, STORM 3G can be synchronized via the signals of both "Trilevel" (tri-level sync) and "BB" (Black Burst). If one of the signals is detected, the box for the corresponding signal ("Tri-level" or "BB") will light in green. If the output format is SD, only "BB" is available. * Horizontal Shift Adjustment In the "HD H-shift" box adjacent to "Tri-Level", input a horizontal-shift adjustment value for the tri-level sync signal during HD output. In the "HD H-shift" box adjacent to "BB", input a horizontal-shift adjustment value for the BB signal during HD output. In the "SD H-shift" box, input a horizontalshift adjustment value for the BB signal during SD output.

REF Signal Output

Set this item if you are using an optional board HTX-OP1.

Select a format to output the REF signals from "BB NTSC", "BB PAL", "Tri-Level 1080/59.94i", "Tri-Level 1080/50i", "Tri-Level 1080/23.98PsF", and "Tri-Level 1080/24PsF".

Default

Restore the default settings.

Video Output Settings

The settings of a monitor output device used for capturing.

- Settings	Video Output Settings
Sync Settin Video Outpu Audio Outpu Input Contr	Analog Output Settings Ut Settings rol Settings Component Level* DETACION
	Component Gain*0
	SD(8) Output Setting* VTC Output* ● Multi Format INTSC PAL ● 1080 when 1080p SD Orky If the 1 16 19 ○ SD Orky If the 2 18 21
-	Default*
Analog O	Output Settings
N	lot available.
SDI(B) O	utput Setting
N	lot available.

VITC Output

Line 1, Line 2

Set the number of VITC output lines in the input field of adopted video standard (NTSC/ PAL).

Component Output Setting

Not available.

Default

Restore the default settings.

Audio Output Settings

The settings of a monitor output device used for capturing.

Settings	Audio Output Settings	
- Sync Settings - Video Output Settings - Audio Output Settings - Input Control Settings	Audio Monitor* Set the channel for audio monitoring Ch 1/2	HDMI Audio Output Settings*
	Balanced Audio Output Settings* Output Headroom[dB] CH-1 20	Output Level[dBm]
	CH-2 20	
	CH-4 20	
4 <u> </u>		Default*
	ОК	Cancel Apply

Audio Monitor

Select the audio channel to monitor.

HDMI Audio Output Settings

Specify the output from the HDMI connector. Select if 8 audio channels are to be output or the 2 channels specified as analog audio channels are to be output.

Balanced Audio Output Settings

Not available.

Default

Restore the default settings.

Input Control Settings

The settings of an input device used for capturing.

Settings Sync: - Vide - Aude - Inout	Settings Output Settings Output Settings Control Settings	Impact Control Settings Control Oharne* R5422 REMOTE Use TC Input Terminal* Use TC Input Terminal* Capture Prerol Time* 5 Becond(c) Default*
		CK Cancel Acciu
Contro	ol Port	
	Not av	ailable.

Section 4 — Setting Editing Environments

Control Channel

Select whether to use RS-422 remote control.

Use TC Input Terminal

Set this item if you are using an optional board HTX-OP1. Apply the priority to TC input terminal to get timecode.

Check Deck Control

Check if the deck connected to REMOTE terminal can be controlled by EDIUS when using RS-422 remote control.

Capture Preroll Time

Set the preliminary operation time (preroll) before capturing begins.

Default

Restore the default settings.

12 Click [OK].

13 Click the pulldown of "Video Format" and select the video format of the source data to be captured from the list.



14 Click the pulldown of "Codec" and select the codec to be used for capturing from the list.

Depending on the selected codec, the detailed codec settings are available by clicking [Settings].

Preset Wizard		×
Input H/W, F	rmat Settings]
Interface	STORM 3G	
Stream	SDI in Settings	
Video Format	[8bit] 1920x1080 59.94p	
Codec	Canopus HQ Settings	
File Format	AVI	
Audio Format	48000Hz/8ch/24bit	
Audio Input	SDI/HDMI/1394 embedded	
	Convert 168t/2ch	
	< Back Next > Cancel	

15 Configure the other items if necessary and click [Next].

The screens for configuring the connection information or format at outputting is displayed.

16 Click the pulldown of "Interface" and select "STORM 3G" from the list.

The names of the mounted products are displayed in the "Interface" list. Select the interface to use for output.

Preset Wizard		
Output H/W,	Format Settings	
Interface	STORM 3G	•
Stream	Output	Settings
Video Format	[8bit] 1920x1080 59.94p	
Audio Format	49000Hz/8ch/24bt	-
Audio Output	This item cannot be selected	
	< Back	kot.> Cancel

Section 4 — Setting Editing Environments

POINT • When printing to tape of a DV device using IEEE1394 terminal on your PC, select "Generic OHCI". When not using the interfaces for outputting, exporting to an HDV device, or printing to tape of a device not controlled by deck, select "Not Select".

17 Click [Settings].



The output setting screen of STORM 3G appears. Color bar is displayed on the upper part of the screen. When the output video format is specified properly, color bar is displayed also in the output devices.

Settinga	×
 Settings Sync Settings Video Output Settings 	Sync Settings Sync Mode* RE! Input Sync
Audio Output Setting Output Control Settin	SIGNAL OK SYNC OK
	BB H0 H-shift* 200 SD H-shift* 200
	REF Signal Output
	BB NTSC 👻
	Default*
	OK Cancel Apply

For details on the setting when outputting with interfaces other than STORM 3G, refer to EDIUS User Reference Guide.

18 Click the "Settings" tree and click an item to set.

19 Set each item.

Configure the output setting of STORM 3G. Click [Apply], and then configure another item.

Sync Settings

Configuring Sync Settings synchronizes the output device used for printing to tape with STORM 3G. The setting items are the same as that of "Sync Settings" in Step 11.

Sync Settings ► P41

Video Output Settings

The settings of an output device used for printing to tape.

The setting items are the same as that of "Video Output Settings" in Step 11.

Video Output Settings►P43

Audio Output Settings

The settings of an output device used for printing to tape.

The setting items are the same as that of "Audio Output Settings" in Step 11.

Video Output Settings ► P44

Output Control Settings

The settings of an output device used for printing to tape.

Collins of	0	
Svnc Settings	Output Control Settings	
Video Output Settings	Control Port* Device Built-in	
Audio Output Setting	Control Channel* RS422 REMOTE	
Output Control Setun		
	VCR Constants	
	VCR ID(V) 0000 Check for Deck ID	
	VCR	
	Edit Delay 00	
	E-E Delay 00	
	Start Delay 00 Load Default Presets	
	Edit Settings	
	Preroll Time* 5 second(s)	
	Postroll Time* 5 second(s)	
	FirstEdit Pre-Rec Time* 30 second(s)	
	Default*	
	OK Cancel Apply	
O and and D and		
Control Port		
Not av	ailable.	

STORM 3G — Setup Guide

Control Channel

Select whether to use RS-422 remote control.

Check Deck Control

Check if the deck connected to REMOTE terminal can be controlled by EDIUS when using RS-422 remote control.

VCR Constants

VCR ID(V)

VCR Constant 1 byte1 and byte2 are displayed. For SONY decks, the deck ID (including model/mode) is displayed.

Check for Deck ID

Click it to load VCR ID (deck ID) from the connected deck.

VCR

Display the deck name corresponding to the VCR ID (only ID and deck names which are set as preset). If there are multiple decks with the same ID, all the decks are displayed.

Edit Delay

VCR Constant 1 Byte 6 is displayed. If the deck is not in the preset, enter manually.

E-E Delay

VCR Constant 1 Byte 5 is displayed. If the deck is not in the preset, enter manually.

Start Delay

VCR Constant 2 Byte 2 (Data 10 depending on the VCR) is displayed.

If the deck is not in the preset, enter manually.

Load Default Presets

Initialize the edit delay, E-E delay, and start delay with the preset values.

Section 4 — Setting Editing Environments

Edit S	ettings
	Preroll Time Set the preliminary operation time (preroll).
	Postroll Time Set the post operation time (postroll).
	FirstEdit Pre-Rec Time Set the draft (margin) length at FirstEdit (storing the control signals as the standard point for editing at the top of the tape automatically).
Defau	It
	Restore the default settings.

20 Click [OK].

- **21** Click the pulldown of "Video Format" and select the video format of output destination.
- **22** Configure the other items if necessary and click [Next].
- 23 Check the contents and click [Completed].



The icon of the created preset appears in the device preset list.



24 Click [OK].

For details on the procedure of capturing and exporting with a device preset, refer to EDIUS User Reference Guide.

Setting a Preview Device

External devices such as a monitor, which is connected to a PC and used for checking while editing, or Grass Valley products can be managed as preview devices and the detailed settings can be configured. This section describes how to set STORM 3G as a preview device and configure the detailed settings.

1 Connect the device used for editing to STORM 3G.

For HTX-OP1, connect the device to HTX-OP1 if necessary.

2 Click "Settings" on the menu bar and click "System Settings".



Section 4 — Setting Editing Environments

3 Click the "Hardware" tree and click "Preview Device".

System Settings		;
Application	Preview Device	
Hardware Device Preset Preview Device H Importer/Exporter Ffecte		Settings
	✓ STORM 3G - Output	
	Generic OHCI - Output	=
Input Controller		
III Input Controller		

4 Click "STORM 3G - Output".

Select the preview device to be used.

System Settings		х
Application Hotel Preset Device Pr	Preview Device State 4 control State 4 contro State 4 contro State 4 control State 4 control State 4 c	
		OK Cancel Apply

A check mark appears on the side of the device name.

• When "Use Pulldown Format when Available" is checked, the system operates in pulldown (2-3-2-3) regardless of "Pulldown Type" of the current project setting. Check it when the monitor does not support the progressive format.

5 Click [Settings].



The detailed setting screen for the preview device appears.

Color bar is displayed on the upper part of the screen and also on the monitor of the preview device.



• When the preview device is not compatible with the video format set in the current project setting, a warning message appears. Modify the project setting according to the preview device.

6 Click the "Settings" tree and click an item to set.

Section 4 — Setting Editing Environments

7 Set each item.

Configure the detailed setting for the preview device. Click [Apply], and then configure another item.

Sync Settings

Configuring Sync Settings synchronizes the monitor output device used for editing with STORM 3G. The setting items are the same as that of "Sync Settings" in Step 11 of "Storing Device Presets".

Sync Settings►P41

Video Output Settings

The settings of a monitor output device used for editing.

The setting items are the same as that of "Video Output Settings" in Step 11 of "Storing Device Presets".

Video Output Settings► P43

Audio Output Settings

The settings of a monitor output device used for editing.

The setting items are the same as that of "Audio Output Settings" in Step 11 of "Storing Device Presets".

Audio Output Settings ► P44

8 Click [OK].

9 Click [OK].

Section 5

Hardware Specifications

STORM 3G Main Board (STORM 3G)

Bus I/F		PCI Express x4 (rev 1.1)
Input/ Output connectors	HD/SD-SDI input	BNC ×1 Video: In compliance with SMPTE 292M, 259M-C Audio: In compliance with SMPTE 299M, 272M-A
	HD/SD-SDI output	BNC ×1 Video: In compliance with SMPTE 292M, 259M-C Audio: In compliance with SMPTE 299M, 272M-A
	HDMI output	HDMI [™] Mini Connector x1 (LPCM 8-channel audio supported)
	Analog audio output	Internal connector ×1 Unbalanced stereo
	Reference input	BNC ×1 NTSC/PAL black burst or HD tri-level sync
	VTR control	D-SUB 9-pin ×1 RS-422A

Section 5 — Hardware Specifications

External dimensions	167.65 (W) x 111.15 (H) mm, excl. PCI bracket	
Weight	Approx. 170 g (Incl. PCI bracket)	
Maximum consumption current	+3.3V/0.5A, +12V/1.6A	
Operating temperature	0-45C°	
Operating humidity	10-80% (*no condensation)	

STORM 3G Expansion board (HTX-OP1)(Optional)

Input/ Output connectors	Reference output	BNC ×2 NTSC/PAL BB or HD tri- level sync NTSC-BB: -286 mV PAL-BB: -300 mV HDTV: ±300 mV			
	TC input	BNC ×1 Time Code 0.5 to 18 Vp-p, 10 kΩ, unbalanced			
External dimensions	90 (W) x 106.65 (H) mm, excl. PCI bracket				
Operating temperature	0-45C°				
Operating humidity	10-80% (*no condensation)				

有毒有害物质含有表

This information is applicable for People's Republic of China only. 产品中有毒有害物质或元素的名称及含量

部件名称	有毒有害物质或元素							
	铅 Pb	汞 Hg	镉 Cd	六价铬 Cr(VI)	聚溴联苯 PBB	聚溴二苯醚 PBDE		
电缆	0	0	0	0	0	0		
外壳	0	0	0	0	0	0		
焊锡	0	0	0	0	0	0		
电路板	0	0	0	0	0	0		
电子元件	×	0	0	0	0	0		

STORM 3G / HTX-OP1

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