

HIGH DEFINITION DIGITAL RECORDING SYSTEM



September 25, 2007



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🔲 Cautions

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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, 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. Windows VistaTM Home Basic, Windows VistaTM Home Premium, Windows VistaTM Business, Windows VistaTM Ultimate are called Windows Vista Home Basic, Windows Vista Home Premium, Windows Vista Business, Windows Vista Ultimate respectively, or Windows Vista.

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Chapter 1

Introduction

1 Before Using

Notices & Warranties

Notices & Warranties

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This product is covered by a limited warranty when you register your Grass Valley product. This warranty is for a period of one year 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.

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 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:	711 Charcot Avenue, San Jose, CA 95131
Telephone:	408-954-4500
Declares that product Model:	HDRECS
complies with Part 15 of the F	FCC Rules.

Support

Customer Support

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

Web-site

Including Pegasus, the latest company information is announced at our website:

http://www.canopus.com/

The latest drivers utilities, product manuals, FAQs, etc. are also available at our web-site.

Online User Registration

You can register your Pegasus here. http://www.canopus.com/support/

System requirements

PC

A PC/AT compatible machine with the following specifications:

• CPU: Intel Pentium 4 2.8GHz or higher

PCI Express bus

Requires a bus slot with the following specifications:

• A PCI Express x1

CD-ROM

• Required for software installation

Memory

• 1GB (2GB or more recommended)

HDD

- Requires a 500MB or larger drive for software installation
- Requires a serial ATA 3Gb/s, 7200 rpm drive for capturing

Graphic

- 1024×768 dpi resolution 32 bit or higher color
- Must support DirectX 9.0c

Supported OS

- Microsoft Windows Vista Home Basic/Home Premium/Business/Ultimate 32 bit
- Microsoft Windows XP Home Edition/Professional (SP2)

Sound

• Requires an internal 4-pin audio input connector to output preview audio.

Chapter 2

Setup

Hardware installation

Installing the board

Before installing the board, be sure that your work area is dust-free and dry. You will need a screwdriver and an empty box to hold the removed screws. The following items are required.

• Pegasus board



• Analog RGB conversion cable



Component conversion cable



• Audio cable (4pin-4pin)



Composite conversion connector



Attaching the ferrite core

Attach the ferrite core to the Analog RGB conversion cable in the position shown below.



Attaching the gaskets

Attach the gaskets to the Pegasus board in the position shown below.



Shut down the PC and turn the power off.

2 Remove all cables, including the power cable.

Make a note of which cables connect to which connectors when removing them.

3 Remove the PC cover.

Refer to the PC manual on how to do this.

- **4** Remove the PCI Express slot cover (PCI Express x1) position to place your Pegasus board.
- * Refer to your PC manual on the different types of PCI Express slots.
- * The removed slot cover will not be used during installation. Keep the cover in a safe place.



- **5** Confirm the availability of a slot in which to install the Pegasus board. Confirm the following:
- * If the PCI Express x1 slot is not available, the Pegasus board can be installed in either an empty x4 or x8 PCI Express slot.
- * Be sure not to damage the PCI Express x1 connector on the Pegasus board as it may be damaged by impact or excessive pressure.
- **POINT** The Grass Valley board should fit into the PCI Express slot without having to use any significant force. If the board cannot be fully inserted, avoid forcing or bending any part of the board. The board is designed to fit a standard PCI Express slot. If the board does not seem to fit when trying to insert it, do not attempt to force it into the slot. If the board does not easily fit into the slot, try using the other PCI Express slots, or contact your PC or motherboard manufacturer.



7 Slide the Pegasus board firmly into a PCI Express slot and temporarily secure it.





POINT For more details on audio output (from an on-board sound device or sound board), see "Audio output" on page 12.

9 Confirm that the board and the cables are properly connected, and screw in the bracket that secures the board.

10 Replace the PC cover.

1 Reconnect the cables, including the power cable.

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Audio output

The following are specifications of the (4pin-4pin) audio cable:

Red: Right channel (R)

White: Left channel (L)

Black: Ground (G)



Audio cable (4pin-4pin)

For audio output, use the attached (4pin-4pin) audio cable to connect the sound output device and the mainboard.

* Attach the (4pin-4pin audio cable) branched-connector cable with different connector types and wiring specifications. Connect the single end to the mainboard and the branched end to the sound output device. Use a connector that complies with the connector type and wiring specifications of the destination connection. If you cannot use the attached (4pin-4pin) audio cable, separately prepare another cable.

Output from an on-board sound device

Connect the audio cable to the terminal on the motherboard.

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



Output from the sound board. Connect audio cables in here:



Part names

Mainboard rear panel



[1] Analog audio input port (stereo mini-jack)

[2] S-VIDEO input port

* A composite signal can be input when the supplied composite conversion connector is used.

[3] Component input connector

Use the supplied component conversion cable for the connection.

[4] RGB input port

Use the supplied RGB conversion cable for connection.

[5] HDMI input port

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2 Installation/Uninstallation

Installing the HQ RECORDER

- **NOTE** When you boot the PC after installing the board, the "Found New Hardware Wizard" dialog will appear. Select the [Cancel] button in the dialog.
 - Before starting the installation, close all other applications that are running in the task tray.
 - Installation requires logging on to the PC as an administrator (such as the PC administrator).

This manual explains the procedures used in the Windows Vista environment.

Place the application CD into the CD-ROM drive.

If the application does not start automatically, open the CD, and double-click "setup.exe" in the [Applications] folder.

The "InstallShield Wizard" dialog will appear.

- * In the Windows Vista environment, if the user account control dialog appears, click [Continue].
- 2 Click [Next].



3 To accept the license agreement, choose [I accept the terms of the license agreement] and click [Next].





NOTE Be sure to read the terms and conditions by scrolling through the entire text.

4 Specify the folder in which to install HQ RECORDER and click [Next].

Click [Browse] and select an alternative folder to which to install the program, if you do not want to use the default folder.

HQ RECORD Choose D Select fo	ER - InstallShield Wizard Petination Location kder where setup will install files.
	Instal HQ RECORDER to: C-VProgram Files/Canopus/HQ RECORDER Change
InstallShield -	
	< Back Cancel

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5 Click [Install].



6 The driver software installation confirmation dialog will appear. Click [Install this driver software ([Continue Anyway] for Windows XP)].

[Windows XP]

Hardware Installation		
1	The software you are installing for this hardware: HORECS has not passed Windows Loop testing to verify its compatibility with Windows XP. [Leftine skyth is testing is monotent.] Continuing your installation of this installation may impair or destabilize the correct operation of your system either immodiately or in the future. Microsoft strongly recommends that you stop this installation now and passed Windows Loop testing.	
	Continue Anyway	

7 Select "Yes, I want to restart my computer now" and click [Finish].



The PC will restart and the HQ RECORDER installation is complete.

Installing the Attached Application Software

Install the attached application software, if necessary.

Application CD contents

The following contents are provided on the application CD.

Adobe	Where Adobe Reader is stored.
Applications	Where the setup for the capturing application, HQ RECORDER, is stored.
CodecOption	Where the setup for the software codecs is stored. CodecOption is automatically installed during HQ RECORDER setup. To play a file captured by HQ RECORDER on another PC, install CodecOption.
Drivers	Where the setup for Pegasus(HDRECS) drivers is stored.
Manual	Where support documents are stored.

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Uninstallation

Uninstalling the driver and HQ RECORDER

- **NOTE** Before starting uninstallation, close all other applications that are running in the task tray.
 - Uninstallation requires logging on to the PC as an administrator.

In this manual, the procedures used in the Windows Vista environment are explained.

1 Select [Control Panel] from the [start] menu and click [Uninstall a program]([Add or Remove Programs] for Windows XP).



2 Select [HQ RECORDER] and click [Uninstall] ([Remove] for Windows XP).



3 On Windows Vista, the User Account Control dialog may appear. Click [Continue].

4 Click [Yes].

HQ RECORDER - InstallShield Wizard	x
Do you want to completely remove the	selected application and all of its features?
	<u>Yes</u> <u>No</u>

Uninstallation starts.

5 Select "Yes, I want to restart my computer now" and click [Finish].



The PC will restart and uninstallation is complete.

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Chapter 3

Using HQ RECORDER

What is **HQ RECORDER**?

HQ RECORDER is capturing application software, designed specifically for Pegasus.

HQ RECORDER is registered in the startup menu, making it memory-resident when the PC boots up. While HQ RECORDER is running, its icon will always be displayed in the task tray. Along with the resident state, HQ RECORDER has several states including capturing, previewing and available to capture. When the HQ RECORDER is resident, you can suspend your PC (sleep,

standby mode), so that HQ RECORDER activates to execute timer recording.

NOTE	•	While HQ RECORDER is running, Grass Valley EDIUS cannot be run.
------	---	---

- When you want to run EDIUS, terminate HQ RECORDER, or switch it to resident mode and minimize it to the task tray.
- Similarly, HQ RECORDER cannot be run while EDIUS is running. Terminate EDIUS, before running HQ RECORDER.
- While EDIUS is running, timer recording cannot be executed.

HQ RECORDER Main Screen

🐯 HQ RECORDER		_ 🗆 ×
Preset	((1)) Canopus HQ 1920x1080/59.94i	
	(2)	
(3) (4)		9) (10)
11)) Folder C:\D	ocuments and Settings\Owner\My Documents	
12)Filename		

(1) Preset	Click the [Preset] button and select the input source and format to capture. While HQ RECORDER is capturing or preparing to capture, the preset cannot be changed.
(2) Preview Window	If the selected format can be previewed, the image will be displayed in this window. Double-clicking on the preview window will switch between full-screen and windowed display.

Contents

	GreenAvailable to captureRedCapturingYellowPreparing to captureGrayUnable to capture
	* When copy protection, such as Macrovision and CGMS-A, is detected the following icon will be displayed.
	While the video can be previewed, and audio can be monitored, the "available to capture," (Green), option will be disabled. Gray Unable to capture Yellow Preparing to capture (When the [Capture start] button is pressed, the status changes to "preparing to capture," but capturing will not start.)
(3) Status	* If the input source audio cannot be captured, the
	 If the input source addio cannot be captured, the following icon will be displayed. While audio can be monitored, it will be muted when captured. Green Available to capture Red Capturing (audio will be muted) Yellow Preparing to capture Gray Unable to capture * If the input source cannot be monitored (an incompatible format for Pegasus to play, input via HDMI), the following icon will be displayed. While audio can be captured, it will be muted when captured. Green Available to capture Red Capturing (audio will be muted) yellow Preparing to capture Green Available to capture Green Available to capture Grey Unable to capture
(4) Elapsed time	Displays the elapsed time since the capturing started.
(5) [Capture start] button	Click this button to start capturing.
(6) [Stop capture] button	Stops capturing. If this button is clicked when a scheduled capture (timer recording) is in standby mode, the schedule (recording timer) will be canceled.

(7) [Open configuration dialog] button	Opens the hardware settings dialog.	Conten	
(8) [Open schedule list dialog] button	Specifies settings for timer recording. The schedule list dialog is displayed.	ts Introd	CHAP-
(9) [Open file] button	Opens the captured file with Media Player.	uction	TER 1
(10) [Exit application] button	Closes the main screen.	Setup	CHAPTER 2
(11) Folder	Displays the destination folder where the recorded file will be stored. To change/choose the destination folder, click the [] button.	Using HQ RECORDER	CHAPTER 3
	When HQ RECORDER is started, the folder that was selected when HQ RECORDER was last terminated, will be displayed. By default, the "My Documents" folder is selected.	Settings	CHAPTER 4
(12) Filename	Specify the name of the recording file. When this is not specified, the file name will be generated automatically from the date and time.	Appendix	CHAPTER 5

B Capture operation

There are three methods of capturing with the HQ RECORDER.

•Auto capture

Captures automatically, detecting the input signal.

•Manual capture

Captures manually. Two methods for manual capture are a way of starting and ending manually and a way of starting manually and ending automatically by specifying the capturing duration or ending time.

Scheduled capture

Captures according to the specified date/time.

NOTE To prevent the PC from going into standby mode during capturing, modify these settings including the screensaver setting.

PRINT The capturing operation

- The captured file is created in the folder specified at the [Folder] field. When a name for the captured file is not specified, the date/time information is utilized to generate a file named "mmddhhmmss.avi," where (m:month, d:date, h:hour, m:minute, s:second).
 - If a file with the same name exists, a dialog will appear, prompting you to overwrite it or rename it with serial numbers.
 - During capturing, all operations other than stopping, menu operations and switching to full screen/normal screen, are disabled. Each button is grayed out, indicating that the button is unavailable.
 - During capturing, the application cannot be terminated.

Scheduled Capture

- While capturing is in progress, other scheduled capturing will not start.
- As soon as the current capturing stops/ends, scheduled capturing will start.
- During both scheduled and manual capturing, when the stream is interrupted without stopping the process, the captured file will be divided and stored with a serial number.
- When the [Stop capture] button is pressed during scheduled capturing, the capturing stops, even though an unprocessed section still remains. The remaining schedule will be ignored.
- The ending time of the scheduled capture can be modified with Capture Duration in the popup menu of the task tray icon.

Auto capture

Captures automatically, detecting the input signal.

1 Click the Input preset and choose an input source and a capturing format.

* Note that the video signal should not be input at this point.



2 Specify the destination folder and file name.



3 Click the [Capture start] button

Capturing is paused.

4 When an input signal is detected, the capturing starts.

- * Once the input signal breaks, the captureing stops.
- * When the capturing duration is specified, the capturing continues for the duration.

Manual capture

Capturing manually.

Click the Input preset and choose an input source and a capturing format.



2 Specify the destination folder and file name.



3 Click the [Capture start] button

Capturing starts.

4 Click the [Stop capture] button.

You can set capturing to end automatically by specifying an ending time or a duration. (See "Capturing time settings" (page 36))



The schedule settings dialog opens.

Schedule dialog

Current schedule	The starting time and the name of the schedule currently being executed will be displayed.
Next schedule	The start time and the name of the schedule to be executed next will be displayed.

LIST

Title	Displays the schedule name. A file recorded in scheduled capture will be saved with this name.	
Start date	Displays the starting date of the schedule.	
Start time	Displays the starting time of the schedule.	
Duration	Displays the duration of the scheduled capture.	
Туре	Displays the type of the scheduled capture: One time, Daily or Weekly.	
Input	Displays the Input preset.	
Status	Displays the status of the scheduled capture as valid or invalid.	

Buttons

Add	Creates a new schedule. The schedule settings dialog opens.
Delete	Deletes the selected schedule. (Multiple items can be selected)
Edit	Edit the selected schedule. The schedule settings dialog opens.
ОК	Closes this dialog.

Configure the schedule (date, day of the week, start time, duration) and click [Next].

Schedule		×
◯ <u>D</u> ne time ◯ <u>D</u> aily	⊙ <u>W</u> eekly	
Start date 2007/09/30 (S	iunday) 🔽 🔽 Sunday(()	
End date 2007/10/31 (We	ednesday) 🔽 🗖 Monday(1)	
- ☑ Specify end d	ate Tuesday(2)	
Start time 14:26:57 🏩	AM PM M S	
14:27:57		
End time		
Duration 00:01:00 😭		
		_
1	< Back Next > Cancel	

One time Choose this option to execute capturing only one according to a schedule.		
Daily	Choose this option to execute capturing every day, according to a schedule.	
Weekly	Choose this option to execute capturing on a specific day of the week at the specified time, according to a schedule.	
Start date	Specifies the date when the scheduled capture starts.	
End date	Specifies the date when the scheduled capture ends.* This option is displayed when the [Specify end date] checkbox is checked.	
Specify end date	Check this option to specify the ending date of the schedule. * This option is displayed when [Daily] or [Weekly] is selected.	
Day of the week	If [Weekly] is selected, the day of a week can be selected. (Multiple items can be selected.)	
Start time	Specifies the time to start capturing.	

End time	Specifies the time to end capturing.	
Duration	Specifies the capturing duration. Up to 23 hours 59 minutes 59 seconds can be specified.	

Buttons

Back Not used.			
Next	Opens the [Profile] dialog.		
Cancel	 When adding a schedule Cancels the schedule without adding it. When editing a schedule Does not update changes. 		

4 Specify the schedule name and the destination folder, and then click [Finish].

Profile		×
Title	070930	
Folder	C:\Documents and Settings\Owner\My Documents	
□ <u>S</u> pecify	y input and format	
	< <u>B</u> ack Finish Cancel	

POINT

To capture video in a format different from the one selected on the main screen, check [Specify input and format] and choose the preset to use.

When the starting time of a schedule arrives, the capturing starts automatically in the specified capturing format.

Jrie 070330 Eolder C\Documents and Setting\/Owner\My Documents Specify input and format DMI Canopus H0 1920x1080/63 94	Profile	
Ecider C:\Documents and Setting:\Downer\My Documents	Tile	070930
Specify input and format HDMI Canopus HQ 1320x1080/53 94	<u>F</u> older	C:\Documents and Settings\Dwner\My Documents
HCMI Canopus H0 1320x1080/53 34	☑ <u>S</u> pecify	riput and format
	Cano	HDMI pus HQ 1920x1080/59.94i
Kack II Finish II Cancel		C Back Finish Cancel

5 The created schedule is added to the schedule list dialog.

ſ	Schedule								×
	Current schedule		No sche	dule			007/08/30) 14:28:19	
	Next schedule		09/30 1	4:26:57 07	0930				
			date	Start time	Duration	Туре	Input	Status	
	070930	200	7/09/30	14:26:57	01Min	Weekly(номі	Enabled	
Ì	Add		Delete		Edit			ОК	

6 Click [OK].

When the specified time arrives, capturing starts.

To make the PC enter a suspended state after scheduled capturing ends

To make the PC enter a suspended state (Standby/Sleep) after scheduled capture ends, use the following settings.

 Click the [Open configuration dialog] button and open the "Environment Settings" dialog.



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- **2** On the Application settings dialog, check [On resident mode go to suspend mode when schedule capturing is finished].
- * For detailed information on switching to a suspend state, see page 40.

Application Application settions	Application settings			
Hardware HQ CODEC Parameters	Application Settings			
	Wait time for start of capturing		1minute	
	On tesident mode go to sus capturing	spend mode when is finished.	i schedule	
	Action of suspend mode	Go to suspe	end mode	
	Wait time for going to suspend		30seconds	
	Video Overlay Settings-	Direct3D9		
	Update period		Field	•
	To apply these changes, you nee	ad to restart HQ R	ECORDER.	
	Audio Setting			
	☑ _onvert 16Bit/2ch.			
		ОК	Gancel	As

POINT The settings can also be modified from the popup menu (only during a scheduled capture).

Right-click on the task tray icon, and check [Go to suspend mode] in the popup menu.



- The system can only be automatically switched when HQ RECORDER is minimized to the task tray. The system will not be suspended when the preview screen is being displayed, when capturing is in progress, or when the system is standing by for scheduled capturing.
 - If the system is set to be suspended after scheduled capturing ends, a message saying "in () seconds, will be suspended " appears in the task tray icon. Click on the message, or use the task tray icon to cancel suspending the system.

Scheduled capturing from a suspended state

To execute scheduled capturing from a suspended PC system, complete the following:

1 Create a schedule in the schedule settings dialog.



2 Close the main screen and minimize HQ RECORDER to the task tray.

3 Suspend the PC to standby or sleep mode.

• To activate scheduled capturing when the system is suspended, suspend the PC with HQ RECORDER minimized to the task tray. You can specify the delay time, if it takes too long to start scheduled capturing after the PC is activated again. You can specify after how many seconds the PC should start up before the specified schedule, in [Wait time for start of capturing] (see page 40) on the settings dialog.

Capturing time settings

Capturing duration and the ending time can be specified/edited. If the capturing duration is specified, it will be retained as long as the PC is running.

1 Right-click the icon shown at the task tray on the bottom right of the desktop.



2 Choose [Capture Duration] from the menu that is displayed.



3 Specify the ending time of the capture or the capturing duration and click [OK].



Ending time settings

Free Run	Does not specify an ending time.
Duration	Specifies the capturing duration in the format (HH: MM:SS. H:Hour, M:Minute, S:Second) This setting is not cleared, even when capturing ends.
End Time	Specifies the ending time. (HH:MM:SS. H:Hour, M:Minute, S:Second)

Task tray icon and menu

Task tray icon

Four kinds of task tray icons indicate the current status of HQ RECORDER. When the PC starts, the resident state icon will be displayed. Clicking the task tray icon will display the main menu.

The icon shown on the task tray will change color in accordance with its status.

- White The preview screen is not displayed.
- Red Capturing.
- Blue Receiving a signal that can be captured.
- Gray The preview window is displayed or HQ RECORDER is preparing to capture.

Menu

Right-clicking on the task tray icon will display a popup menu.

Start Capture	
Stop Capture	
Capture Duration	
Open Schedule List	
🖌 Go to suspend mode	
Version Information	
Exit	
;≝⊘∀∎	2:35 PM
Start Capture	Starts capturing with the selected input presets.
Stop Capture	Stops capturing.
Capture Duration	Specifies/edits the ending time of a capture.
Open Schedule List	Opens the schedule capture dialog.
Go to suspend mode	Specifies if the PC will be suspended (standby/sleep) once a scheduled capture has completed. (Available only when scheduled capturing is in progress.) For more information, see "Settings."
Version Information	Displays the current version.
Exit	Terminates the application.

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5 Log file

Capturing information is stored in a log file named "user name-yyyymmdd.log" where (y:year, m:month, d:date).

To open the log file, right-click on the application, and choose [Open Logfile] from the menu being displayed.

🕅 HQ RECORDER	۱	A	Restore		– 🗆 ×
Preset	Canopus HQ	-	Move Size Minimize Maximize		
		×	Close	Alt+F4	
	_		About HO RECORDER.		
			Open Logfile		
	:-:		• •		
Folder	C:\Documents and Settin	ngs\	Owner\My Documen	ts	
Filename	REC_070930				

From HQ RECORDER, you can open only the log file that was created on the day capturing occurred. Log files that were previously created are stored in the "C:\Documents and Settings\user name\Application Data\Canopus\HQRECORDER" folder with the name "user name-YYYYMMDD.log".

Chapter 4

Settings

1 Application settings

Environment Settings	× · · · · · · · · · · · · · · · · · · ·
Application	
Application settings Hardware	Application settings
Screen Settings General Settings	CApplication Settings
	Wait time for start of capturing Iminute
	On resident mode go to suspend mode when schedule capturing is finished.
	Action of suspend mode Go to suspend mode -
	Wait time for going to suspend mode 30seconds .
	C ^V ideo Overlay Settings
	Video display type Direct3D9 .
	Update period Field
	To apply these changes, you need to restart HQ RECORDER.
	-Audio Setting
	☑ Convert 168it/2ch.
	OK Cancel Apply

Application settings

Wait time for start of capturing	Specifies the standby duration before scheduled capturing starts. When HQ RECORDER is in standby mode for scheduled capturing, other operations that modify the scheduled capturing settings or that cancel scheduled capturing are not available.
On resident mode go to suspend mode when schedule capturing is finished.	Check this option to suspend the PC (standby or sleep) when scheduled capturing ends, with HQ RECORDER minimized to task tray. The PC will not be suspended when a preview is being displayed, when HQ RECORDER is standing by for scheduled capturing, or when capturing is in progress.
Action of suspend mode	 Choose this to switch the PC to standby or sleep mode. * In an environment that does not support sleep mode, the "sleep" option is unavailable.
Wait time for going to suspend mode	Choose a duration until the PC is suspended, once scheduled capturing ends.

Video Overlay Settings

 $\ast~$ To make the changes take effect, you have to restart HQ RECORDER.

Video display type	Choose the video format.	
Update period	Choose the overlay update intervals.	

Audio Settings

Check this option to convert audio to 16Bit/2ch. Some editing software only supports 16 bit audio. To edit the captured video with those software, the audio must be converted from 24 bit to 16 bit. In order to retain the compatibility of the created file, we recommend that you do not uncheck this
file, we recommend that you do not uncheck this option (keep it in 16 bit format).

2 Screen Settings

Screen

* Available only for Composite, S, Component or RGB input

Environment Settings *		Environment Settings ×		
Addison docarion entrogi kaona inana entropi oneral entropi oneral entropi	Commission Brytress* 51 Grates* 10 Bartes* 10 Bartes* 10 Seatstor* 10 Grates* 00 Grates* 00 Grates* 00 Des Reactor* 10 Des Rea	Anykolon Angkaron ketong Nacharo Seneral Secong General Secong	Some Sating	
	OK (prod 2007)		OK Cancel Apply	

<Composite, S, Component>

<RGB>

Brightness	Adjusts the brightness. The smaller the value, the darker the video will be, while the larger the value, the brighter it will be.
Contrast	Adjusts the video contrast. The smaller the value, the less the contrast will be, while the larger the value, the greater the contrast will be.
Hue	Adjusts the hue. The smaller the value, the more intense the red element will be, while the larger the value, the more intense the green element will be.
Saturation	Adjusts the color depth. The smaller the value, the fainter the color will be, while the larger the value, the deeper the color will be. When the value is set to 0 (the minimum), the video will be completely in gray scale.
Sharpness	Adjusts the sharpness of the video. The smaller the value, the blurrier the edges will be, while the larger value, the sharper the edges will be.
Setup Level	Specifies the NTSC setup level (black level). Set it to 0IRE in Japan and 7.5IRE in North America.

Gain Control	Adjusts the luminance. Set this to [Manual] to specify the setting manually. Set this to [Auto] to automatically adjust the luminance.
Y/C Separation	Specifies whether or not 3D Y/C separation is active.
Noise Reduction	Specifies the level of noise reduction.
Default	The default value is marked with an "*".

POINT	•	The settings are saved for each input source.
IUMI	•	Options that cannot be modified are not available as presets.

Position

Horizontal	Adjusts the screen position horizontally.
Vertical	Adjusts the screen position vertically.

B General settings

Canopus HQ Codec Settings

Online(SuperFine)	Not used.
Online(Fine)	This is the highest quality setting, but the resultant file will be large. Choose this option if you need to capture video of the highest quality.
Online(Standard)	Normally, sufficient video quality can be obtained with this setting.
Offline	Not used.
Custom	When checked, [Q] and [Max Size] will be available for adjustment.
Q	Adjusts the quality. While the setting range is 4 to 19, the smaller the value, the higher the video quality will be.
Max Size	Adjusts the maximum bitrate. A video that contains a great deal of noise may be unnecessarily large. To prevent this, adjust this option. The setting value [100] % means the same bitrate as an uncompressed one. For example, with a setting of 1440×1080 60i, 100% is 750 Mbps. To limit this to 200 Mbps, set to [27]%.

Default		The default value in marked with an "*".	
POINT	With both Q a thus fail. Set t	and Max set to small value, encoding may be delayed and his option to a proper value.	Contents

FIR filter

Check this option to disable FIR filter at RGB/	
YUV444 to YUV422 conversion.	

Chapter5

Appendix

Hardware Specifications

Path	PCI Express ver.1.0a 1 lane		
Input port *	Digital video	HDMI typeA \times 1(Ver1.1 HDCP not supported)	
	Analog video	$\begin{array}{l} \mbox{Mini DIN7 pin} \times \mbox{1(Analog component)} \\ \mbox{Mini DIN4 pin} \times \mbox{1(S-video, Composit video)} \\ \mbox{Mini DIN9 pin} \times \mbox{1(Analog RGB)} \end{array}$	
	Analog audio	Stereo mini jack $ imes$ 1	
Output port	Analog audio output	4 pin connector for internal PC connection \times 1	
Current consumption (Maximum)	7.5W		
Temperature range	0 to 45 degrees C		
Dimensions (Projecting parts not included)	153.0(W)× 111.2(H)mm		

* Signals cannot be input simultaneously from each connector.

2 Application specifications

Supported Input resolution *1	HDMI *2	$\begin{array}{c} 1920 \times 1080/59.94,60i \\ 1280 \times 720/59.94,60p \\ 720 \times 480/59.94,60p \\ 720 \times 480/59.94,60i \\ 640 \times 480/59.94,60p \end{array}$	1920 × 1080/50i 1280 × 720/50p 720 × 576/50p 720 × 576/50i
	DVI *2, 3	1280 × 1024/60p *4 1024 × 768/60p 800 × 600/60p 640 × 480/60p	
	Analog component *5	1920 × 1080/59.94i 1280 × 720/59.94p 720 × 480/59.94p 720 × 486/59.94i	1920 × 1080/50i 1280 × 720/50p 720 × 576/50p 720 × 576/50i
	S-video, Composite video *5	720 × 486/59.94i	720 × 576/50i
	Analog RGB	1280 × 1024/60p *4 1024 × 768/60p 800 × 600/60p 640 × 480/60p	
Capturing file format		AVI(Canopus HQ, LPC	(I)
Video	Capturing resolution	$\begin{array}{c} 1920 \times 1080 \\ 1440 \times 1080 (1920 \ 3/4) \\ 1280 \times 1080 (1920 \ 2/3) \\ 1280 \times 1024 \\ 1280 \times 720 \\ 960 \times 720 (1280 \ 3/4) \\ 1024 \times 768 \\ 800 \times 600 \\ 720 \times 576 \\ 720 \times 486 \\ 720 \times 480 \\ 640 \times 480 \end{array}$	

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CHAPTER 5

Audio	Line in, Monitor out *6	Stereo, 24bit/48kHz
	HDMI input *2, 7	LPCM, 24bit/32, 44.1, 48kHz, 2 - 8ch

- *1 Captures in the same resolution that is being input. Up-convert/Downconvert is not supported.
- *2 Video and audio in HDCP format cannot be previewed/captured.
- *3 Can be connected to the HDMI port with a generic HDMI-DVI conversion cable.
- *4 Captured with the video thinned to 30p.
- *5 Video that contains copy control such as CGMS·A, CGMS·D, or Macrovision cannot be captured.
- *6 Audio will be in Unlocked Audio format, when input in Analog RGB or DVI.
- *7 If a mute HDMI signal is input, an AVI file with no audio element will be generated. Audio that contains copy control such as CGMS-A, CGMS-D, or Macrovision cannot be captured.