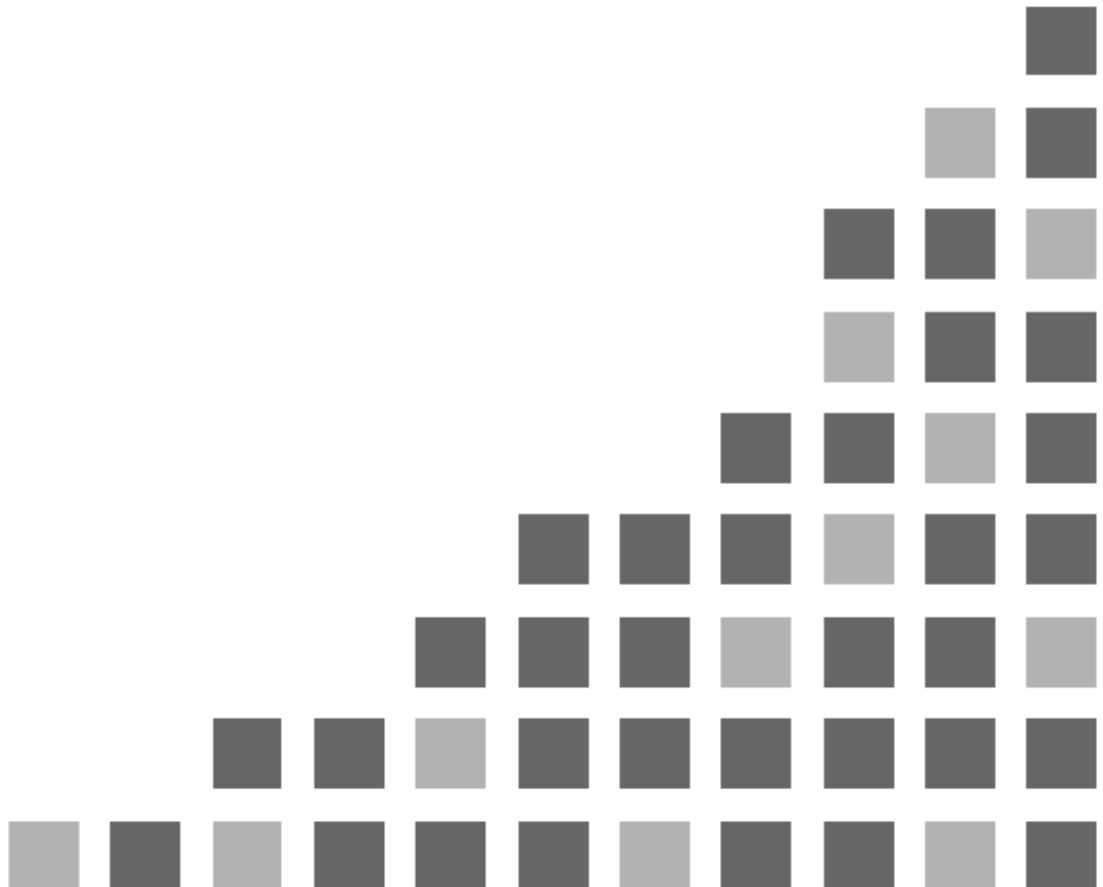


Panasonic

User Guide

P2 Contents Management Software
(Version 1.4)

P2HD



ENGLISH

VQT1 K95-10 (E)

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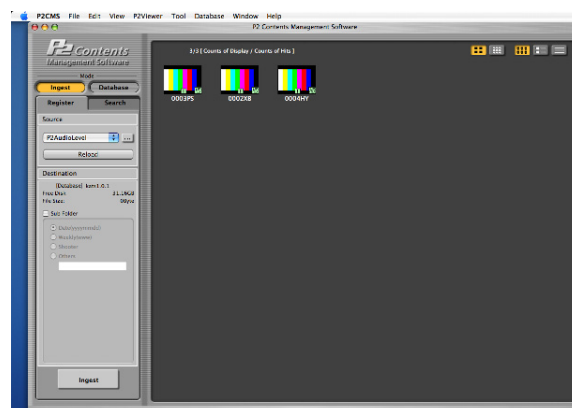
P2 Contents Management Software Ver.1.4

Getting started with

P2 Contents Management Software is the application software that can operate P2 contents in Mac OS X. With sophisticated styling of GUI make you get the most out of P2 contents attraction.

P2 CMS maximize the benefits of IT such as

- **Display P2 contents visual list display and print-out**
- **Ingest P2 contents to database**
- **Search and categorize P2 contents**
- **Play-out P2 contents**
- **Logging P2 contents**
- **Export P2 contents**
- **Back-up P2 contents**
- **Restore P2 contents**



Operational environment

You need the following hardware and operating system software to operate P2 Contents Management Software.

Hardware

- Macintosh computer equipped with Intel Core Duo processor of 2GHz or greater
- RAM : 1GB or greater
- Display of 1,024 x 768 or more
- ✧ Recommended environment to play back AVC-Intra format, and to convert into a DPX file.
 - CPU : Dual CPU configuration quad-core Xeon
 - RAM : 2GB or greater

Operating software

- Intel® based Mac® computers
- Mac OS X 10.5.8 / Quick Time 7.7
Mac OS X 10.6.6 / Quick Time 10.0
*CMS applies to 32bit mode only.

Mac OS X 10.7.2 / Quick Time 10.1

- ✧ When you play back AVC-Intra format, it is necessary to download the AVC-Intra decoder.
- ✧ When you convert into DPX file, it is necessary to download the Plug-in. Please use the latest version that supports the Mac OS to be installed.
- ✧ When you back-up into optical media, it is necessary to install disc burning like a giant hard drive by dragging and dropping content directly onto the disc icon on the desktop to add or remove files.
- ✧ The system was confirmed system operation using BD-RE(25/50GB).
- ✧ The system requirement of the installed software influences the system requirements of this application.

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- Irrespective of whether it was due to a usage error, Panasonic Corporation takes no responsibility for extraordinary, incidental or derivative claims, including those for lost earnings generated by the application of this product.
- Product specifications and contents of this manual are subject to change without notice.
- There is a possibility that the function of this application doesn't operate normally with the upgrade of the operating system and the applied patches, etc. Please update the operating after confirming trouble doesn't occur.
- This manual illustrates to use example of usage of operating system such as Mac OS X Ver.10.6.2. Some part of illustration or GUI may be different from the original.
- Please don't disconnect a cable during exporting, backing up or restoring to a removable medium. Data which is already transferred may disappear.
- Files are copied during ingest, export and so on. Copying is done by OS. So if you finish this application, writing is not always finished yet.
- Drop frames or audio discontinuity may happen at playback. It depends on PC's environment.
- The image displayed according to the codec and the image of the full size still picture might position gap.
- You can change maximum displayed thumbnail number at display area. The more you set display number, the more it takes time to display them. Please select the suitable number for your purpose and environment.

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4. If any of the provisions of this User Agreement is nullified by law, that provision shall remain in effect within the scope recognized by law.
5. The user and Panasonic shall discuss and resolve in good faith any matters not contained in this User Agreement and any doubts on the interpretation of this User Agreement.

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- Some name, company name and product name written in this operational manual are registered trade mark and TM、® mark is not described.
- Other product names or related brand names are trademarks or registered trade marks of their respective company.

Setup

Preparation to Install

Confirm the following packages installed into the system already. If not install the following packages in advance.

- 1. Operating System**

Confirm the current version from Apple Menu with [About Mac].

If the current OS is older than the description in the system requirements, update with the message by clicking [Software Update].

How to install P2 CMS software

Please exit all the applications before installation.

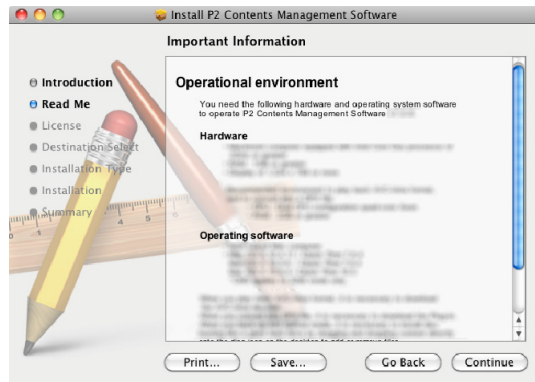
1. The downloaded P2CMSInstaller14.zip file is double-clicked and it expanded. The expanded installer is displayed as shown in the figure below as P2CMSInstaller (It might be displayed as P2CMSInstaller.mpkg). The installation starts when this icon is double-clicked.



2. Click [Continue] after appearing the following screen for explanation of installation.



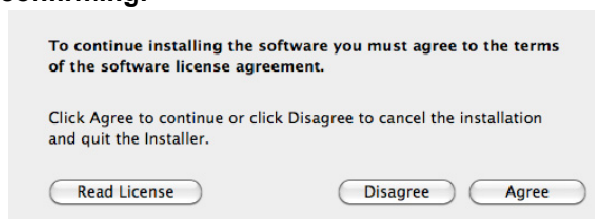
3. Click [Continue] after appearing the following screen for important information.



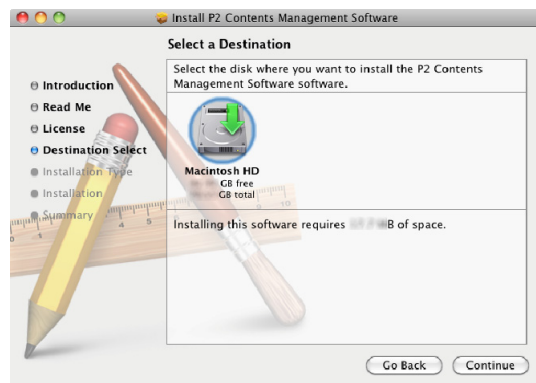
4. Click [Continue] after appearing the following screen for licensing.



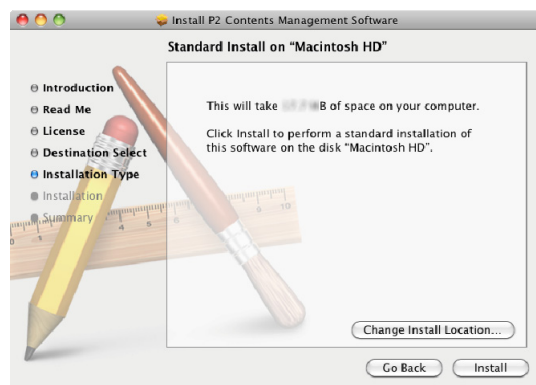
5. Click [Agree] after appearing the following screen for confirming.



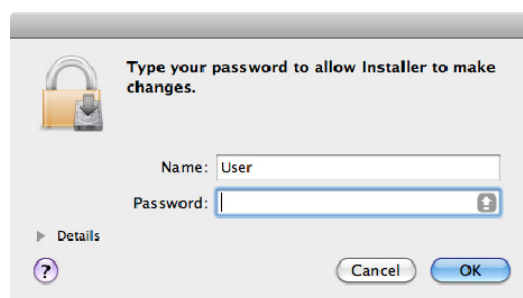
- Click [Continue] after appearing the following screen for displaying the installation volume.



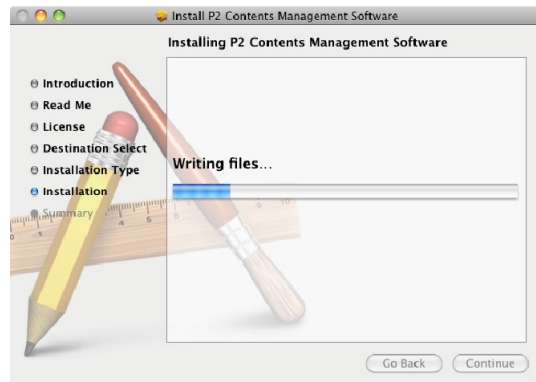
- Click [Install] appearing the following screen for starting.



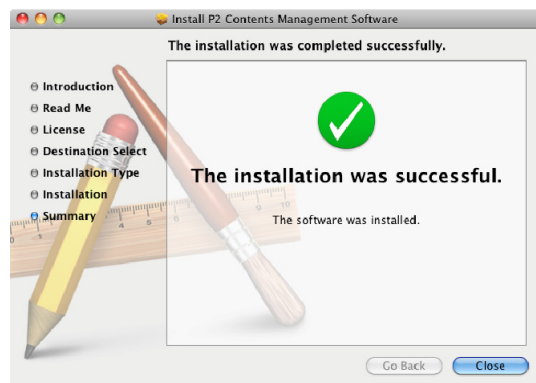
- Click [OK] after inputting the administrator password.



9. Installation started



10. Click [Close] after finishing the installation.



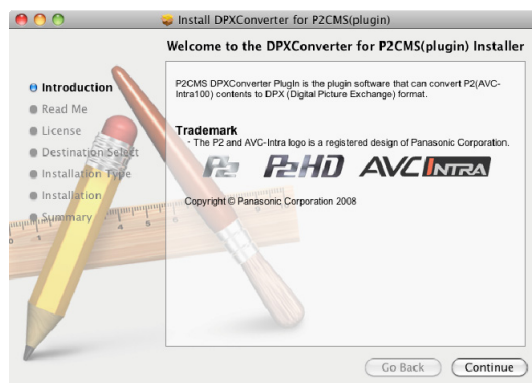
How to install plug-in software

Please exit all the applications before installation.

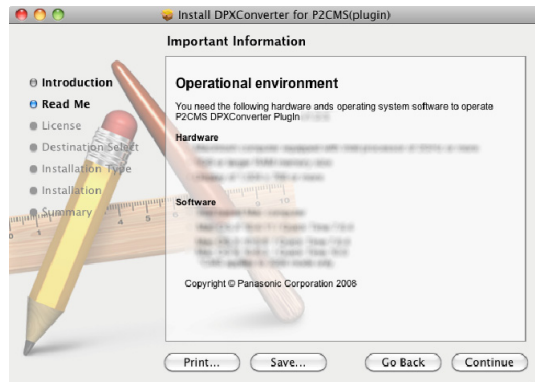
1. The downloaded P2CMSPlugin_DPXConverter12.zip file is double-clicked and it expanded. The expanded installer is displayed as shown in the figure below as P2CMSPlugin_DPXConverter (It might be displayed as P2CMSPlugin_DPXConverter.pkg). The installation starts when this icon is double-clicked.



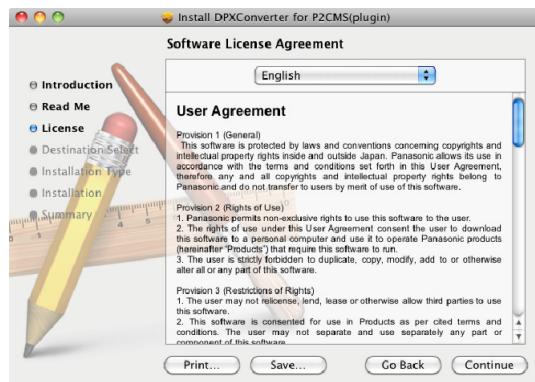
2. Click [Continue] after appearing the following screen for explanation of installation.



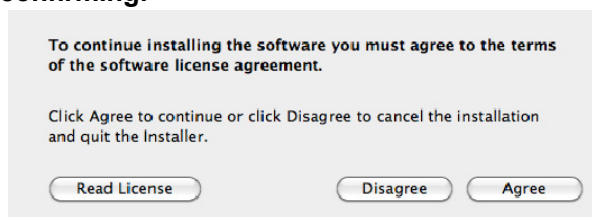
3. Click [Continue] after appearing the following screen for important information.



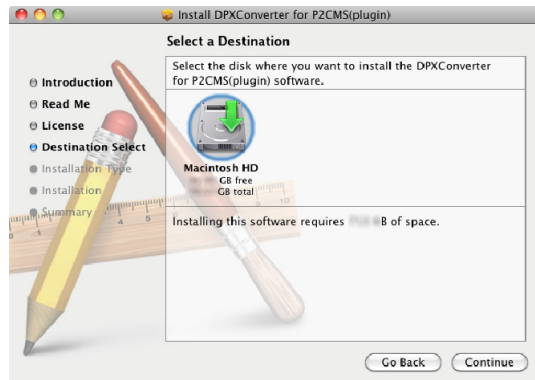
4. Click [Continue] after appearing the following screen for licensing.



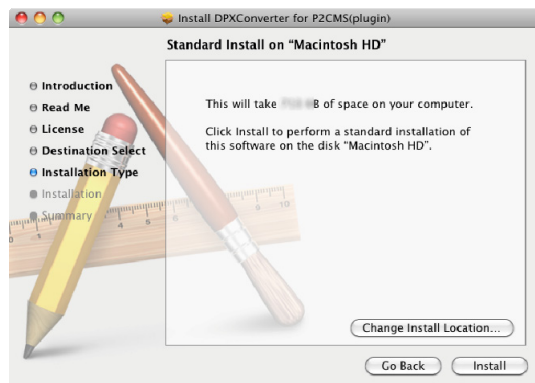
5. Click [Agree] after appearing the following screen for confirming.



- Click [Continue] after appearing the following screen for displaying the installation volume.



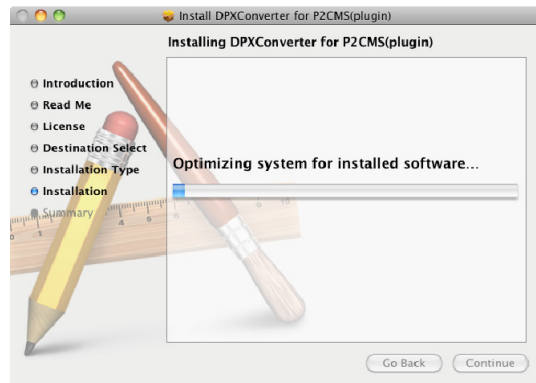
- Click [Install] appearing the following screen for starting.



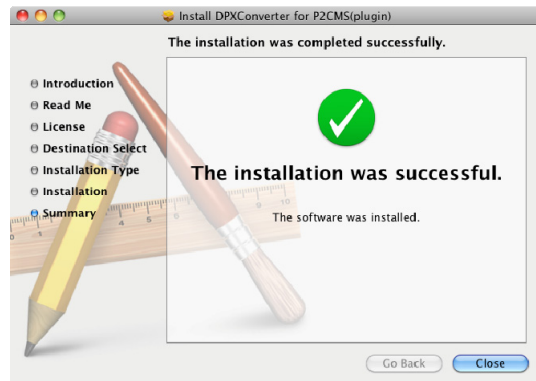
- Click [OK] after inputting the administrator password.



9. Installation started

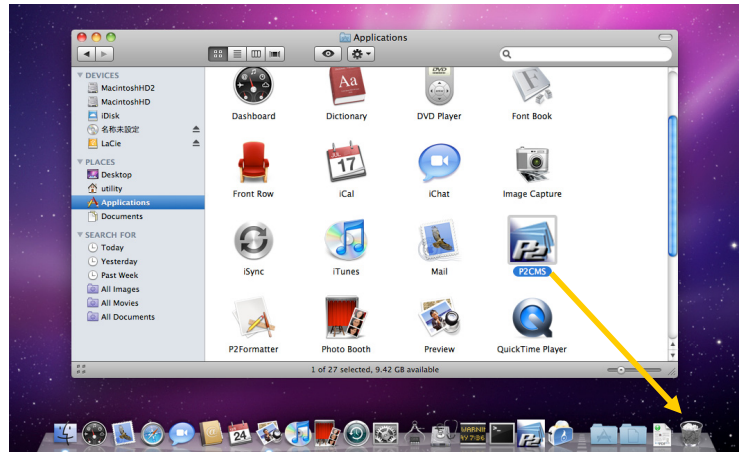


10. Click [Close] after finishing the installation.

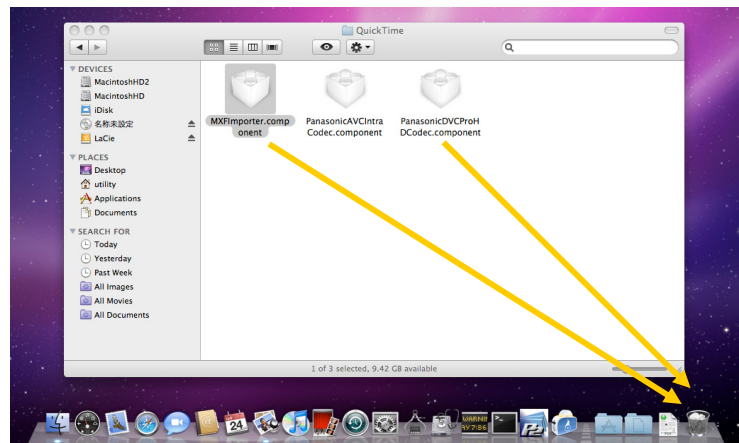


How to uninstall

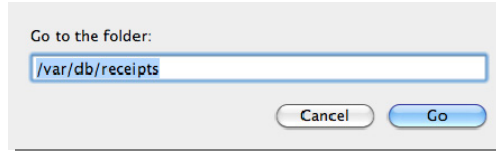
1. Drag the P2CMS in application folder and drop it into the trash box.



2. Drag MXFImporter.component and PanasonicDVCPProHDCCodec.component in [Library]-[QuickTime] in system volume (Macintosh HD usually) and drop it into the trash box.

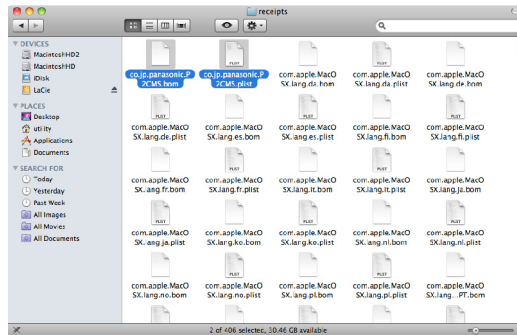


3. Choose [Go]-[Go to Folder] from menu, Click Go button after input “/var/db/receipts” in the text-box.



4. It drags in the trash box if there is the following files.

co.jp.panasonic.P2CMS.bom
co.jp.panasonic.P2CMS.plist
com.panasonic.P2CMS.bom
com.panasonic.P2CMS.plist
com.panasonic.P2CMS.MXFImporter.bom
com.panasonic.P2CMS.MXFImporter.plist
com.panasonic.P2CMS.PanasonicDVCPProHDCCodec.bom
com.panasonic.P2CMS.PanasonicDVCPProHDCCodec.plist



5. Click [OK] after inputting the administrator password.



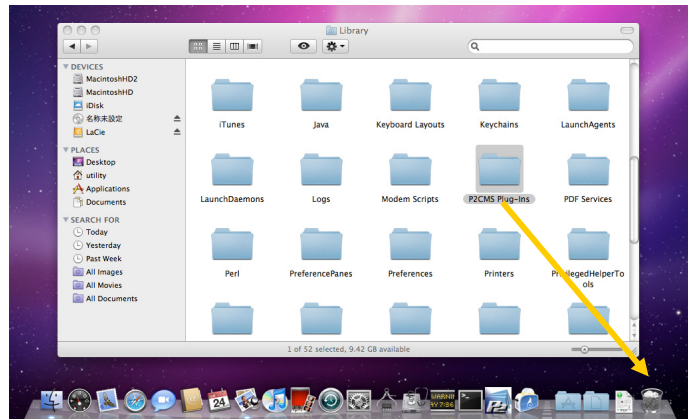
It drags in the trash box if there is the following files in [Library]-[Receipts] in system volume (Macintosh HD usually) and drop it into the trash box on Leopard.

P2CMSInstaller.pkg
p2cms.pkg
mxfimporter.pkg
panasonicdvcprohdcodec.pkg

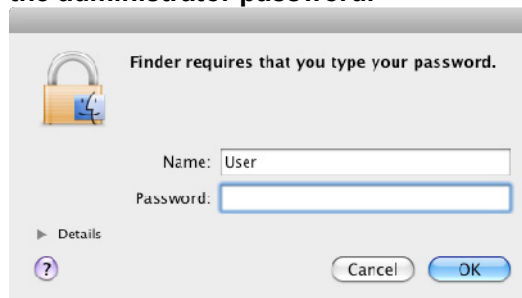
Please delete P2 clips and the database which became unnecessary with a finder.

How to uninstall of plug-in software

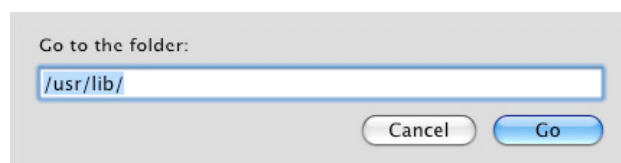
1. Drag [Library]-[P2CMS Plug-Ins] in system volume (Macintosh HD usually) and drop it into the trash box.



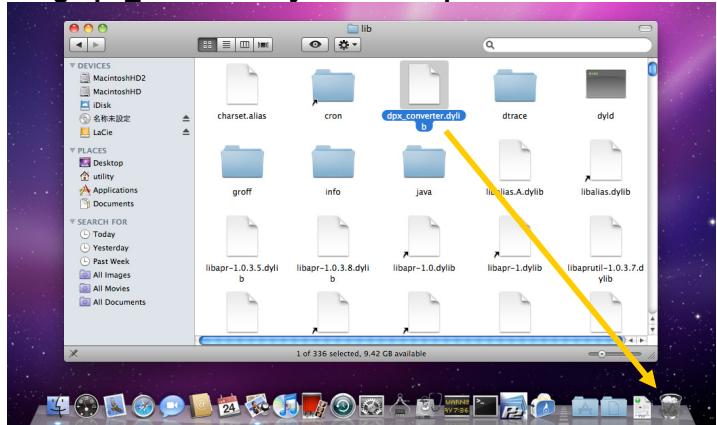
2. If following dialog displayed, Click [OK] after inputting the administrator password.



3. Choose [Go]-[Go to Folder] from menu, Click Go button after input “/usr/lib/” in the text-box.



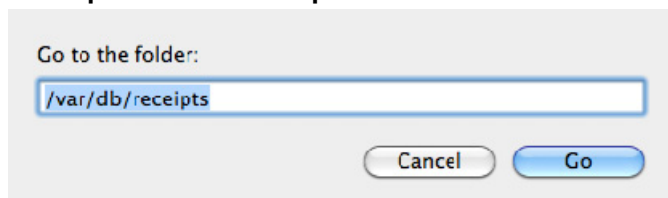
4. Drag `dpx_converter.dylib` and drop it into the trash box.



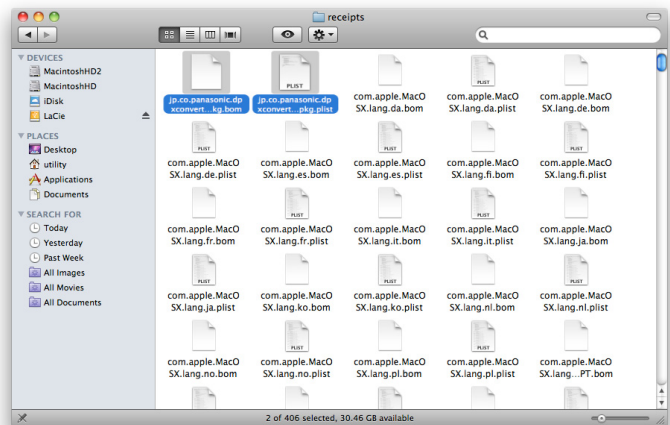
5. Click [OK] after inputting the administrator password.



6. Choose [Go]-[Go to Folder] from menu, Click Go button after input “/var/db/receipts” in the text-box.



7. Drag **jp.co.panasonic.dpxconverterForP2Cmsplugin.Root.pkg.bom** and **jp.co.panasonic.dpxconverterForP2Cmsplugin.Root.pkg.plist** and drop it into the trash box.



8. Click [OK] after inputting the administrator password.



Drag **P2CMSPlugin_DPXConverter.pkg** in [Library]-[Receipts] in system volume (Macintosh HD usually) and drop it into the trash box on Leopard.

How to operate P2CMS

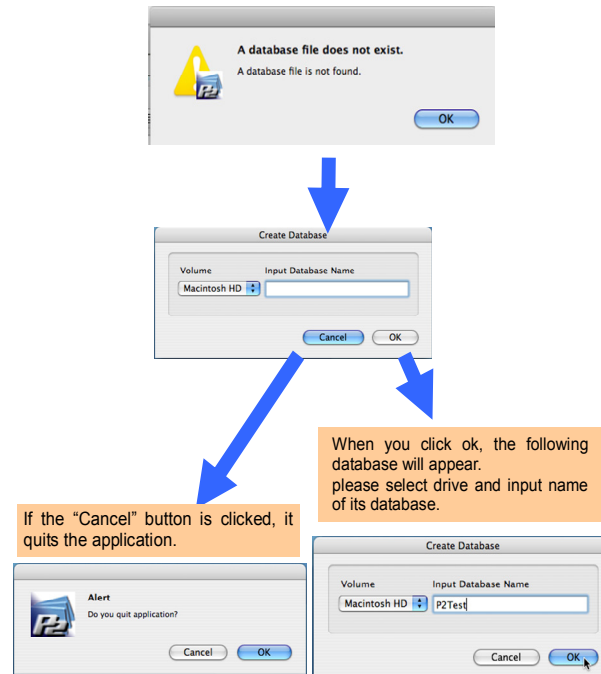
To start and to close

1. How to start



Please double-click P2CMS icon from Finder to start P2CMS.

You have to make database at initial start-up since there is any database, so you will ask to make new one in the following process

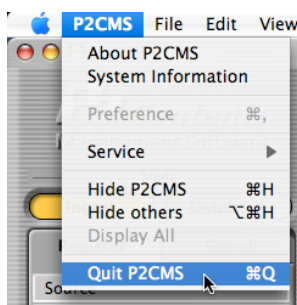


When you click OK button after input database name, Database is made and application starts.

When you click cancel, it will return the previous dialog.

The above window will not appear after second startup.

2. How to close



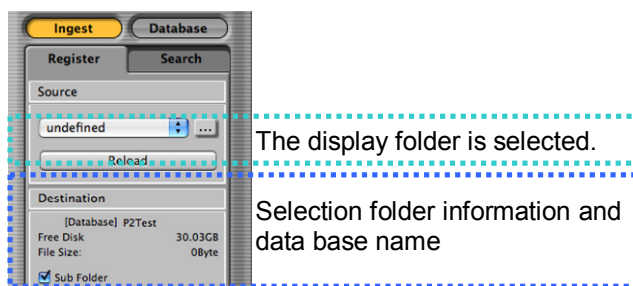
When you choose [P2CMS]-[Quit P2CMS] from menu, P2CMS will be closed down. (⌘+Q is same too.).

To register P2 contents into database

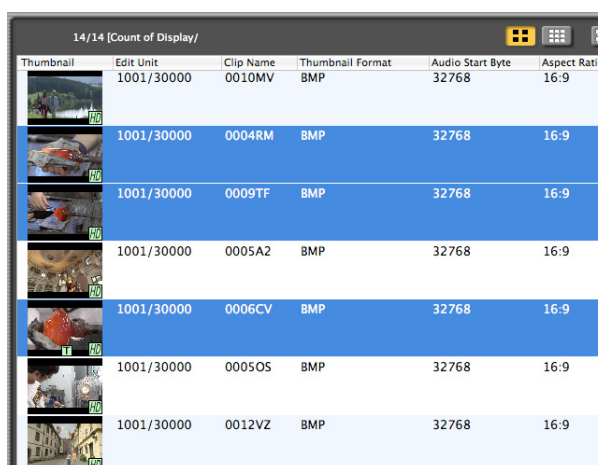
1. **Please select “register tab “in ingest mode.**
When you click “ingest button “, the button’s light is on and “database button’s light is out.



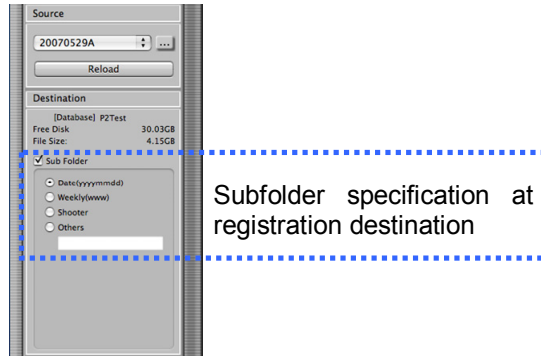
2. **Please select directory where P2 contents are saved.**
You can specify drive from combo box where there are P2 contents folders to ingest. In this explore like combo box, you can even select the directory in network.
When you click “Reload” button, you can also update drive connection to the PC where P2 CMS is running.



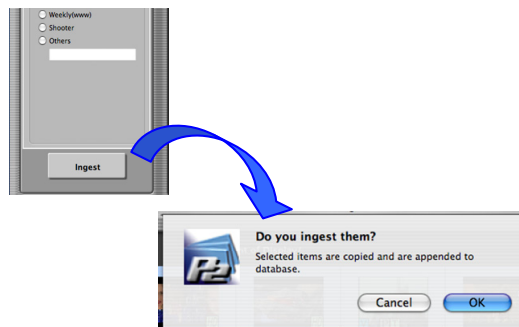
3. **Please select P2 contents to register**
When you click each P2 contents thumbnail, you can select P2contents to ingest and short cut key such as **⌘+A** “select all, **⌘+click** “select clips as you want ,**Shift+click** “is for range specified selection”.



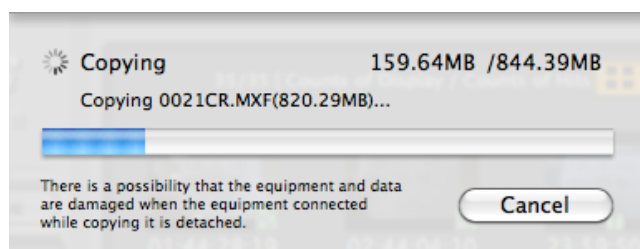
4. **You can set sub-folder to register**
P2 CMS also gives function to specify naming rule.



5. **Please click ingest button.**
Then P2 contents are started to be ingested.

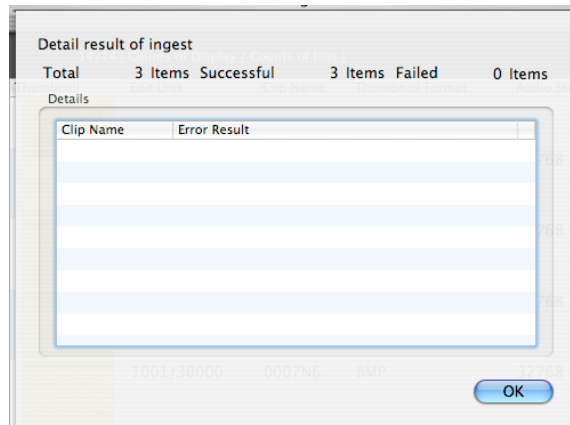


6. **The following Status bar will be appeared.**



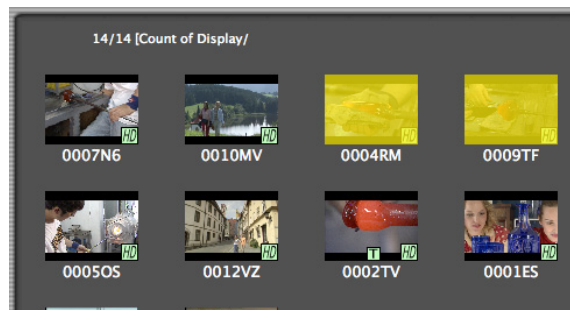
7. Ingest result is displayed when ingest is completed.

Number of P2 contents ingested, failed to ingest and reason to be failed is displayed.



Note) When the spanned clip is ingested, the number of spanned clips is displayed. The number of totals is displayed when a usual clip and spanned clips.

8. When clips are registered in database, these display color are changed.



Search P2 contents

1. **Please click search tab.**

In search mode, you can search in 3 ways.



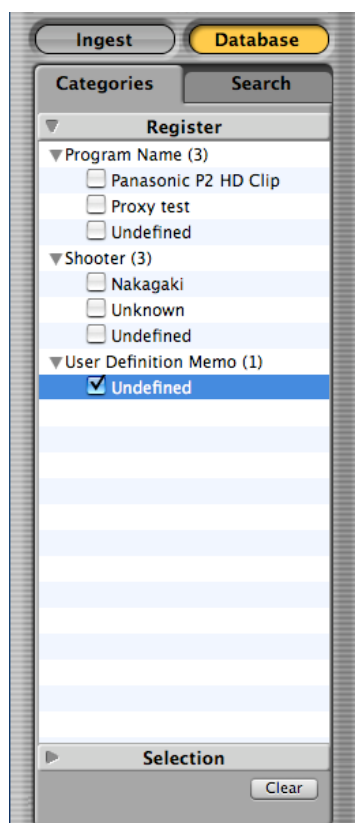
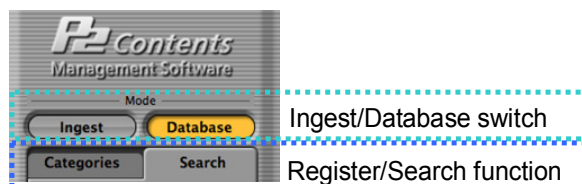
- Full text search
you can search P2 contents by text to hit from all items of P2 metadata.
- Search by category
you can search P2 contents by category of metadata.
- Search by search key
you can search P2 contents by up to 4 search keys.

Remarks: If you search a part of spanned files, it may be displayed as “pink ! clip”.

Categorize P2 contents (Only database mode)

1. You can search P2 contents by category.

These categories are registered automatically from metadata in P2 contents. You can also edit category of P2 contents to drag and drop to this category column. Each category in this column is subject to edit when it is required.

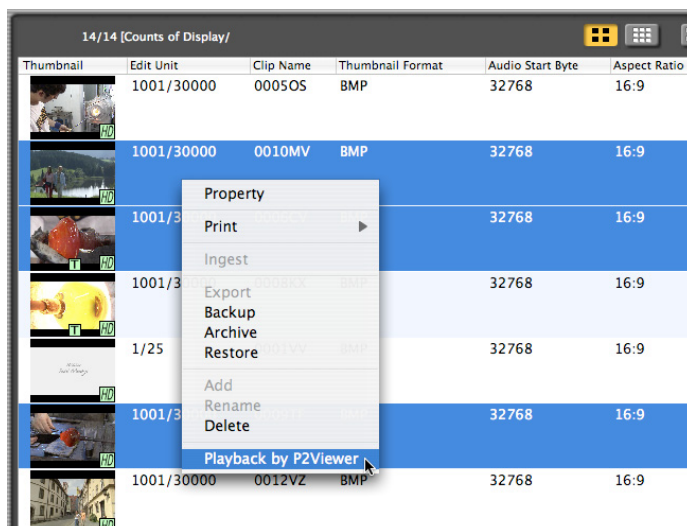


2. You can check each category to search P2contents to be hit.

Preview P2 contents

1. P2 contents are played back from “P2 Viewer window”.

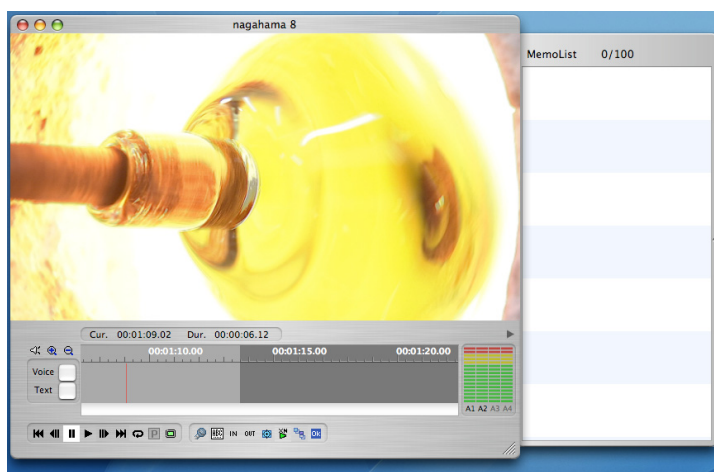
When you want to play back P2 contents in P2 viewer window, please select clip and select P2 viewer → playback by P2 viewer by right click or selecting select P2 viewer → playback by P2 viewer in main menu.



You can playback P2 contents in P2 viewer when you select clips in display. When you select multiple clips, clips are played back by turns.

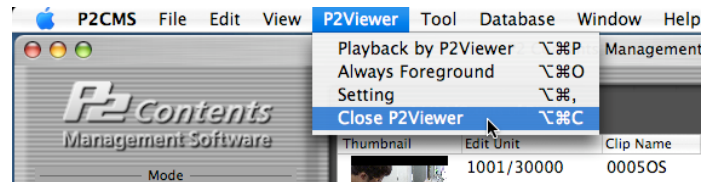
2. P2 Viewer is pop up.

You can playback clips as you can do in P2 viewer software. You also can do logging.



3. How to close P2 Viewer window

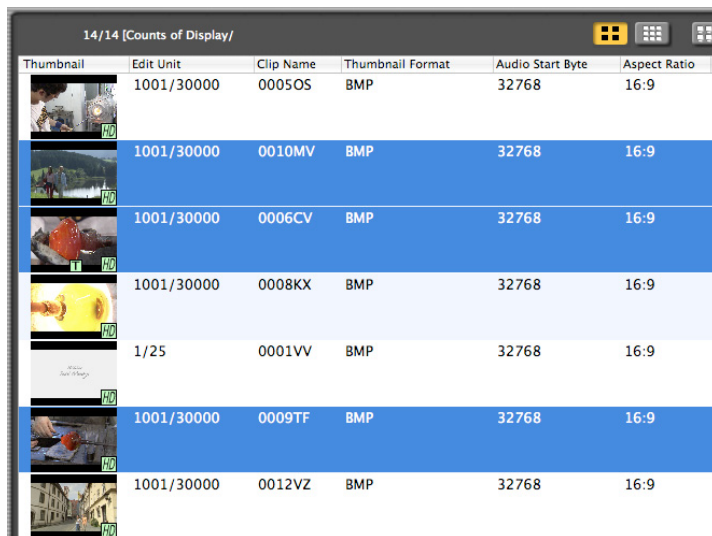
You can close P2 viewer to pull down to “close P2 Viewer” from main menu of P2 Viewer.



How to export P2 contents

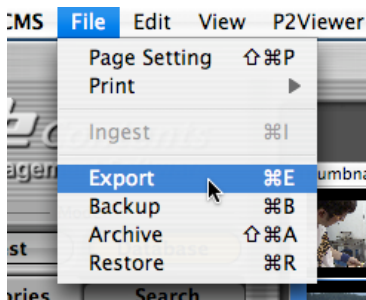
1. Please select clips in display that you want to export.

When you click each P2 contents thumbnail, you can select P2contents to export. Short cut key such as **⌘+A** “select all, **⌘+click** “select clips as you want, “Shift+click “range specified selection are available.

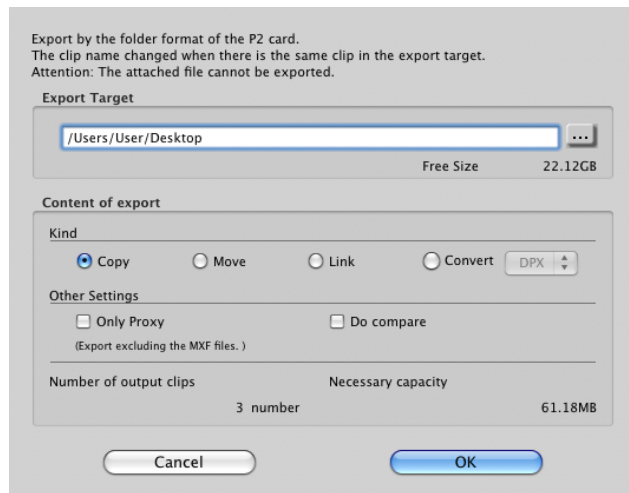


Thumbnail	Edit Unit	Clip Name	Thumbnail Format	Audio Start Byte	Aspect Ratio
	1001/30000	0005OS	BMP	32768	16:9
	1001/30000	0010MV	BMP	32768	16:9
	1001/30000	0006CV	BMP	32768	16:9
	1001/30000	0008KX	BMP	32768	16:9
	1/25	0001VV	BMP	32768	16:9
	1001/30000	0009TF	BMP	32768	16:9
	1001/30000	0012VZ	BMP	32768	16:9

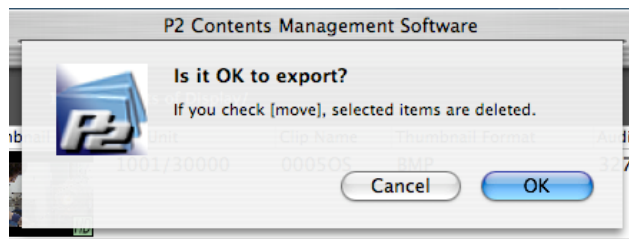
2. Please pull down to export in file of file menu or select export when you do right click.



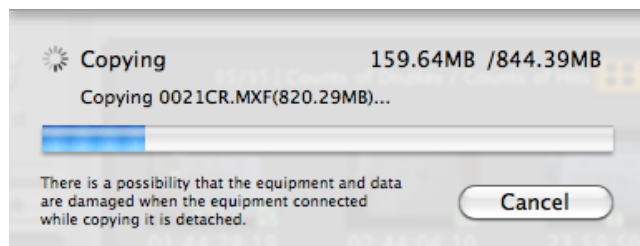
3. Please set the directory in your way of setting, and then click OK.



4. After clicking OK, message to go on “Export “will appear.

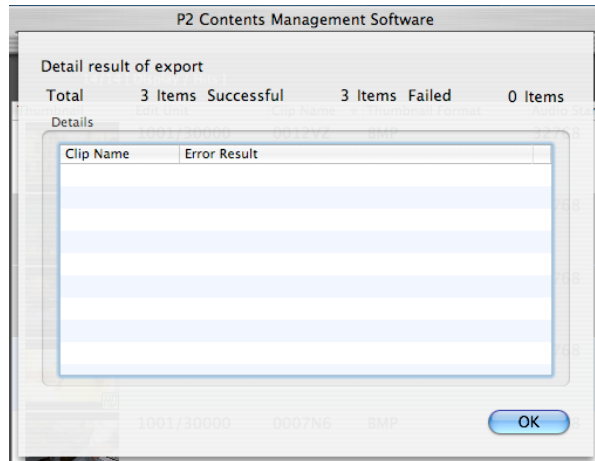


5. After clicking OK again, progress bar will appear to indicate its progress.



6. The result report appears

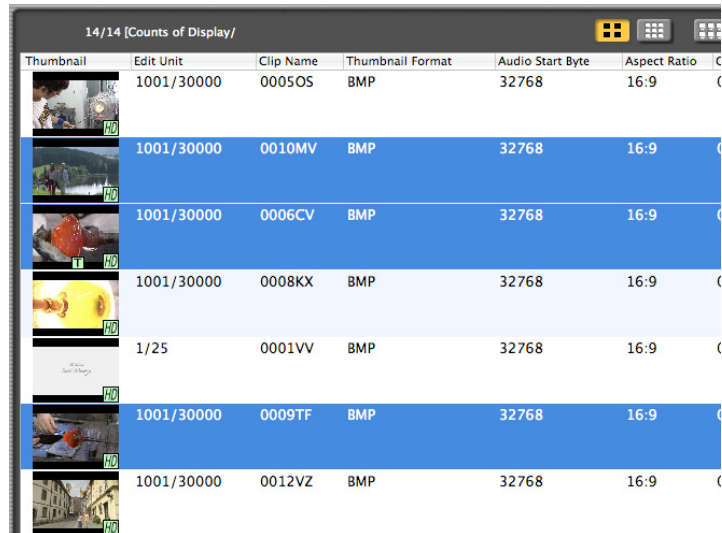
Number of P2 contents exported, failed to export and reason to be failed is displayed.



How to back up P2 contents (Only database mode)

1. Please select clips that you want to back up in display.

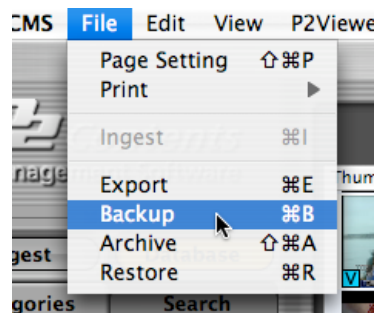
When you click each P2 contents thumbnail, you can select P2contents to back up and short cut key such as ⌘+A “select all, ⌘+click “select clips as you want ,Shift+click “range specified selection are available.



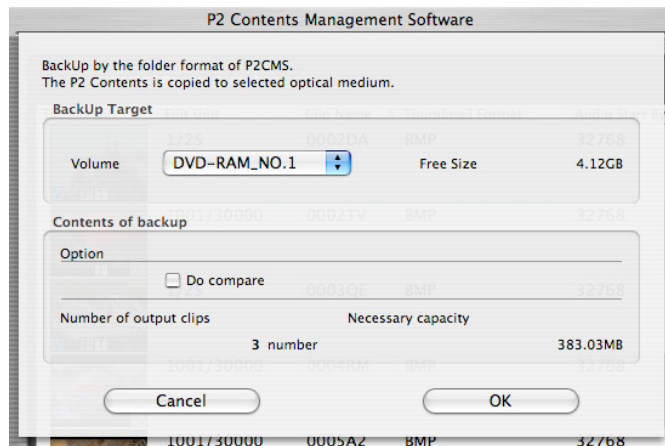
Thumbnail	Edit Unit	Clip Name	Thumbnail Format	Audio Start Byte	Aspect Ratio	
	1001/30000	0005OS	BMP	32768	16:9	(
	1001/30000	0010MV	BMP	32768	16:9	(
	1001/30000	0006CV	BMP	32768	16:9	(
	1001/30000	0008KX	BMP	32768	16:9	(
	1/25	0001VV	BMP	32768	16:9	(
	1001/30000	0009TF	BMP	32768	16:9	(
	1001/30000	0012VZ	BMP	32768	16:9	(

2. How to start backing up

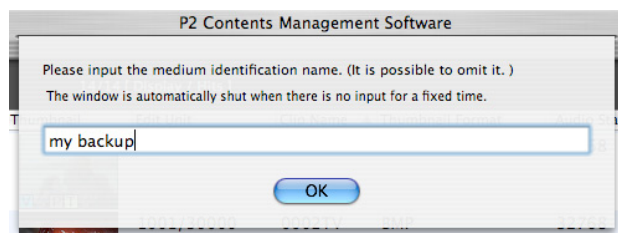
You can select to pull down to “backup” in file of file menu or select “back up “when you make right click.



3. Please set drive that you want to back up selected P2 contents.

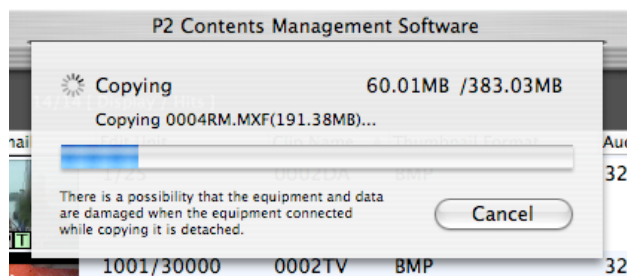


4. You can input label name for the disk to back up selected P2 contents.



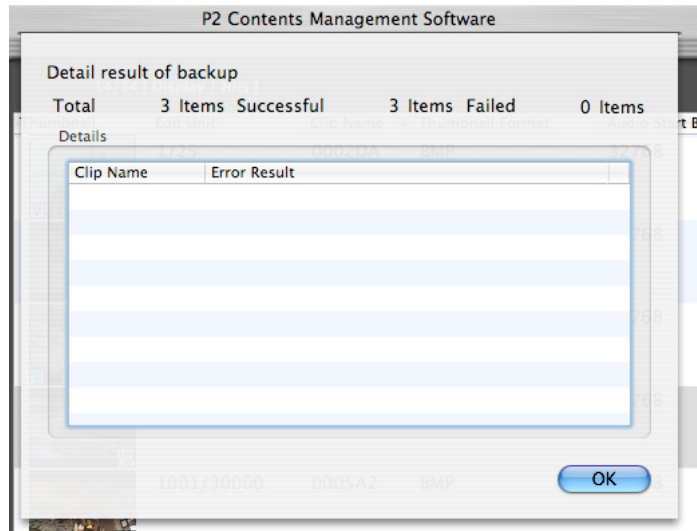
5. After clicking OK, its status bar will appear.

The status bar indicate how back up process goes on



6. The result report appears.

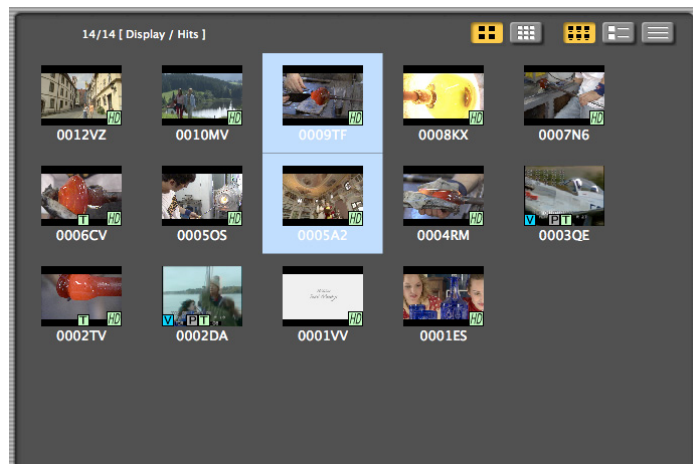
Number of P2 contents backed up, failed to back up and reason to be failed is displayed.



How to archive P2 contents (Only database mode)

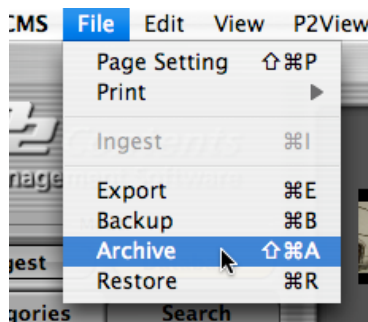
1. Please select clips that you want to archive in display.

When you click each P2 contents thumbnail, you can select P2contents to archive and short cut key such as **⌘+A** “select all, **⌘+click** “select clips as you want ,**Shift+click** “range specified selection are available.

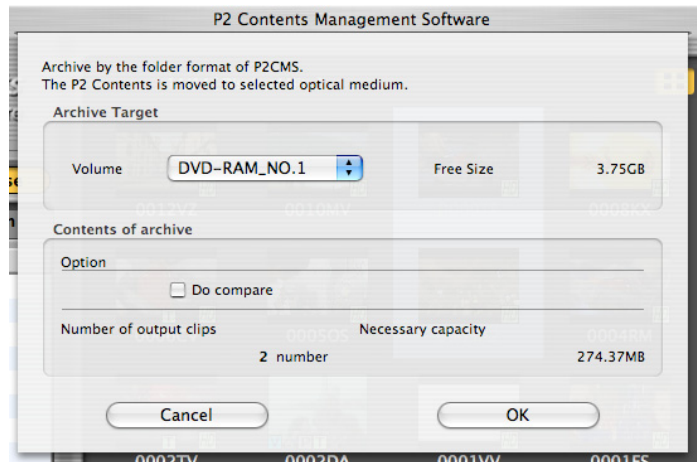


2. How to start archive

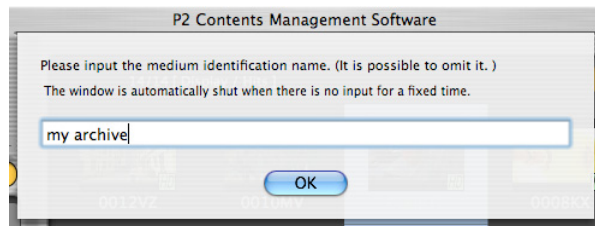
You can select to pull down to “archive” in file of file menu or select “archive “when you make right click.



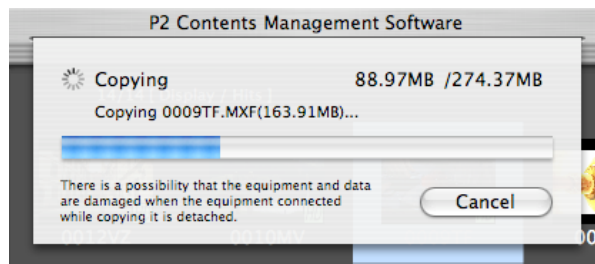
3. Please set drive that you want to archive selected P2 contents.



4. You can input label name for the disk to archive selected P2 contents.

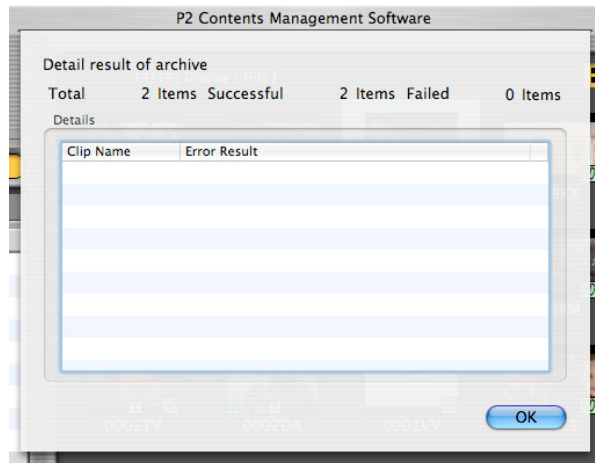


5. After clicking OK, its status bar will appear.
The status bar indicate how archive process goes on



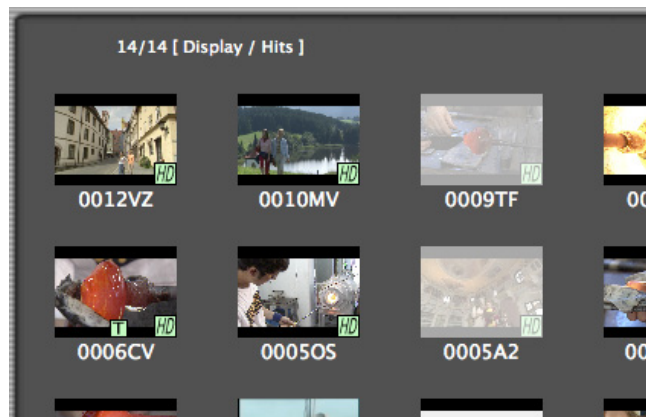
6. The result report appears.

Number of P2 contents backed up, failed to back up and reason to be failed is displayed.



7. Off-line is displayed to the material that the archive is done.

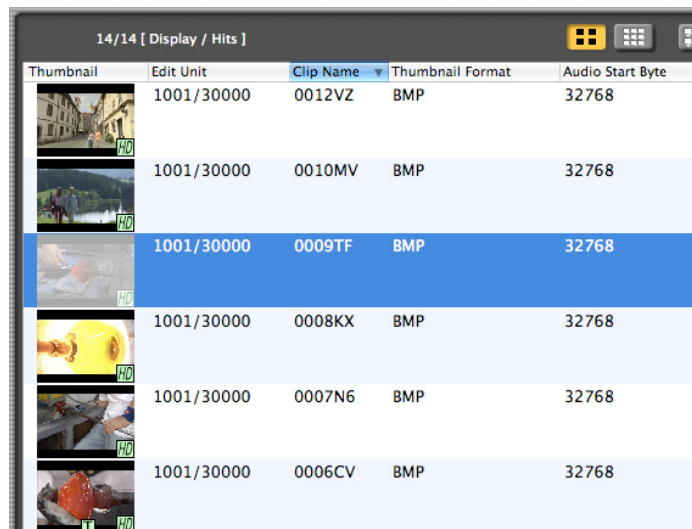
The P2 material that the archive is done multiplies the net because it is off-line (It is deleted from storage) and is displayed.



How to restore P2 contents (Only database mode)

1. Please select clips in display that you want to restore.

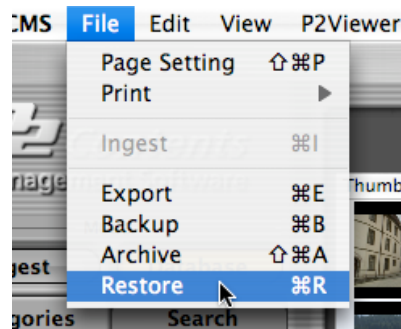
When you click each P2 contents thumbnail, you can select P2 contents to restore and short cut key such as ⌘+A “select all, ⌘+click “select clips as you want ,Shift+click “range specified selection are available.



Thumbnail	Edit Unit	Clip Name	Thumbnail Format	Audio Start Byte
	1001/30000	0012VZ	BMP	32768
	1001/30000	0010MV	BMP	32768
	1001/30000	0009TF	BMP	32768
	1001/30000	0008KX	BMP	32768
	1001/30000	0007N6	BMP	32768
	1001/30000	0006CV	BMP	32768

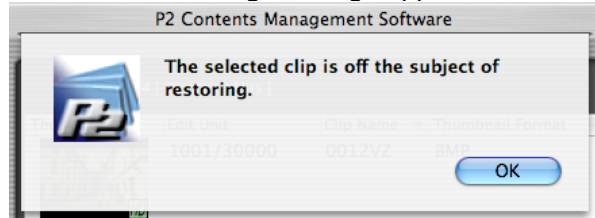
2. Please select “restore”

You can select “restore” from file of file menu or right click

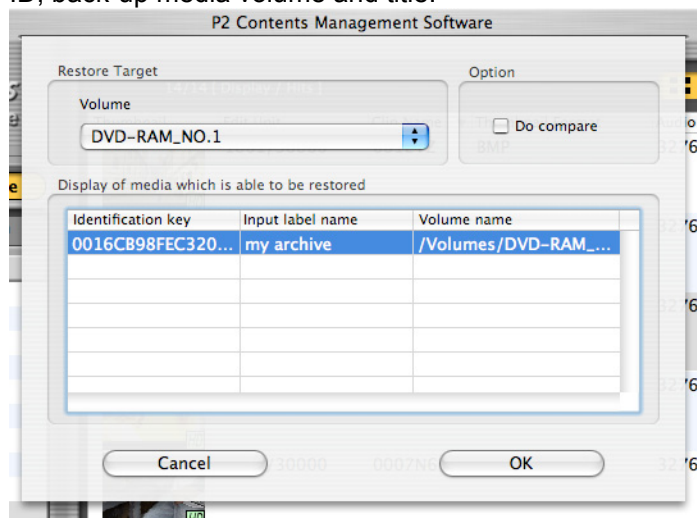


3. Please specify source of restore or restore setting.

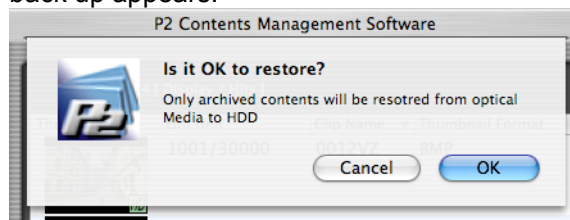
In case that your specifying contents are not available to restore, the following message appears.



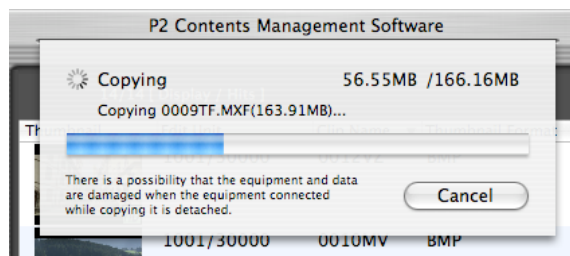
When you have some P2 contents that you can restore, the following message appears. Here you can find back-up media ID, back-up media volume and title.



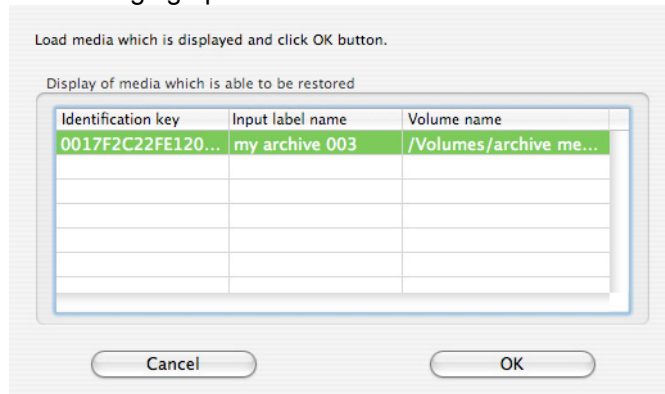
When you click O K , the following window to confirm starting back up appears.



4. The “restore” starts and the following status bar appears.

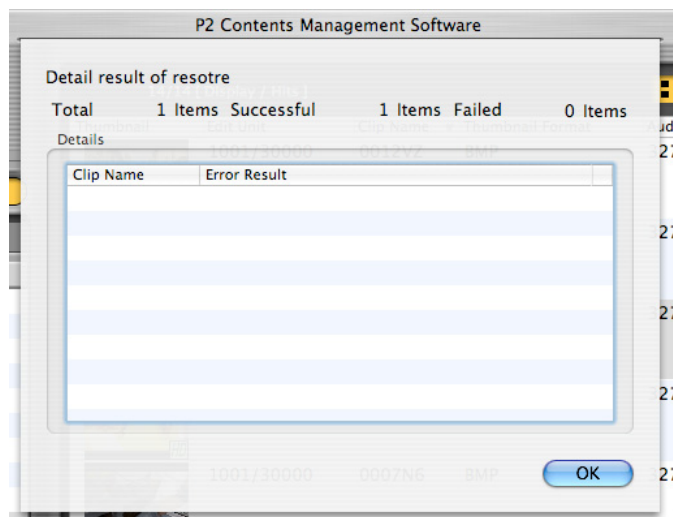


When you have P2 contents backed up to more than 2 disks, the following message appears and you can go on “restore” after changing optical disc.



5. The report is indicated when “restore “is done.

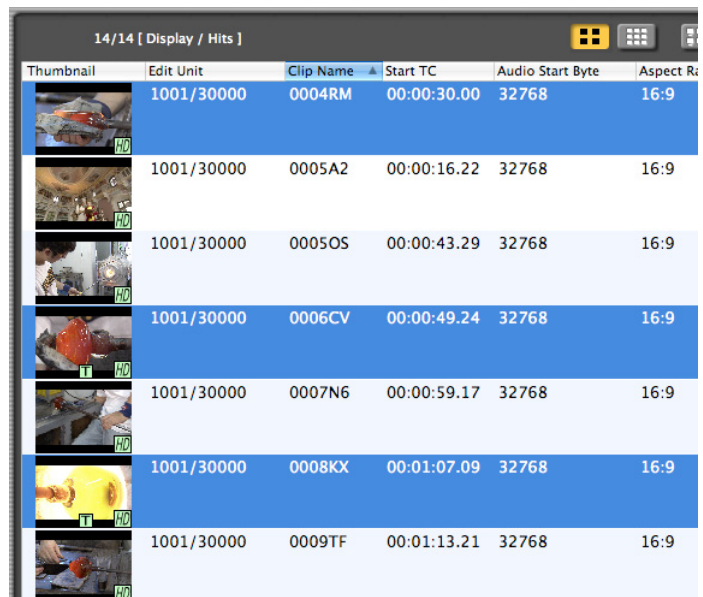
The “restore” results such as number of P2 contents to restore successful or unsuccessful are reported in the following window.








How to print out P2 contents and logging list

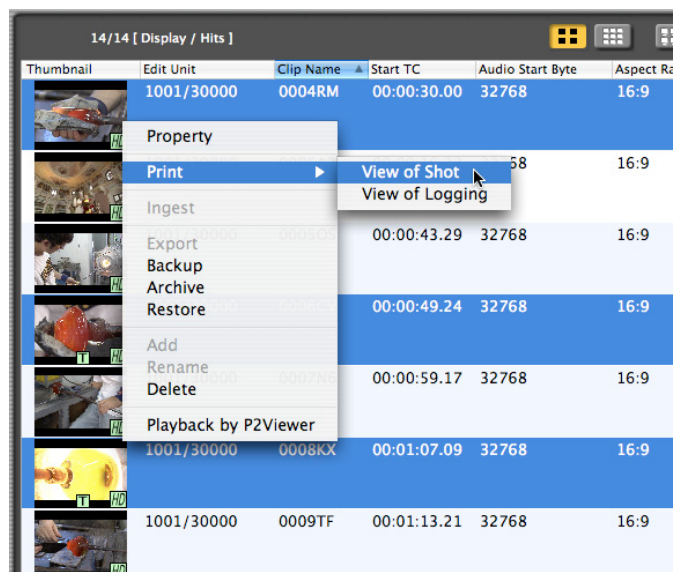
1. Please select clips in display that you want to print out.








When you click each P2 contents thumbnail, you can select P2 contents to print out and short cut key such as **⌘+A** “to select all”, **⌘+click** “to select clips as you want”, **Shift+click** “for range specified selection are available.



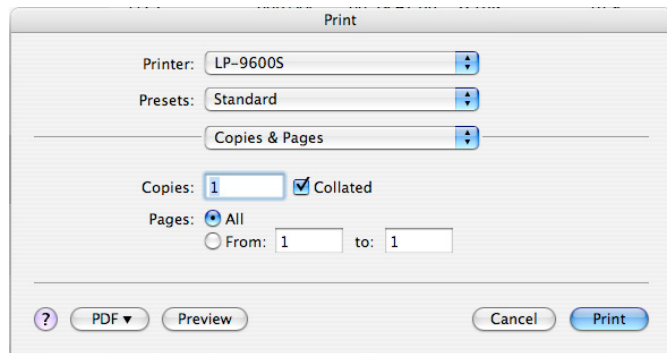
Thumbnail	Edit Unit	Clip Name	Start TC	Audio Start Byte	Aspect R
	1001/30000	0004RM	00:00:30.00	32768	16:9
	1001/30000	0005A2	00:00:16.22	32768	16:9
	1001/30000	0005OS	00:00:43.29	32768	16:9
	1001/30000	0006CV	00:00:49.24	32768	16:9
	1001/30000	0007N6	00:00:59.17	32768	16:9
	1001/30000	0008KX	00:01:07.09	32768	16:9
	1001/30000	0009TF	00:01:13.21	32768	16:9

2. Please select print shot or print logging in right click or from print in file of file menu.

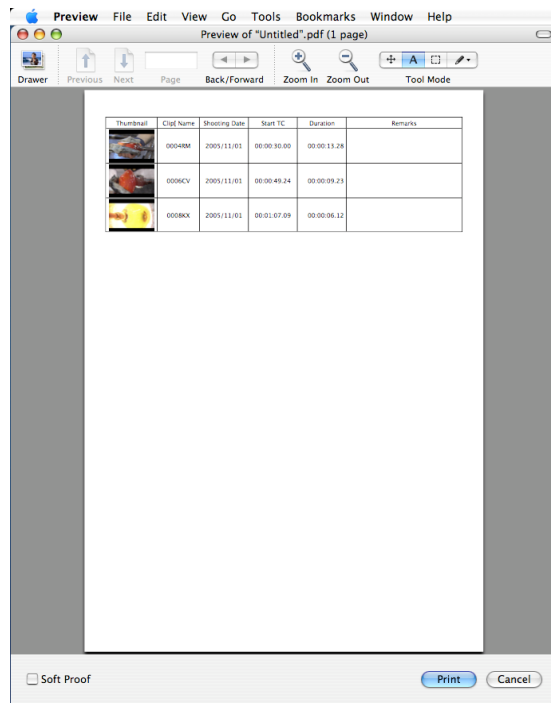


Thumbnail	Edit Unit	Clip Name	Start TC	Audio Start Byte	Aspect R
	1001/30000	0004RM	00:00:30.00	32768	16:9
	1001/30000	0005A2	00:00:16.22	32768	16:9
	1001/30000	0005OS	00:00:43.29	32768	16:9
	1001/30000	0006CV	00:00:49.24	32768	16:9
	1001/30000	0007N6	00:00:59.17	32768	16:9
	1001/30000	0008KX	00:01:07.09	32768	16:9
	1001/30000	0009TF	00:01:13.21	32768	16:9

3. The following screen to print out appears.



4. You can print out a print shot or export it as a file.



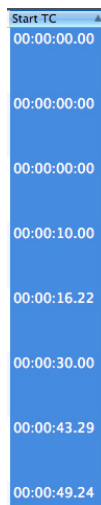
Simple sequential playback P2 contents

Simple sequential playback means that it loads P2 contents sequentially and playback.

1. Please designate order of clips which you want to playback sequentially.

Please switch to clip view or text view.
Please sort order you want to playback.

The next example is sorted by time code in ascending order.

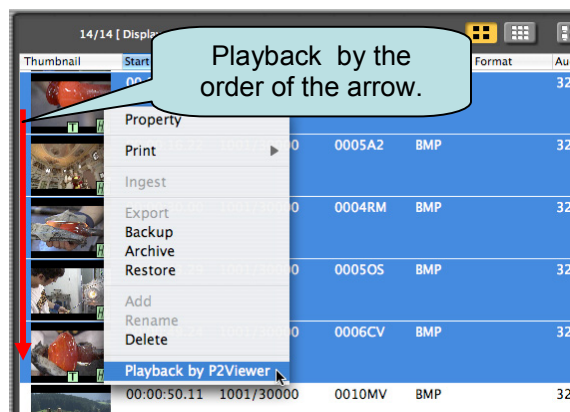


Start TC
00:00:00.00
00:00:00.00
00:00:00.00
00:00:10.00
00:00:16.22
00:00:30.00
00:00:43.29
00:00:49.24

2. Please select clips which you want to playback sequentially.

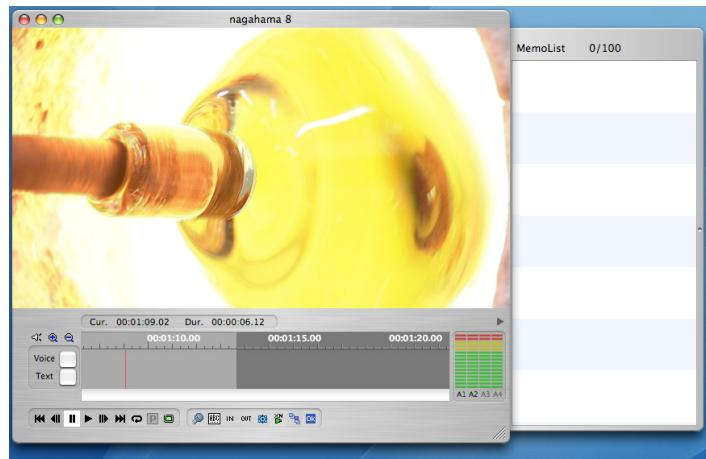
Please select multiple clips and click [P2Viewer]

→ [Playback by P2 Viewer]



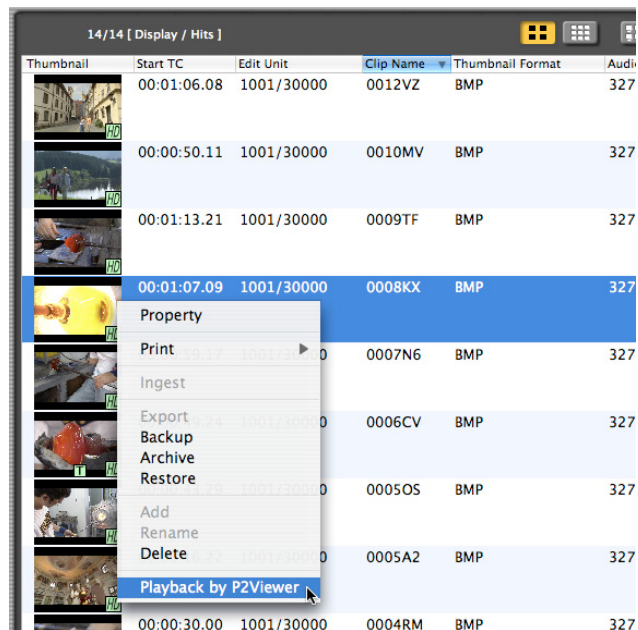
Selected clips are played back by the order of list by P2 viewer.

3. P2 viewer is loaded and starts playing back.



Logging P2 contents

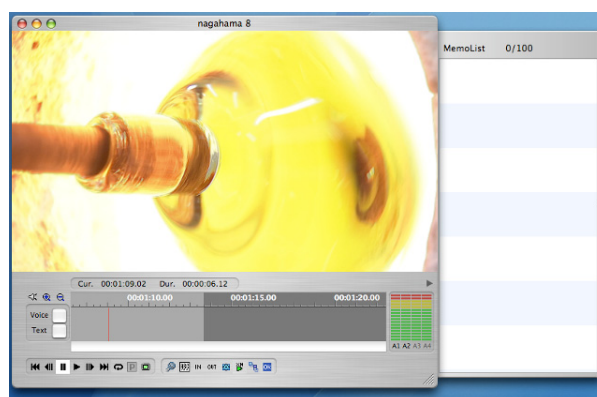
1. Please select clip that you want logging and play back by P2 Viewer in right click or from P2 Viewer of Menu in file menu.



When P2 viewer appears, you can make logging as well as playback, playback faster than real-time, going to top, going to end and pause in P2 viewer.

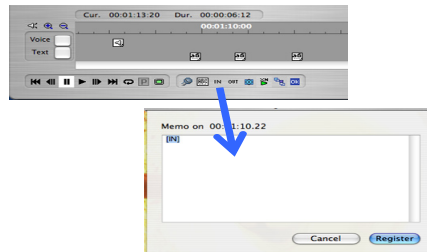
When you select more than 2 clips, clips are played back by turns.

2. When you set playback setting in more than real-time, P2 viewer can play clips in speed as you set. Faster than real-time setting ranges from 1.5 X to 4X.

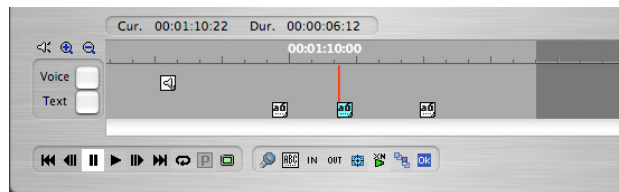


3. When you click IN button, “In Point” is registered.

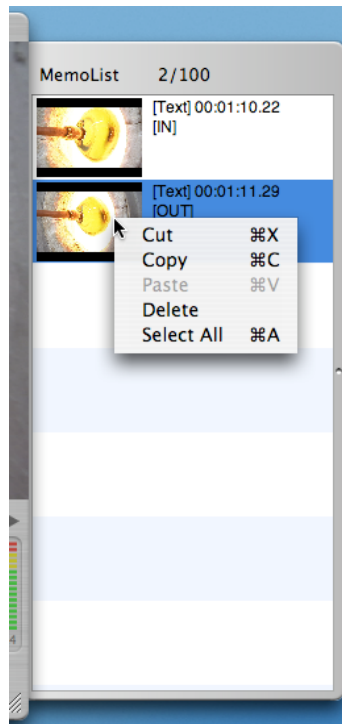
When you click IN button while playing back, playback is not stopped. After typing your memo in text memo screen, you can click OK to complete logging and IN point is registered.



4. When you click out button, you can register “Out Point”.



5. IN/OUT point made in logging, any event registered in text memo or voice memo displays in the list in right side so you can confirm them easily.



6. Print out Logging list

Please select clips that you made logging.

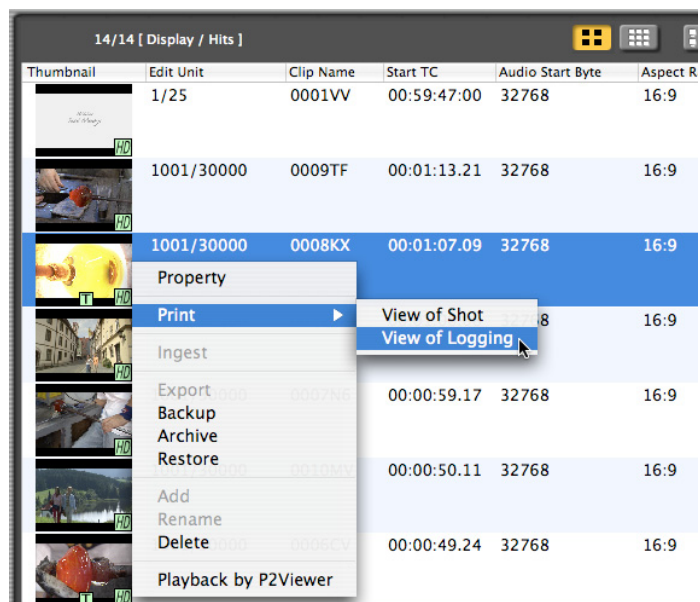
You can print out logging list to select clips and available short cut Key are “**⌘+A**” select all, **⌘+click** to select clips as you want , **Shift+click** “for range specified selection” .



Thumbnail	Edit Unit	Clip Name	Start TC	Audio Start Byte	Aspect Ra
	1/25	0001VV	00:59:47:00	32768	16:9
	1001/30000	0009TF	00:01:13.21	32768	16:9
	1001/30000	0008KX	00:01:07.09	32768	16:9
	1001/30000	0012VZ	00:01:06.08	32768	16:9
	1001/30000	0007N6	00:00:59.17	32768	16:9
	1001/30000	0010MV	00:00:50.11	32768	16:9
	1001/30000	0006CV	00:00:49.24	32768	16:9

7. Please select print logging from menu.

By right click or from the menu, please select print logging.



Thumbnail	Edit Unit	Clip Name	Start TC	Audio Start Byte	Aspect R
	1/25	0001VV	00:59:47:00	32768	16:9
	1001/30000	0009TF	00:01:13.21	32768	16:9
	1001/30000	0008KX	00:01:07.09	32768	16:9
	1001/30000	0012VZ	00:01:06.08	32768	16:9
	1001/30000	0007N6	00:00:59.17	32768	16:9
	1001/30000	0010MV	00:00:50.11	32768	16:9
	1001/30000	0006CV	00:00:49.24	32768	16:9

Property

Print ▶ View of Shot
View of Logging

Ingest

Export

Backup

Archive

Restore

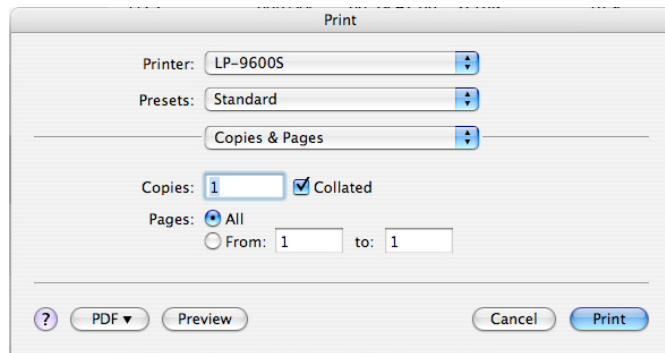
Add

Rename

Delete

Playback by P2Viewer

8. Print out screen appears.



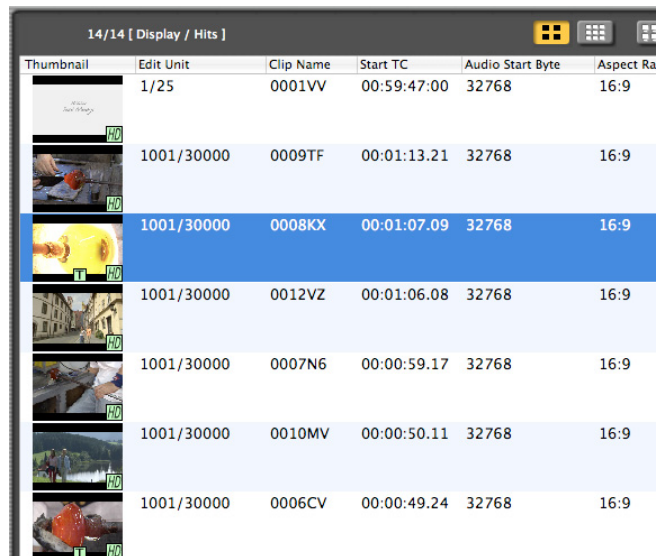
9. You can print out a logging list when you click print button.

How to Edit P2 Meta data

1. Please select clips that you want to edit.

You can edit clips and available short cut Key are “**⌘+A**”

select all, **⌘+click** to select clips as you want , Shift+click “for range specified selection

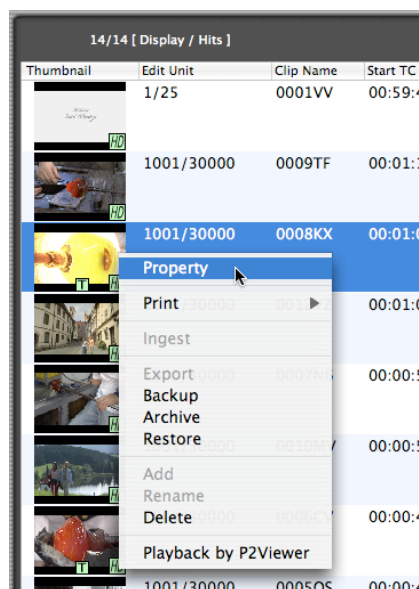


14/14 [Display / Hits]

Thumbnail	Edit Unit	Clip Name	Start TC	Audio Start Byte	Aspect Ra
	1/25	0001VV	00:59:47:00	32768	16:9
	1001/30000	0009TF	00:01:13.21	32768	16:9
	1001/30000	0008KX	00:01:07.09	32768	16:9
	1001/30000	0012VZ	00:01:06.08	32768	16:9
	1001/30000	0007N6	00:00:59.17	32768	16:9
	1001/30000	0010MV	00:00:50.11	32768	16:9
	1001/30000	0006CV	00:00:49.24	32768	16:9

2. Please select property in the following way.

You can select property in right click of clip or from edit in file menu to pull down to property.



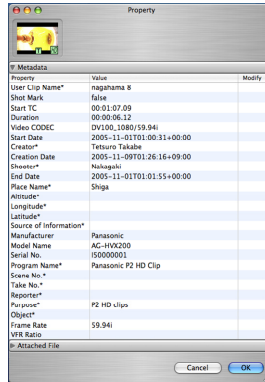
14/14 [Display / Hits]

Thumbnail	Edit Unit	Clip Name	Start TC
	1/25	0001VV	00:59:47:00
	1001/30000	0009TF	00:01:13.21
	1001/30000	0008KX	00:01:07.09
	1001/30000	0012VZ	00:01:06.08
	1001/30000	0007N6	00:00:59.17
	1001/30000	0010MV	00:00:50.11
	1001/30000	0006CV	00:00:49.24

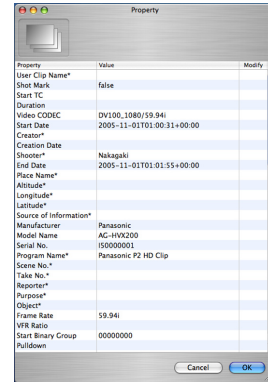
Property
Print
Ingest
Export
Backup
Archive
Restore
Add
Rename
Delete
Playback by P2Viewer

3. Property screen appears.

The metadata of selected contents is displayed. When you select more than 2 clips, the only Meta data to which the condition is corresponding is displayed.



When you select one clip



When you select two or more clips

4. Edit metadata

You can modify or input metadata which you want in this screen.

Please select item of metadata which you want to edit and then it become possible to change by double-click.

Remarks: If you single-click, you cannot change.

Model Name	AG-HVX200
Serial No.	I50000001
Program Name*	Panasonic P2 HD Clip
Scene No.*	
Take No.*	
Reporter*	

5. When you click OK, editing process is completed.

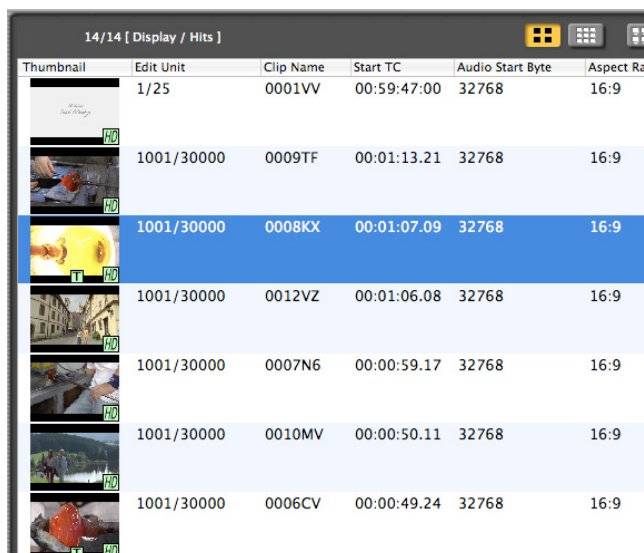
When you select more than 2 clips, all Meta data in same table are changes at same time.

If you click cancel, metadata is not updated.







How to attach the files to P2 contents

1. Please select a clip you want to append file.

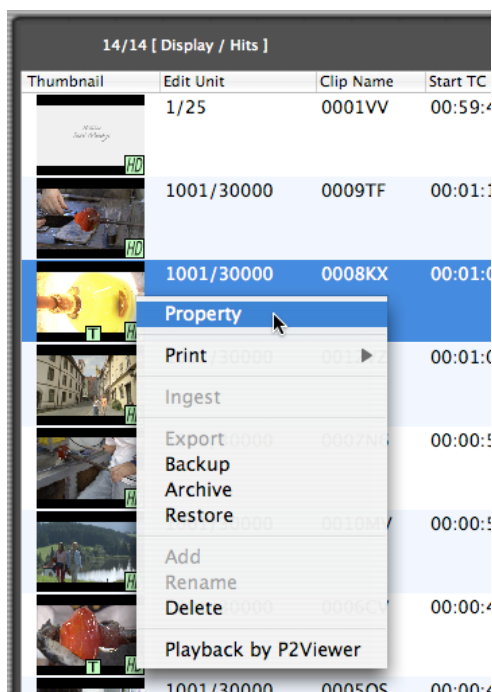
You can click to select a clip you cannot append same file to more than 2 clips at the same time.











14/14 [Display / Hits]

Thumbnail	Edit Unit	Clip Name	Start TC	Audio Start Byte	Aspect Ra
	1/25	0001VV	00:59:47:00	32768	16:9
	1001/30000	0009TF	00:01:13.21	32768	16:9
	1001/30000	0008KX	00:01:07.09	32768	16:9
	1001/30000	0012VZ	00:01:06.08	32768	16:9
	1001/30000	0007N6	00:00:59.17	32768	16:9
	1001/30000	0010MV	00:00:50.11	32768	16:9
	1001/30000	0006CV	00:00:49.24	32768	16:9

2. Please select property from file menu of edit or by right click(or Control+Click).



14/14 [Display / Hits]

Thumbnail	Edit Unit	Clip Name	Start TC
	1/25	0001VV	00:59:4
	1001/30000	0009TF	00:01:1
	1001/30000	0008KX	00:01:0
	1001/30000	0012VZ	00:01:0
	1001/30000	0007N6	00:00:5
	1001/30000	0010MV	00:00:5
	1001/30000	0006CV	00:00:4
	1001/30000	0005OS	00:00:4

Property

Print

Ingest

Export

Backup

Archive

Restore

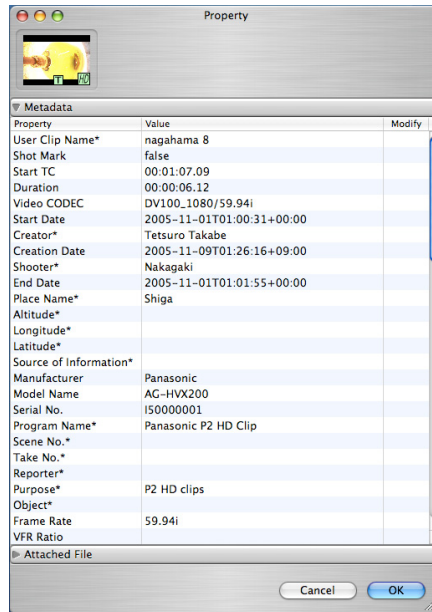
Add

Rename

Delete

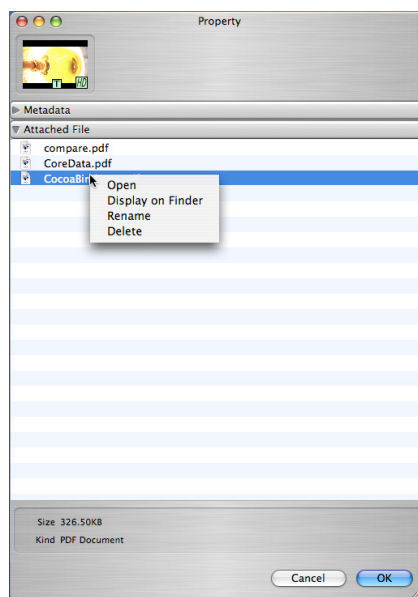
Playback by P2Viewer

3. The following properties screen is open.



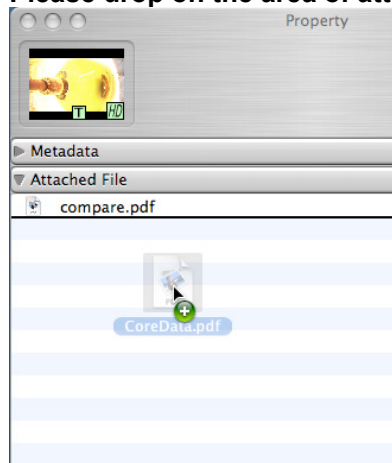
4. Please click attached file in properties screen.

You can add or remove attached files here.



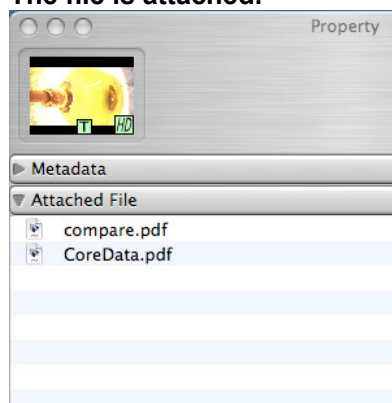
5. Please drag a file you want to add from Finder.

6. Please drop on the area of attached file.



7. Attached file is copied.

8. The file is attached.

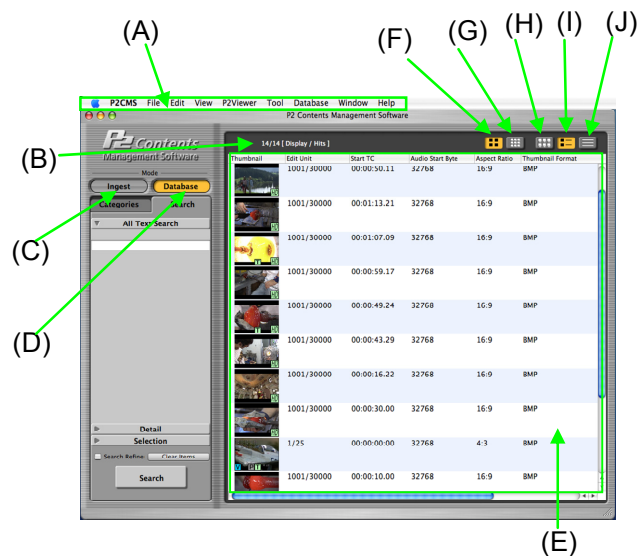


Function

Display

1. Thumbnail display

There is thumbnail screen to display clips in main screen. You can select how you can display name and metadata.



- (A) Main menu: There is also same command in main menu.
- (B) Counts of hit: number of hit by search is displayed.
- (C) Ingest button
you can switch to Ingest mode by pushing ingest button in database mode.
- (D) Database button
you can switch to database mode by pushing database button in ingest mode.
- (E) P2 contents lists view area.

It display P2 contents list at this area.

If display count exceeds the number which you set at option, it cannot display them. If you want to display more, please change the setting. But if you increase the number, it takes longer time to display them.

(F) Big thumbnail display size button
you can switch to big thumbnail size in screen.

(G) Small thumbnail display size button
you can switch to small thumbnail size in screen.

(H) P2 contents clip view switching button.

It change display (E) to icon display.

(I) P2 contents list view switching button: To push this button is to display (E) with Meta data and additional information.

(J) P2 contents text view switching button.
It change display (E) to text display.

2. P2 contents clip display switching mode

- Switch by button
Only clips are displayed by clicking clip display button in main screen at (E).
Clips and meta data information are displayed by clicking clip display button in main screen at (E).
Only text information such as metadata is displayed by clicking text display button in main screen at (E).
- Switch by menu
In main menu, you can switch such display mode as well as by pushing button.
[display] → [change of view style] → [thumbnail]
[display] → [change of view style] → [detail]
[display] → [change of view style] → [text]

3. changing clip display size

- Switch by button
in clip display or detail display, clip sizes is 80×60 at screen F by clicking big clip display size button.
In clip display or detail display, clip size's is 40×30 at screen F by clicking small clip display size button.
- Switch by menu
In main menu, you can switch such display mode as well as by pushing button.
[display] → [thumbnail] → [big]
[display] → [thumbnail] → [small]

4. Indicator

There are some clips with indicator to show each contents status. Clips under white color filter mean offline status.



- **V**(blue)
This indicator means to have voice memo.
- **M**(orange)
This indicator means to have shot memo.
- **P**(gray)
This indicator means to have proxy.
- **T**(greenish yellow)
This indicator means to have text memo.
- **E**(purple)
This indicator means clip to have done edit copy.
- **X** / **?**(red/yellow)
This indicator means clip to have some problem.
It occurs in the case of unexpected power down of P2 products and so on. The clip which has yellow indicator may be repaired. This software can not repair it. Please use P2 products which are like P2 camera recorder to repair it.
The clip which has red indicator can not be repaired. Please delete it. If you can not delete, Please format P2 card.
* This indicator does not always guarantee playback any P2 products.
- **?**(yellow)
This indicator means clip that is other than P2.
- **!**(pink)
This indicator means spanned clip to be one but there is not all clip.
- **HD**(greenish yellow)
This indicator means clip to be recorded as a DVCPROHD or an AVC-Intra format.
- **W**(greenish yellow)
This indicator means clip to be recorded in 16x9. It is not indicated for HD format.

If thumbnail does not exist, "No Image" is displayed which means that thumbnail is not displayed.

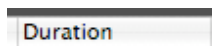


5. Sort of display

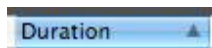
You can sort by clicking item in case of detail/text display.

In case of sequential playback, you can sort the playback order by this sort function.

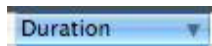
In case of not sorting: An arrow does not appear.



In case of ascending: An up-arrow appears.



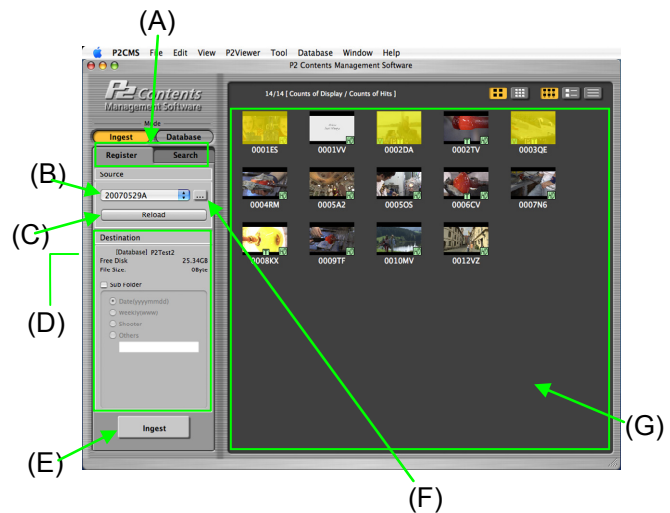
In case of descending: A down arrow appears



Ascending /descending order is sorted by display characters.

For examples, [TEST1] [TEST10] [TEST2] are sorted order because they are sorted by characters. You have to care about digit to use numeric characters. If you name [TEST001] [TEST010] [TEST002], their order become [TEST001] [TEST002] [TEST010].

Ingest (registration) Ingest screen



- (A) Ingest / search Tab
you can switch registration function and searching function. When you push searching tab, the mode will be changed to searching screen.
- (B) Ingest source reference button
You can choose the drive to ingest. Each drive and all the P2 cards display. Selection of all the P2 cards will display the clip of all the P2 card.
- (C) Reload button
you can update current drive configuration with this reload button.
- (D) storage directory setting
You can set name of folder with this setting to store
- (E) Ingest button
When you push ingest button, the ingest starts.
- (F) Drive/folder to ingest selection
you can select drive and folder to ingest P2 contents.
- (G) Clip display
This is the area for P2 contents list display.


2. Ingest operation

1. Please select drive /folder to ingest from drop down of (B) or reference button of (F).

*As it searches all P2 contents at the selected drive or folder, it will take long time in case of many sub folders or many contents. You can limit searching object to designate the folder by (F) button.

2. P2 contents which are stored in designated drive or folder are displayed at (G).
3. When you select clips that you want to ingest will be inverted.

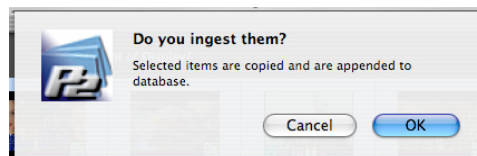
Any multiple clips are selected if you click them pushing Ctrl button. Sequential clips are selected if you click them pushing Shift button.

You can select all clips if you click +A or [Edit] → [Select ALL].

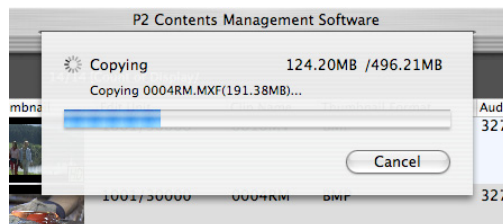
*If you select all clips during displaying clips, un-displayed clips are waited. System display wait-cursor.

*After selecting clips, it is calculating available capacity. Ingest button does not work until calculation is finished.

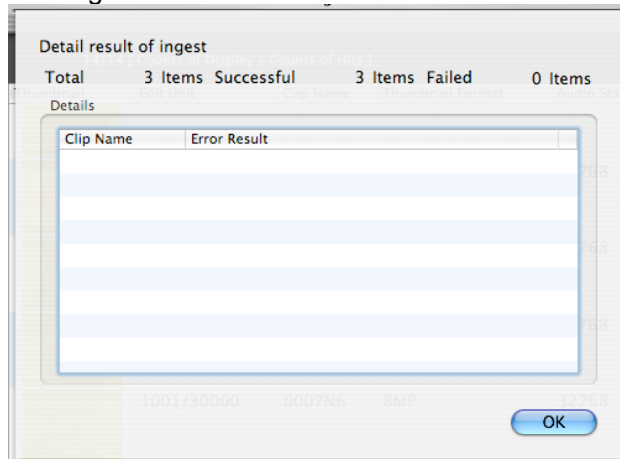
4. When you push Ingest button, the following dialog box will be displayed to confirm next step so please click OK to go on.



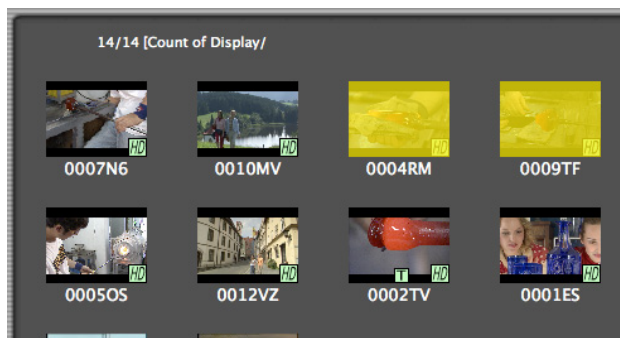
5. Ingest starts.



6. When “Ingest “completes, the following message appears. When there are any clips that is failed to be ingested, Clip ID of those clips and detail of error will report in this message.



7. When you click OK, the screen returns to the main screen.
8. The ingested contents change display color.



3. How to set folder to store ingested clips (Sub folder setting)

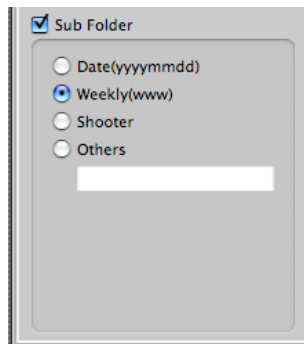
When you set storage to ingest clips, you can use sub-folder function. You can make subfolder and clips are stored in this folder after ingesting.

Please check [Sub folder option] to designate sub folder. If you check, radio button is available. The following sub folder is created and saved.

As created date, weekly are processed by metadata which is described in metadata, multiple folder may be created at only one ingesting. Date or weekly is based on shooting date when you finished shooting. If not, creation date will be used.

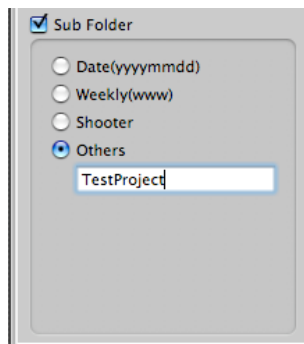
- creation date
yyyy mm dd style sub folder
- creation week
a day of the week style folder
- shooter
shooter's name folder
- other
You can name folder

<In case of storing at weekly folder.>



The screenshot shows a dialog box titled 'Sub Folder' with a checked checkbox. Below the checkbox are four radio button options: 'Date(yyyymmdd)', 'Weekly(www)', 'Shooter', and 'Others'. The 'Weekly(www)' option is selected. Below these options is an empty text input field.

<In case of storing at designated folder.>



The screenshot shows the same 'Sub Folder' dialog box, but now the 'Others' radio button is selected. The text input field below the radio buttons contains the text 'TestProject'.

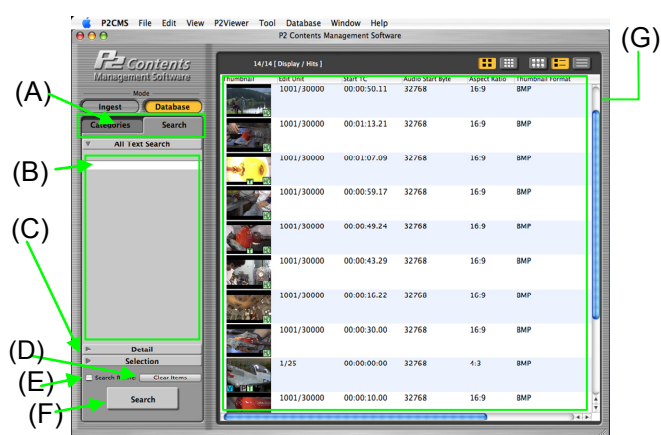
Searching

All text search / category search / keyword search

You can search ingesting P2 contents in “Ingest mode”.

You can search ingested P2 contents in database mode.

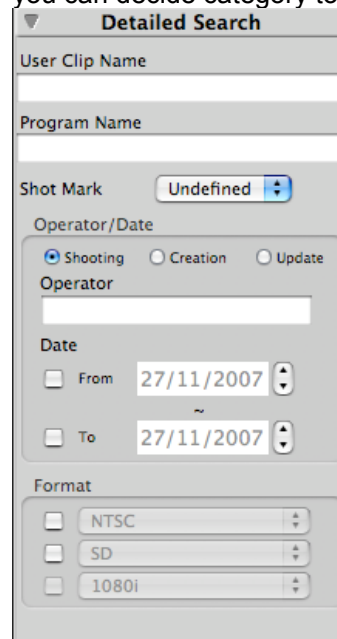
1. Search screen



- (A) Category / search tab
you can switch category mode and search mode.
- (B) All text search
you can search clip by text
- (C) Search mode switch tab
you can switch searching mode by text or by category or by keyword.
- (D) Clearness of search condition
you can clear search condition.
- (E) Search refinement
you can search by refinement.
- (F) Search button
you can search by text or category or keyword.
- (G) Clip list
this is screen to display clip as a result of search.

(H) Category search

you can decide category to search here.

A screenshot of the 'Detailed Search' dialog box. It contains several input fields: 'User Clip Name', 'Program Name', and 'Shot Mark' (set to 'Undefined'). Below these is the 'Operator/Date' section with radio buttons for 'Shooting' (selected), 'Creation', and 'Update'. It includes an 'Operator' text field and a 'Date' section with 'From' and 'To' date pickers, both set to '27/11/2007'. At the bottom is a 'Format' section with checkboxes for 'NTSC', 'SD', and '1080i'.

- User Clip Name

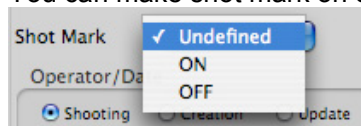
Please type user clip name.

- Program Name

Please type program name.

- Shot Mark

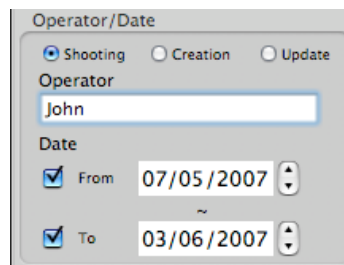
You can make shot mark on or off in combo box.

A close-up of the 'Shot Mark' dropdown menu. The menu is open, showing three options: 'Undefined' (selected with a checkmark), 'ON', and 'OFF'.

- Shooter/Shooting date/Creator/Creation date/Last update person/Last update date

You can type operator, date and so on by selecting shooting/creation/Last update in radio button.

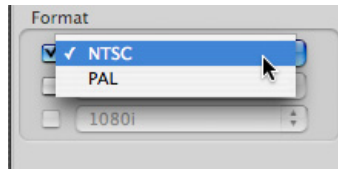
For example, the following shows clips which John has shot from 2007/5/7 to 2007/6/3

A screenshot of the 'Operator/Date' section of the search dialog. The 'Shooting' radio button is selected. The 'Operator' field contains the text 'John'. The 'Date' section has 'From' and 'To' date pickers, both with checkboxes. The 'From' date is '07/05/2007' and the 'To' date is '03/06/2007'.

- Frame Rate

You can select NTSC/PAL.

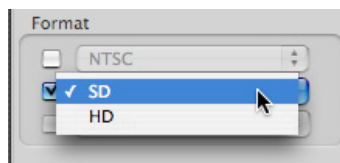
When you make checkbox on, you search by NTSC or PAL.



- Video Codec

You can select HD/SD.

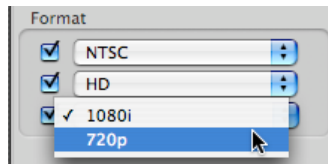
When you make checkbox on, you search by HD or SD.



- Format

You can select 1080i/720p.

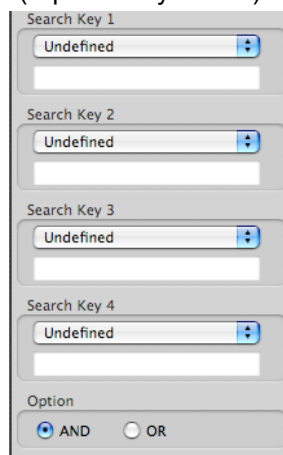
When you make checkbox on, you search by 1080i or 720p.



(I) Keyword search

you can select keywords to search.

(up to 4 keywords)



2. Search refinement

You can search from search result. To do this, please check option which is (F) and search refinement.

3. All text search

This searches for item of database. If you separate characters by blank, you can search them with or mode.

If you search it which is including blank, please enclose the characters in single quotes.

1. Please click all text tab at (C) and switch screen to (B).
2. Please type free text to search.
3. When you push search button, the searching starts.
4. When you search, progress bar appears and during searching P2 CMS cannot accept any command.
5. Searched clip displays in the list.

- Search is done for almost items. But some parts are excluded.

Excluding items:

Global ID and so on which are determined by P2 products.

Shot Mark and so on which are flag information.

Scene Number which is numeric information.

Path of contents

RFID

Recognition key of backup media.

4. Detailed Search / Search Key

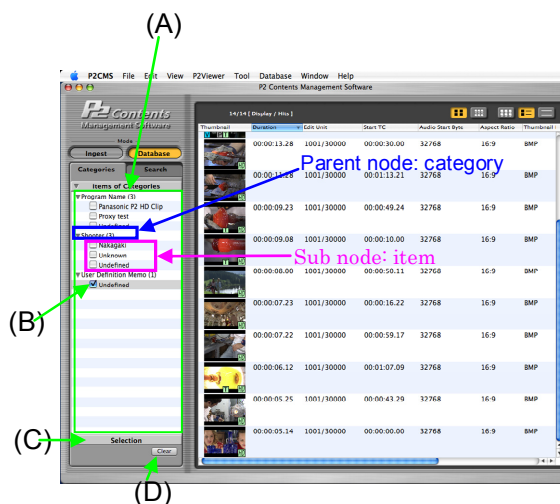
1. Please click [Detailed Search] from tab at (C). Switch to screen at (H) or (I).
2. You can input keyword in this category.
3. The searching starts when you push searching button.
4. When you search, progress bar appears and during searching P2 CMS cannot accept any command.
5. Searched clips are displayed in the list.

Category

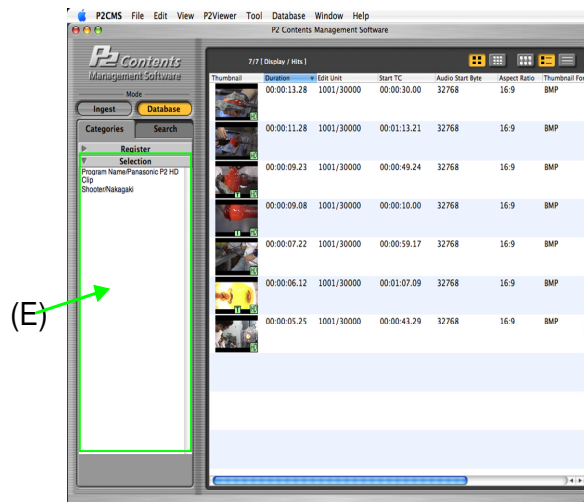
Category search make you find clips by selecting items of category.

You can edit clips of metadata to drag and drop to item of category. You also can add your item of category. (Only database mode)

1. Items of category screen



- (A) Sub node bar
- (B) Items of category
when you check item of category, clips to have relevant metadata are displayed.
- (C) Category bar selected
Category bar selected displays lists of checked items.
- (D) Clear button
Clear button unset checked selected item of category.



(E) Selected category list
The list of the item being checked now is displayed.

2. Search by category

1. Please check items of categories with that you want to search clips.
2. When you check items of category, the searching starts automatically and status bar appears. During searching, P2 CMS cannot accept command.
3. The result of this search displays in list.

3. How to confirm selected categories.

- When you click selected categories bar at C, currently selected items of categories displays. AND / OR searching setting radio button (figure4) and clear button is not displayed in this case.
- When you click items of categories bar, the screen returns to list view of items of categories display and items of categories AND / OR searching setting radio button (figure4) and clear button comes back.

4. How to categorize clips

- When you drop clips to items of categories, you can add or overwrite them to these metadata.

5. How to append item of categories

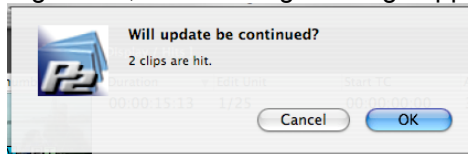
1. Please click category at items of categories to add new item.
2. Please select append from edit of file menu. You can also select append by right click.
3. New category is ready to be registered under the category.
4. Please type new item in focused place.
5. The registration is done when the focus is off.

6. How to delete item

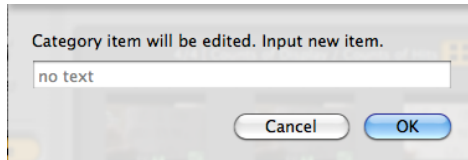
1. Please click item that you want to delete.
2. You can select "DELETE" from edit of file menu or by right click.
3. The item of categories is deleted.
4. When you select "DELETE" to delete registered item, the following message appears.
5. When you push OK, the item is deleted and relevant clips of this information are updated. During they are updated, P2 CMS does not accept any command.
6. When you click cancel, "DELETE" is canceled.

7. How to change items of categories

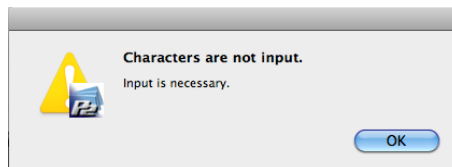
1. Please click any item that you need to change.
2. You can select "RENAME" from edit of file menu or to select "RENAME" by right click.
3. Now you can type to overwrite new name of item.
4. When you try to rename items of that clips are already registered, the following message appears.



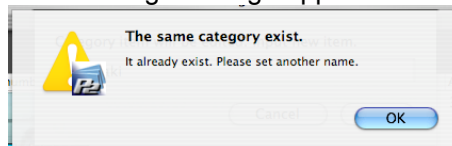
5. When you click OK, item is ready to be renamed and you can overwrite new name of item.



6. When you click "CANCEL", "RENAME" is canceled.
7. When "RENAME" is completed, relevant clips of these information is updated. During they are updated, P2 CMS does not accept any command.
 - When name of item remain blank in the focus off in "RENAME, the following message appears.



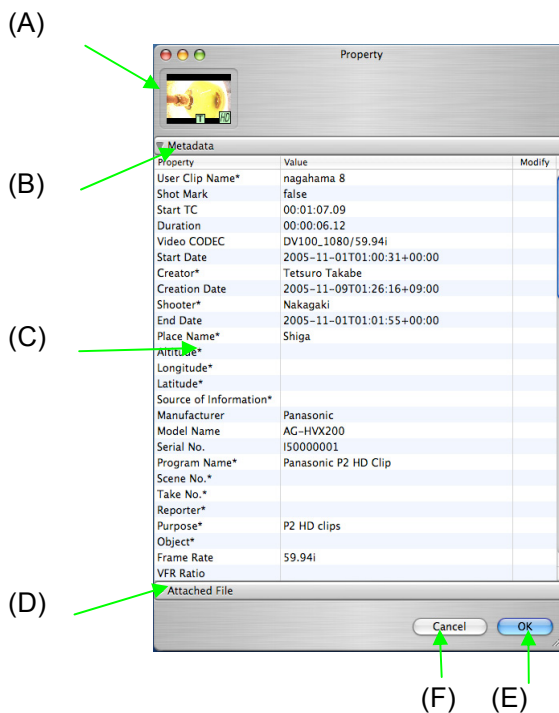
- When same name exists in the item under same category, the following message appears.



Property

You can confirm and modify metadata. And you can add, delete and open attached files.

1. Metadata Screen



(A)Thumbnail

It displayed thumbnails of selected clips. If you select multiple clips, thumbnails are not displayed.

(B)Metadata bar

It displays metadata.

(C)Metadata display area

It displays metadata of selected clips. You can modify them directly if modification is available.
If you select multiple clips, it display only corresponded items and all clips which you select are target.

(D)Attached file bar

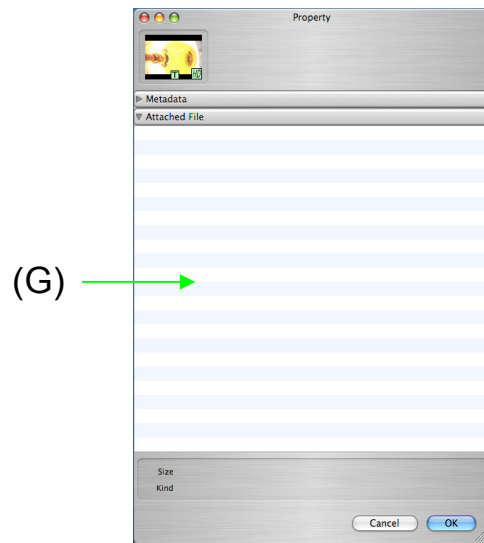
It displays attached file list. But if you select multiple clips, operation is not acceptable.

(E)OK button

Modification is confirmed on XML file and on database.

(F)Cancel button

You can cancel modification of metadata. But attached file operation is not canceled.



(G) →

(G) Display area of attached file list.
It displays attached files which are associated.

2. To Modify Metadata

1. If you select an item of metadata, Status changes to selected one.

Model Name	AG-HVX200	
Serial No.	I50000001	
Program Name*	Panasonic P2 HD Clip	
Scene No.*		
Take No.*		

2. You can input or modify by double-click if the item is selected.

Model Name	AG-HVX200	
Serial No.	I50000001	
Program Name*	Panasonic P2 HD Clip	
Scene No.*		
Take No.*		

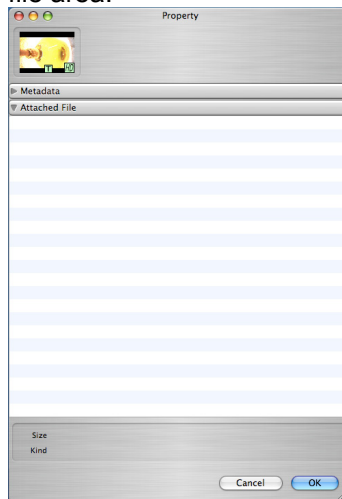
3. You can confirm input.

Model Name	AG-HVX200	
Serial No.	I50000001	
Program Name*	Test Program	
Scene No.*		
Take No.*		

4. Metadata is modified after clicking OK button. If you click Cancel button, metadata is not modified.
If multiple clips are selected, it is applied to all P2 contents which are selected.

3. To Add Attached file

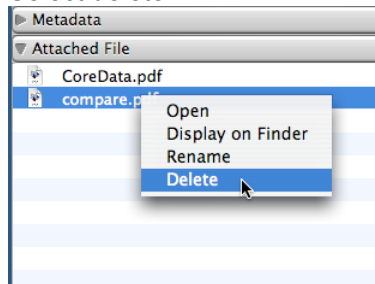
1. Drag & drop the file which you want to attach into attached file area.



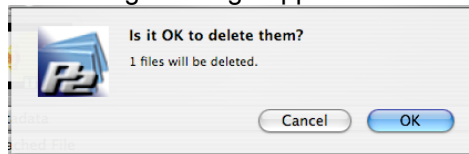
2. The attached file is added.

4. To Delete Attached file

1. Assign the file which you want to delete and right-click. Select delete.

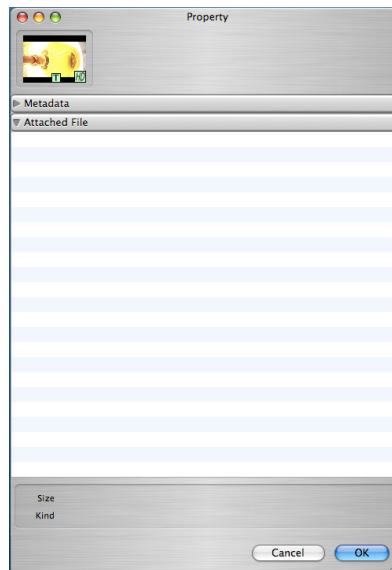


2. Confirming message appears.



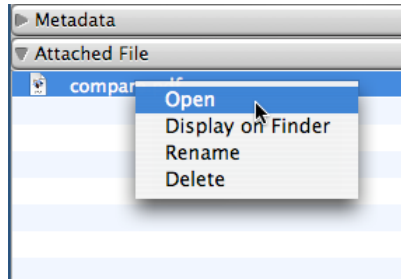
3. Delete start after clicking OK.

4. The file is deleted.



5. To Open Attached file

1. Assign the file which you want to open. Right-click(or Control+click) and select “ Open” .



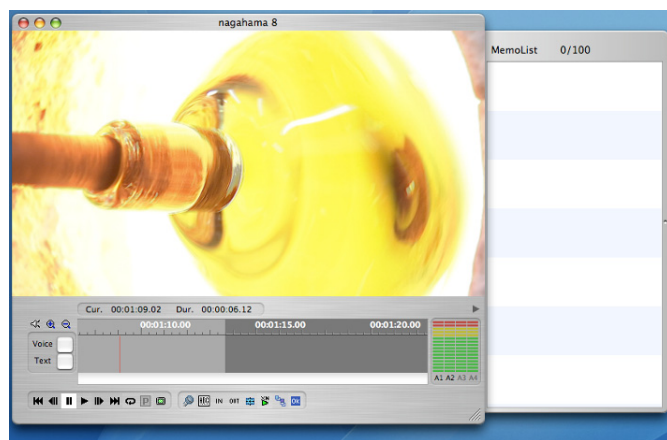
2. The attached file is opened by associated application.

Playback by P2 viewer You can playback P2 contents, displays and create memo data called logging data and change shot mark in built-in P2 viewer. You can playback multiple clips sequentially.

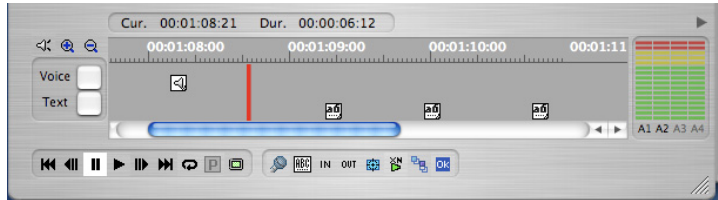
When playback window is open, the following operations are prohibited to avoid metadata miss-operation.


















- You cannot display property.
- You cannot export, restore, backup and archive.
- You cannot delete contents.

1. P2 Viewer screen



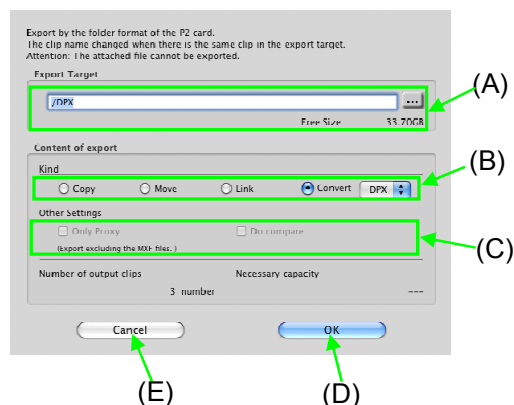
2. Playback control



-  : Jump to 1st frame
-  : one frame step rewind
-  : pause
-  : playback
-  : one frame step forward
-  : jump to end frame
-  : set loop playback
-  : play in full screen mode
-  : show play mode
-  : record voice memo
-  : record text memo
-  : record IN mark for logging
-  : record OUT mark for logging
-  : capture one frame of full size still picture
-  : faster playback in setting speed
-  : making or updating thumbnail at the current frame
-  : switch shot mark on or off

Export Export is function to output selected contents to external or internal storage such as HDD drive or flash memory and like.

1. Export window



(A) Target of export
you can set destination to export.

(B) Kind
you can select export from the following selection.

- 1) COPY
you can copy P2 contents to external or internal storage. P2 Video and Audio still remains in source disk.
- 2) MOVE (Only database mode)
you can move P2 contents to external or internal storage. P2 Video and Audio files are deleted from source disk.
- 3) Create LINK
you can export symbolic link of P2 contents. This function creates direct link to data file that P2 CMS manages. It is only for P2. When same name file exists in the directory, the file name will be changed.
- 4) Convert
It is displayed by adding plug-in software.
Please refer to the chapter of plug-in for the details.

(C) Option

1)only proxy

You can export P 2 contents excepting for heavy P 2 video and Audio file. When there are proxy file in P2 contents, it is also exported.

2) Compare

when you check it, exported file and file in source are compared as binary file.

Caution) when you export in “Move” mode, P2 contents in source are deleted after “Compare” is completed successfully. You cannot select compare in link mode.

(D) OK button

when you click OK button, selected export starts.

(E) Cancel button

when you click cancel button, you can stop selected export.

2. How to export

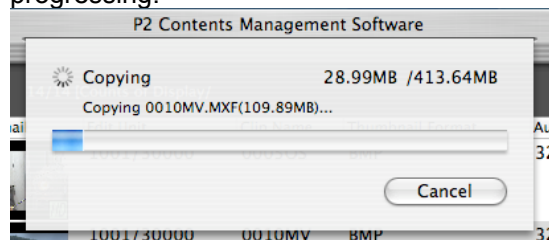
1. Please select clips and select export in “file” of file menu or select export by right click.
2. Export window opens.
3. Please click button to open directory tree in target of export.
4. Please select one from COPY / MOVE / LINK.
5. Please check in option.

In case of comparing : Check in “Compare”.

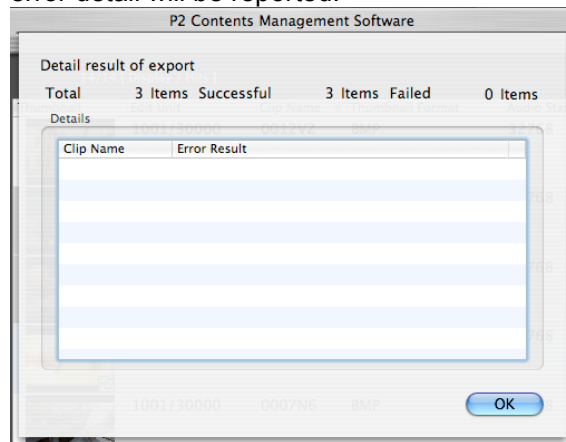
In case of not copying actual video and audio data:

Please check in [Proxy Only].

6. Please click OK.
7. When you see the confirmation to export in dialogue box, please click OK.
8. In move mode, P2 contents in source are deleted.
9. Exports starts.
10. During “Export”, progress bar displays how “Export” is progressing.



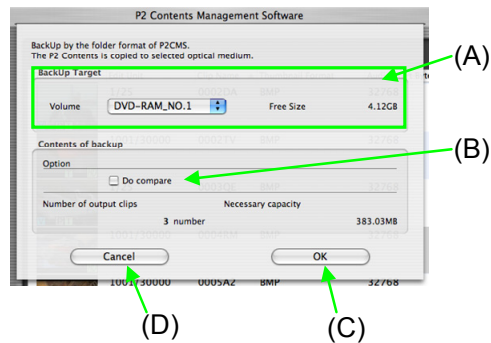
11. When export is completed, the Export result window is displayed. When some clips are failed to be exported, the error detail will be reported.



12. When you click OK, you can go back to main window.

Backup This is function to back up selected P2 contents to optical disk.
(Only database mode)

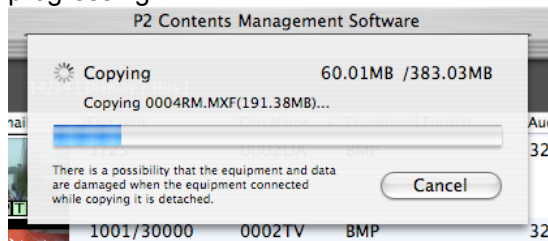
1. Backup screen



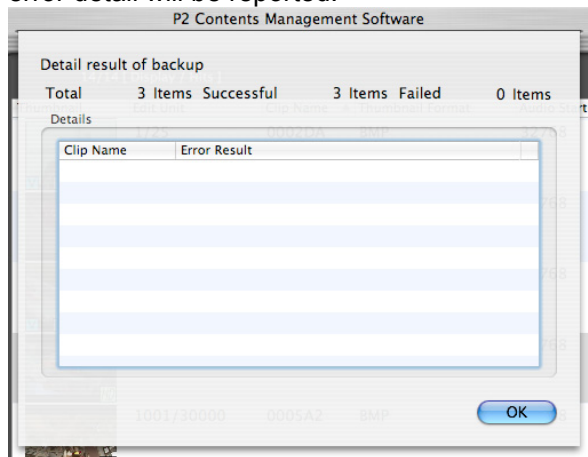
- (A) Volume
You can select optical drive here. (Only optical drive is possible to be selected.)
- (B) Compare
when you check it, backed up file and file in source are compared as binary file.
- (C) OK button
when you click it, “back up” starts.
- (D) Cancel button
When you click it, you can cancel export

2. Output to backup

1. Please select clips to back up and select back up by right click or from back up in file of file menu.
2. Back up windows opens.
3. Please select one drive to backup in combo box.
4. Please check in compare when you want to do.
5. Please click OK.
6. The dialogue box opens to display media name.
7. When you click OK to start backing up.
8. During “back up”, progress bar displays how “back up” is progressing.



9. When “back up” is completed, the result report window is displayed. When some clips are failed to be backed up, the error detail will be reported.



10. When you click OK, you can go back to main window.

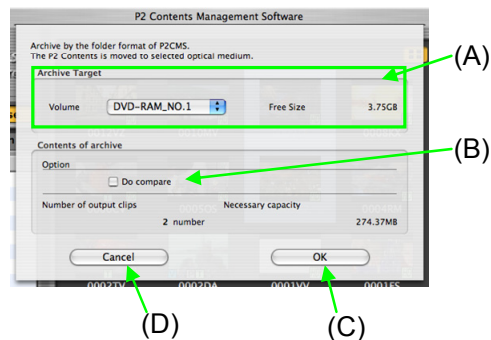
3. About back up media

Operation with back-up media (optical disk) is the following.

- Rebuild from media
you can recreate database from media backed up. The heavy P2 video and Audio is not restored in this command so please do it by restore when you need after rebuild from media.
- Register (Ingest)
You can ingest P2 contents from backed up media.

Archive Archive is function to archive data and P2 contents that are selected to optical disk In this operation, Heavy P2 video and audio files are deleted in source but database and proxy video are still in source. Therefore you can search P2 contents here. (Only database mode)

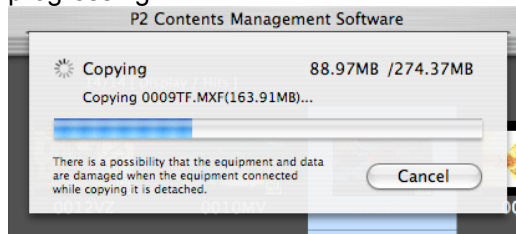
1. Archive screen



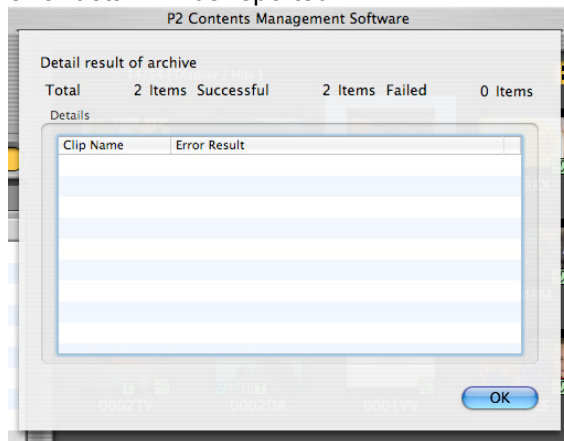
- (A) Drive
you can select optical drive here. (Only optical drive is possible to be selected.)
- (B) Compare
when you check it, archive file and file in source are compared as binary file.
- (C) OK button
when you click it, "Archive" starts.
- (D) Cancel button
When you click it, you can cancel archive

2. Output to archive

1. Please select clips to archive and select [archive] by right click or [Files] → [Archive] in file menu.
2. Archive windows open.
3. Please select one drive to archive in combo box.
4. Please check in compare when you want to do.
5. Please click OK.
6. The dialogue box opens to display media name.
7. When you click OK to start Archive.
8. During “Archive”, progress bar displays how “Archive is progressing.



9. When “Archive” is completed, the result report window is displayed. When some clips are failed to be archived, the error detail will be reported.



10. When you click OK, you can go back to main window.

3. About archive media

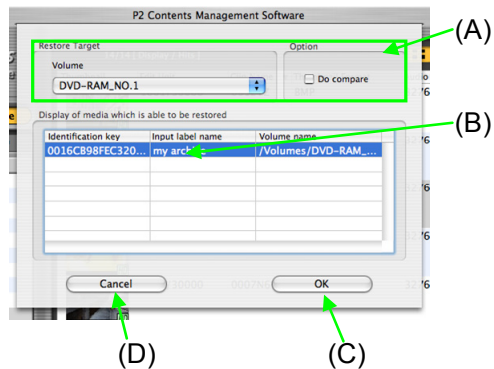
Operation with Archive media (optical disk) is the following.

- Restore
You can restore data from optical disk to hard disk drive and P2 contents archived.
- Rebuild from media
You can rebuild database from archived media. The video and audio is not restored in this command, so please do it by restore when you need after rebuild from media.
- Register (Ingest)
You can ingest P2 contents from archived media.

Restore

You can copy selected clip information from optical disk media to the folder that P2 CMS manages. (Only database mode)

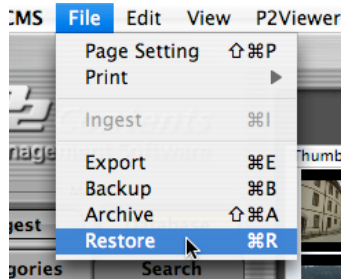
1. Restore screen



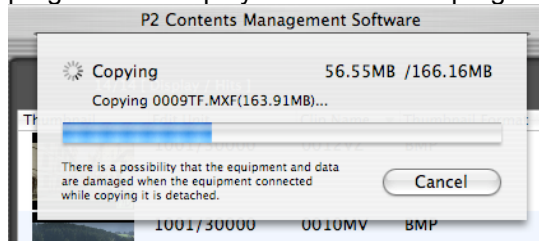
- (A) Drive set combo box
you can set optical media drive.
- (B) Compare
when you check it, restoring file and file in source are compared as binary file.
- (C) OK button
when you click it, “restore” starts.
- (D) Cancel Button
when you click it, you can cancel restore.

2. How to restore

1. Please select clip of that status is offline and select restore by right click or select restore in file of file menu.



2. Restore screen open and you must select and insert disk media that has volume name and text name
3. Please set drive that you insert optical disk to restore in combo box
4. Please check in compare when you want to compare.
5. Please click OK
6. Restore will starts.
7. When you need to restore more than 2 disks, same message in dialogue box appears as you see in restore screen.
8. When you click OK to start restore. During “restore”, progress bar displays how restore is progressing.



Caution) When you click “cancel” during “restore”, you can cancel Clips that is not yet restored. Clips that are already restored are not canceled.

- [illegible]

10. When you click OK, you can return to main screen.

3. Caution

1. When you edit meta data of P2 contents stored in rewritable disk such as BD-RE and DVD-RAM, any points of difference is generated between database in source and database in backed up optical disk
2. In restore, P2 CMS overwrite P2 data from optical disk drive to hard disk drive.
(ex) As well as p2Viewer, P2 CMS does not also match user clip name between XML file and MXF file.
3. When P2 CMS ingest P2 contents from optical, it is registered as new clip.

P2 card management

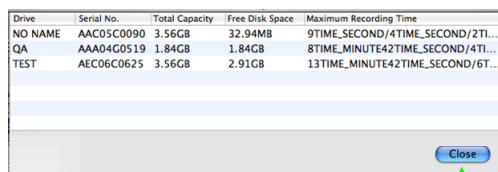
The panel which displays information of P2 cards which are inserted into each slots opens.

Panel displays the followings.

- Drive name which P2 cards are inserted into.
- Serial number of P2 cards.
- Total capacity, free disk space and maximum recording time of P2 cards.

P2 CMS can display P2 card properties.

1. P2 CARD properties



Drive	Serial No.	Total Capacity	Free Disk Space	Maximum Recording Time
NO NAME	AAC05C0090	3.56GB	32.94MB	9TIME_SECOND/4TIME_SECOND/2TI...
QA	AAA04G0519	1.84GB	1.84GB	8TIME_MINUTE42TIME_SECOND/4TI...
TEST	AEC06C0625	3.56GB	2.91GB	13TIME_MINUTE42TIME_SECOND/6T...

(A)

(A) Close button

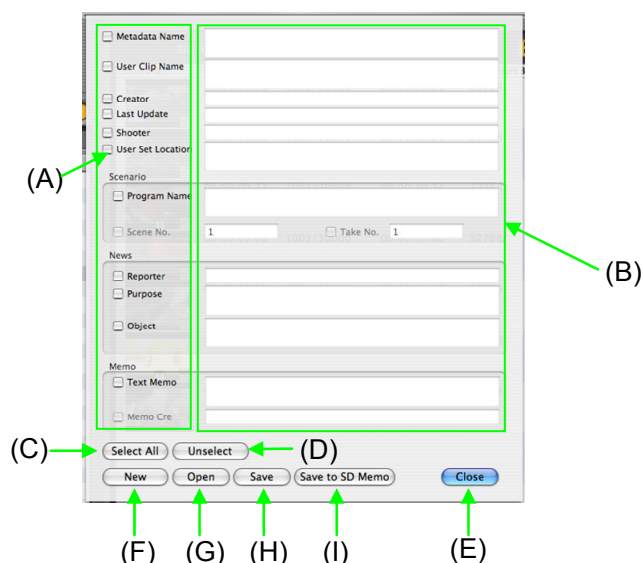
Close P2 card property card by clicking this button.

Metadata upload

This is to upload metadata to SD card. With this card in P2 video camera, metadata in SD card is created automatically in all clips when shooting.

You can input the following meta data as default value.

1. Metadata upload screen



- (A) Items of Metadata
Check "check box" which you want to input or update and you can input or update data.
- (B) Metadata
You can input metadata which P2 supports. But you have to check "check box".
- (C) Select All button
All items of metadata are checked. (All check boxes are "ON".)
- (D) Deselect button
All items of metadata are unchecked. (All check boxes are "OFF".)
- (E) Close button
It close the metadata upload screen.
- (F) New
It clear all metadata on the screen.
- (G) Open
It opens the file which is for metadata upload. The extension must be ".P2" .

(H) Save

It saves the file which is for metadata upload. The extension must be “.P2”.

(I) Save to SD card

It can save the file to SD card. Select volume after panel's opening. It is saved to SD card as new file. P2 products can load metadata by reading SD card.

(Drive Name) :

PRIVATE/MEIGROUP/PAVCN/SBG/P2SD/MTDT**.P2

(** are 2 numeric character.)

2. Creating new metadata

1. Please select metadata upload from tool and click NEW button.
2. Current working screen is refreshed to new.
3. You can start typing metadata in blank.

3. How to open metadata upload file

1. Please click OPEN button.
2. Please select a metadata upload file from open dialog.
3. The relevant metadata upload file is open and display the screen.

4. How to edit metadata upload file

1. When you open a metadata upload screen, the blank sheet is displayed.
2. There are check-boxes in every item and items are coming to effect with check.
3. Only items checked are saved and to P2 file is this extension of this file.

5. Caution

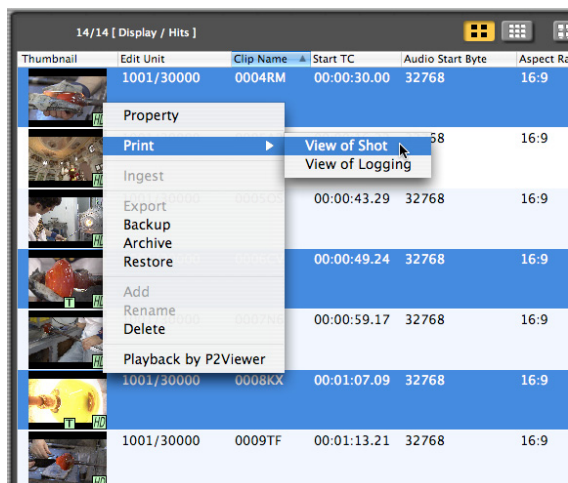
1. When you click NEW button, typed information is cleared. There is no conformation for this task.
2. When you check in scenario and program name, scene NO and take No is activated.
3. When you check memo and text memo, you can input person.
4. There is no function to edit XML of clip and database.
5. When you select multiple clips and open metadata upload screen, the screen opens with no information.
6. In each items, there is limitation in number of letter as you can see the following list.

Property name	Number of digits
Metadata name	100
User clip name	100
Creator	30
Last update person	30
Shooter	30
Place of shooting	100
Program name	100
Scene no.	10 (0-4294967295)
Take no.	10 (0-4294967295)
Reporter	30
Purpose	100
Target	100
Creator of memo	30
Text memo	100

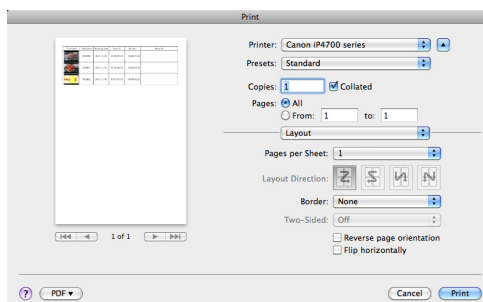
Printing

You can print out shot lists and logging list

1. Shot list printing



1. Please select clips and select print shot from print by right click(or Control+click) or select print shot of file in file menu.
2. The following print screen opens.



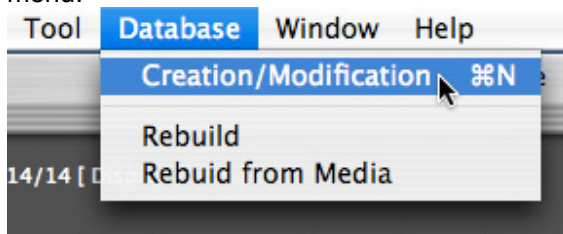
3. You can print out or export a file as PDF etc. here.



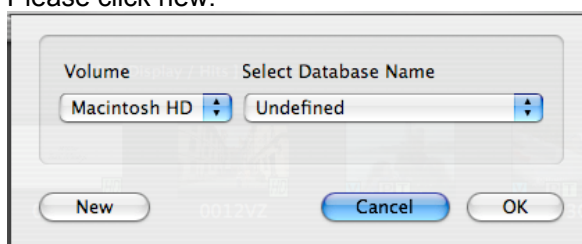
Database

How to create new database

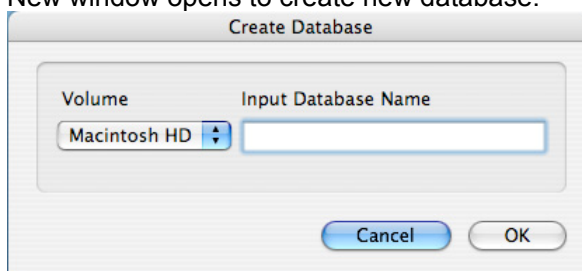
1. Please select creation/modification from database of main menu.



2. Please click new.



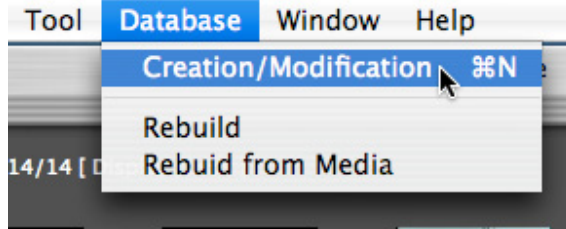
3. New window opens to create new database.



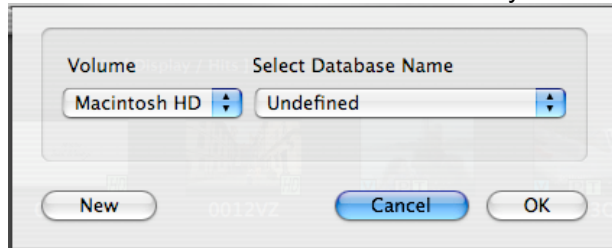
4. Please set volume and input database name.
5. Please click OK.
6. You can start working on this new database and close database screen.

2. How to open existing database

1. Please select creation/modification of database in main menu.

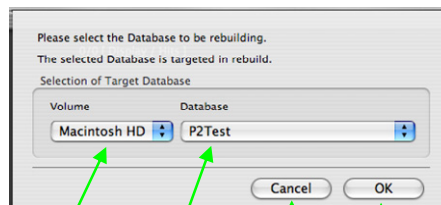


2. Please set volume that there is database you want to open.



3. Please select volume and database that you want to open.
4. Please click OK.

3. Database rebuild screen



(A) Volume

(A) Volume
Please select a drive where there is a database that you want to rebuild.

(B) Database

(B) Database
Please select a database that you want to rebuild.

(C) OK button

(C) OK button
this is to open database.

(D) Cancel button

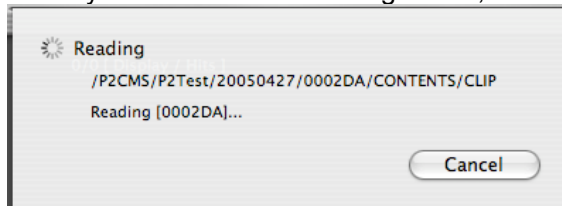
(D) Cancel button
this is to close window.

4. How to rebuild database

1. Please select [Database] → [Rebuild] in file menu.
2. Please select drive where there is a database that you want to rebuild.
3. Please select project name that you want to rebuild.
4. When you click OK button, the following confirmation message opens.
(The message is to confirm if you are sure to disconnect current database.)

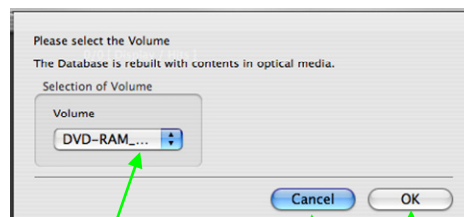


5. When you click OK in this dialogue box, rebuilding starts.



6. When rebuilding finishes, the dialogue box is closed.

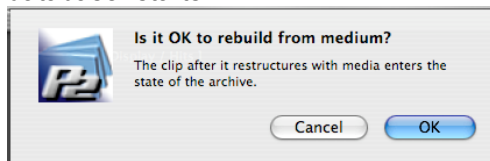
5. Database rebuild from media screen



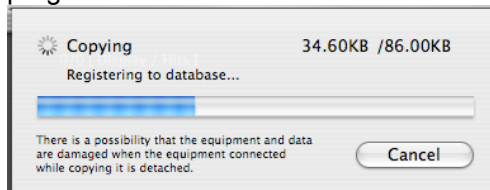
- (A) Volume
This is to select drive where there is database to optimize database
- (B) OK button
This button is to starts" the rebuild" database.
- (C) Cancel button
This is to close "the rebuild from media screen".

6. How to rebuild from media

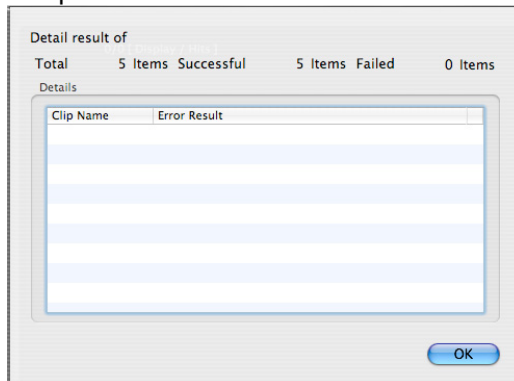
1. Please select “rebuild from media” of database in file menu.
2. Please select drive where there is a disk to rebuild from media.
3. When you click OK, the confirmation dialogue box opens. When you try to open the database that is open, the confirmation message to close current database open.
4. When you click OK of this confirmation message, “rebuild database” starts.



5. During “Database rebuild”, the status bar indicates this progress.



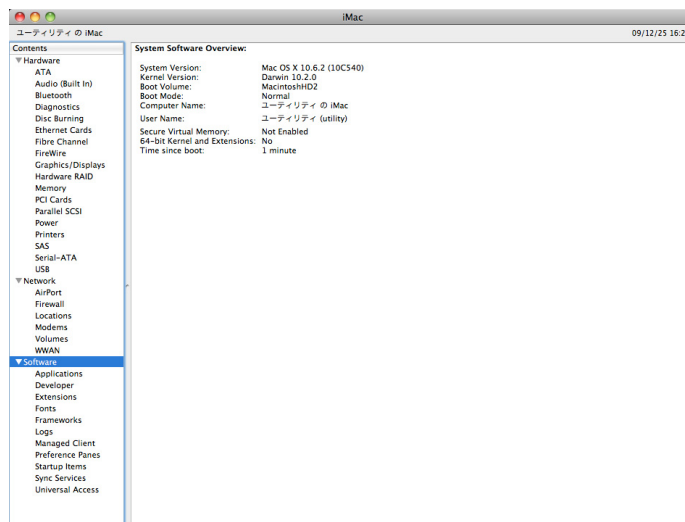
6. The message opens to inform that “database rebuild” is completed.



System information

This is window to display system information for P2 CMS

1. System Profiler



2. How to confirm system information and to save file.

1. Please select “system information” in P2CMS menu.
2. You can confirm current system information here.
3. When you select [File]-[Save As...], you can save list of system information to text file etc.
4. When you select [Quit System Profiler], “system information window “is closed.

Version

Display the version of the P2CMS software.

1. Version



2. How to confirm version

1. Please select "About P2CMS" in P2CMS menu.
2. You can confirm version here.
3. click to close.

Setting

Setting window

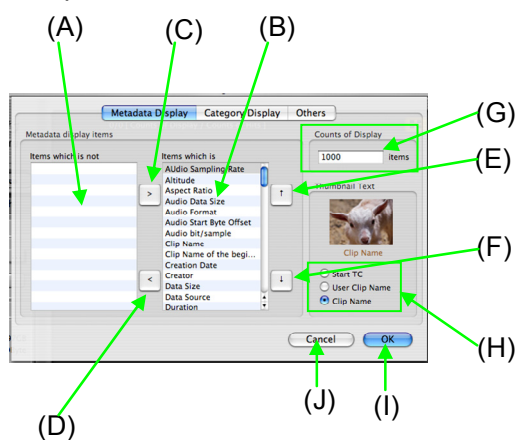
1. How to make general setting.

Please select option of tool in file menu.

How to display metadata

2. How to display metadata

You can select which kinds of metadata should be displayed in clip at main screen.



(A) A list of non-displayed items

(B) A list of displayed items.

(C) Add button





It adds items which are selected on the list of (A).

(D) Delete button

Delete items which are selected on the list of (B).

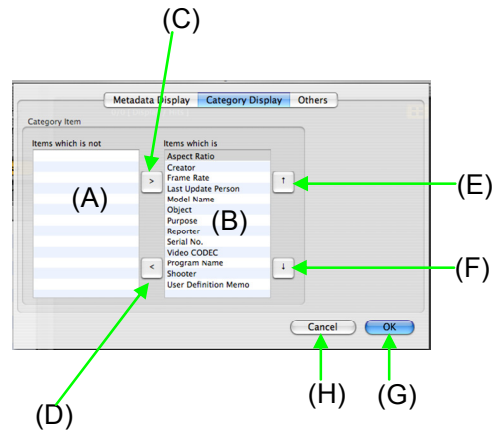
(E) Order change button (Front)

Move the item which is selected on the list of (B) to the front.

- (F) Order change button (Back)
Move the item which is selected on the list of (B) to the back.
 - (G) Count of display
Setting of Maximum number of clips which can display .
 - (H) Thumbnail text.
Setting of contents which are displayed when thumbnails are displayed.
 - (I) OK button.
This button is to update the setting.
 - (J) Cancel button.
This is to close the setting screen.
- You can also edit items of metadata in display.
 - (1) The items that you want to display must be moved to list at right side by click button .
 - (2) The items that you do not want to display must be moved to list at left side by click button .
 - (3) When you want to edit order of display item, you must select selected items of display and change order by ups and down button  .
 - (4) This change is updated when you click OK.
 - How to set up maximum number of clip display
 - (1) Please type number of display in half size numeric number.
 - (2) This change is updated when you click OK.
 - How to set up items of display text under thumbnail.
 - (1) You can select from start TC, user clip name or clip name in radio button.
 - (2) This change is updated when you click OK.
 - (3) Texts under thumbnails are changed as you set.

3. Display category setting

You can select display category in items of category tree in the following window.



(A) A list of items which are not displayed

(B) A list of items which are displayed

(C) Add button

Items which are selected on a list of (A) are added on a display list.

(D) Delete button

Items which are selected on a list of (B) are deleted from a display list.

(E) Order change button (Front)

An Item which is selected on a list of (B) is moved to the front position.

(F) Order Change button (Back)

An Item which is selected on a list of (B) is moved to the back position.


(G) OK button


This button is to update the setting.



(H) Cancel button

This is to close the setting screen.

- You can edit display category in items of category tree here.

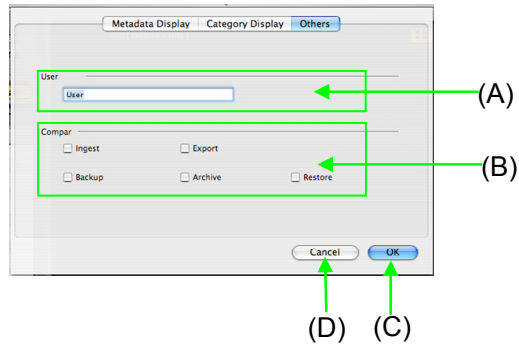
(1) Items that you want to display can be moved to right side list by clicking button 

(2) Items that you do not want to display can be moved to left side list by clicking button 

- (3) When you want to edit order of display items, you must select selected items of display and change order by ups and down button  
- (4) This change is updated when you click OK.

4. Other setting

Please select “Others” tab



(A) User Name setting

Please input name of person who update P2 CMS database. This name is written as last update person in metadata info. (Maximum: 30 characters)

(B) Compare setting

you can select to compare or not in Ingest, Export, Backup, Archive or Restore. When you select to compare this data of contents in source and this saving data of contents in binary level, you can keep data consistency between them but became processing at half the speed.

(C) OK button

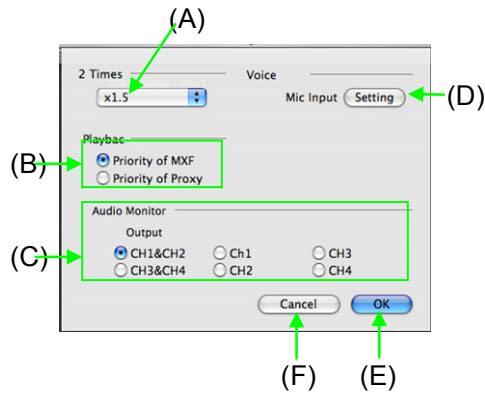
This button is to update the setting.

(D) Cancel button

This is to close the setting screen.

5. How to set P2 viewer

Please select setting in P2 Viewer of file menu.



- (A) Speed setting
you can set ratio of FF setting. The scale is changed from 1.5X to 4X and its step is 0.5X.
- (B) Playback setting
you can select playback MXF or proxy file in priority.
- (C) Audio output channel
you can select output channel of audio.
- (D) MIC input level
you can set MIC input level for voice memo recording.
- (E) OK button
this change is updated when you click OK.
- (F) Cancel button
You can close screen without updating setting when you click cancel

Plug-in

DPX Converter Plug-in

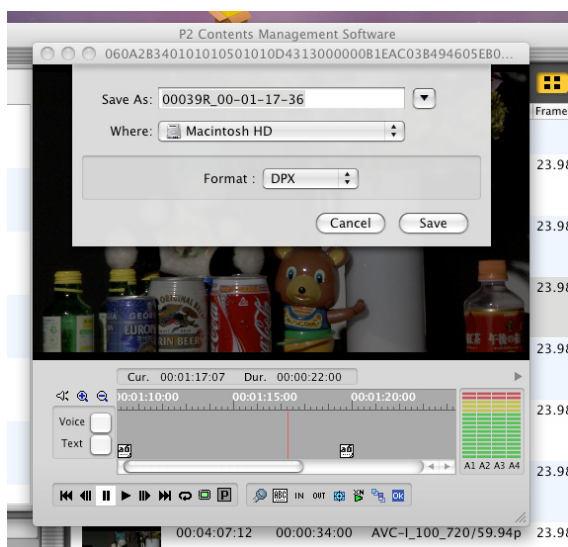
A DPX conversion function becomes effective by installing exclusive DPX conversion plug-in. It is necessary for an AVC-Intra decoder to be installed when I install this conversion plug-in.

You can convert only AVC-Intra100.

- ✧ Please convert it for material collected with a Film REC mode. When DPX converted P2 which you select different camera mode, the most suitable color reproduction is not possible by a color conversion function.

1. Conversion with P2 Viewer

You can choose DPX in a save form by clicking a capture button with P2 Viewer.(Please refer to the playback of the chapter of the function for details on the P2 Viewer.)



2. Conversion with Export

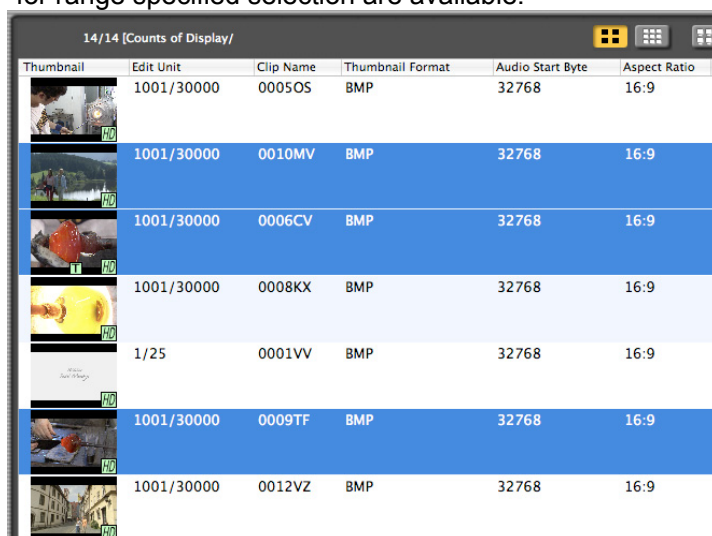
1. Please logging P2 contents, you choose necessary parts of P2.

If IN/OUT point isn't registered, all range is converted.

(Please refer to the "Logging P2 contents" of the chapter of the "How to operate P2CMS" function for details)

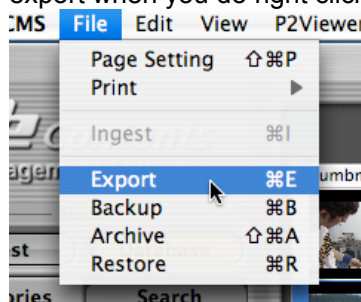
2. Please select clips in display that you want to convert DPX files.

When you click each P2 contents thumbnail, you can select P2 contents to print out and short cut key such as $\text{⌘}+\text{A}$ "to select all", $\text{⌘}+\text{click}$ "to select clips as you want", $\text{Shift}+\text{click}$ "for range specified selection are available.

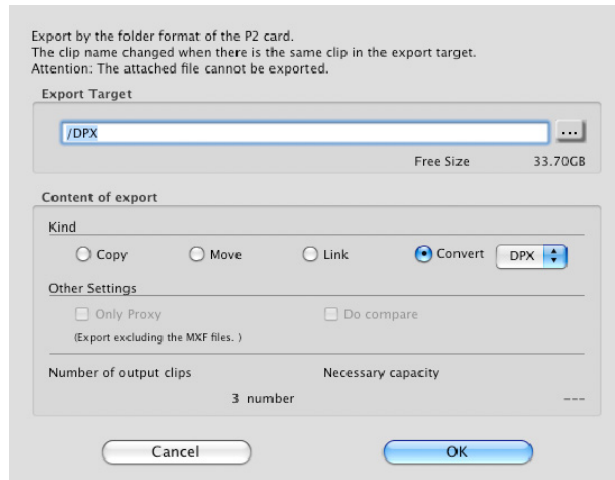


Thumbnail	Edit Unit	Clip Name	Thumbnail Format	Audio Start Byte	Aspect Ratio	
	1001/30000	0005OS	BMP	32768	16:9	(
	1001/30000	0010MV	BMP	32768	16:9	0
	1001/30000	0006CV	BMP	32768	16:9	0
	1001/30000	0008KX	BMP	32768	16:9	(
	1/25	0001VV	BMP	32768	16:9	(
	1001/30000	0009TF	BMP	32768	16:9	0
	1001/30000	0012VZ	BMP	32768	16:9	(

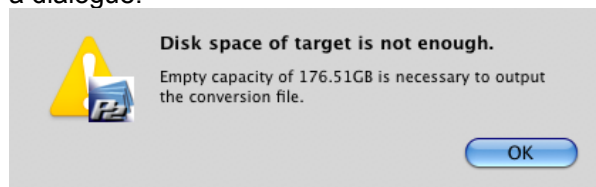
3. Please pull down to export in file of file menu or select export when you do right click.



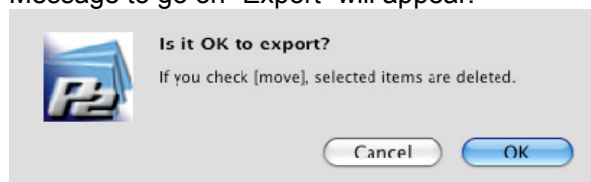
4. Please set the directory in your way of setting, and then click OK.



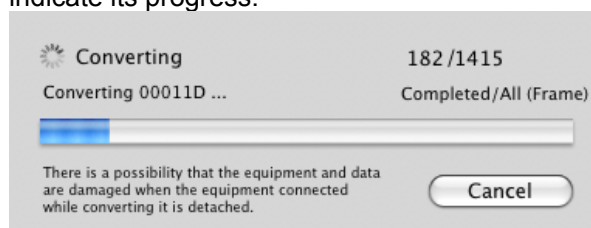
5. When capacity is not enough in the destination, I display a dialogue.



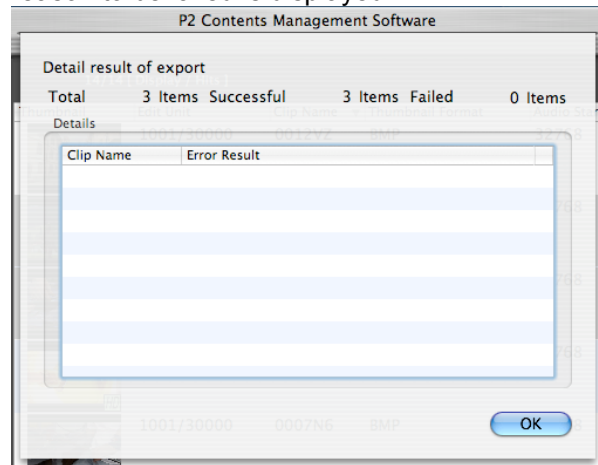
6. Message to go on "Export "will appear.



7. After clicking OK again, progress bar will appear to indicate its progress.



8. The result report appears
Number of P2 contents converted, failed to convert and reason to be failed is displayed.



9. After clicking OK again, return thumbnail display .

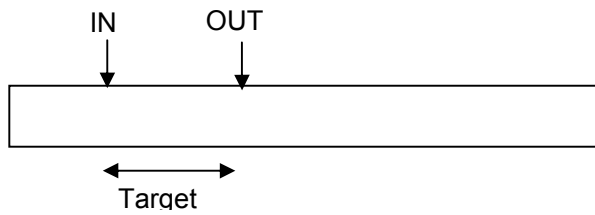
3. some IN/OUT point ex.

You cannot give identification information to an IN/OUT point.

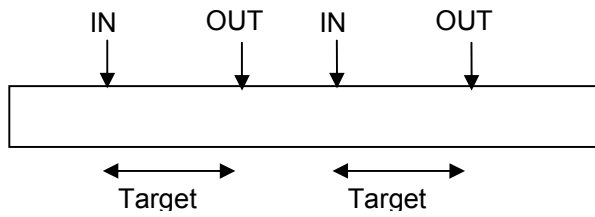
<ex.1>



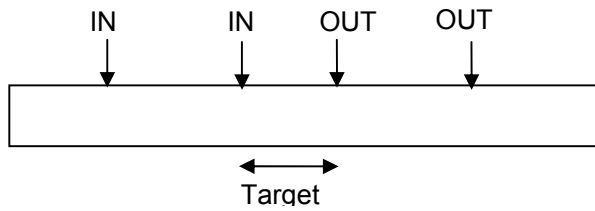
<ex.2>



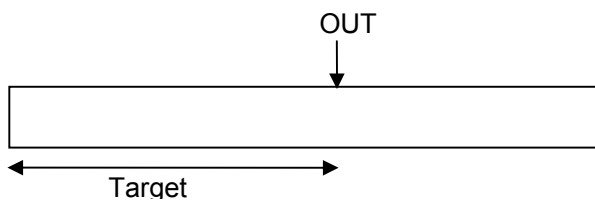
<ex.3>



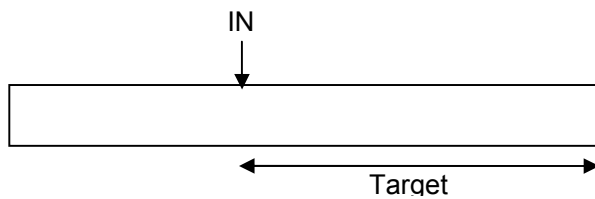
<ex.4>



<ex.5>



<ex.6>



Appendix

How to

How to connect to optical disk

Please read each operation guide carefully when you connect optical drive like BD RE drive to computer.

When optical drive is ready to use, its icon is displayed on your desktop and Finder.

You can back up with selecting this volume name.

To select backup or archive media

You can use only optical media which are written by file unit for backup or archive. They are DVD-RAM or BD-RE in general.

In some media writing speed or reading speed may be extremely slow because of relationship between OS and driver.

In some media demands the special driver software.

We recommend that you select media carefully confirming performance of reading or writing every environment.

In case you cannot register in database

It is often occurred when database is opened by other application or storage capacity is not enough to work.

When you want to use note PC.

This application is designed for standard PC. But removable storage may be detached in some environment because big video data is copied by ingesting or exporting and so on.

If you use removable storage to manage database, please confirm compatibility or stability.

When you want to backup P2 contents to USB hard disk drive.

Please export P2 contents you need in export function.

When you need to reduce capacity in hard disk where database has been created, please use export P2 contents by move option. They are deleted from storage and database.

When you want to give P2 contents in optical disk to someone

Please export P2 content you need.

Remarks: Please check copy option to export. If you check move option, they are deleted when you move.

When you want to register scenario data to multiple clips

It is not possible to attach file to multiple clips at the same time. When you want to do,

Please attach files by clip. You need extra space in hard disk as you attach.

When you want to install P2 CMS to PC where non-linear editing software has been installed

Please ingest P2 contents with selecting folder where non-linear editing system exports in P2 file.

When you want to edit P2 contents in P2 CMS database, you can use link function in export function. You can make direct-editing its P2 contents. However when nonlinear editing system change their contents, it is better to use simple copy function instead since the change is reflected to P2 contents even in database of P2 CMS.

When you feel that it takes too long time to ingest/export/backup/archive/restore.

Please check if you check compare at the other setting. If not, please check hardware environment you use. Executing time will change by not only PC performance but also peripherals performance or connections.

When you want to input label name of media for backup/archive.

You can designate only one name to every media. Input column shows last characters. If you change the name, you might be confused in case of restoring P2 contents which you backed up. We recommend not changing the name.

Spanned clips are shown when you search by ClipID.

Some P2 contents consist of multiple clips in case of shooting by P2 products. If you search by ClipID, only a part of multiple clips may be hit. At that time they may be displayed as incomplete contents.

When result report shows different number.

If you ingest 2 contents and they include spanned file, number of clip files will be more than 2 because P2CMS displays number of clips. P2 files are saved separately if you want. It is definition of P2 format. So P2CMS display them as clips.

I failed to copy in ingest mode.

You may fail to copy in condition PC environment or removal storage. Especially if you designate removal storage as database folder, PC may disconnect removable storage during copy. If it frequently happens, please copy big size file by using explorer. Even if you use explorer and error happen, please check storage or PC.

If copy is failed, data (P2 files) may not be copied. In case of deleting P2 files from P2 card, please confirm if P2 card contents are successfully copied to storage. And in case of backup, please confirm if P2 contents are successfully backed up to optical discs.

Normal video is played back even if you push Proxy button during sequential playback.

Proxy button which is deployed on playback screen works only the current playing back contents. When you playback sequentially, you have to set priority by checking prior proxy or actual video at the viewer setting.

I cannot start up P2CMS in database abnormal.

If your database is collapsed which you are using last, the application will not start up. If so, please recover by the following procedure.

1) Delete the last database.

Please delete P2CMS_MANAGEMENT.db in database folder by using Finder.

2) Create database by starting up P2CMS

Dialog to create database will appear because database is deleted. Designate database which is deleted and start up.

3) Rebuild database.

You have to recover database from storage because you cannot search database which is collapsed.

Execute Database → Rebuild from main menu. Database will be recovered.

If you have archived contents, you have to rebuild all archived contents from media by clicking [Database → Rebuild from media] from main menu. Archived contents will be recovered every media.

I failed to install.

Installer is Macintosh standard. You may need internet environment to install some components. We recommend installing software in environment you can connect to Internet.

You may not install nor work properly if you connect some peripherals. We recommend installing at environment which you connect minimum peripherals.

When you want to confirm picture which already backup

When you change it for detailed / text indication with Thumbnail display, the last can identify the volume name as the label name which I backed up.

When is not displayed; Please select option of tool in file menu, add it to the meta data display item.

When it is slow to display the clips.

It might take time for the display when a lot of divided clips are displayed. It takes time further when sorted with Duration on the screen.

The available space is different from the space displayed in Finder.

When the available space is displayed in this application, 1024 KB is calculated as 1MB. The available space may be displayed differently due to the difference in the calculation method depending on the OS environment.

Application crashed.

The application may shut down due to insufficient memory caused by an increase in the number of clips to be operated. If this problem occurs, restart P2CMS, and reduce the number of clips to be operated.

Note that this phenomenon does not have any effect on P2 data and P2CMS application program.

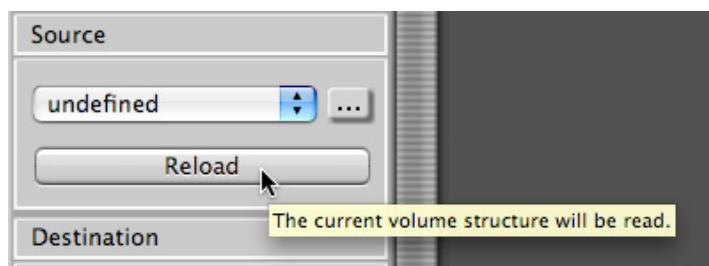
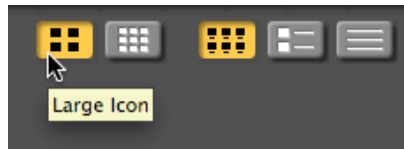
Error message

A database file does not exist.
<ul style="list-style-type: none"> Database folder may be something wrong. Please confirm the connection if you are using removable HDD. Database file "P2CMS_MANAGEMENT.db" may be deleted or corrupted. Please confirm if database file exists. If database file exists, please use database rebuild function to recover it.
Failed to save into database.
<ul style="list-style-type: none"> Database file "P2CMS_MANAGEMENT.db" may be corrupted. Please confirm if database file exists. If database file exists, please use database rebuild function to recover it.
Disk space of target is not enough.
Disk space is not enough.
<ul style="list-style-type: none"> Target disk space may not be enough. Please expand HDD capacity in case of ingest or restore. Media which is used at removable device may not be recognized. Please confirm if the removable drive is normally recognized. Target drive may not have media. It may occur in case that target drive does not have media to export, backup or archive. Please insert media into target drive.
Optical disc is not found.
<ul style="list-style-type: none"> Disc may not inserted. Please insert the disc. The media which is not supported may be inserted. CD-R,DVD+-R,BD-R are not supported. Please use media which are supported. Media may be corrupted. The disc which is inserted may be corrupted.. Please change it.
It failed to copy a file. It rolled back.
<ul style="list-style-type: none"> Copy may be failed or canceled at Ingest/Export/Backup/Archive/Restore. Please redo or confirm the contents which are operated. Target clips may be write protected media or folder. Please change permission of target clips.
It failed to copy a file. It rolled back.
<ul style="list-style-type: none"> File comparison at Ingest/Export/Backup/Archive/Restore is failed. Please confirm P2 contents which are operated.
Cancel processing.
<ul style="list-style-type: none"> The user canceled. There is no problem. Please execute again if you want to do.
Writing to target is protected.
<ul style="list-style-type: none"> Permission may not be allowed. Please change permission of target folder which you copy or export. The target drive may not be ready or be something wrong. Please confirm if you can access the target drive.
Failed to save. Please confirm if it is locked.
<ul style="list-style-type: none"> Permission to access database is not allowed. Please change permission of database file.
The clip of this name cannot be Ingested to the same 101 folders or more.
<ul style="list-style-type: none"> The clips which have the same clip ID which is registered on database may be more than 100clips. Please change database.

There is no <x> file. <x> x: AUDIO, CLIP, ICON, PROXY, VIDEO, VOICE
<ul style="list-style-type: none"> The contents of metadata and the file structure are different. Please confirm P2 contents. P2 format of the P2 contents may be wrong.
Target database is not found. Please connect the target drive.
<ul style="list-style-type: none"> You may not have permission. Please change permission of the folder. Database folder may be something wrong. Please confirm if you can access the drive which include database folder.
The selected clip is off the subject of restoring.
<ul style="list-style-type: none"> You are restoring the clips which are not archived. You can not restore because the contents have already existed on HDD.
Archived clip is off the subject of operation
<ul style="list-style-type: none"> You cannot execute process which is not applied to archived clips. Please don't select the clips which are archived.

ToolTip

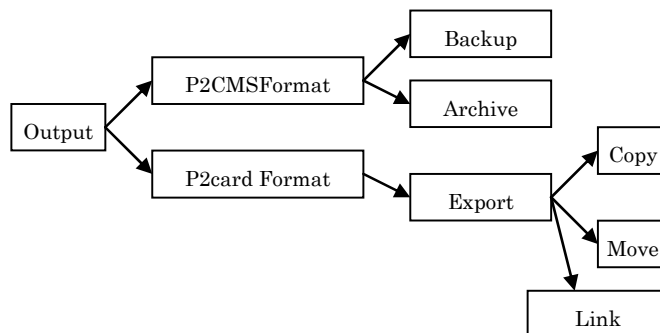
ToolTip is on line help when brief explanation in balloon is pop up when component button is indicated by arrows and it gives you relevant information is pointed



Technical Term

Output of P2contents

The method how to output P2 contents is the followings.



Output to optical media is executed by P2CMS format.

In case of copy, please use back up command. In case of move, please use archive command.

Remarks: You cannot delete archived data on database.

This application doesn't have format function for optical media.
Please format it by another application. (If you insert unformatted media, process will be failed.)

You can export P2 contents to optical media by P2CMS format or P2 card format. You can select Copy/Move/Link.

Optical media recognition and management

This application can manage optical media by the following 3 type of data.

1. Recognition Key
When you archive or back up to optical media, This application create recognition key to specify the media. It consists of product unique value and time information. You cannot search by P2CMS.
2. Volume Name
It is volume label of optical media. You can record it to specify media for backup or archive. But if you modify it, you might not manage it. You can use up to 30 characters.
3. Label Name
It is label of optical media. You can record it to specify media for backup or archive. But if you modify it, you might not manage it. Label name is added when you format an optical disc. This application does not operate it. You can use up to 11 characters every media.

Recognition Key is for application which recognizes discs. It is not necessary for users.

Volume Name is value which you can input when you format optical media. Users can modify it.

Label Name is this application dedicated function. It is written on optical media. Users can modify it.

Volume Name will be already input if it is formatted. We recommend managing media by using label name and putting it on media or media case.

Clip

The unit of P2 contents is called “clip”.

The long recording contents is divided into multiple clips in case that the recording time is more than the time which are described on the following table or P2 card free space is not enough and so on. The contents which consists of multiple clips is called spanned file.

Recording Format	Recording Time
AVC-Intra100/DVCPRO HD	Around 5 min.
AVC-Intra50/DVCPRO50	Around 10 min.
DVCPRO/DV	Around 20 min.

*1 In case of 720p/30PN, recording time is double.

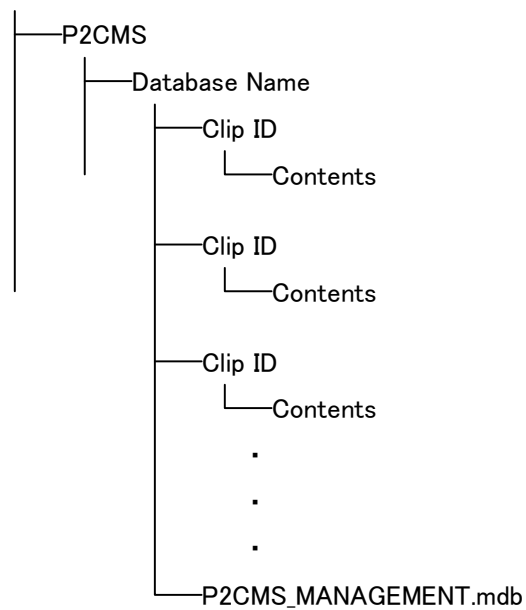
In case of 720p/24PN, recording time is x 2.5.

This software can handle serial recoded clips as 1 clip. But number of clips which are displayed on search result screen or modify confirmation screen is physical number of clips. If content consist of 3 clips, result screen says 3 even if it is 1 content.

Save format

This software save P2 contents into storage which is attached PC. It creates P2CMS folder at the top directory of storage and database folder which is include database file and P2 contents is created under it.

Drive :



* The folder where contents are saved depends on sub folder which you have assigned.

P2 Card Format

P2 Card File Format is the format which P2 card is recorded by.

P2 format is based on MXF OP Atom which is SMPTE standard.

It includes important information except Video and Audio data.

If you use explore to copy, move or delete p2 contents, you may have a problem. If you would like to copy, move or delete, we recommend using P2 viewer or P2CMS.

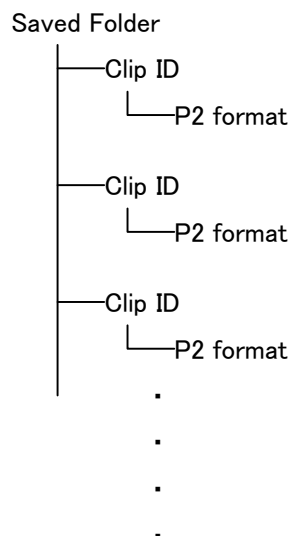
If you would like to use P2 contents by P2 products, the file format must be P2 format. If you would like to use the contents which you search at P2CMS, please use export function to output the files.

P2CMS Format

In case of P2 format, multiple clips are stored in the same folder each by each. On the other hand, in case of P2CMS format, one folder includes one contents.

The folder structure of P2CMS format is as it is described on the following figure.

In case that clip ID is duplicated, the clip ID is changed to "Clip ID + number (0 ~99)". So you can manage up to 101 clips which have the same clip name.

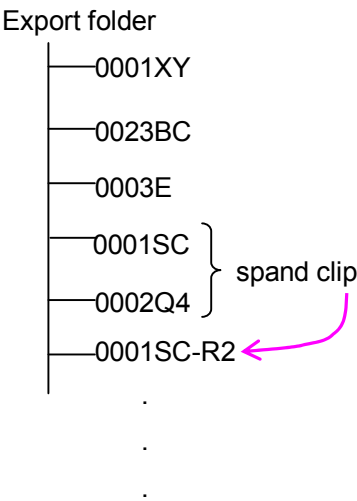


* This format (P2CMS format) does not have compatibility with P2 card format. If you want to use contents with P2 products, please use export function of P2CMS.

DPX export Format

When you output DPX files by export, each CLIPNAME folder created.
The folder makes the clip without the output object

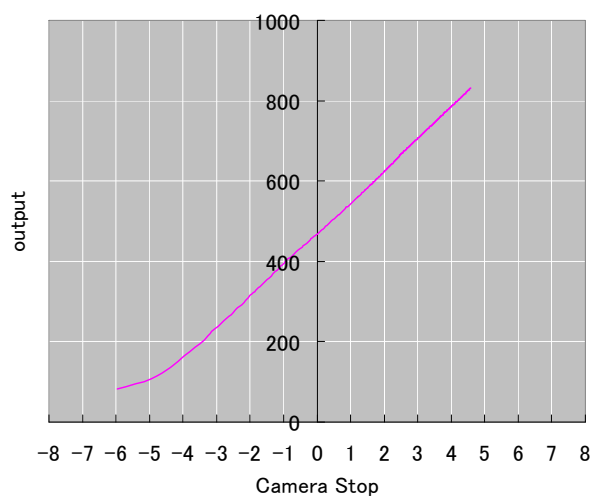
In the case of divided clips, folder of the CLIPNAME+R *(divided
count) is created and makes alias to each DPX file.
The folder structure is as it is described on the following figure.



When it is not supported alias by an application, a limit may occur for
access.

Characteristic Curve

When you converted the P2 Clip which shooted in FILM-REC by this DPX file converter, characteristic curve is following chart.



Red X clip

When red X indicator is displayed on P2 contents, contents have a problem. You cannot operate in a case. Even if P2CMS judge that it is normal, we cannot always guarantee that you can use it by any other P2 products.

Contents	Operation
File structure abnormal	NG
Duration abnormal (XML)	OK
Edit Unit abnormal (XML)	OK
ValidAudioFlag abnormal (XML)	OK
VideoFormat abnormal (XML)	OK
Codec abnormal (XML)	OK
FrameRate abnormal (XML)	NG / OK
DropFrameFlag abnormal (XML)	OK
VFRRatio abnormal (XML)	OK
VFRState abnormal (XML)	OK
StartTimecode abnormal (XML)	OK
StartBinaryGroup abnormal (XML)	OK
Pulldown abnormal (XML)	OK
AspectRatio abnormal (XML)	OK
UnusedOffset abnormal (XML)	OK
StartByteOffset abnormal (XML)	OK
Datasize abnormal (XML)	OK
AudioFormat abnormal (XML)	OK
SamplingRate abnormal (XML))	OK
BitsPerSample abnormal (XML)	OK

NG ---- You cannot operate.

NG / OK ---- If data is not able to be read, operation will not be executed.

Glossary of Terms

MXF

Material Exchange Format

NTFS

File system used with WindowsNT/2000/XP

P2CMS format

Preservation folder form of this application

P2 card format

Preservation folder form of P2 card

P2 contents

Material recorded by P2 format

Proxy

Low resolution video data where related P2 material is recorded by low rate

RFID

Mechanism that person and thing are identified and managed with minute wireless chip

RFID tag

Element that writes RFID information

RFID reader

Device that reads and writes RFID

USB

Standard of data transmission road where personal computer peripherals are connected with personal computer.

XML

P2 metadata file format

Ingest

Work to register and to copy P2 data.

Export

Work to output P2 data to optical media.

Offline

It must not be a material backed up and there be no material in building storage into.

Link

Mechanism that file and directory can be referred to by another passing

Logging

Work to IN/OUT mark P2 data

Optical media

CD, DVD, Blu-ray Disc etc.

Node

A basic unit used to build data structures, such as linked lists and tree data structures.

Glossary

A list of terms in a particular domain of knowledge with the definitions for those terms.

Scenario

A brief description of an event or a series of events.

DPX

Digital Picture Exchange(DPX) is a common file format for digital film work..

Panasonic Corporation
Web Site: <http://panasonic.net>

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