Operation Guide for P2 Plugin-Ex v4.9.0.5 for macOS Catalina

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1. Overview

This operation guide is escribed for P2 Plugin Ex v4.9.0.5 for macOS Catalina.
Due to big changes of macOS, This version has limitation related AVC-Proxy. Please refer section 3 in detail.

Please refer following URL in detail version compatibility;
https://pro-av.panasonic.net/en/software/p2_plugin_avid/

Followings are term of definition in this document

HDD	: Hard Disk Drive
OS	: Operating System
MC	: Avid Media Composer
P2 Plug-In Ex	: Extended Panasonic AMA Plug-In
P2 Manager	: Panasonic P2 Plug-in Manager
P2 Cam	: Panasonic P2 Memory Card Camera Recorder
Hi-Res data	: P2 clip recorded by P2 Cam
Proxy data	: Data recorded by P2 Cam together with Hi-Res data
P2 HD	: High definition footage in P2 folder structure
	(Compression format: AVC-LongG, AVC-Intra, DVCPRO HD)
AMA	: Avid Media Access

This document is covered macOS Catalina only. The illustration and GUI might be different than actual software.

1.1. About P2 Plug-In Ex

P2 Plug-In Ex is designed for Avid Media Composer v6.5.4 or later, and further function is added over years. The import/link function of P2 Clips is free of charge except AVC-LongG.
Please refer compatibility table in below URL.
https://pro-av.panasonic.net/en/software/p2_plugin_avid/

1.2. About Additional Function (charged)

Each additional function is not active initially and is able to use by activation. Each additional function is provided 30-day free trial period and you can use it with full-featured for 30 days from trial start. If you want to continue to use, please purchase Key-Code and execute activation. Single Key-Code works for two PCs.
Activation/Deactivation and version management are controlled by P2 Manager which is installed at the time of P2 Plug-In Ex installation.
(For more information, please refer section 2, P2 Manager.)
Additional functions are followings. Detail shows section 3 and 4.

*AJ-PS001 (AVC-Proxy Re-link);
   It enables Proxy data import and re-link to Hi-res data.
   Re-link is available from HD clip to 4K clip. (MC8.4 or later)
*AJ-PS002 (AVC-Intra Export):
   It enables AVC-Intra P2 export. It supports time code output and export specified location in HDD, which apply to DVCPRO family as well.
   It enables AVC-Intra2K422, 4K422 export. (MC8.4 or later)
*AJ-PS003 (AVC-LongG Export)
   It enables AVC-LongG P2 export. It supports time code output and export specified location in HDD,
*AJ-PS004 (AVC-LongG Import)
   It enables AVC-LongG import. It supports meta data import as well.

1.3. System requirement

Required OS and MC versions are indicated following URL.
https://pro-av.panasonic.net/en/sales_o/p2/avidnle_ps/index.html

Other system requirement is same as Avid Media Composer requirement..

2. P2 Manager

This software has following functions;
- Activation/Deactivation for each additional function of P2 Plug-in Ex.
- Register User Information
- Plug-In status display

2.1. How to Install

Please download latest P2 Plug-In Ex installer from following Panasonic web site and install it. P2 Manager is installed together with P2 Plug-in Ex.

https://eww.pass.panasonic.co.jp/pro-av/support/content/download/EN/ep2main/ama_e.htm

It is installed in Application > P2Plugins

2.2. How to Start Up

Launch P2PluginManager located in Application > P2PlugIns

2.3. P2 Manager Window

Version information
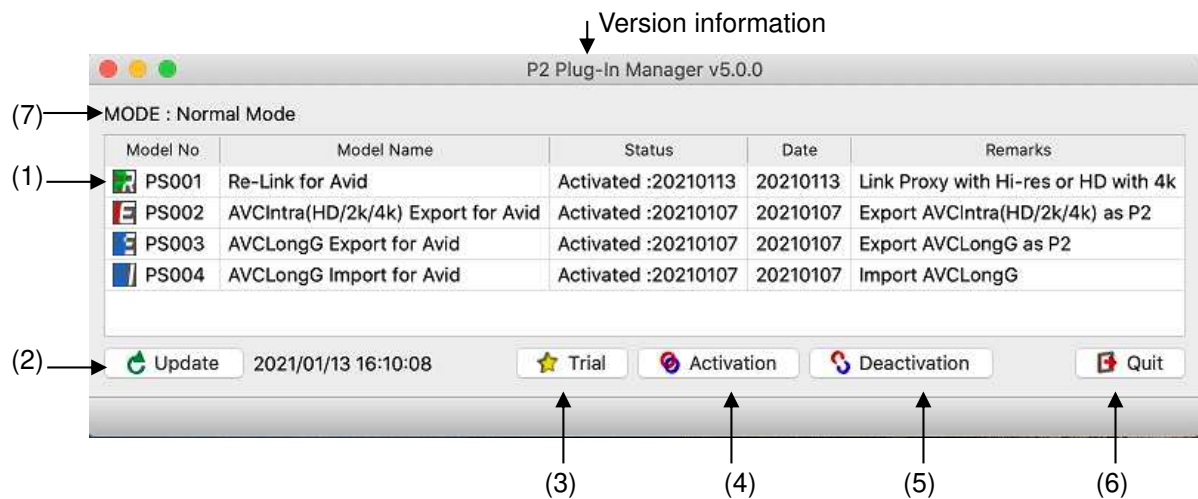
(1) List Box — Indicated each plug-in model status.
(2) Update — Manual update button for Plug-In status.
Updated date and time is indicated.
(3) Trial — Start Trial period when press the button for selected plug-in. It is valid 30 days from the date of start.(refer 2.6)
(4) Activation — Execute Activation (refer 2.4)
(5) Deactivation — Execute Deactivation (refer 2.5)
(6) Quit — Close window without anything.
(7) Mode — Indicated mode (currently Normal mode only)
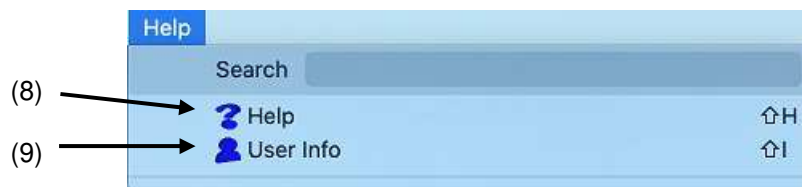
(8) Help — Open help file folder
(9) User Info — Display User Information for registration or confirmation purpose.
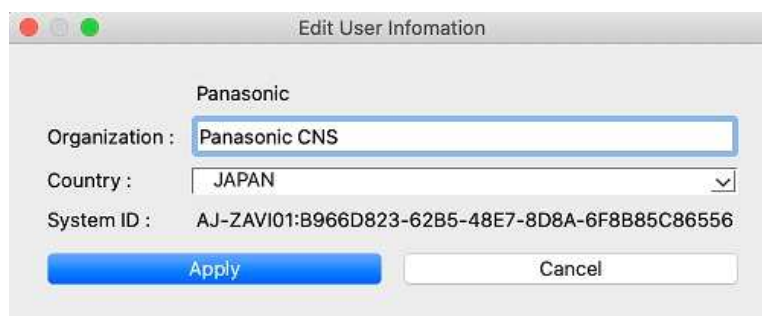
2.4. How to Activate each function

1. Purchase Key-Code from Panasonic.
2. Connect internet to PC. (Close all application including MC)
3. Press Activate button and enter KeyCode in Input Activation Key window, then click OK.

4. When activation is successfully done, status display is changed in ListBox and the activated Plug-In function is able to use.
   If status is not changed, please check internet connection and error message.

2.5. How to Deactivate each function

1. Connect internet to PC.
2. Select plug-in from ListBox and Click Deactivate Button.
3. When finish deactivation, status is changed in the List Box.

2.6. About trial

Press Trial button after selecting function you want to try in the List Box. The selected function is able to use with full-featured.
Trial period is 30 consecutive days including the day started.
It is able to use each function only once per PC.

3. Extended Panasonic AMA Plug-In AJ-PS001 (AVC-Proxy Re-Link)

3.1. Overview

After installation of P2 Plug-in Ex, this function can be used by activating the Re-Link function. (Please refer section 2.P2 Manager how to install and activate.)
This function allows to swap Hi-Res data and Proxy data while editing.
After editing is done by using Proxy data, it allows to re-link corresponding Hi-Res data.
After v4.4, it allows re-link bi-directional between Main (4K/UHD) and Sub (2K/HD) data recorded by VariCam35

Due to big changes of macOS, this version has limitation related AVC-Proxy as below:
1. Unable to link AVC-Proxy as P2 volume. Select ".mov" file directly then press Link (see 3.4).
2. Unable to relink from AVC-Proxy HQ / SHQ / G6 to AVC-LongG / AVC-Intra50.
   Please use AVC-Proxy "Low".
3. Unable to link ".mp4" Proxy. Please use ".mov" Proxy.

3.2. Support format

P2 HD data (including AVC-LongG25/50) and corresponding Proxy data (including ProxyG6) recorded by P2 Cam.   (P2 SD data with corresponding Proxy data are not supported.)
The Main data (4K/UHD) and corresponding Sub data (2K/HD) recorded by VariCam35

3.3. Operation Method - Case1 (Relink from Sub to Main data)

The link method between Main data (4K/UHD) and Sub data (2K/HD) is allowed by re-link function. As an example, following section shows how to create Main data sequence, re-link from edited sequence of Sub data (HD) to Main data (UHD).

3.3.1 Import Sub Recording Data

1. Set Project UHD
2. Navigate "File" > "Input" > "Source Browser" , then select P2 volume, upper folder of CONTENTS folder, for Sub (HD) data, then press 'Link' to show icon in the Bin.
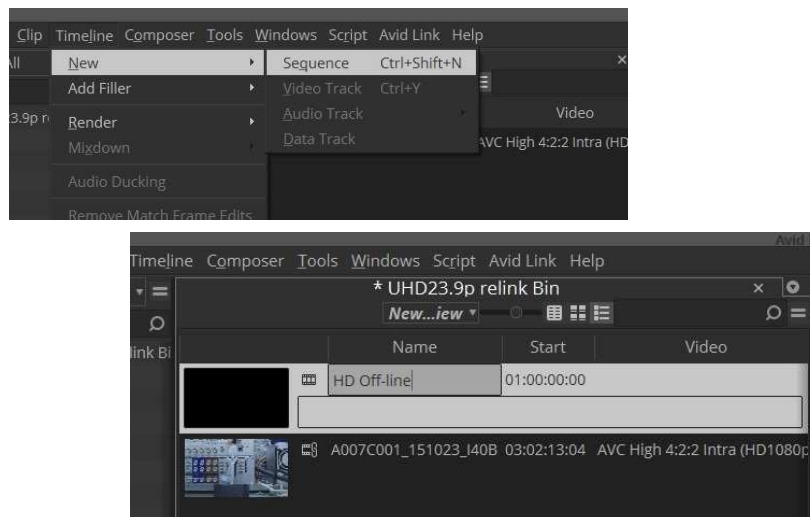
Note : To avoid error, do not create CONTENTS folder above CONTENTS folder.
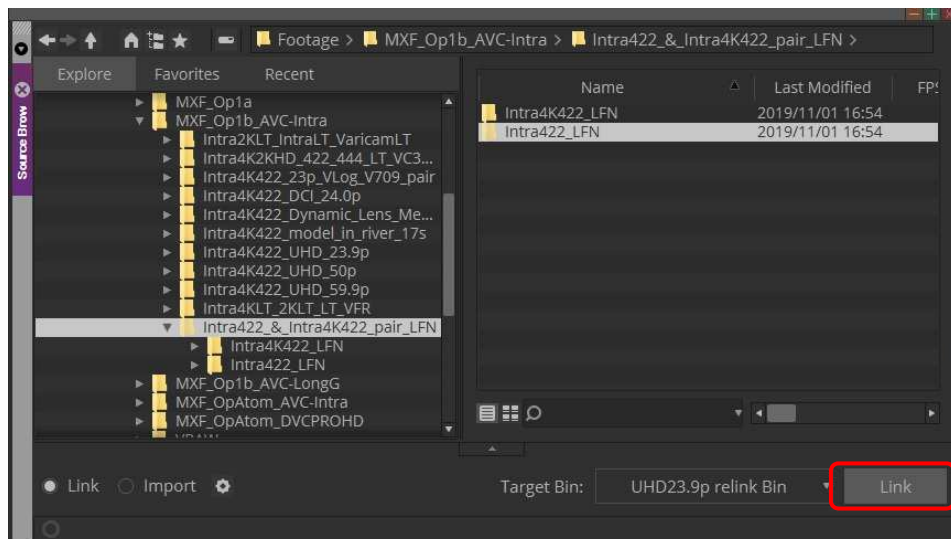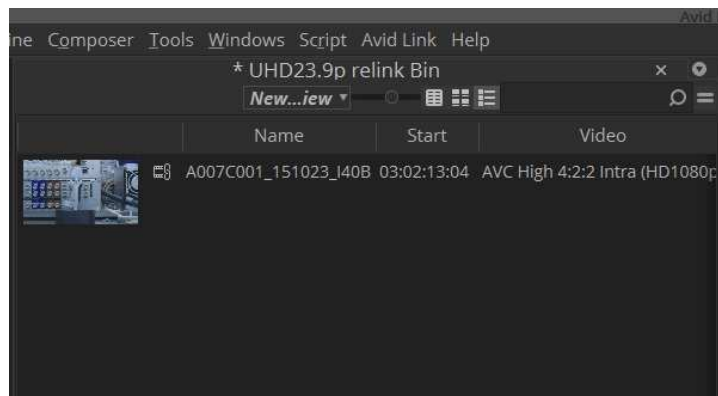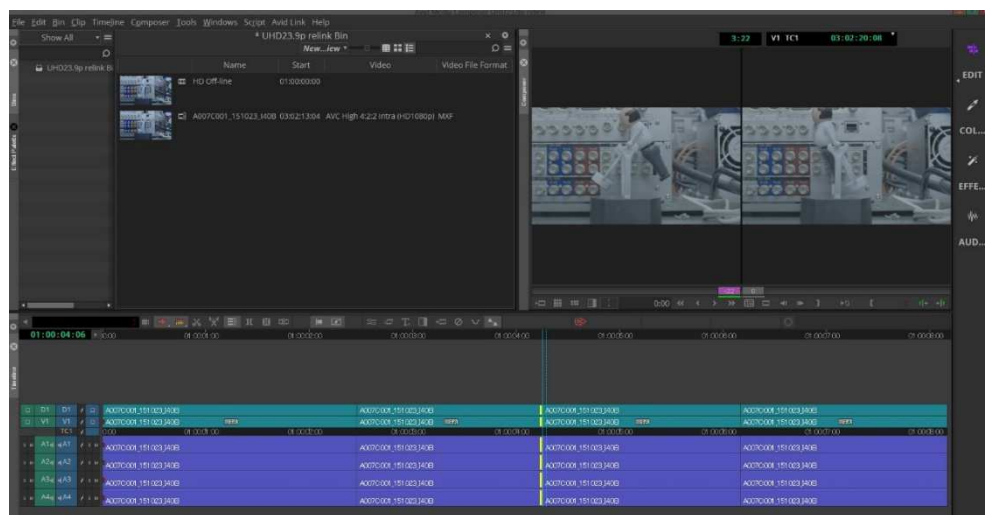
3.3.2 Editing by Sub Recording Data

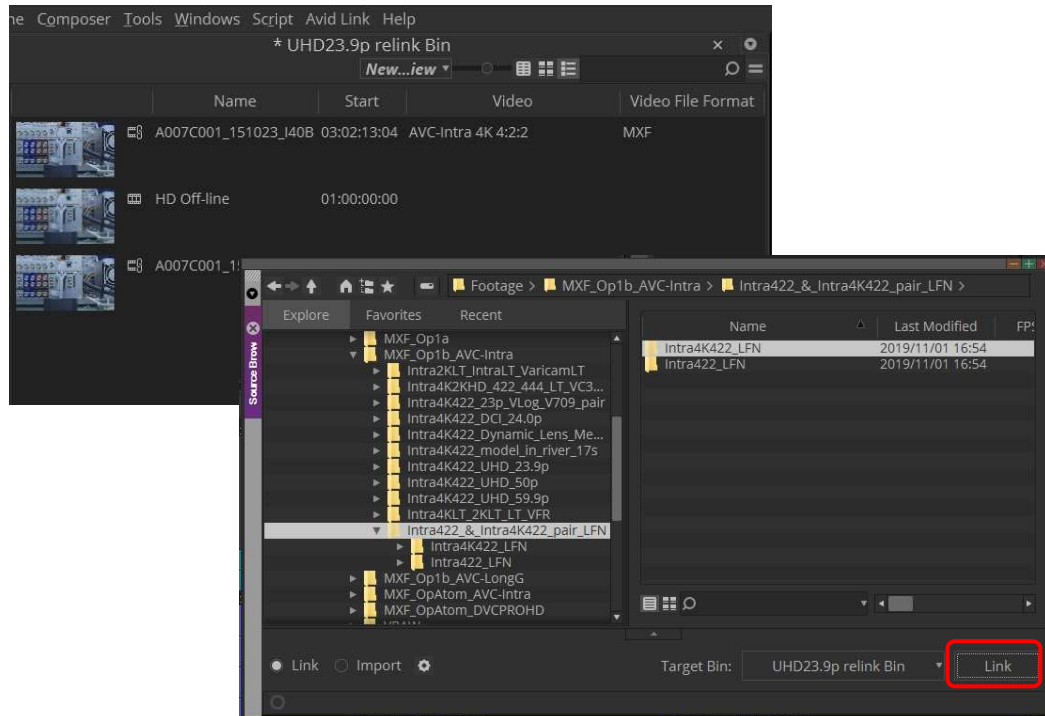1) Navigate 'Timeline' > 'New' > 'Sequence', and create sequence.

2) Finish the sequence by using Sub recording data.
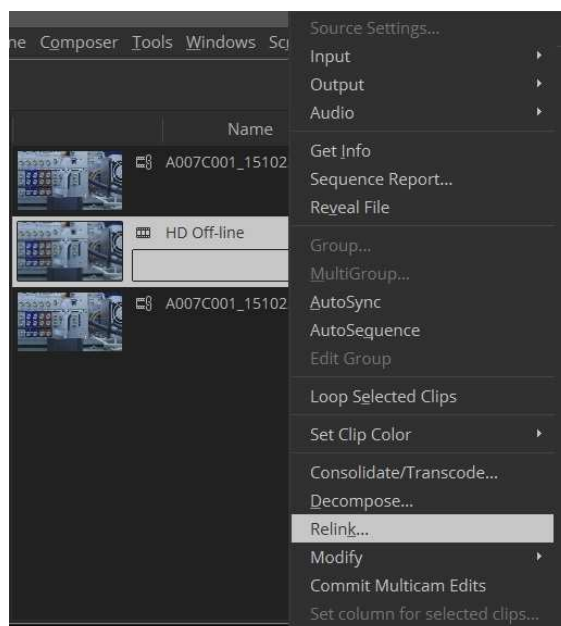
3.3.3 Import Main Recording Data

Navigate 'File' > 'Input' > 'Source Brower', and select P2 volume of Main recording data (UHD) , then press Link.

Note : To avoid error, do not create CONTENTS folder above CONTENTS folder.

3.3.4 Re-link to Main Recording data from Sub Recording Sequence

Navigate 'Relink' by right click of Sub recording sequence

Set following parameter in the re-link dialog.
Make sure if "Source Name" is "Tape Name or Source File ID".
Make sure if "Relink to:" is UHD project, and "Relink method" is 'Highest Quality'
in the Video Parameters area, then press OK
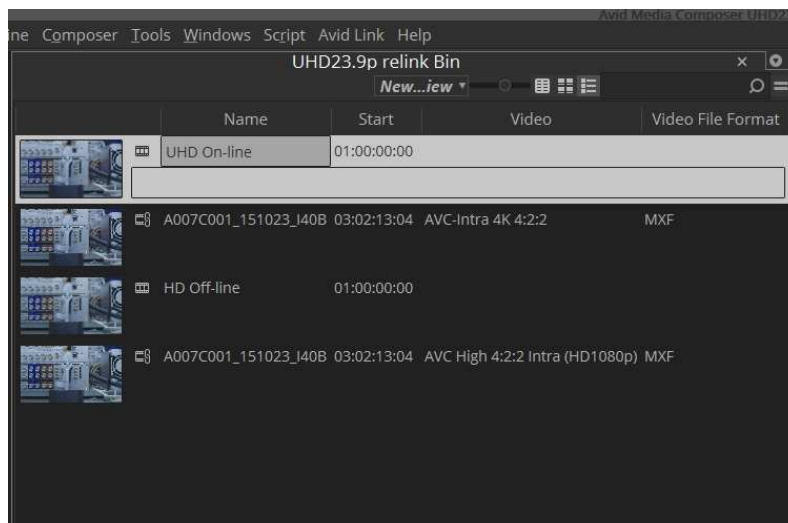
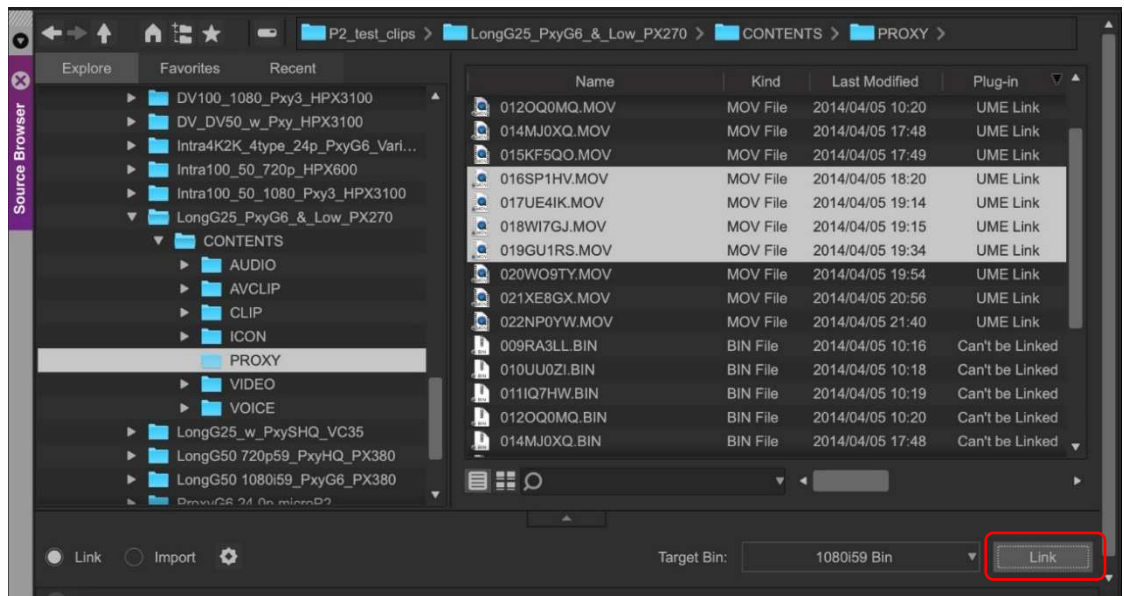The Sequence by Main recording data is newly created and displayed icon in Bin.
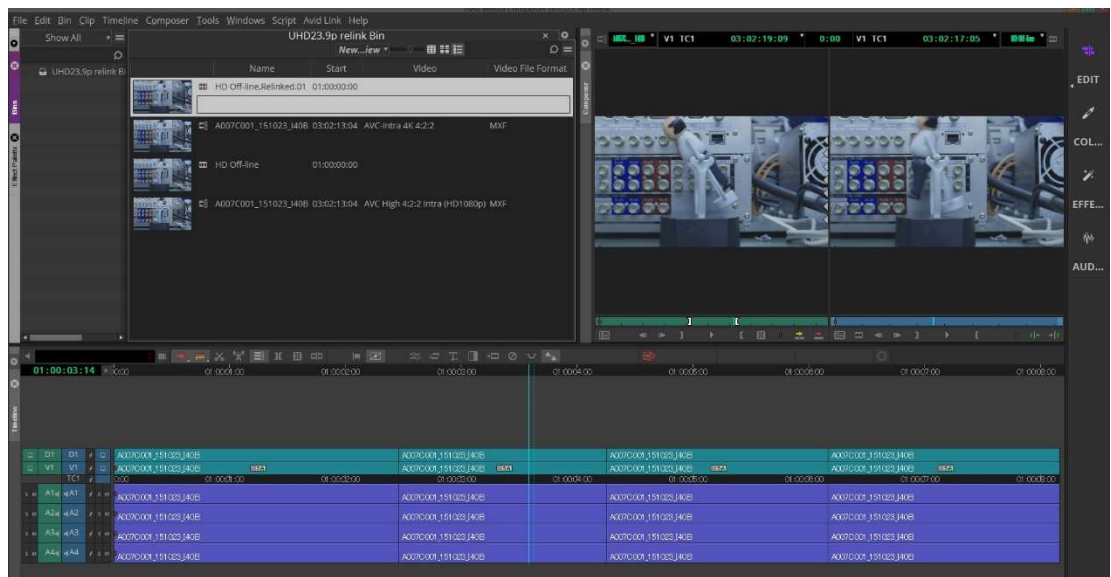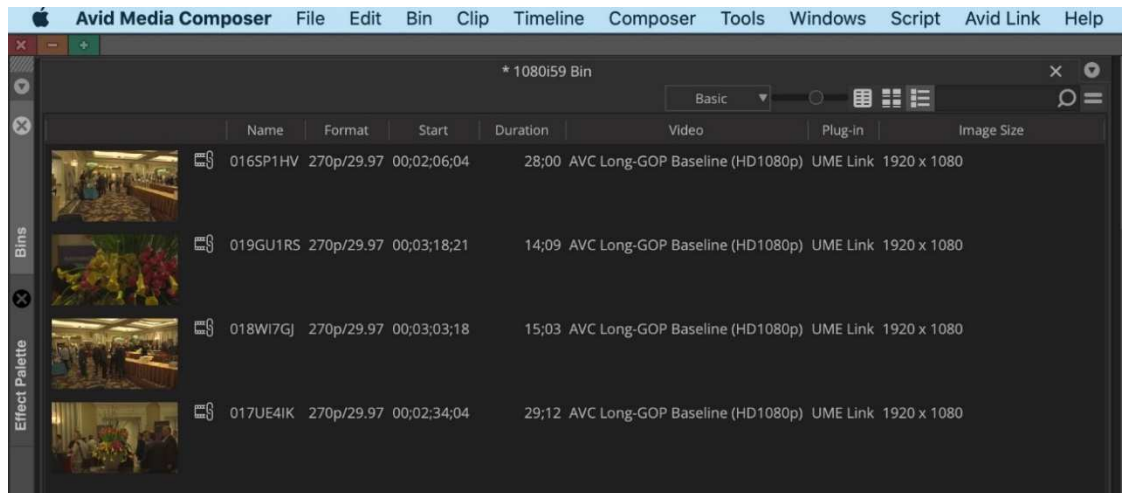

Bin name can be renamed if needed.

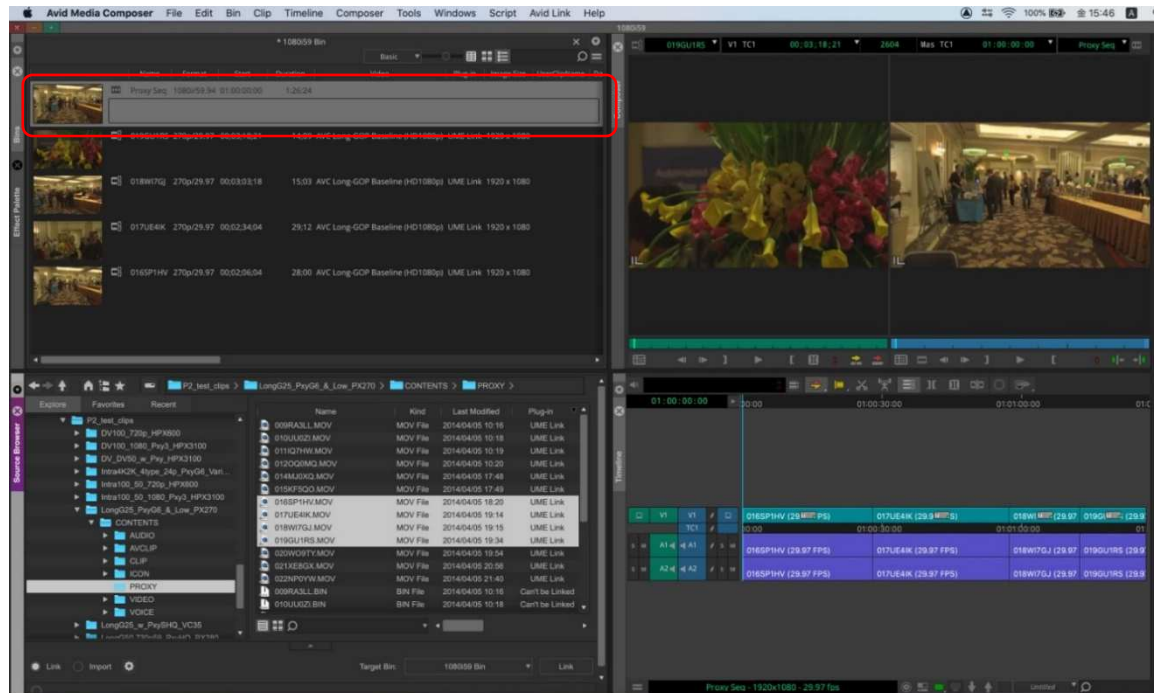## 3.4. Operation Method - Case2 (Relink from Proxy to High-res data)

3.4.1   Import Proxy data

1. Set the project to match the video format of High-res data.
2. Navigate 'File' > 'Input' > 'Source Browser'.
3. Select Proxy data and press "Link", then linked clips show in Bin window.
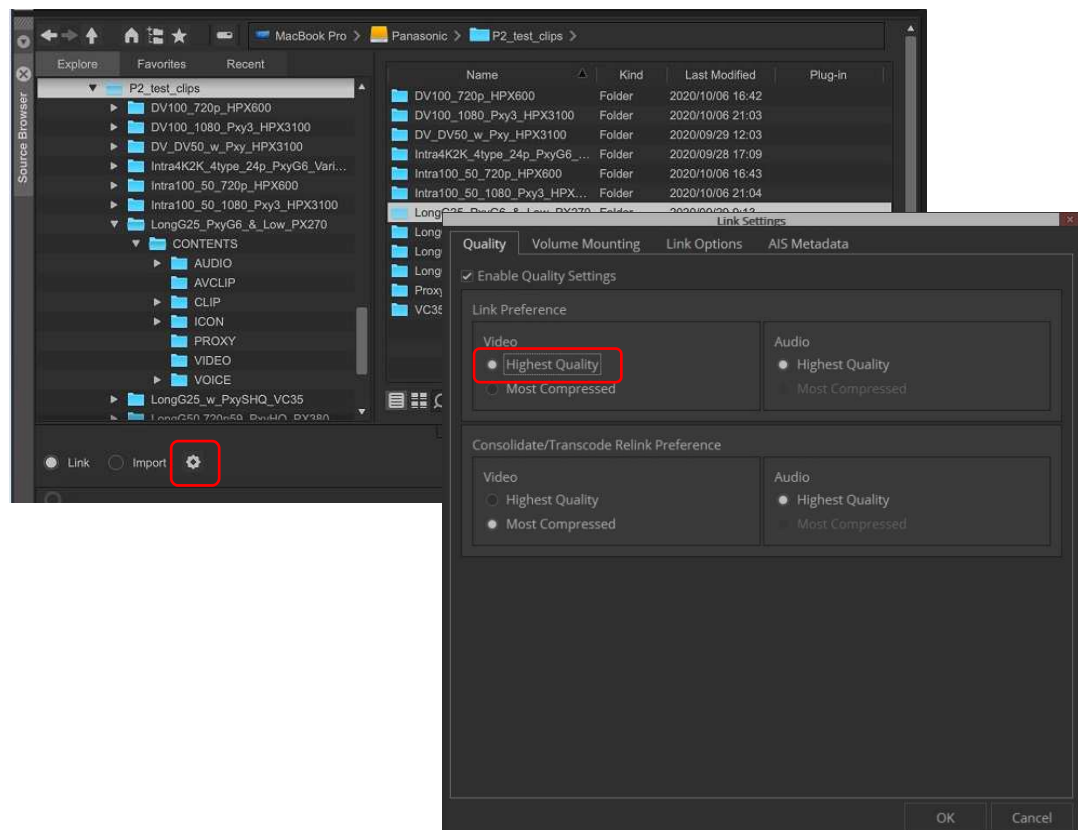
3.4.2 Create Sequence by Proxy data

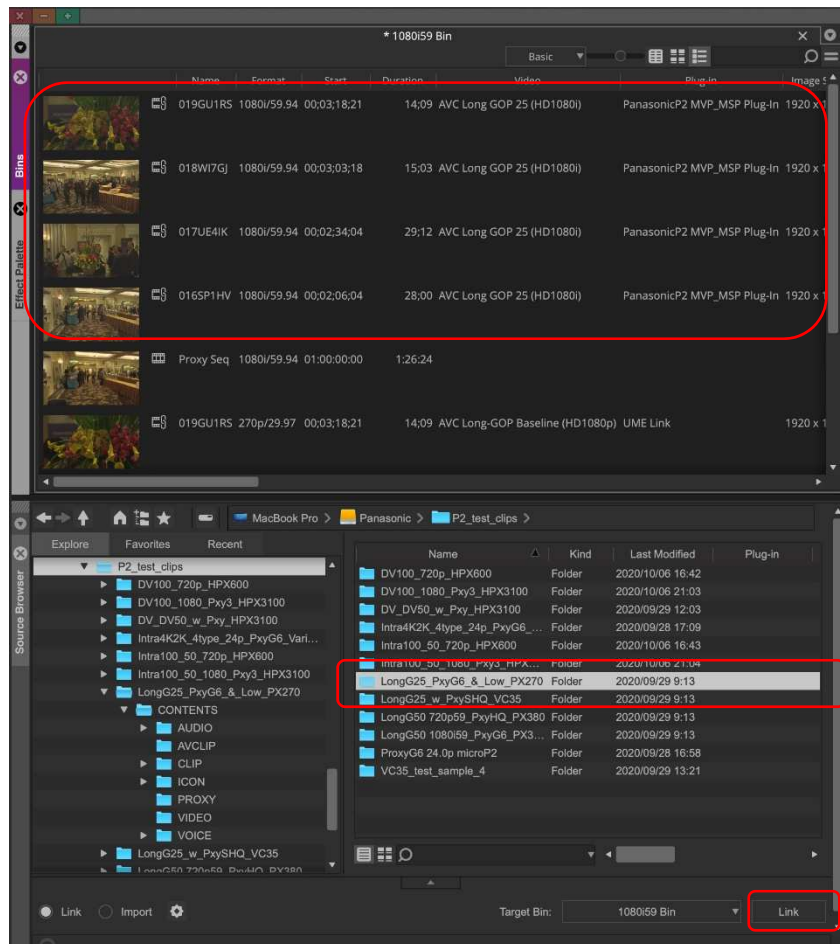Creating sequence by using Proxy data.

3.4.3 Import Hi-res data

Open Link Setting dialog at Source Browser, then set Video to 'Highest Quality' in Link Preference.
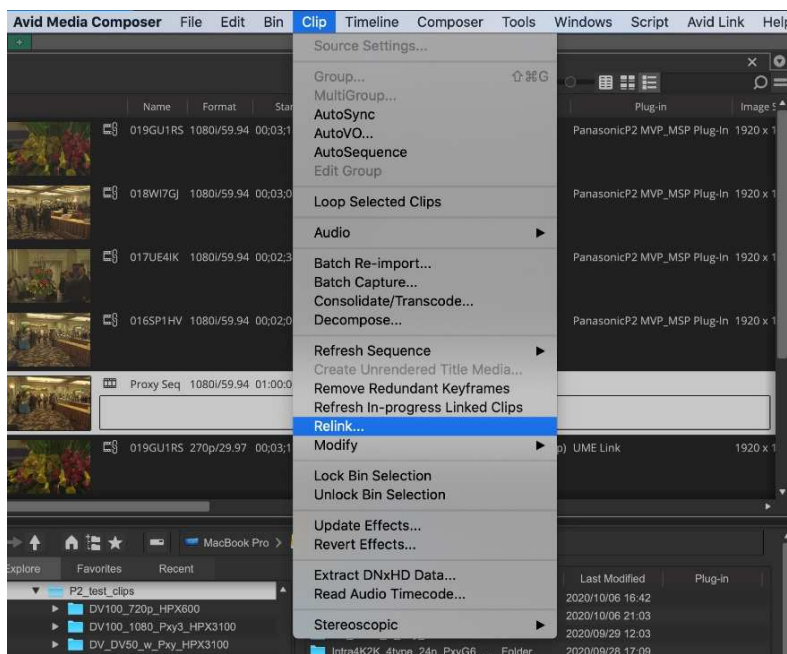
Select P2 volume located high-res data corresponding Proxy, and press "Link".
Then linked clips show in Bin window.

Note : To avoid error, do not create CONTENTS folder above CONTENTS folder.

3.4.4 Relink from Proxy to Hi-res data

Select Proxy sequence, and navigate Clip > Relink

Set following parameter in the re-link dialog.
Make sure if "Source Name" is "Tape Name or Source File Name" and "Ignore extension" is on.
Make sure if "Relink method" is 'Highest Quality' in the Video Parameters area, then press OK

The high-res sequence data is generated and showed in Bin window.
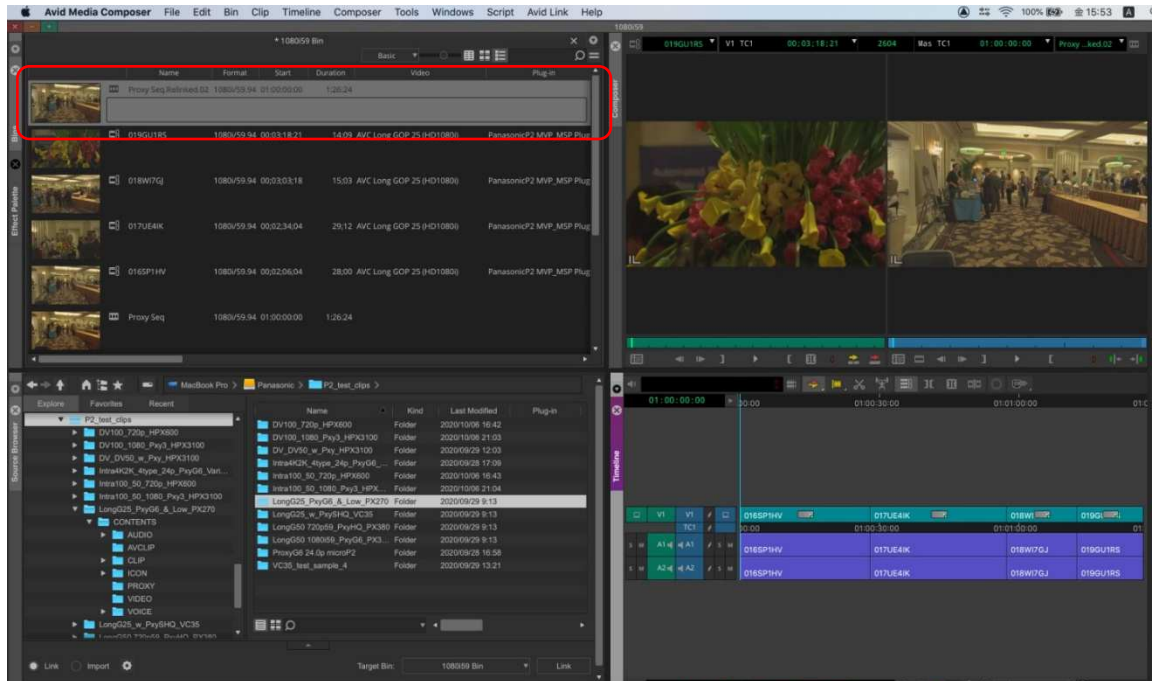
4. Extended Panasonic AMA Plug-In AJ-PS002 (AVC-Intra Export)

4.1. Overview

After installation of P2 Plug-In Ex, it enables to use by activation of AVC-Intra Export function. (Please refer "2. P2 Manager" how to install and activate.)
It enables to export sequence data as P2 format.
It also supports batch processing, export to specified folder in HDD, and spanned clip for multiple the P2card.

4.2. Export format

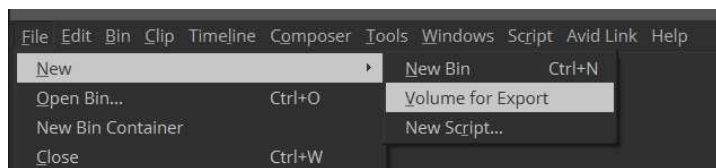Panasonic P2 structure in AVC-Intra 50/100/200 except 720 24pN and 30pN with spanned clip.
Panasonic P2 structure in DV, DVCPRO, DVCPRO50, and DVCPROHD except 720p.
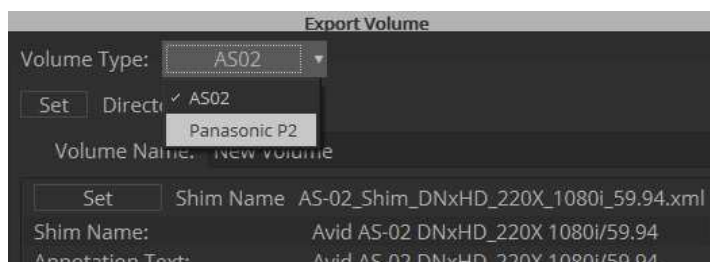Panasonic P2 structure in AVC-Intra 422, 2K422, 4K422

4.3. How to Use

1. Start up MC.
2. Navigate 'File' > 'New' > 'Volume for Export'

3. Select Panasonic P2 in Volume Type.

4. Select various parameter in Export Volume dialog.

① Set Volume Bin name (It is not allowed existing Bin name)
② Select video compression format
③ Select Audio Bit Depth
④ Select P2card or Folder in other recording media
⑤ In case of Folder, press'set' to specify Folder.
    Select 'Spanned' to devid clip 4GB each, select 'Non-spanned' not to devid.
⑥ Set each metadata.
    'Load from XML' allows to load P2 clip XML or XML metadata specified in advance.
    'Save XML' allows to store current metadata
⑦ Press 'OK' after all settings.
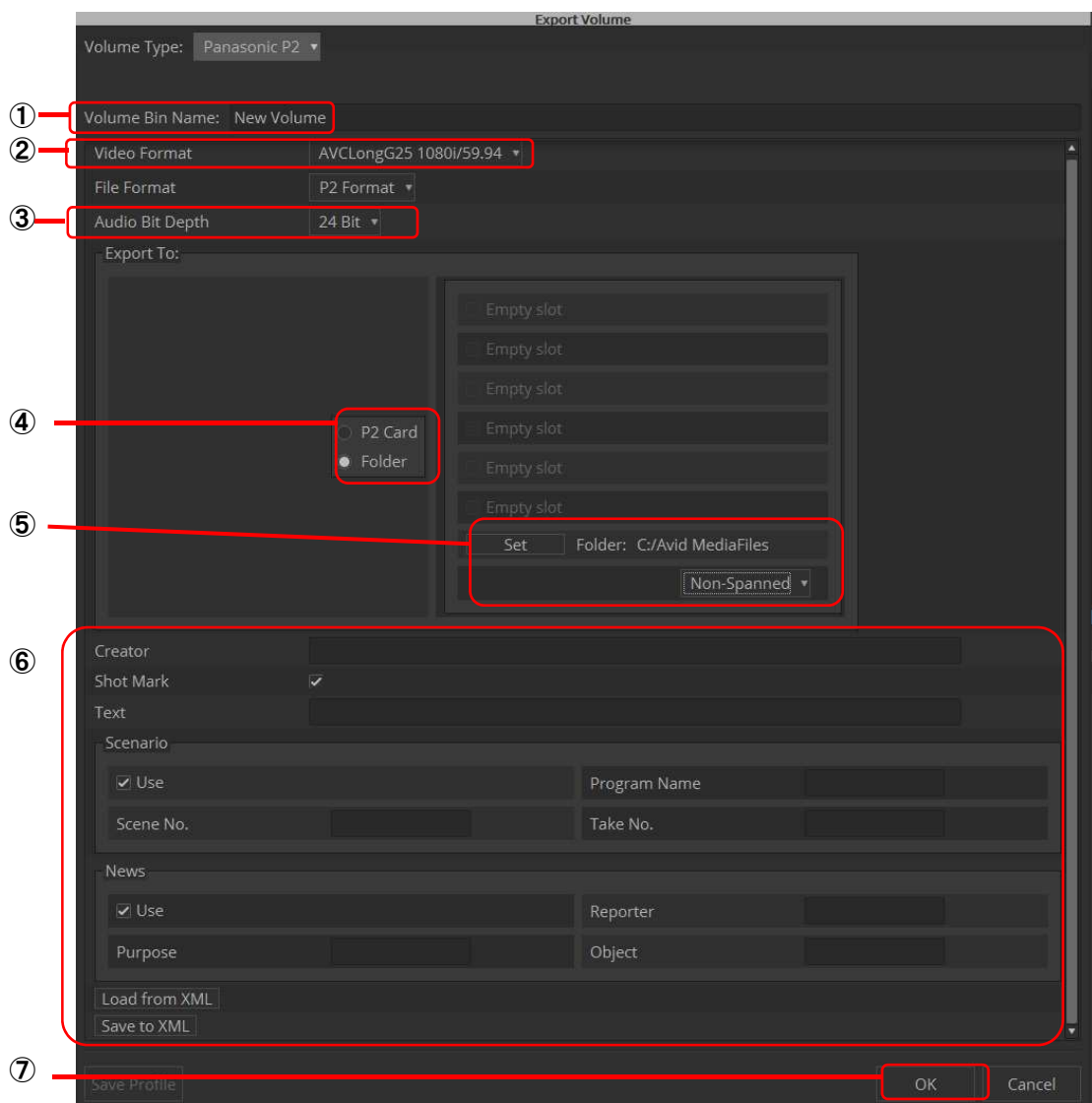
5. Export setting is done if new Volume Bin Name is displayed in Volumes Tab.
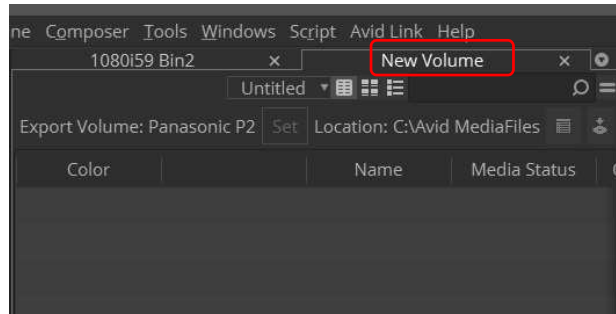
6. Drag edited sequence and drop into Export Volume.
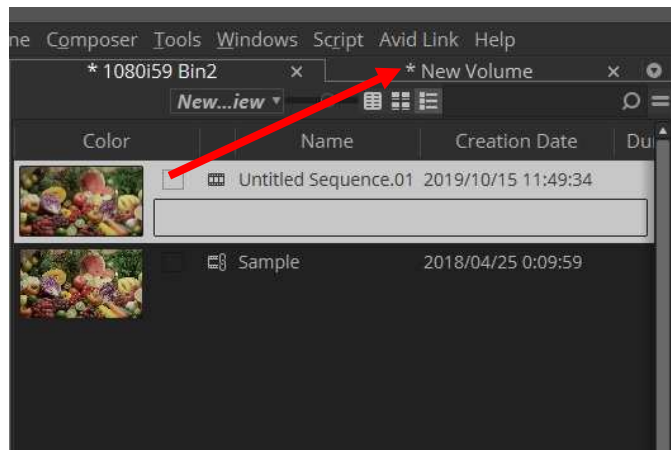
Dropped sequence is registered with yellow mark in Media Status column.

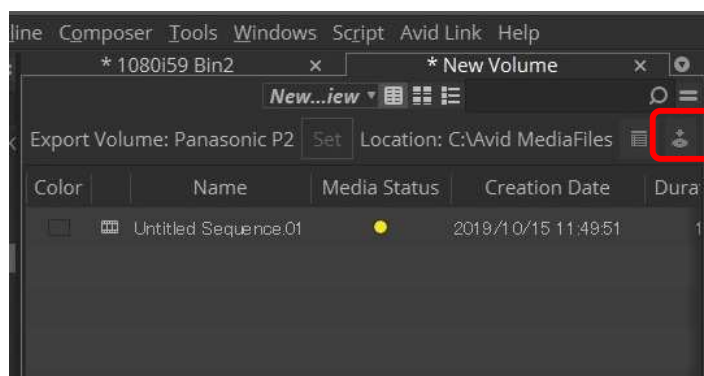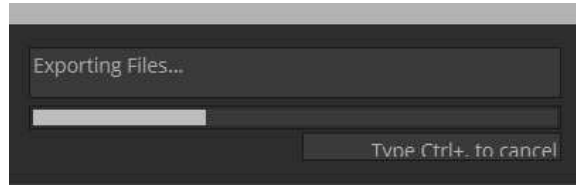7. Press Commit button located right upper area. Export process is started.   It does not allow any operation while exporting. In case of multiple sequence export, put all edited sequences into the list, then press Commit button. Export is processed one by one automatically.

8. Progress bar is displayed while exporting. Please wait until close the window.

9. When export is finished, sequence are disappeared form Export Volume, and then exported clips are appeared with green mark in Media Status column.
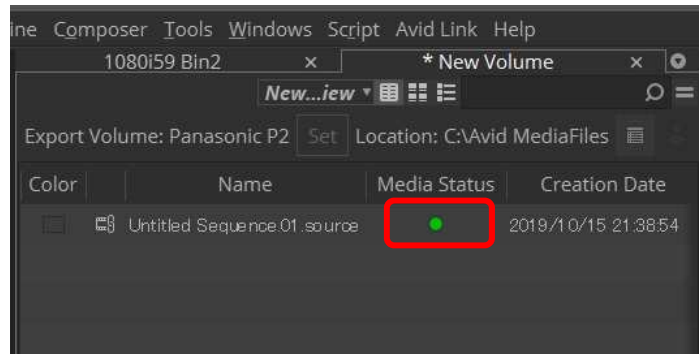
Notes:
1. Frame Rate or others are selectable only what the MC project is allowed.
2. Export will not complete correctly if remove P2 card or abort while exporting. Please wait until export process is completed.
3. Supported raster sizes in MC project are listed below;
   4K-DCI：4096x2160, UHD：3840x2160, 2K:2048x1080, 1080：1920x1080, 720P：1280x720
4. When you use the clip which is different video format than MC project setting, please transcode the clip before sequence export by using "Clip" > "Consolidate/Transcode" in order to match the video format.
5. Please make sure the Location when export P2.
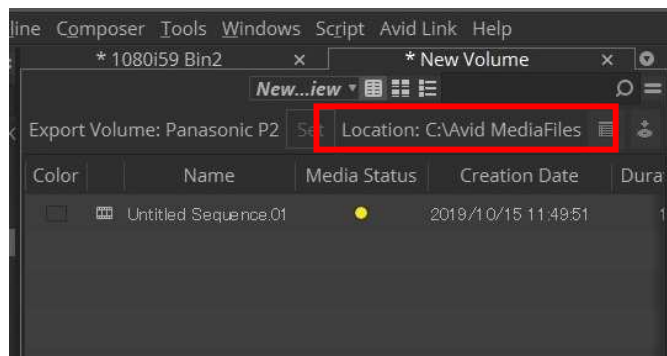
5. Extended Panasonic AMA Plug-In AJ-PS003G (AVC-LongG Export)

5.1. Overview

After installation of P2 Plug-In Ex, it enables to use by activation of AVC-LongG Export function. (Please refer "2. P2 Manager" how to install and activate.)
It enables to export sequence data to AVC-LongG12/25/50 clip.
It also supports time code, batch processing, export to specific folder in HDD, and spanned clip for multiple P2cards.

5.2. Export Format
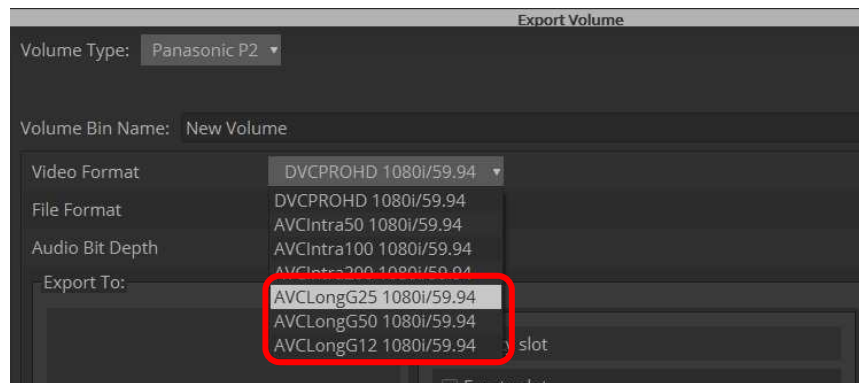
Panasonic P2 structure in AVC-LongG12/25/50
Supported video formats are 1080i50, 1080i59.94, 720p50, and 720p59.94.
1080/23.98p,1080/25p, 1080/30p,1080/50p,1080/59.94p

5.3. How to Use

AVC-LongG is enabled to select by setting of Export Volume.
Please refer Section 4, "Extended Panasonic AMA Plug-In AJ-PS002G " how to operate.

Notes:
1. Frame Rate or others are selectable only what the MC project is allowed.
2. Export will not complete correctly if remove P2 card or abort while exporting. Please wait until export process is completed.
3. Supported raster sizes in MC project are listed below;
   1080 format: 1920 * 1080,   720 format: 1280 * 720
4. When you use the clip which is different video format than MC project setting, please transcode the clip before sequence export by using "Clip" > "Consolidate/Transcode" in order to match the video format.

6. Extended Panasonic AMA Plug-In AJ-PS004G (AVC-LongG Import)

6.1. Overview

After installation of P2 Plug-In Ex, it enables to use by activation of AVC-LongG Import function. (Please refer "2. P2 Manager" how to install and activate.)
It enables to import AVC-LongG12/25/50 clips into Bin. Like other P2 formats, it enables import metadata including time code. It is supported spanned clip across the P2cards.

6.2. Import Format

Panasonic P2 structure in AVC-LongG12/25/50.
Supported video formats are 1080i50 , 1080i59.94 , 720p50 , 720p59.94.
1080/23.98p,1080/25p, 1080/30p, 1080/50p, 1080/59.94p

6.3. How to Use

AVC-LongG clips are enabled to import like other P2 formats.

1. Navigate 'File' > 'Input' > 'Source Browser' to open Source Browser dialog.

2. Select P2 volume (upper folder of CONTENTS folder), and press 'Link' or 'Import', then Clips under CONTENTS folder are displayed in the Target BIN..

   Note : To avoid error, do not create CONTENTS folder above CONTENTS folder.