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 infor	mation		
		P2	Plug-In Manager v5.0	.0		
MODE : Norn	nal Mode					
Model No	Mod	lel Name	Status	Date	Rema	arks
PS001	Re-Link for Avid	l.	Activated :20210113	20210113	Link Proxy with Hi-	res or HD with 4
PS002	AVCIntra(HD/2k	/4k) Export for Avid	Activated :20210107	20210107	Export AVCIntra(HI	D/2k/4k) as P2
PS003	AVCLongG Expo	ort for Avid	Activated :20210107	20210107	Export AVCLongG	as P2
PS004	AVCLongG Impo	ort for Avid	Activated :20210107	20210107	Import AVCLongG	
C Update	2021/01/12 1	6:10:09	7 Trial 🛛 🙆 Activat	tion C	Deactivation	G Quit
C Update	2021/01/13 1	6:10:08	7 Irial 🥑 Activa	tion	Deactivation	G Quit
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(8) Help Open help file folder

(9) User Info Display User Information for registration or confirmation purpose.

	anasonic					
Organization :	Panasonic CNS	CNS				
Country :	JAPAN	~				
System ID : A	J-ZAVI01:B966D823-62	B5-48E7-8D8A-6F8B85C86556				

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.

Inpu	ut Activation Key
***	**_*****_****_****_**
	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)

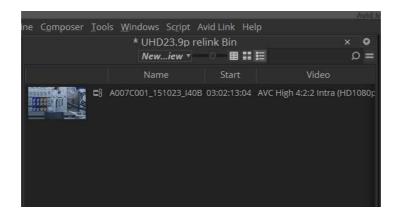
The link method between Main data (4K/UHD) and Sub data (2K/HD) is allowed by re-link function. As an example, following section shows how to create Main data sequence, re-link from edited sequence of Sub data (HD) to Main data (UHD).

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.

Explore	Favorites Recent	Nam Intra4K422_LFN		
serection	 MXF_Op1b_AVC-Intra Intra4K2KHD_422_H44_LT_VC3 Intra4K2KHD_422_444_LT_VC3 Intra4K24D_223p_VLog_V709_pair Intra4K422_DC1_24.0p Intra4K422_Dotamic_Lens_Me Intra4K422_model_in_river_17s Intra4K422_UHD_23.9p Intra4K422_UHD_50p Intra4K422_UHD_50.9p Intra4K422_UHD_50.9p Intra4K422_UHD_50.9p Intra4K422_UHD_VR Intra4K422_LFN Intra4K2_LFN MXF_Op1b_AVC-LongG 	Intra422_LFN	2019/11/01 16:5	
	MXF_OpAtom_AVC-Intra MXF_OpAtom_DVCPROHD	a≣∎	•	×
● Link C	Import O	* Target Bin:	UHD23.9p relink Bin	Link



3.3.2 Editing by Sub Recording Data

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

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2) Finish the sequence by using Sub recording data.

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AB4 4/A3 2 1 1 40070-001 151 022			A00701001 151 023 140		A0070-001 151 023 1408	A0770001151023 H08	

3.3.3 Import Main Recording Data

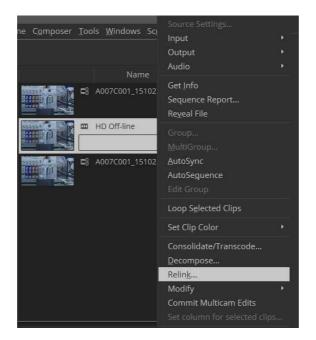
Navigate 'File' > 'Input' > 'Source Brower', and select P2 volume of Main recording data (UHD) , then press Link.

Tools Windows Script Avid Link Help 0 Q = New...iew * I HD Off-line ■S A007C001 1 Footage > MXF_Op1b_AVC-Intra > Intra422_&_Intra4K422_pair_LFN > 0 ** *** -0 Þ V Intra4K422_LFN Intra422_LFN 2019/11/01 16:54 2019/11/01 16:54 444_LT_VC3.. Log_V709_pai Intra4K422_LFN Intra422_LFN p1b_AVC-LongG pAtom_AVC-Intra pAtom_DVCPROHD Import 🔅 .

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



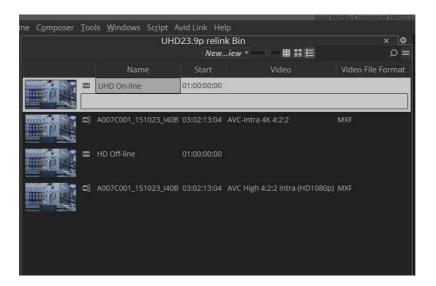
Set following parameter in the re-link dialog. Make sure if "Source Name" is "Tape Name or Source File ID". Make sure if "Relink to:" is UHD project, and "Relink method" is 'Highest Quality' in the Video Parameters area, then press OK

Relink						
Relink selected items to: ● Media on drive: Image: All Available Drives Image: Load media database(s) Image: Relink selected master clips Tip: To bring master clips online, first try loading media Image: Relink only to media from the current project Image: Selected items in ALL open bins Image: Allow relinking to offline items						
Relink by:						
Original Timecode Start Source Name Tape Name or Source File ID Ingnore extension Ignore characters after last Image: Match case when comparing source names						
Video Parameters Relink to: 'ideo format of current project only (UHD 23.976F*						
Relink method: Highest Quality						
Relink if quality: is greater than or equal to * Format: UHD 23.976P * Resolution: DNxHR LB * no match is found: Use Existing Media *						
Tracks to relink Video Audio Data						
 Create new sequence (1 sequence selected) Allow relink across rates 						
OK Cancel						

The Sequence by Main recording data is newly created and displayed icon in Bin.

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	23,1400					

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.

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S Bins		19GU1RS 270p	o/29.97 00;03;	18;21	14;09 AVC	Long-GOP Baseli	ne (HD1080p) UME Link	1920 x 108	80	
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Effect	E § 0	17UE4IK 270p	o/29.97 00;02;	34;04	29;12 AVC	Long-GOP Baseli	ne (HD1080p) UME Link	1920 x 108	30	
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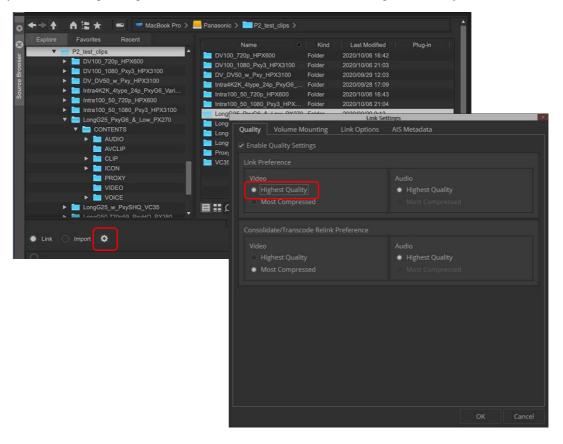
3.4.2 Create Sequence by Proxy data

Creating sequence by using Proxy data.

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DV_DV50_w_Pvy_HPX3100	MOV File 2014/04/05 10:17 UME Link	
Intra4K2K_4type_24p_PxyG6_Vart	MOV File 201404/05 17:48 UNE Link	
Intra100_50_720p_HPX800	MOV File 201404/05 17:49 UME Link	
Intra100_50_1080_Pxy3_HPX3100 0185P1HV.MOV	MOV File 2014/04/05 18:20 UME Link	
CONTENTS	MOV File 2014/04/05 19:14 UME Link	VI VI V D 0165P1HV (29/00 PS) 017UE4IK (29.9/005) 016WI 000 (000 (29.97 0190) 000)
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 OTIGOTIES.MCV 	MOV File 2014/04/05 19:34 UME Link	AL-4 4 AL 7 3 4 0165P1HV (29.97 FPS) 017UE4K (29.97 FPS) 018W1703 (29.97 0190U1RS (29.97
020W09TF.MOV	MOV File 2014/04/05 19:54 LIME Link	
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PRCKY DODRASLL BIN	BN File 2014/04/05 10:16 Can't be Linked	
VIDEO	BIN File 2014/04/05 10:18 Can't be Linked	
VOICE		
Long025_w Pey8H0_VC35 E Dourdsn 120-401 (20-401) (20-20)		
Link C Import O	Target Birs 100059 Birs + Link	

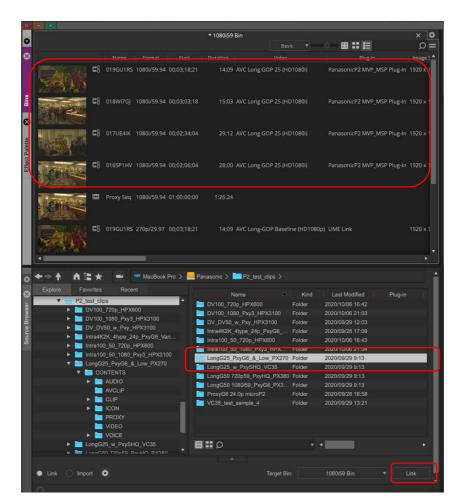
3.4.3 Import Hi-res data

Open Link Setting dialog at Source Browser, then set Video to 'Highest Quality' in Link Preference.



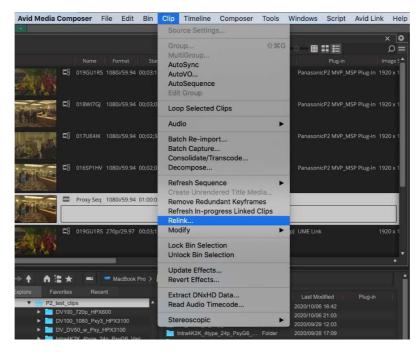
Select P2 volume located high-res data corresponding Proxy, and press "Link". Then linked clips show in Bin window.

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



3.4.4 Relink from Proxy to Hi-res data

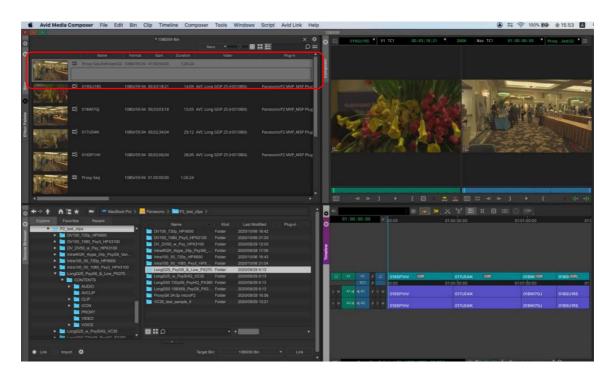
Select Proxy sequence, and navigate Clip > Relink



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

Relink					
Relink selected items to: Media on drive: All Available Drives Load media database(s) Relink selected master clips Tip: To bring master clips online, first try loading media databases. Relink only to media from the current project Selected items in ALL open bins Allow relinking to offline items					
Relink by: Original Timecode Source Name Tape Name or Source File Name Ignore extension Ignore characters after last occurrence: Match case when comparing source names					
Video Parameters Relink to: Video format of current project only (1080i/59.94) Relink method: Highest Quality Relink if quality: is greater than or equal to Format: 1080i/59.94 If no match is found: Use Existing Media					
Tracks to relink ✓ Video ✓ Audio ✓ Data ✓ Create new sequence (1 sequence selected) ✓ Allow relink across rates					
Cancel					

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

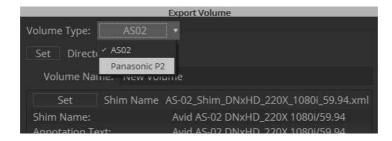
Panasonic P2 structure in AVC-Intra 50/100/200 except 720 24pN and 30pN with spanned clip. Panasonic P2 structure in DV, DVCPRO, DVCPRO50, and DVCPROHD except 720p. Panasonic P2 structure in AVC-Intra 422, 2K422, 4K422

4.3. How to Use

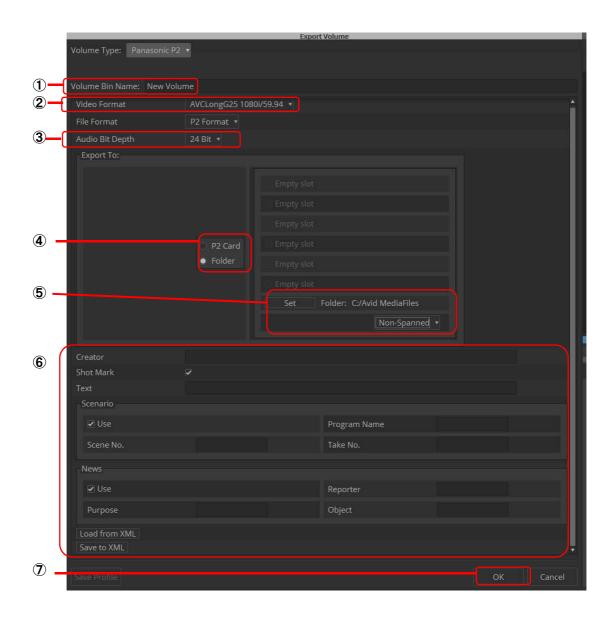
- 1. Start up MC.
- 2. Navigate 'File' > 'New' > 'Volume for Export'

<u>F</u> ile	<u>E</u> dit	<u>B</u> in	<u>C</u> lip	Timeline	C <u>o</u> mposer	Ioo	ls <u>W</u> indows	Sc <u>r</u> ipt	Avid Lir	nk Help
Ne	ew					*	<u>N</u> ew Bin	C	trl+N	
Q	pen Bi	n			Ctrl+O		<u>V</u> olume for	Export		
Ne	ew Bin	Con	tainer				New Script			
<u>C</u> le	ose				Ctrl+W	T				

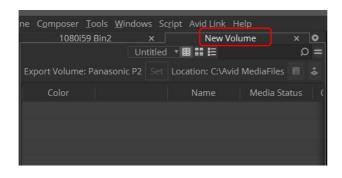
3. Select Panasonic P2 in Volume Type.



- 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.
- 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.

	<u>T</u> ools <u>M</u> 59 Bin2	/indows Sc <u>r</u> ipt Avic	l Link Help ' New Volume	× o
	New	iew 🔪 🔳 🏭	E	0 =
Color		Name	Creation Date	Du
		Untitled Sequence.01	2019/10/15 11:49:34	
	æ§	Sample	2018/04/25 0:09:59	

Dropped sequence is registered with yellow mark in Media Status column.

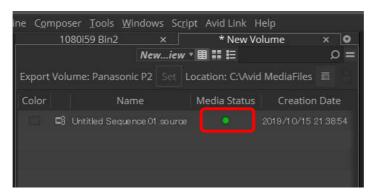
7. Press Commit button located right upper area. Export process is started. It does not allow any operation while exporting. In case of multiple sequence export, put all edited sequences into the list, then press Commit button. Export is processed one by one automatically.

ne C <u>o</u> n	npo	ser <u>T</u> ools	Window	s Sc	ript Avid	Link	Help			
	*1	080i59 Bin.	2	×	*	New	Volume	×	Ø	
			New	iev	v • 🖩 🏭	E		3	0 =	
Export	Volu	ume: Panas	ionic P2		Location:	C:\A	vid MediaFiles		6	
Color		Nar	ne	Me	dia Status		Creation Date		Dura	
	▥	Untitled Sei	quence.01		100	2019	9/10/15 11:49:51			
	Export Color	× 1 Export Volu Color	* 1080i59 Bin: Export Volume: Panas Color Nar	* 1080i59 Bin2 New Export Volume: Panasonic P2 Color Name	* 1080i59 Bin2 × Newiew Export Volume: Panasonic P2 Set Color Name Me	* 1080i59 Bin2 × * Newiew * II II Export Volume: Panasonic P2 Set Location: Color Name Media Status	* 1080i59 Bin2 × * New Newiew * 田 証 臣 Export Volume: Panasonic P2 Set Location: C:\Av Color Name Media Status 0	* 1080i59 Bin2 × * New Volume Newiew ▼ 聞 聞 聞 Export Volume: Panasonic P2 Set Location: C:\Avid MediaFiles Color Name Media Status Creation Date	* 1080i59 Bin2 × * New Volume × Newiew • 田 証 臣 Export Volume: Panasonic P2 Set Location: C:\Avid MediaFiles 冒 Color Name Media Status Creation Date	*1080i59 Bin2 × *New Volume × • Newiew ● 目 目目 ロ の = Export Volume: Panasonic P2 Set Location: C:\Avid MediaFiles 目 さ Color Name Media Status Creation Date Dura

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

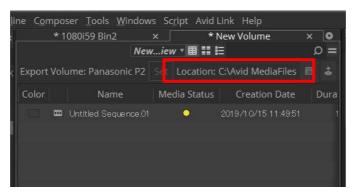


9. When export is finished, sequence are disappeared form Export Volume, and then exported clips are appeared with green mark in Media Status column.



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.

	Export Volume							
Volume Type: Panasonic P	2 •							
Volume Bin Name: New Volume								
Video Format	DVCPROHD 1080i/59.94 🔹							
File Format	DVCPROHD 1080i/59.94 AVCIntra50 1080i/59.94							
Audio Bit Depth	AVCIntra100 1080i/59.94							
Export To:	AVCIntro200.1090//50.04 AVCLongG25 1080i/59.94							
	AVCLongG50 1080i/59.94 AVCLongG12 1080i/59.94 slot							
	E Empty det							

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

It enables to import AVC-LongG12/25/50 clips into Bin. Like other P2 formats, it enables impor 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.

