Panasonic

Operating Instructions

Clip Converter Plug-In

for Adobe Premiere Pro and Adobe After Effects

Contents

1. Introduction

1.1. <u>Overview</u>

The Clip Converter Plug-In for Adobe Premiere Pro and Adobe After Effects (herein referred to as CLP Importer and CLP Exporter) is an importer/exporter plug-in for Adobe Systems nonlinear editing software, Adobe Premiere Pro and Adobe After Effects, that supports "CLP," the AV-HS6000/AV-HS73000 Live Switcher's proprietary video (clip) codec. The following functions are available on CLP Importer and CLP Exporter.

● **CLP Importer**
  • Import CLP format files to Adobe Premiere Pro / Adobe After Effects.

● **CLP Exporter**
  • Export Adobe Premiere Pro / Adobe After Effects sequences and compositions in CLP format.

CLP Importer and CLP Exporter can be used with Premiere Pro CC and CC 2014, and After Effects CC and CC2014.

1.2. <u>System requirements</u>

The system requirements for CLP Importer and CLP Exporter are indicated in Table 1-1.
(The requirements correspond with those of Adobe Premiere Pro CC and After Effects CC.)

Table 1-1: System requirements

Item	Description
Host application	Adobe Premiere Pro CC, CC 2014 Adobe After Effects CC, CC 2014
OS	Microsoft Windows 7 64-bit SP1 Microsoft Windows 8 64-bit Apple Mac OS X v10.8, v10.9
CPU	Intel Core 2 Duo or AMD Phenom II or higher, 64-bit compatible CPU
RAM	4 GB or higher (8 GB or higher recommended)
Display	1280x800 or higher resolution

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1.3. __Notes on Premiere Pro / After Effects__

1.3.1. __Terminology__

Table 1-2: Terminology

Term	Description
Common	
File	A file existing on the disk.
Project	A collection of sequences/compositions. A project allows you to manage multiple sequences/compositions and edit videos.
Media Encoder	Encoding software from Adobe. The software can be accessed from Premiere Pro / After Effects and allows you to perform rendering.
Import	The process of loading CLP or other files to Premiere Pro / After Effects.
Export	The process of outputting the contents of sequences/compositions to a file.
Rendering	The process of encoding a video and outputting it to a file.
Premiere Pro	
Sequence	A collection of clips used in Premiere Pro. You can position multiple clips in a sequence to create a video. Sequences can also be placed on other sequences.
Clip	The smallest unit used in video editing. Multiple clips pieced together make up a video.
Export	The process of encoding the material on a sequence and outputting it to a file.
After Effects	
Composition	A collection of layers used in After Effects. You can position multiple layers in a composition to create a video. Compositions can also be placed on other compositions.
Layer	The smallest element used in video composition. Multiple layers placed on top of each other make up a composition.

2. Software Configuration

The software configuration is as follows.

Table 2-1: Software components

Component	Description
Adobe Premiere Pro	Video editing software.
Adobe After Effects	Video composition software.
Adobe Media Encoder	Video encoding software.
CLP Importer	An importer plug-in used to import CLP format files. A common binary format is used for Premiere Pro, After Effects, and Media Encoder.
CLP Exporter	An exporter plug-in used to export CLP format files. A common binary format is used for Premiere Pro and Media Encoder.

A software configuration diagram is shown in Figure 2-1.
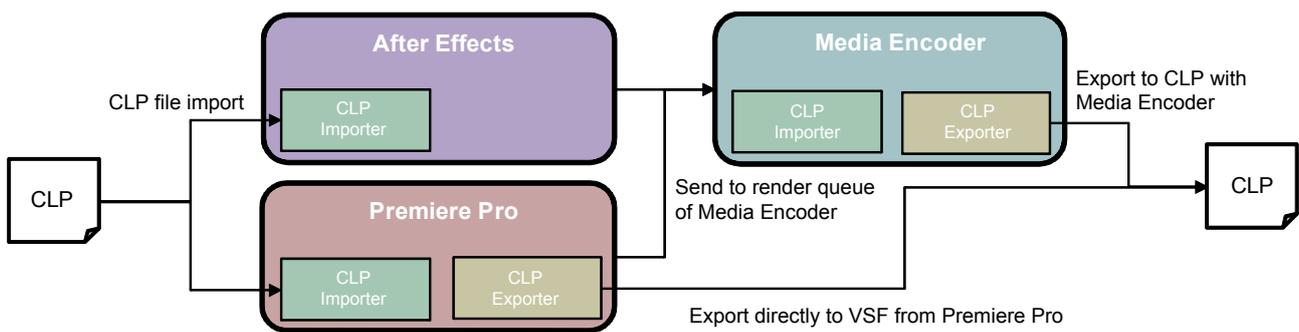
Figure 2-1: Software configuration diagram

When CLP Importer is installed as a plug-in, CLP format files can be handled as clips for editing. CLP Importer can be used as a common plug-in for Premiere Pro, After Effects, and Media Encoder.

When CLP Exporter is installed as a plug-in, editing results can be exported in CLP format. CLP Exporter can be used as a common plug-in for Premiere Pro and Media Encoder.
The following two methods are available for exporting sequences edited in Premiere Pro to CLP format.
● Export to CLP format directly from Premiere Pro.
● Send the sequence from Premiere Pro to the render queue of Media Encoder, and then export to CLP format from Media Encoder.

On the other hand, export to CLP format from After Effects can only be performed via Media Encoder. Send the composition from After Effects to the render queue of Media Encoder, and then export to CLP format from Media Encoder.

Of the above software components, this document describes the functions of CLP Importer and CLP Exporter.

3. CLP Importer Functions

3.1. <u>Overview</u>

CLP Importer includes functions for importing CLP files to Premiere Pro / After Effects.

3.2. <u>Supported CLP formats</u>

3.2.1. **Supported formats list**

CLP Importer allows import of the following CLP file formats.

Table 3-1: Supported CLP formats for import

Mode	Resolution	Alpha	Frame rate	Remarks
High	1920x1080 (1088)	Yes	59.94i	
			59.94p	
			50i	
			50p	
			23.98psf	
			24psf	
		No	59.94i	
			59.94p	
			50i	
			50p	
			23.98psf	
			24psf	
	1280x720	Yes	59.94p	
			50p	
		No	59.94p	
			50p	
	720x480 (512)	Yes	59.94i	Aspect ratio imported as 0.9091.
		No	59.94i	Aspect ratio imported as 0.9091.
	720x576	Yes	50i	Aspect ratio imported as 1.0940.
		No	50i	Aspect ratio imported as 1.0940.
Standard	1920x1080 (1088)	Yes	59.94i	
			59.94p	
			50i	
			50p	
			23.98psf	
			24psf	
		No	59.94i	
			59.94p	
			50i	
			50p	
			23.98psf	
			24psf	
	1280x720	Yes	59.94p	
			50p	
		No	59.94p	
			50p	
	720x480 (512)	Yes	59.94i	Aspect ratio imported as 0.9091.
		No	59.94i	Aspect ratio imported as 0.9091.
	720x576	Yes	50i	Aspect ratio imported as 1.0940.
		No	50i	Aspect ratio imported as 1.0940.

3.2.2. **Audio data**

CLP files with audio or without audio can be imported for each of the formats listed in Table 3-1.

4. CLP Exporter Functions

4.1. <u>Overview</u>

CLP Exporter includes functions for exporting CLP files to Premiere Pro / After Effects (Media Encoder).

4.2. <u>Supported CLP formats</u>

4.2.1. **Supported formats list**

CLP Exporter allows export of the CLP file formats listed in Table 4-1. The sequence/composition settings that are supported by the CLP output formats are indicated in Table 4-2.

Table 4-1: Supported CLP formats for export

Mode	Resolution	Alpha	Frame rate
High	1920x1080 (1088)	Yes	59.94i
			59.94p
			50i
			50p
			23.98psf
			24psf
		No	59.94i
			59.94p
			50i
			50p
			23.98psf
			24psf
	1280x720	Yes	59.94p
			50p
		No	59.94p
			50p
	720x480 (512)	Yes	59.94i
		No	59.94i
	720x576	Yes	50i
		No	50i
Standard	1920x1080 (1088)	Yes	59.94i
			59.94p
			50i
			50p
			23.98psf
			24psf
		No	59.94i
			59.94p
			50i
			50p
			23.98psf
			24psf
	1280x720	Yes	59.94p
			50p
		No	59.94p
			50p

Mode	Resolution	Alpha	Frame rate
	720x480 (512)	Yes	59.94i
		No	59.94i
	720x576	Yes	50i
		No	50i

Table 4-2: CLP output format to sequence/composition settings compatibility

CLP output format	Sequences/composition settings
1920x1080 59.94i	1920x1080, 29.97 fps, from even/odd field
1920x1080 59.94p	1920x1080, 59.94 fps, progressive
1920x1080 50i	1920x1080, 25 fps, from even/odd field
1920x1080 50p	1920x1080, 50 fps, progressive
1920x1080 23.98psf	1920x1080, 23.98 fps, progressive
1920x1080 24psf	1920x1080, 24 fps, progressive
1280x720 59.94p	1280x720, 59.94 fps, progressive
1280x720 50p	1280x720, 50 fps, progressive
720x480 59.94i	720x480, 29.97 fps, from even/odd field
720x576 50i	720x576, 25 fps, from even/odd field

4.2.2. Maximum durations

The maximum duration for exported clips is determined by the [Compression Level] (CLP compression ratio) parameter. When the [Duration Check] parameter is enabled, frames that exceed the maximum duration will not be encoded. In such cases, a warning will appear when encoding is complete.
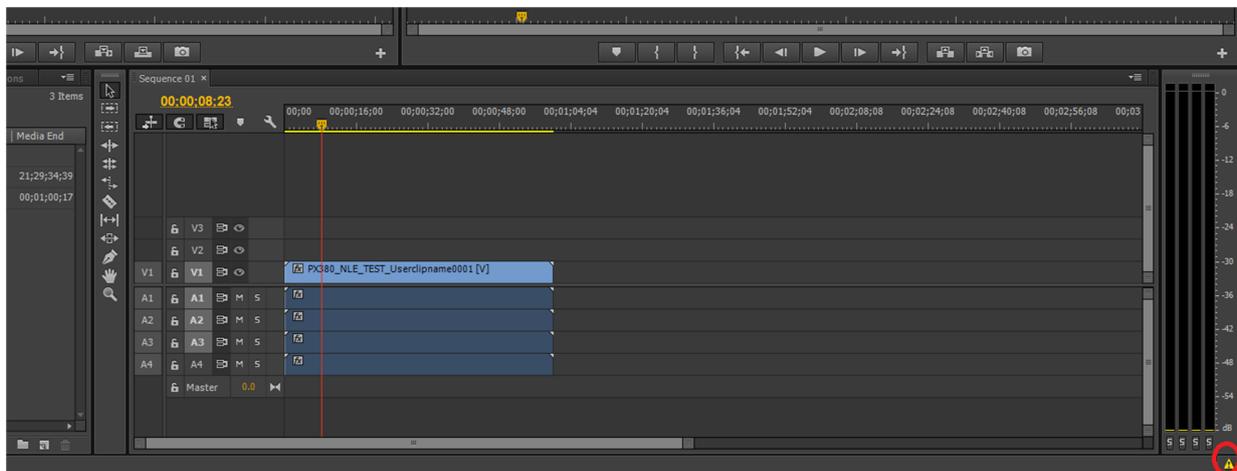
Figure 4-1: Warning displayed when maximum duration is exceeded during encoding (Premier Pro example)

The maximum durations determined by the compression level are as follows.

Table 4-3: Maximum durations for compression levels

Compression level	Maximum durations	
	CLP output format 1920x1080 / 59.94p, 50p	CLP output format other than the left
High	15 sec.	30 sec.
Standard	30 sec.	60 sec.

4.2.3. **Audio data**

When a sequence/composition contains audio, it is converted to "16bit 48kHz 2ch (Stereo) uncompressed" and output to a CLP file.

4.3. **Parameters**

The parameters that can be configured in CLP Exporter are as follows.

Table 4-4: Exporter parameters

Parameter	Type	Default	Description
Compression Level	Radio button	High	Specifies the compression ratio used for CLP conversion. High: 0.25 compression ratio Standard: 0.5 compression ratio
Alpha Channel	Checkbox	Enabled	Specifies whether an alpha channel is present. Enabled: Alpha channel present Disabled: Alpha channel not present
Duration Check	Checkbox	Disabled	Specifies whether to enable duration check. Enabled: Duration check performed Disabled: Duration check not performed
Format	Drop-down list	-	Specifies the CLP format.

4.4. **Export flow**

An operation flow diagram for the export procedure follows.

Before starting export, verify that the sequence/composition settings are of a supported format. If the format is not supported, an error message will appear and the procedure will end. For details on supported formats, see section 4.2.1.

The operation will vary depending on whether the [Duration Check] parameter is enabled.

When [Duration Check] (limit) is enabled,

1. When the CLP output format is 920x1080 59.94p or 1920x1080 50p:

   Frames occurring after 15 seconds when [Compression Level] (mode) is [High] or after 30 seconds when [Compression Level] (mode) is [Standard] will not be encoded.

2. When the CLP output format is other than the above:

   Frames occurring after 30 seconds when [Compression Level] (mode) is [High] or after 60 seconds when [Compression Level] (mode) is [Standard] will not be encoded.

When [Duration Check] (limit) is disabled, encoding is performed until the end, regardless of the duration.

Export start

No ← Supported format?

Yes

Error message

Error completion

Limit ON? — Yes

No

* Length of sequence/composition.

Mode? — Standard

High

1. 59.94p or 50p: duration* > 15 s
2. Other: duration* > 30 s

True

1. 59.94p or 50p: duration* > 30 s
2. Other: duration* > 60 s

False

Warning message

False

Successful completion

Successful completion
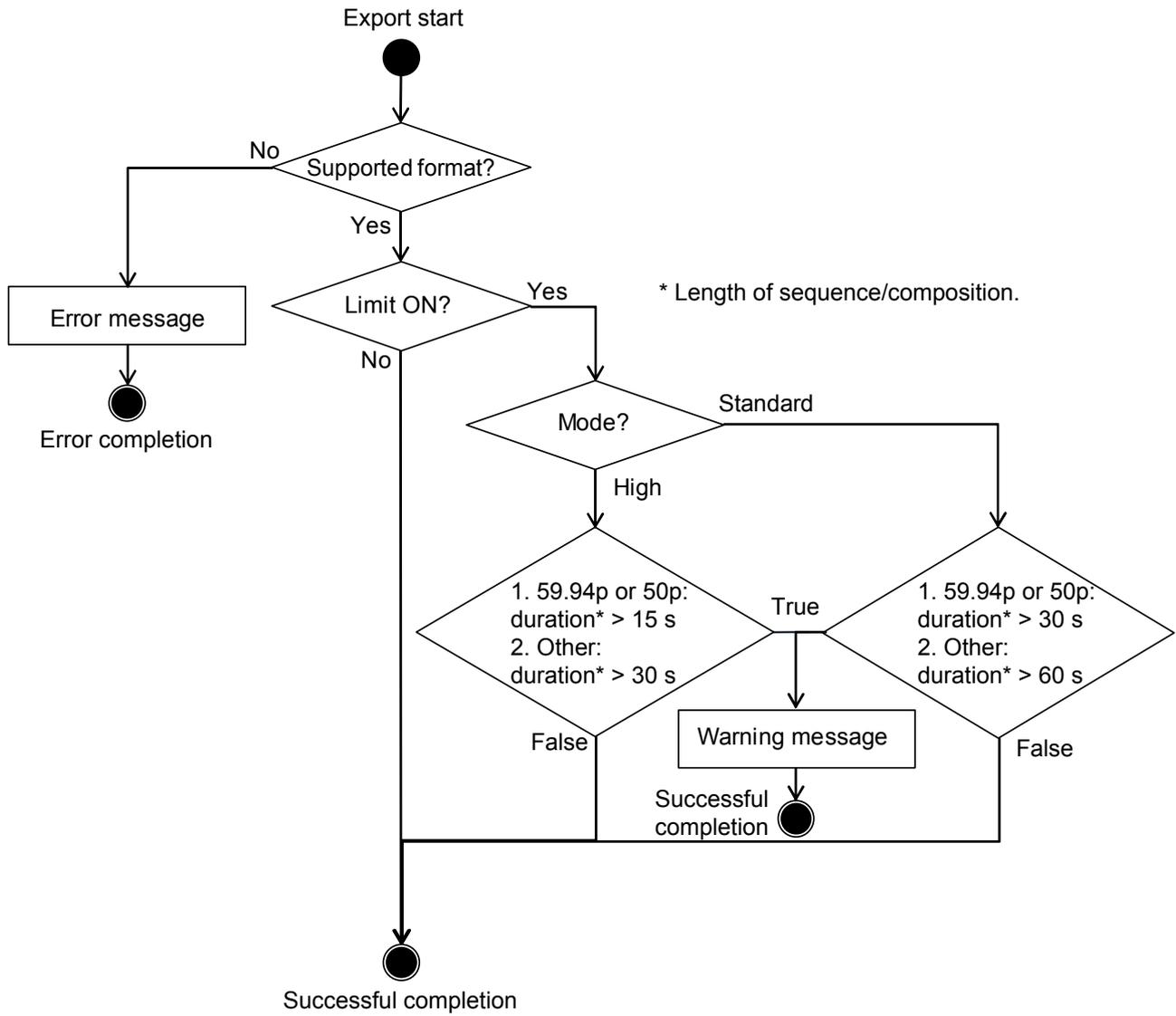
Figure 4-2: Export flow diagram

5. Installation

5.1. <u>Installation procedure</u>

Download the compressed package for your OS from the website, and extract it. Run the extracted "ClpPluginInstaller," and follow the instructions on the screen to perform installation.

5.2. <u>Deployment</u>

The required files and installation locations for CLP Importer and CLP Exporter are as follows.

Table 5-1: Deployment for Windows

File name	Description	Installation location
ImporterCLP.prm	CLP Importer	C:\Program Files \Adobe\Common\Plug-ins\7.0\MediaCore\ * Varies depending on the Premiere Pro installation location.
ExporterCLP.prm	CLP Exporter	C:\Program Files \Adobe\Common\Plug-ins\7.0\MediaCore\ * Varies depending on the Premiere Pro installation location.

Table 5-2: Deployment for Macintosh

File name	Description	Installation location
ImporterCLP.bundle	CLP Importer	/Library/Application Support/Adobe /Common/Plug-ins/7.0/MediaCore/
ExporterCLP.bundle	CLP Exporter	/Library/Application Support/Adobe /Common/Plug-ins/7.0/MediaCore/

6. Operation

6.1. Importing CLP files

6.1.1. Premiere Pro operations

The following three methods are available for importing CLP files in Premiere Pro.
①   Drag & drop
②   Menu operation
③   Context menu operation

① **Drag & drop**
     Drag & drop the CLP file directly from Explorer or Finder to the [Project] tab.
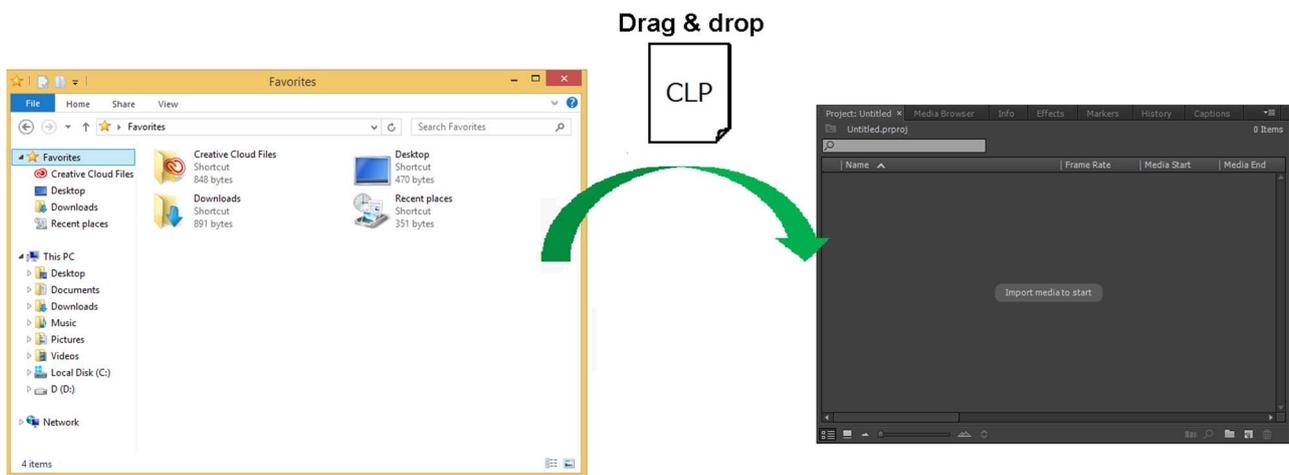
Figure 6-1: Importing via drag & drop

② **Menu operation**
     Select [Import] in the [File] menu to open the file selection dialog box, and select the CLP file (*.clp).
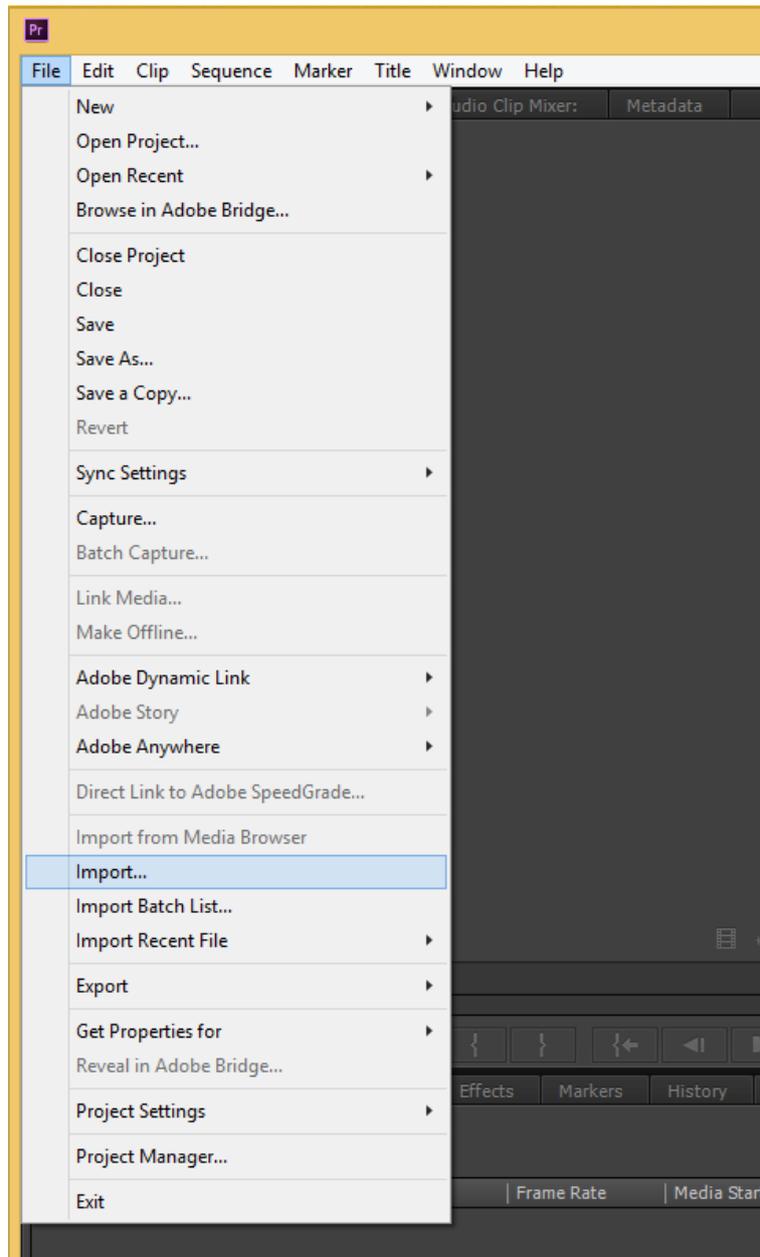
Figure 6-2: Importing via the menu

③ **Context menu operation**

Right-click (Ctrl + click) in the [Project] tab to display the context menu, and select [Import].
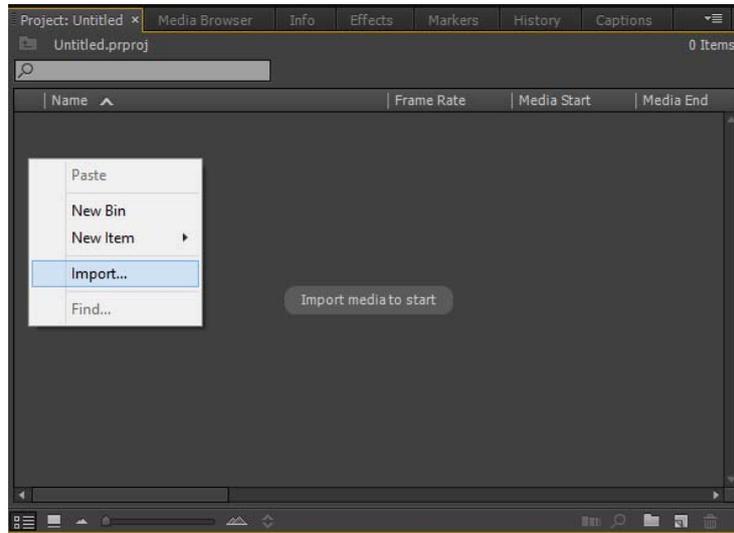
Figure 6-3: Importing via the context menu

6.1.2. **After Effects operations**

The following three methods are available for importing CLP files in After Effects.
①   Drag & drop
②   Menu operation
③   Context menu operation

① **Drag & drop**
    Drag & drop the CLP file directly from Explorer or Finder to the [Project] tab.
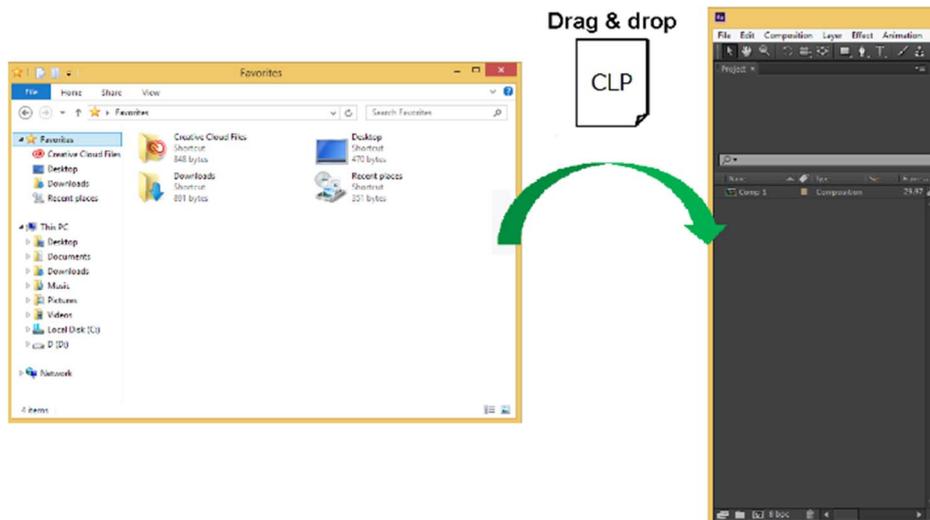
Figure 6-4: Importing via drag & drop

② **Menu operation**

Select [Import] - [File] in the [File] menu to open the file selection dialog box, and select the CLP file (*.clp).
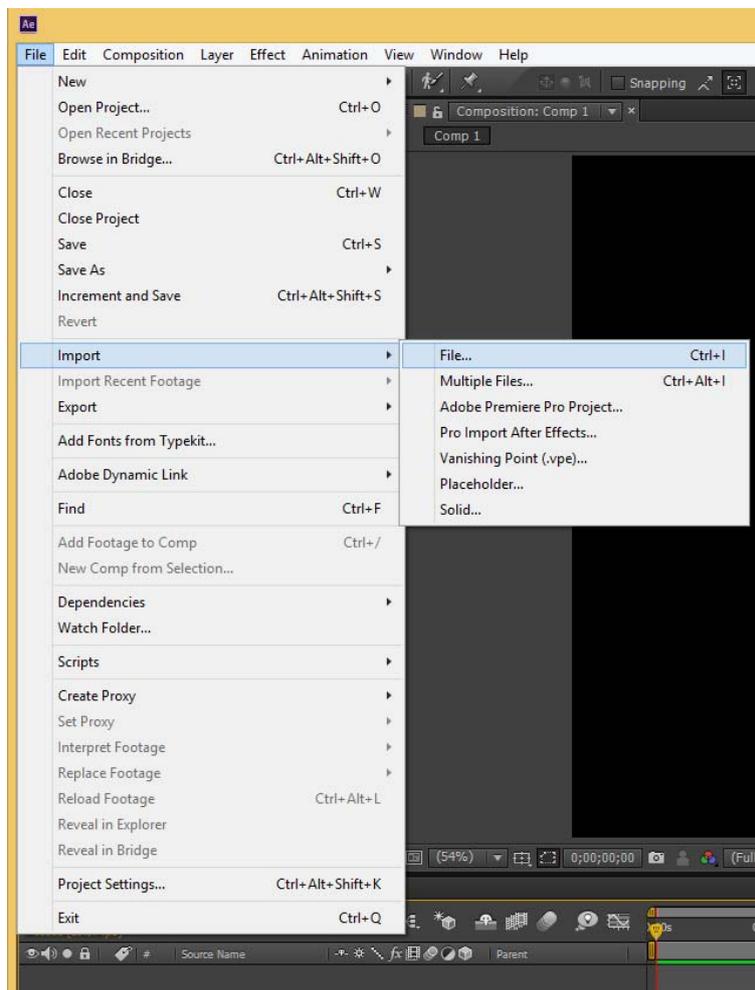
Figure 6-5: Importing via the menu

③ **Context menu operation**

Right-click (Ctrl + click) in the [Project] tab to display the context menu, and select [Import] - [File].
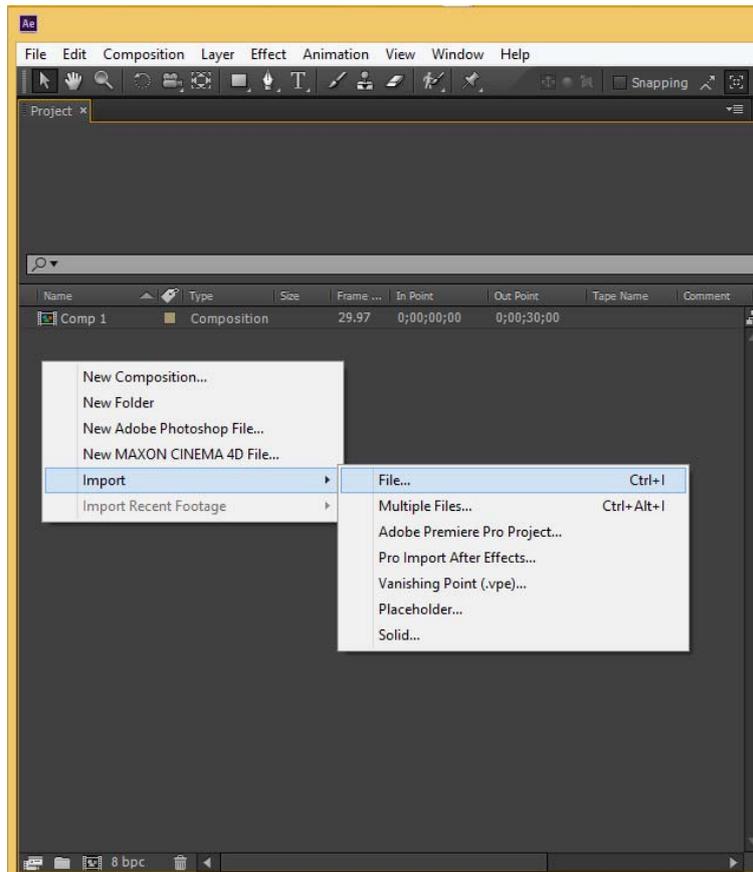
Figure 6-6: Importing via the context menu

6.2. **Exporting CLP files**

6.2.1. **Premiere Pro operations**

While the sequence you want to export is selected in Premiere Pro, select [Export] - [Media] in the [File] menu.
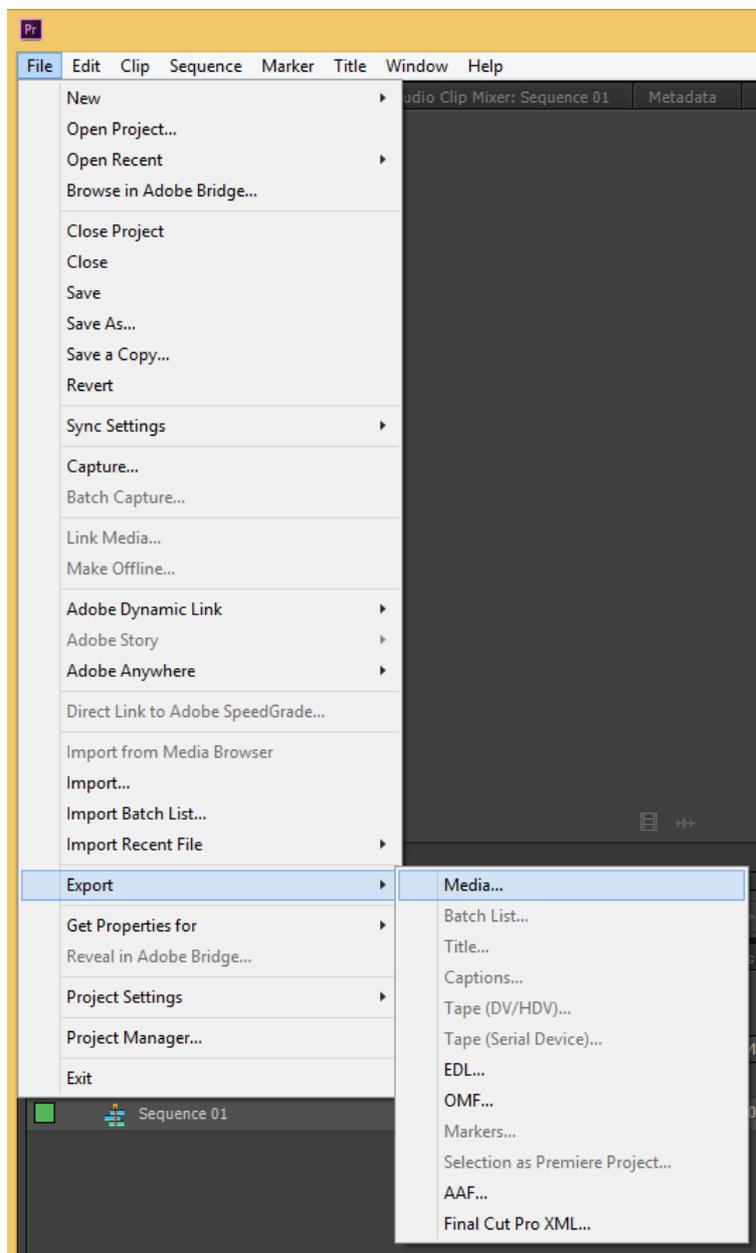
Figure 6-7: Opening the export settings dialog box

Configure the following in the export settings dialog box.
● Select CLP in [Format].
● Specify the output destination path in [Output Name].
● Configure the [Compression Level], [Alpha Channel], [Duration Check], and [Format] settings in the [Video] tab.
● Click the [Export] button.
  (Clicking the [Queue] button here opens Media Encoder. Export will also be performed from Media Encoder.)
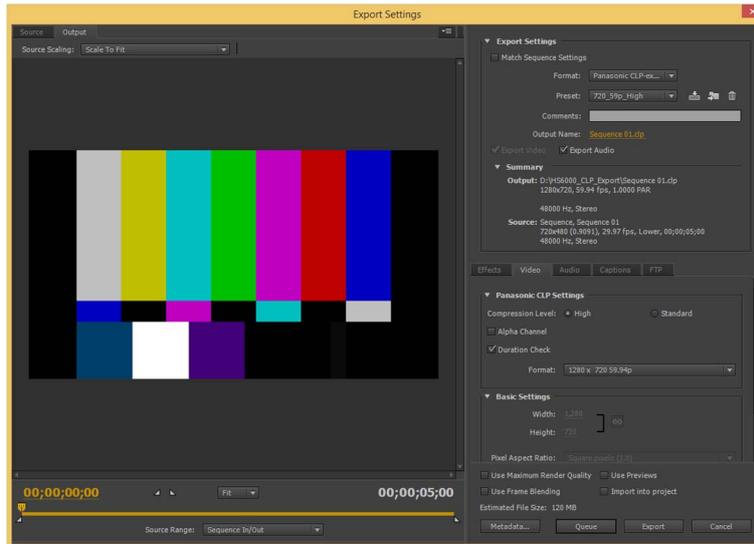
Figure 6-8: Export settings

6.2.2. **After Effects operations**

While the composition you want to export is selected in After Effects, select [Add to Adobe Media Encoder Queue] in the [Composition] menu.
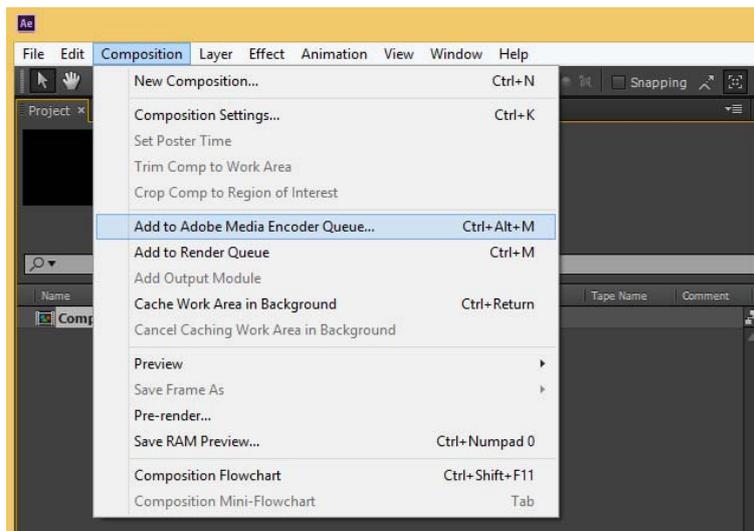
Figure 6-9: Opening Media Encoder

Shortly after Media Encoder opens, the composition you just added will appear in the [Queue] tab. Click the [Format] column for the added composition.
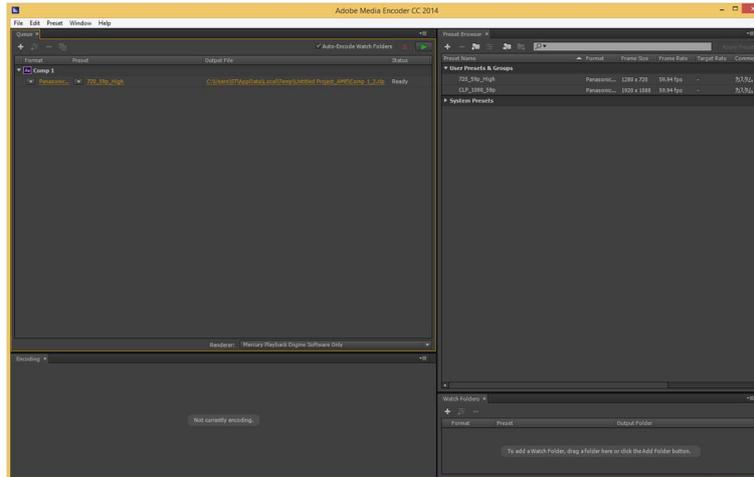
Figure 6-10: Adobe Media Encoder

Configure the following in the export settings dialog box.
● Select CLP in [Format].
● Specify the output destination path in [Output Name].
● Configure the [Compression Level], [Alpha Channel], [Duration Check], and [Format] settings in the [Video] tab.
● Click the [OK] button.
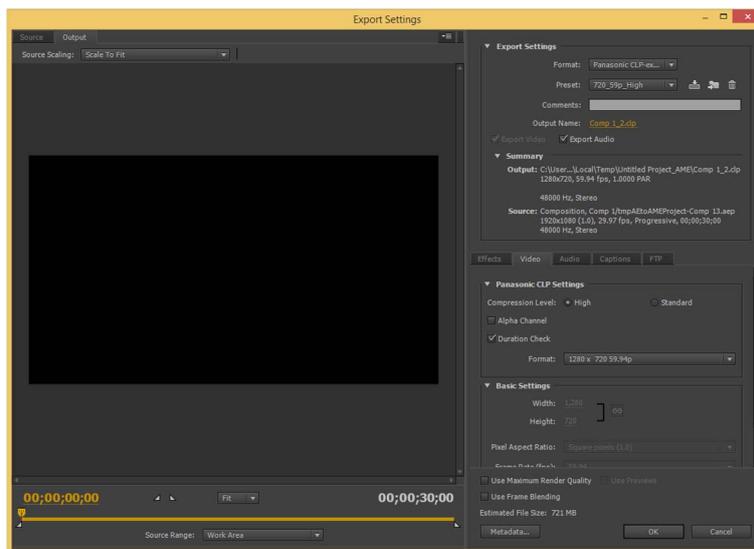
Figure 6-11: Export settings

Click the play button in the [Queue] tab to start export.