

Preparing a Video for the Universal Communicator

Revision C



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1. Purpose

This document describes one way to prepare a video for the Universal Communicator for the OLED Smart Display. It should be understood that there are other techniques available and that this may not be the best approach. QuickTime is used in this example as it was available but this tutorial does not represent a recommendation or endorsement. Other video editing programs can be used.

2. Using QuickTime to create bmp files for the Universal Communicator.

2.1. Open a video file using QuickTime.



- 2.2. Select Window.
- 2.3. Select Show Movie Properties.

	ClownFish 2	
File Edit View	Window Help	
	Show Movie Inspector	Ctrl+I
	Show Movie Properties	Ctrl+J
	Show <u>A</u> /V Controls Show <u>C</u> ontent Guide	Ctrl+K Ctrl+Alt+G
	Eavorites	•
	✓ ClownFish 2	_

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- 2.4. Select Video Track.
- 2.5. Select Visual Settings.
- 2.6. Set Scaled Size to 64x48 pixels.
 - 2.6.1. Uncheck Preserve Aspect Ratio if necessary.
- 2.7. Select Extract.

ClownFish	2 Properties	1			
Extract	°	9			Columns
Name	Start Time	Duration	Data Size	Format	
ClownFish 2	00:00:00.00	00:00:08.0	0 604.50 KB	-NA-	
Video Track	00:00:00.00	00:00:08.0	0 604.50 KB	Cinepak	
Z	1	M	2		3
Annotations R	esources Visual Se	ettings Other S	Settings	64	48
_ Mask ——			Transformation	//	
			Normal Size:	96 / 64	pixels
			Display Size	9 √ × √	pixels
			Scaled Size:	96 × 64	pixels 💌
				Preserve Aspe	ct Ratio
			Offset:	0 x 0	pixels
			Flip/Rotate:	+ t C	0
Choose	. Clear	Invert		Reset	
Transparenc	cy: Dither Cop	у 💌	Layer: 0 •	s are further	☐ High Quality ☐ Single Field ☐ Deinterlace

- 2.8. With new movie file select File.
- 2.9. Select Export.

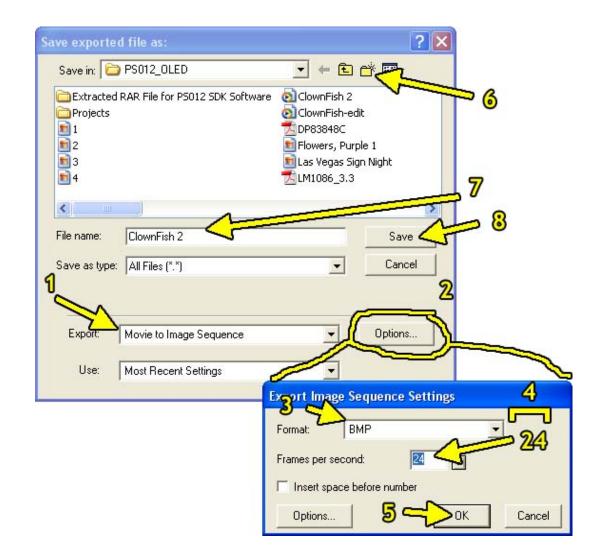


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Select Movie to Image Sequence in dropdown menu of Export.

- 2.10. Select **Options...**
- 2.11. Select BMP Format.
- 2.12. Select 24 frames per second.
- 2.13. Select OK.
- 2.14. Create a new folder to put the saved files in.
- 2.15. Open new folder.
- 2.16. Select a file name.
- 2.17. Select save.



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- 2.18. Wait for the export progress to end.
- 2.19. The bmp files are all in one folder.
- 2.20. Download files to OLED controller using the Universal Communicator using the download batch method.

3. Attributes and Loops for Displaying Videos.

- 3.1. Attributes and loops are explained in detail in the CL01 Intelligent Controller User Manual. An example of a loop is shown below. To enter the loop from any address the Actions Addresses, SW1 or SW2 should be set to the starting address of the loop. In this case 007AH.
- 3.2. First address:
 - 3.2.1. At the first address of the loop the End Address, EP1, has to have the address of the end of the loop.
 - 3.2.2. The timers have to be set to the desired speed.
 - 3.2.3. While in the loop, to have an action when a switch is pressed the Actions Addresses, SW1 or SW2, has to be set to the desired address. SW1 and SW2 could be either the right or left switch. An address of 0000 means no action to take.
- 3.3. Last address:
 - 3.3.1. At the last address of the loop if the Actions Addresses, SW1 and SW2, are set to zero the controller will go back to the first address of the loop.
 - 3.3.2. If they have an address then the controller will go to that address.
- 3.4. The rest of the addresses within the loop do not need any attributes set for the loop to run or for the switches to respond to being pressed.

In the example below Loop 1 starts at 007AH and ends at 0112H and has a speed of 01x24. 24 is the frame rate of the example movie. If switch, SW1, is pressed the controller will go to 0114H and if the switch, SW2, is pressed the controller will have no additional actions but simply continue its current task.

			Actions Addresses		Actions Addresses		End Address	Timers	
	DEC	HEX							
File Name	Address	Address	SW1	SW2	EP1	T1V	T2V		
ClownFish001	0122	007A	0114	0000	0112	01	24		
ClownFish002	0123	007B							
ClownFish003	0124	007C							
ClownFish004	0125	007D							
ClownFish151	0272	0110							
ClownFish152	0273	0111							
ClownFish153	0274	0112	0000	0000	0000	00	00		