### How to activate Timelapse for FLSUN 400

# in Klipper interface settings change Timelapse settings to match these:

≡ 👽 Flsun V400						UPLOAD & PRINT	() EMERGENCY STOP	🍫 🕛
			Tanana anakura a			Webser		
<b>@</b> WEBCAM	Complete	S	Temperatures	* COOLDOWN	¢	Webcam		
	<b>•</b> 987456321.gcode		Name Color State	Current Tar	get			
	Position         X         Y           absolute         -0.13         0.32	a Interface Settings			×			
	Filament Slicer Print 4.01 m 0:16:54 0:15:58	🛱 GENERAL	General					
		>_ CONSOLE	Enabled If disabled, G-Code macros are ignored and autorender is skippe	d.				
	≑ Z-Offset 🛛 🗹		Autorender					
*G HISTORY	current offset: -2.390m	DASHBOARD	If enabled, the timelapse video will automatically render at the end of the print					
() TIMELAPSE			Camera Select which camera should be used	webcam				FPS: 10
A MACHINE	- Controls	30 G-CODE VIEWER	Mode Select between Layermacro and Hyperlapse (timebased) mode	layermacro		Console		
	ALL	<> MACROS	Preview Image Save a preview image with the same name as the video					>
		<b>b</b> PRESETS	Save Frames					
(LADO)		PRINTERS	Save the frames to a zip-file for external rendering					
	-25 -1 -0.1 <b>Z</b> +0.1	TIMELAPSE	Stream Delay Compensation Delay frame capture	0.05	s			
9 1 2 ·		in [mm/s]	Verbose G-Code	el to Decel.				

🍫 Interface Settings	r Interface Settings				
🗱 GENERAL	Stream Delay Compensation Delay frame capture	0.05 s			
>_ CONSOLE 幸 CONTROL	Verbose G-Code If enabled, G-Code macros will write information to the console	-			
DASHBOARD	Park Toolhead				
EDITOR	Park Toolhead If enabled, the toolhead will be parked before taking a frame.	-			
3D G-CODE VIEWER	Park position Select the parking position	custom 👻			
<> MACROS	Position X Park postion X (absolute)	0 mm			
PRESETS	Position Y Park postion Y (absolute)	0 mm			
TIMELAPSE	Position Z Park postion Z (relative)	2 mm			

•	Interface Settings		×
۵	GENERAL	Position X Park postion X (absolute)	0 mm
>_	CONSOLE	Position Y Park postion Y (absolute)	0 mm
ا ت ا	CONTROL	Position Z Park postion Z (relative)	2 mm
₽ ₽	EDITOR	Travel Speed Travel speed while moving to the parking position and resuming	100 mm/s
ЭD	G-CODE VIEWER	FW Retract Use firmware retraction in the timelapse macro	••
<>	MACROS	Retract Speed Speed at which the extruder retracts the filament.	40 mm/s
ଞ୍ଚ	PRESETS	Retract Distance The length of filament that the extruder retracts.	0.6 mm
٢	TIMELAPSE	Unretract Speed Speed at which the extruder unretracts the filament after a retraction.	40 mm/s

Interface Settings		×			
GENERAL	Unretract Distance The length of filament that the extruder unretracts after a retraction.	0.6 mm			
CONSOLE	Park Time Add additional idle time when parking.	0.1 s			
CONTROL					
DASHBOARD	Rendering Options				
EDITOR	Variable FPS If enabled, the framerate of the output video will be calculated based on target length				
G-CODE VIEWER	Output Framerate Defines the framerate of the video. Note: this will be	30 frames			
MACROS	ignored if variable_tps is enabled				
PRESETS	duplicatelastframe Duplicates the last frame on the end of the video	5			
PRINTERS The configure quality on filesize of the rendered uideo. The					
	range of the CRF scale is $0-51$ , where 0 is lossless, 23 is the default and 51 is worst quality possible. A lower value	23			
TIMELAPSE	generally leads to higher quality and a subjectively sane range is 17–28. Consider 17 or 18 to be visually lossless.				
	Interface Settings GENERAL CONSOLE CONTROL DASHBOARD EDITOR G-CODE VIEWER MACROS PRESETS PRINTERS TIMELAPSE	Unterface Settings           GENERAL         Unretract Distance The length of filament that the extruder unretracts after a retraction.           CONSOLE         Park Time Add additional idle time when parking.           DASHBOARD         Rendering Options           EDITOR         Variable FPS If enabled, the framerate of the output video will be calculated bu ignored if variable. Jps is enabled           GCODE VIEWER         Output Framerate Defines the framerate of the video. Note: this will be ignored if variable. Jps is enabled           MACROS         Duplicatelastframe This configure quality vs fileisize of the rendered video. The range of the CRF scale is 0–51, where 0 is isoleses, 22 is the default and 51 is vorst quality possible. A lower value generally leads to 161, where 0 is to besidently one range is 17–28. Consider 17 or 18 to be visually lossibles.			

°o	Interface Settings		×				
\$	GENERAL	If enabled, the framerate of the output video will be calculated based on target length					
>_	CONSOLE	Output Framerate Defines the framerate of the video. Note: this will be Ignored if variable_fps is enabled	30 frames				
럁	CONTROL	duplicatelastframe Duplicates the last frame on the end of the video	5				
Ş	DASHBOARD	Constant Rate Factor					
₿	EDITOR	This configure quality vs filesize of the rendered video. The range of the CRF scale is 0–51, where 0 is lossless, 23 is the default and 51 is worst quality possible. A lower value	23				
ЭD	G-CODE VIEWER	generally leads to higher quality and a subjectively sane range is 17–28. Consider 17 or 18 to be visually lossless.					
<>	MACROS	Pixelformat Defines the pixelformat of the output video	yuv420p				
6	PRESETS	Time Format Code					
0	PRINTERS	This defines how the timestamp in the output file should be encoded	<sup>∞</sup> 1∞III∞0_∞I				
٥	TIMELAPSE	Extraoutputparams Defines extra output parameters to FFMPEG. Note: Specifing anything here will disable the rotation setting					

# To use this method of Timelapse you need to upload the gcode through Cura.

In Cura go to Marketplace and install MoonRaker Connection:

Then put your IP address for your Klipper console in and restart Cura.

• • •	Marketplace				Connect Moonraker		
Install Plugins			Flsun V400				
땁	Streamline your workflow and customize your Ultimaker Cura experience with plugins con community of users. Learn More 亿	ntributed by ou	Conr	ection	Upload	Monitor	
Q	moon	Plugins I	Address (URL)				
Search i	in the browser 亿		http://192.16	8.2.244/			
	Moonraker Connection 1.6.3 Upload and Print with Klipper via Moonraker API. By <u>emtrax</u>		API-Key (Optiona	ll - if the network is unt (Name configured in m	rusted) oonraker.conf)		
	No more results to load		Frontend (altern	ative URL instead of Mc	oonraker's address for "Open Browser")		

### In Cura go to Extensions>Post Processing>Modify GCODE



#### Then Slice the file.



#### Click Upload to FLSUN V400

Upload to Moonraker						
Filename						
FV_Low_Poly_Planter large and fast gcode						
Start print job						
	Upload	Cancel				

Select : Start Print Job and then Upload. If you upload without selecting start print job you can start the job later from the console.

After the print is done make sure the Timelapse has rendered before you turn off the printer.