

AVer CL01 Camera Controller Firmware Upgrade

February 2020

<u>Steps to update the CL01 Camera Controller to a later version of firmware using a Micro-USB cable</u> and Windows laptop.

There are 3 main components to the upgrade:

- 1. The STMISP software Tool for Windows OS.
- 2. The CH341SER (serial) driver.
- 3. CL01 firmware (1.20).

CL01 Firmware upgrade process (SOP):

- 1. Download the current "CL01.7z" zipped file, it will contain the above 3 mentioned components.
- 2. Un-zip into a folder on your PC/Laptop.



3. Next, connect the Controller (CL01) Upgrade USB to the PC via a Micro-USB cable.



4. Once plugged in and powered on, Windows should automatically recognize the CL01 with a COM port.

🛃 Device Manager		
File	Action View Help	
<hr/>		
>	Monitors	
>	🖵 Network adapters	
~	Ports (COM & LPT)	
	💭 USB-SERIAL CH340 (COM3)	
<u> </u>	Print quoues	

5. Next, we want to verify the CL01 firmware currently in use. Long press the CL01 Menu key, you should see the following Menu selection, 1-4:



- 6. Next, using the Joystick, move to the right to enter #1 (System Settings).
- 7. Next, move down to selection #7 (About keyboard), it will display the current version of firmware.



8. Next, open the STMISP folder, and then locate the StmIsp executable and double click it.

эси	ments > AVER Pro-AV > Contro	ller Products > CL01 > Firm	nware > STMISP			~
	Name	Date modified	Туре	Size	^	
	IIDUC_S_uwz=1.ull	12/20/2013 3.23 411	Аррисацон ехсензіон	I IO ND		
L	libGLESV2.dll	1/18/2017 3:43 PM	Application extension	2,736 KB		
L	libstdc++-6.dll	12/28/2015 5:25 PM	Application extension	1,505 KB		
L	libwinpthread-1.dll	12/28/2015 5:25 PM	Application extension	78 KB		
L	🗟 opengl32sw.dll	6/14/2016 9:08 AM	Application extension	15,621 KB		
L	Qt5Core.dll	6/5/2019 11:41 PM	Application extension	5,294 KB		
L	🚳 Qt5Gui.dll	1/18/2017 3:50 PM	Application extension	5,183 KB		
Ŀ	Qt5Network.dll	1/18/2017 3:45 PM	Application extension	1,709 KB		
	🗟 Qt5SerialPort.dll	1/18/2017 4:14 PM	Application extension	76 KB		
	🚳 Qt5Svg.dll	1/18/2017 4:14 PM	Application extension	342 KB		
	Qt5Widgets.dll	1/18/2017 3:56 PM	Application extension	6,202 KB		
	🛐 setting	2/13/2020 9:30 PM	Configuration settin	1 KB		
	🍪 Stmlsp	6/5/2019 11:38 PM	Application	768 KB	~	
•	c la			2	>	

9. The STMISP programmer will open up and you will first select the "path" where the new Firmware is located y selecting the 3 dots. Notice the "Upgrade" selection is greyed out.



10. Next, navigate to where the KB100_V1.20.hex is located and select the file, then "Open".

🍪 Open File	×
\leftarrow \rightarrow \checkmark \uparrow \blacksquare « CL01 » Firmware	✓ ♥ Search Firmware
Organize • New folder	· · · · · · · · · · · · · · · · · · ·
Image: Style state sta	Date modified 2/14/2020 5:35 PM 12/30/2019 10:02 PM
 Kaltura Camera Photos Portland Police OneDrive This PC 	
 3D Objects Desktop 	
Documents V <	>
File name: KB100_V1.20	Hex File (*.hex)OpenCancel

11. Next, you should now be back at the STM In System Programmer with the file selected.

🛞 STM In System Pr	ogrammer V0.606	_	
STM ISF	Port COM3 •	EnumPort	Ungrade
/Controller Products/CL0	1/Firmware/KB100_V		opgrade
	0%		

12. Next, select "Upgrade", the Green progress meter should start to move along until it reaches 100%.

🧭 STM In System Programmer V0.606 — 🗌 🗙	🤡 STM In System Programmer V0.606 🛛 🗌 🗙
STM ISF Port COM3 - EnumPort	STM ISF Port COM3 - EnumPort
/Controller Products/CL01/Firmware/KB100_V1.20.hex	/Controller Products/CL01/Firmware/KB100_V1.20.hex
60%	100%

- There is NO other notification that the upgrade is finished, only that the progress meter is at 100%. The CL01 will "re-boot" automatically, you should see the AVer logo appear in the CL01 display.
- 14. Select the upper right "X" to exit the STM ISP programming.
- 15. Disconnect the USB cable connected to the CL01 and PC/laptop.
- 16. To verify that the CL01 has the updated firmware, navigate to the #7 (About Keyboard) using the Joystick and confirm the Firmware Version 1.20.



17. This concludes the SOP to upgrade the CL01 to a later Firmware version.