

CINETREAK *CAP205*

3G -SDI To USB 3.0
Video Capture Card



1、 Introduction

1.1 Brief

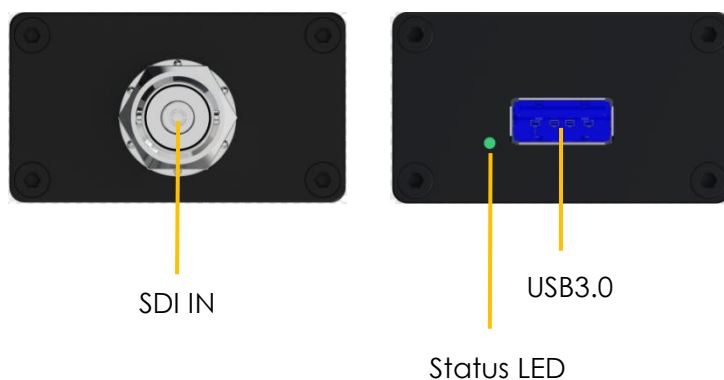
The CAP20S is small, stable, and reliable and professional. It's easy to use without any installation of drivers. In various application scenarios, it captures and sends videos to a PC or laptop, with built-in 12-bit color processing module and 17 points 3D LUT to meet professional needs.

1.2 Features

- SDI to USB3.0
- Support SD/HD/3G LevA/LevB DL/DS
- Support 422/444 and 10/12bit sample structure
- Support ST 2048 for professional cinematography
- Support Professional 12-bit processing
- Adaptive and easy to use
- Support 17 points 3D-LUT
- Support UVC and UAC
- USB3.0,supports YUV2 up to 1920x1080@P60
- USB2.0,supports MJPG up to 1920x1080@P50
- Video Input: 1xSDI
- Video Output: 1xUSB 3.0
- Power Supply: USB3.0
- Power and Status LED
- Support Ultra Control Utility

2、 Interfaces

2.1 Interfaces Description



3、 Configuration

Parameters

Input	3G SDI*1
Output	USB3.0× (TYPE-A)

Function

3D LUT	17*17*17 3D LUT
3D LUT Files	USB3.0×1 (TYPE-A)

Format Support

SDI Format	SD-SDI HD-SDI 3G-SDI LEVEL A 3G-SDI LEVEL B-DL 3G-SDI LEVEL B-DS
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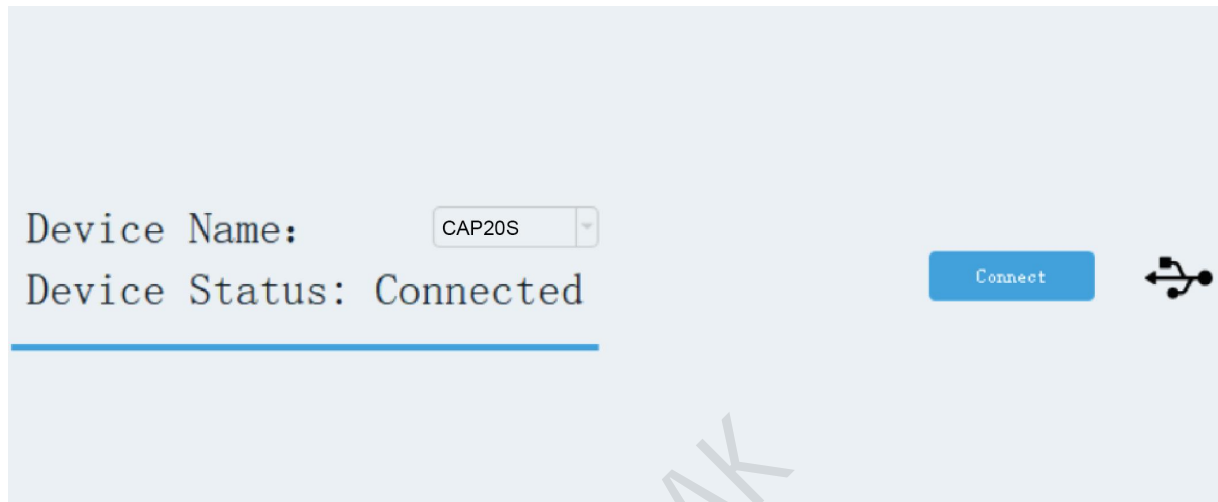
Others

Power	5V(USB TYPE-A)
Size(LDW)	93*43*25mm
Weight	93g
Temperature	Working: 0°C~50°C, Storage: -30°C~70°C
Accessory	USB3.0 cable×1

4、 Operation

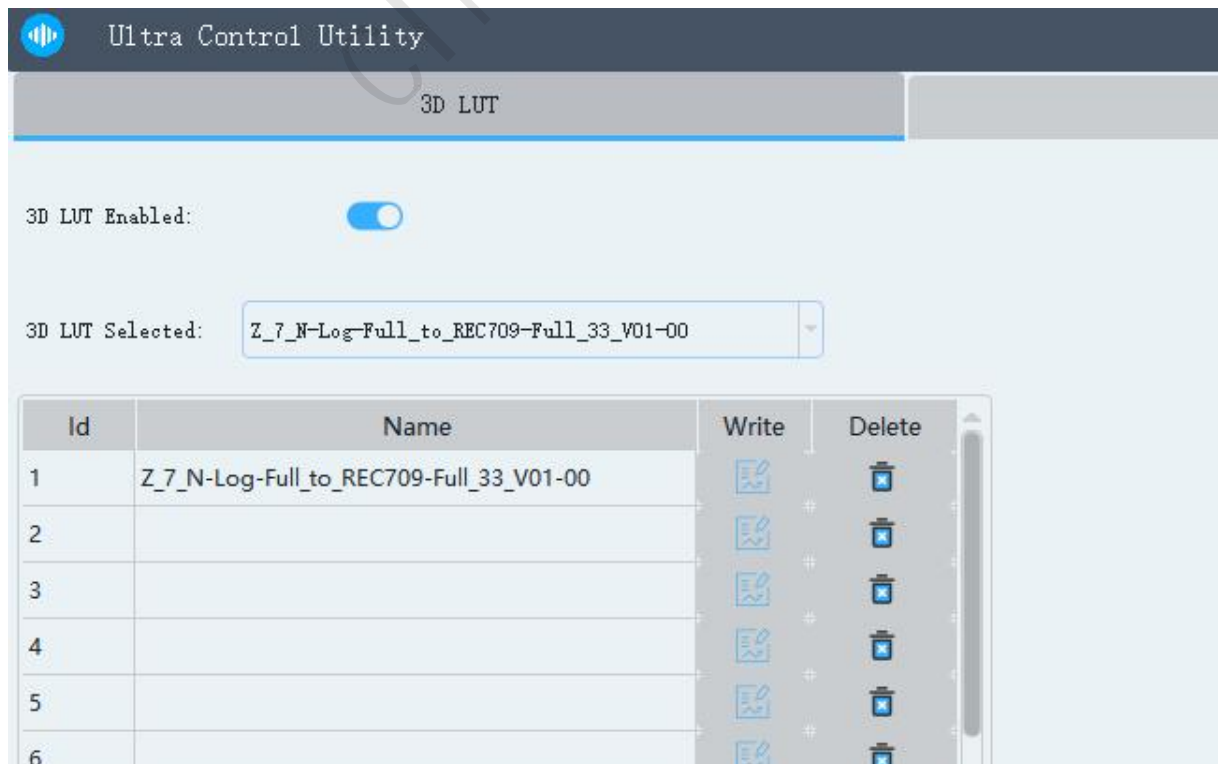
4.1 Link Ultra_Control_UTILITY

Connect the CAP20S to the PC with a USB3.0 cable. Open the ultra_control_utility.exe. Select the device name to CAP20 and click connect button.



4.2 3D LUT

With built-in 17-point 3D LUT function, CAP20S can achieve professional color conversion and prefabricated color style. Users can store up to 16 3D LUT files in CAP20S, and quickly select and apply the required 3D LUT.




4.2.1 Write 3D LUT

In 3D LUT panel, click , select 3D LUT and write it to CAP20S.

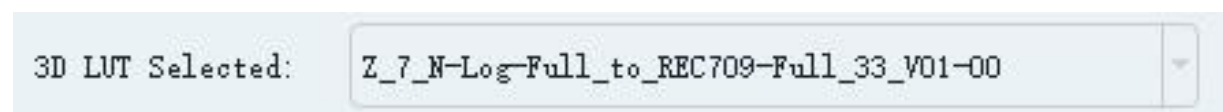
Note: Only 17-point and 33-point 3D LUT file supported.

4.2.2 Delete 3D LUT

In 3D LUT panel, click , click Yes button in the pop-up windows to delete the 3D LUT.

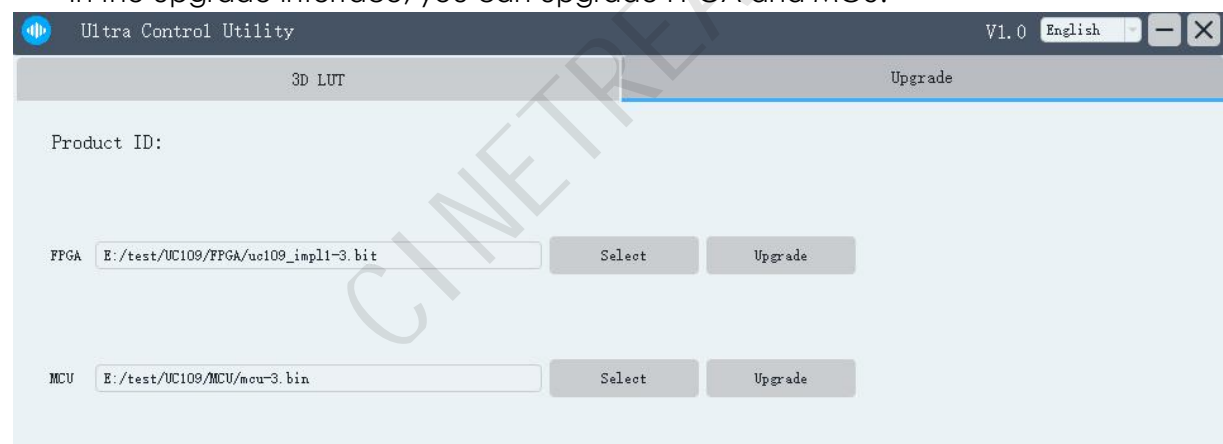
4.2.3 Select Working 3D LUT

In 3D LUT panel, in the drop down box, select the 3D LUT. And the selected 3D LUT will be applied to the video.



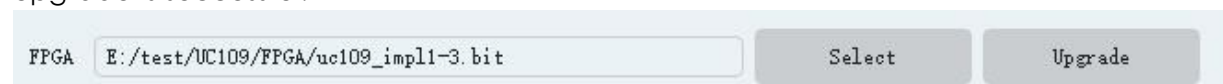
4.3 Upgrade

In the upgrade interface, you can upgrade FPGA and MCU.



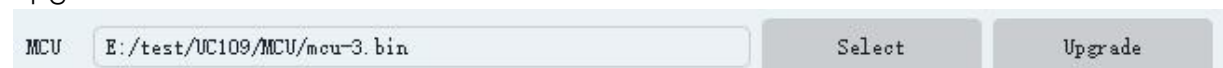
4.3.1 Upgrade FPGA

In the upgrade interface, click the select button of FPGA, select the FPGA bit file, and click the upgrade button. After the progress bar is completed, the upgrade is successful.



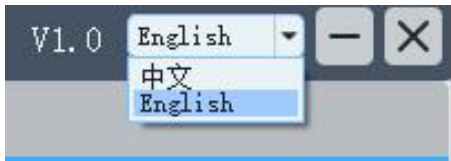
4.3.2 Upgrade MCU

In the upgrade interface, click the select button of MCU, select the MCU bin file, and click the upgrade button. After the progress bar is completed, the upgrade is successful.



4.4 Language

At the right up corner of the ultra_control_utility, the language can be select in the drop down box. English and Chinese are supported



4.5 Back/Reset

In the ultra_control_utility, at the right down corner, there are back and reset button. Click back button and return to the connect interface. Click reset and set CAP20S to default.



5、Format Support

5.1 Input

SD-SDI

Raster	Sampling
525	YCbCr 422 10bits
625	YCbCr 422 10bits

HD-SDI

Raster	Refresh	Sampling
1280×720	23.98/24/25/29.97/30/50/59.94/60p	YCbCr 422 10bits
1920×1080	23.98/24/25/29.97/30p 23.98/24/25/29.97/30psf 50/59.94/60i	YCbCr 422 10bits
2048×1080	23.98/24/25/29.97/30p 23.98/24/25/29.97/30psf 50/59.94/60i	YCbCr 422 10bits

3G-SDI

Raster	Refresh	Sampling	Level A/B
1280×720	23.98/24/25/29.97/30/50/59.94/60p	GBR 444 10bits GBRA 4444 10bits YCbCr 444 10bits YCbCrA 4444 10bits GBR 444 12bits YCbCr 444 12bits YCbCr 422 12bits	Level A
1280×720	23.98/24/25/29.97/30/50/59.94/60p	YCbCr 422 10bits	Level B-DS
1920×1080	47.95/48/50/59.94/60p	YCbCr 422 10bits	Level A Level B-DL
1920×1080	23.98/24/25/29.97/30p 23.98/24/25/29.97/30psf 50/59.94/60i	GBR 444 10bits GBRA 4444 10bits YCbCr 444 10bits YCbCrA 4444 10bits GBR 444 12bits YCbCr 444 12bits YCbCr 422 12bits	Level A Level B-DL
1920×1080	23.98/24/25/29.97/30p 23.98/24/25/29.97/30psf 47.95/48/50/59.94/60p	YCbCr 422 10bits	Level B-DS

2048×1080	47.95/48/50/59.94/60p	YCbCr 422 10bits	Level A Level B-DL
2048×1080	23.98/24/25/29.97/30p 23.98/24/25/29.97/30psf 50/59.94/60i	GBR 444 10bits GBRA 4444 10bits YCbCr 444 10bits YCbCrA 4444 10bits GBR 444 12bits YCbCr 444 12bits YCbCr 422 12bits	Level A Level B-DL
2048×1080	23.98/24/25/29.97/30p 23.98/24/25/29.97/30psf 47.95/48/50/59.94/60i	YCbCr 422 10bits	Level B-DS

5.2 Output

UVC

USB	Resolution	Frame Rate
USB3.0	1920×1080	60
	1600×1200	60
	1360×768	60
	1280×720	60
	1280×960	60
	1280×1024	60
	1024×768	60
	800×600	60
	720×480	60
	720×576	60
USB2.0	640×480	60
	1920×1080	50
	1600×1200	50
	1360×768	60
	1280×720	60
	1280×960	60
	1280×1024	60
	1024×768	60
	800×600	60
	720×480	60
720×576	60	
640×480	60	

6、 Appendix

6.1 Appendix A: Accessories

(The picture is for reference only, please refer to the real object):

USB3.0x 1

6.2 Appendix B: Safety And Needs

●Before operating the machine, please read this manual and keep it properly for future reference.

●Do not open the cover by yourself to avoid damaging the machine.

●Please unplug the power when the machine is not used for a long time.

●In order to reduce the risk of fire or electric shock, please do not let the machine be exposed to rain, damp or liquid flow into the machine. The machine is not dust-proof, moisture proof and waterproof.

●Please keep good ventilation of the machine and do not block the ventilation of the machine.

●Please do not put heavy objects on this machine.

●To maintain high-definition audio and video, please use high-quality signal cables and connectors.

●The input voltage range of this product's power supply is 5V, please use the correct power supply.

●The working temperature of this product is 0 °C~50 °C, please use within this temperature range; The storage temperature is - 30 °C~70 °C, please store within this temperature range.

●This product is an electronic product. Please keep away from fire sources, water sources and flammable and explosive dangerous goods.

●If any abnormality is found, please turn off the power switch immediately and contact the dealer. Do not repair the equipment by yourself.



Cinetreak Technology



Cinetreak.global



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RoHS
made in china

