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*Version 2.1.1*: Support Support to send command by FT4222, change input of gain from iso to total gain

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1. **Send command by FT4222:**

python camera\_script.py -ft <*FT4222 PATH*> <*Comamnd*>

Eg:

*$ python camera\_script.py -ft ./FT4222 -c a1 -o hw*

1. **Open/close camera:**

Support 3 arguments: open hardware standby (hw), open software standby (sw), close camera (cl).

Eg:

Open hardware standby camera a1:

*$ python camera\_script.py -c a1 -o hw*

Open software standby global bitmask:

*$ python camera\_script.py -c g -o sw*

Open software standby a1, hardware standby a3, close camera c3:

*$ python camera\_script.py -c a1 a3 c3 -o sw hw cl*

1. **Set UCID**

Support ucid: preview, hires, focal, video, hdr

Eg:

Set ucid preview:

*$ python camera\_script.py -u preview*

1. **Streaming**

If streaming is on or off without tx, vc, dt, default is tx 0, vc 0, dt 0

*$ python camera\_script.py -c a1 -s on*

Stream on camera a2 with tx1, vc2:

*$ python camera\_script.py -c a2 -s on -tx 1 -vc 2*

Stream off camera c4 at tx 0, vc1:

*$ python camera\_script.py -c c4 -s off -tx 0 -vc 1*

Stream on a3 at tx:0 vc:0 dt:RAW\_10, b2 at tx:1 vc:1 dt:LIGHT\_RAW , stream off c1 at tx1 vc2 dt:RAW\_10:

*$ python camera\_script.py -c a3 b2 c1 -s on on off -tx 0 1 1 -vc 0 1 2 -dt RAW\_10 LIGHT\_RAW RAW\_10*

1. **Sensitivity**

Support setting total gain

Eg:

Set total gain 1.25 for camera a1 at ucid preview

*$ python camera\_script.py -c a1 -u preview -g 1.25*

Set ISO 3.5 for camera a1 and 2.5 for camera a3 at ucid preview

*$ python camera\_script.py -c a1 a3 -u preview -g 3.5 2.5*

1. **Exposure**

Support setting exposure time when input is ns

Eg:

Set exposure time 5000000 ns for camera a1 at ucid preview

*$ python camera\_script.py -c a1 -u preview -e 5000000*

Set exposure time 5000000 ns for camera a1 b1 at ucid preview

*$ python camera\_script.py -c a1 b1 -u preview -e 5000000*

* This command have just supported 1 argument of exposure time

1. **FPS**

Eg:

Set fps 30 for camera a1 at ucid preview

*$ python camera\_script.py -c a1 -u preview -fps 30*

Set exposure time 24 ns for camera a1 b1 at ucid preview

*$ python camera\_script.py -c a1 b1 -u preview -e 24*

* This command have just supported 1 argument of fps

1. **Resolution**

Support 6 resolution: 3M,13M,720P,1080P,4K\_UHD,4K\_CINEMA

Eg:

Set resolution 1080P for camera a1 at ucid preview

*$ python camera\_script.py -c a1 -u preview -r 1080P*

Set resolution 4K\_UHD for camera a1 b1 at ucid preview

*$ python camera\_script.py -c a1 b1 -u preview -r resolution 1080P*

* This command have just supported 1 argument of resolution

1. **Focus distance**

Support setting focus distance when input is mm

Eg:

Set focus distance 150 mm for camera a1

*$ python camera\_script.py -c a1 -f 150*

Set exposure time 300 mm for camera a1 b1

*$ python camera\_script.py -c a1 b1 -u preview -f 300*

* This command have just supported 1 argument of focus distance

1. **Len position**

Support setting hall value for len position

Eg:

Set Len position 0x200 for camera a1

*$ python camera\_script.py -c a1 -ghsv 200 -l*

Set Len position 0x200 for camera a1, 0x500 for camera b2

*$ python camera\_script.py -c a1 b2 -ghsv 200 500 -l*

1. **Mirror position**

Support setting hall value for mirror position

Eg:

Set mirror position 0x200 for camera b1

*$ python camera\_script.py -c b1 -ghsv 200 -m*

Set mirror position 0x200 for camera b1, 0x500 for camera b2

*$ python camera\_script.py -c b1 b2 -ghsv 200 500 -m*