

Release Note

Date: 20230719

version: V1.04P31|2085V5|V1.00|20230719\_26|develop|586b47f

framework: 586b47f

mdk: c5f53bc

- 1, fix viewer open but uvc still not ready issue
- 2, add hid command to set imu ODR
- 3, update fisheye 720p set aec timing
- 4, add dewarp feature mask
- 5, add msensor: st480 driver support
- 6, update imu offset
- 7, vslam optimize
  - 1) Noise calculation
  - 2) Move coord to cmx heap
  - 3) change ctile from cmx\_other to ddr direct bss
  - 4) Update thresh table
  - 5) add initTH\_set to set init\_min\_threshold
  - 6) fix open guvcview ,debug\_buff show
  - 7) add new aec ctrl channel ,support 1us accuracy
  - 8) Fix dewarp extrinsic

=====  
=

Release Note

Date: 20230214

version: V1.04P31|2085V5|V1.00|20230214\_26|develop|4027518

framework: 4027518d

mdk: 100dfc0

- 1, fix DS 720p timestamp err
- 2, add usb restart hid command
- 3, modify imu def ODR to 500hz
- 4, fix 2085 v5 imu500 downsample offset
- 5, assign values of nb\_features before return
- 6, enable mx ae auto & manual
- 7, 2085v5 adjust imu\_offset

=====  
=

Release Note

Date: 20221027

version: V1.04P31|2085V5|V1.00|20221027\_26|develop|564f835

framework: 564f8359

mdk: 79b1829d

- 1, add cougar2085v5 downsample 58fps
- 2, New detector strategy
- 3, fix downsample fisheye\_58hz set imu\_offset to 0
- 4, update couagr2085v5 imu 500hz offset
- 5, fix TOFIR lablize have line bug
- 6, vslam: Fix model type and delete useless model type
- 7, vslam:Disable slam process in slam\_handler\_c.c when in host only mode
- 8, vslam:Fix crash matching
- 9, vslam:fix reset bug jump
- 10, vslam: Fix crash 2085 v4
- 11, vslam: UPdate library which causes problem with L1C cache

=====  
=

#### Release Note

Date: 20220823

version: pls refer to the FW info list.

mdk: c21e2cc

- 1, fix sgbm fe\_switch/fix res get ucm calib
- 2, New calibration model add.
- 3, fix 2085v5/2085v4 imu\_offset to 0
- 4, support gamma simd opt
- 5, Develop fix port unplog
- 6, vslam optimize:add new function model
- 7, downsample enable fe switch
- 8, Allow DS downsample to work without SGBM
- 9, fix tof img glimmer and valsm cmx overlap bug and common Lut into shave
- 10 fisheye downsample feature optimize.

-----  
Release Note

Date: 20220518

version: pls refer to the FW info list.

mdk: 29e8cbdd

- 1, merge no gamma detector
- 2, optimize sbgm calib and mesh generate
- 3, fix uvc fe res switch, same process with hid  
fix stereo objpipe.erase, when there are more than one pipeline for one obj

(eg:lr\_check=true) will goes wrong

- 4, fix fe res switch hold vslam and release
- 5, fix fisheye multi resolution compitible on win10
- 6,fix 12 shave edge mode,image drop frames.
- 7, ony tof: m8 opt process time: 78ms->28ms
- 8, fix stereo cfg.calib.width init and reconfig stereo in fe switch mode
- 9, fix sdk cannot get sn or download tool cannot get version after bootup
- 10, disable imu pull, to fix imu rate cannot reach 1000fps.

-----  
FW info:

framework\_tofedge\_12shr\_disable\_vslam\_for\_rgb\_8m.img  
version: V1.04P31 | |ma2085|V1.00|20220518\_24|develop|96d8fb8

framework\_tofedge\_12shr\_disable\_vslam\_for\_rgb\_8m.img  
version: V1.04P31 | |ma2085|V1.00|20220518\_23|develop|96d8fb8

framework\_tofedge\_sgbm\_feswitch\_1280\_800\_50hz\_8m.img  
version: V1.04P31 | |ma2085|V1.00|20220518\_17|develop|96d8fb8

framework\_tofedge\_sgbm\_feswitch\_1280\_800\_50hz\_8m.img  
version: V1.04P31 | |ma2085|V1.00|20220518\_18|develop|96d8fb8

framework\_tofedge\_sgbm\_feswitch\_1280\_800\_60hz\_8m.img  
version: V1.04P31 | |ma2085|V1.00|20220518\_15|develop|96d8fb8

framework\_tofedge\_sgbm\_feswitch\_1280\_800\_60hz\_8m.img  
version: V1.04P31 | |ma2085|V1.00|20220518\_16|develop|96d8fb8

framework\_tofedge\_sgbm\_vga\_50hz\_8m.img  
version: V1.04P31 | |ma2085|V1.00|20220518\_20|develop|96d8fb8

framework\_tofedge\_sgbm\_vga\_50hz\_8m.img  
version: V1.04P31 | |ma2085|V1.00|20220518\_19|develop|96d8fb8

framework\_tofedge\_sgbm\_vga\_60hz\_8m.img  
version:V1.04P31 | |ma2085|V1.00|20220518\_14|develop|96d8fb8

framework\_tofedge\_sgbm\_vga\_60hz\_8m.img  
version: V1.04P31 | |ma2085|V1.00|20220518\_07|develop|96d8fb8

=====  
Release Note

Date: 20220409  
version: pls refer to the FW info list.  
mdk: e611beb

- 1, fix fisheye Y8 send issue over UVC after enable switch fisheye resolution
- 2, fix mismatch of resolution between vslam and sgbm
- 3, fix rgb resolution frequent switching to cause usb disconnect
- 4, fix bug, module crash if first enable rgb and then enable tof on viewer.
- 5, fix tof glimmer bug, 3 boarder into shave.

-----  
FW info:

framework\_tofedge\_12shr\_disable\_vslam\_for\_rgbd\_8m.img  
version: V1.04P31 | |ma2085|V1.00|20220409\_24|develop|95687bf

framework\_tofedge\_12shr\_disable\_vslam\_for\_rgbd.img  
version: V1.04P31 | |ma2085|V1.00|20220409\_23|develop|95687bf

framework\_tofedge\_sgbm\_feswitch\_1280\_800\_50hz\_8m.img  
version: V1.04P31 | |ma2085|V1.00|20220409\_17|develop|95687bf

framework\_tofedge\_sgbm\_feswitch\_1280\_800\_50hz.img  
version: V1.04P31 | |ma2085|V1.00|20220409\_18|develop|95687bf

framework\_tofedge\_sgbm\_feswitch\_1280\_800\_60hz\_8m.img  
version: V1.04P31 | |ma2085|V1.00|20220409\_15|develop|95687bf

framework\_tofedge\_sgbm\_feswitch\_1280\_800\_60hz.img  
version: V1.04P31 | |ma2085|V1.00|20220409\_16|develop|95687bf

framework\_tofedge\_sgbm\_vga\_50hz\_8m.img  
version: V1.04P31 | |ma2085|V1.00|20220409\_20|develop|95687bf

framework\_tofedge\_sgbm\_vga\_50hz.img  
version: V1.04P31 | |ma2085|V1.00|20220409\_19|develop|95687bf

framework\_tofedge\_sgbm\_vga\_60hz\_8m.img  
version:V1.04P31 | |ma2085|V1.00|20220409\_14|develop|95687bf

framework\_tofedge\_sgbm\_vga\_60hz.img  
version: V1.04P31 | |ma2085|V1.00|20220409\_07|develop|95687bf

=====

Release Note

Date: 20220322

version: pls refer to the FW info list.

mdk: de35fc0

- 1, 2085V5 code bringup based on project requirements.
- 2, The basic functionality of fisheye/rgb/tof/imu works fine.
- 3, enable cam sync mode and app power manager
- 4, integrate imu driver: ICM426XX (spi 1000HZ)
- 5, add new HID command
  - 1.(0x02 0xAB 0xCE)to set fisheye fps
  - 2.(0x02 0x1A 0x97) to control vslam mix mode
  3. usb HID interval optimize to 0.5ms
- 6, add timestamp debug switch option (tof/rgb/fe/imu)
- 7, add mag sensor driver ak09918
- 8, ov9282 1280x800 setting update to 1lane.
- 9, integrate sony tof submodule
  - 1.support IQ/M2/edge mode.
  - 2.new FW for cougar2085V5: RGBD with 12 shave
  - 3.fix sony tof aec issue when switch tof mode
  - 4.support QVGA mode.
- 10, update imu fe timeoffset
- 11, dailybuild add RGB 8M FW

-----

FW info:

framework\_tofedge\_12shr\_disable\_vslam\_for\_rgbd\_8m.img  
version: V1.04P31 | ma2085 | V1.00 | 20220322\_24 | develop | 345da05

framework\_tofedge\_12shr\_disable\_vslam\_for\_rgbd.img  
version: V1.04P31 | ma2085 | V1.00 | 20220322\_23 | develop | 345da05

framework\_tofedge\_sgbm\_feswitch\_1280\_800\_50hz\_8m.img  
version: V1.04P31 | ma2085 | V1.00 | 20220322\_17 | develop | 345da05

framework\_tofedge\_sgbm\_feswitch\_1280\_800\_50hz.img  
version: V1.04P31 | ma2085 | V1.00 | 20220322\_18 | develop | 345da05

framework\_tofedge\_sgbm\_feswitch\_1280\_800\_60hz\_8m.img  
version: V1.04P31 | ma2085 | V1.00 | 20220322\_15 | develop | 345da05

framework\_tofedge\_sgbm\_feswitch\_1280\_800\_60hz.img  
version: V1.04P31 | ma2085 | V1.00 | 20220322\_16 | develop | 345da05

framework\_tofedge\_sgbm\_vga\_50hz\_8m.img

version: V1.04P31 || ma2085 | V1.00 | 20220322\_20 | develop | 345da05

framework\_tofedge\_sgbm\_vga\_50hz.img

version: V1.04P31 || ma2085 | V1.00 | 20220322\_19 | develop | 345da05

framework\_tofedge\_sgbm\_vga\_60hz\_8m.img

version: V1.04P31 || ma2085 | V1.00 | 20220322\_14 | develop | 345da05

framework\_tofedge\_sgbm\_vga\_60hz.img

version: V1.04P31 || ma2085 | V1.00 | 20220322\_07 | develop | 345da05

=====

=