

Kneron Inc

Document Name: Release Notes for Kneron KL520 SDK V0.9.5

Release Notes RN-5 Kneron KL520 SDK V0.9.5

Kneron Inc
Engineering Design Document

Version

V0.9.5

New Features

1. Reference design of using customer model saved in flash is provided
2. Model protection with user key
3. More flexibility of customized DB design with output feature map and comparison function
4. Supported YCbCr422(YUV422) image format
5. Speed up I2C speed by default
6. CRC check is added
7. Support outputting feature map in companion mode reference design
8. Added more kdp_app_library functions for flexibility

Changes

1. The threshold value of face recognition is normalized to range 0-1
2. DDR allocate function is renamed to kdp_ddr_reserve() from kdp_ddr_malloc()
3. Changed compiler standard from C++11 to C++98
4. USB VID is changed to 0x3231
5. Command index changed in host_mode reference design

Bug Fixes

1. Removed model size restriction from image bin utilities
2. Fixed issue that no response when doing inference after registration in certain situations
3. Fixed issue that failure on register operation right after boot
4. Fixed issue that kdp_verify_lw3d_image_generic() wrongly returns errors
5. Fixed issue that host library API function returns differently with different output settings
6. Fixed issue that kdp_verify_lw3d_image_all_res() returns differently due to fr_flag
7. Fixed issue that registration always fails right after delete all in host-mode reference design
8. Fixed issue that DB gets polluted after DME operations.
9. Fixed issue that kdp_verify_lw3D_image_all_res() wrongly output all result as 0

Anomalies

1. #4343 auto-register, two different persons will be mismatched
2. #4257 inference error when register/inference with image of same person in certain case
3. #3649 wrong FD result (limitation for multiple faces)

4. #3286 liveness distance is strictly limited

Release Date

2019/12/03