



AN02010: XMOS Face Recognition Application Note (README)

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vendor

XMOS

version

0.1.0

scope

Example

description

Face Recognition on XCORE.AI Reference

category

Vision

keywords

Camera, AI, MIPI, Vision

hardware

XK-EVK-XU316-AIV

1 Overview

This application note demonstrates a face recognition solution on the Vision Board. The solution uses a MIPI camera interface to capture images, and the XMOS AI tools to run a two-stage model on the XMOS device that can identify faces within a database. The identified faces are sent through both terminal and UART interface to a host device.

2 Key Features

- MIPI camera interface
- XMOS AI tools
- Face Detection
- Face Recognition
- Shared Arena
- UART interface

3 Known Issues

- None

4 Required Tools

- XTC tools: 15.3.0 [XTC tools](#).
- Python: 3.10 or later [Python](#).
- CMake: 3.21 or later [CMake](#).

5 Required Libraries (Dependencies)

- `lib_camera` (www.github.com/xmos/lib_camera)
- `xmos_ai_tools` (www.github.com/xmos/ai_tools)

6 Related Notes

- AN02017

7 Support

For all support issues please visit [XMOS Support](#).



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