DEPTH ai

MULTI-PLATFORM DEPTHAI

USB3 Interface with Modular Cameras

This USB3 variant of DepthAI allows the power of the Myriad X VPU to be fully harnessed and used with the platform of your choice. Modular cameras allow custom stereo baselines and easy custom-platform integration.

DepthAI can be used with your favorite operating system and platform, including the Jetson Nano, Google Edge TPU Coral, and popular Raspberry Pi competitors (and the Raspberry Pi itself).
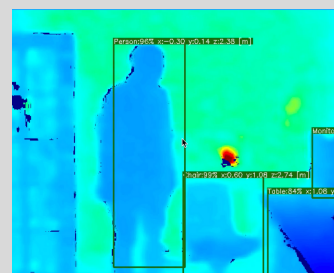
DepthAI is compatible with any operating system that supports OpenVINO, including:
 - Linux: Ubuntu - Yocto Project - CentOS - Raspbian
 - Mac OS X
 - Windows 10

DepthAI can also be customized to run with non-OS micro-controllers or even host-free (e.g. direct peripheral drive). Contact support@luxonis.com for no-host or non-OS host customization.

EMBEDDED DEPTH + AI PERCEPTION

Real-time object detection and localization in 3D space

DEPTH ai

RASPBERRY PI HAT

HARDWARE FEATURES

Modular Cameras:
- 2x 720P, 120Hz global shutter mono camera for high-quality, high-speed 3D perception

- 1x 12MP, 4K, 60Hz color camera for excellent color representation and digital zoom

- USB3 interface supports up 4K 60Hz video

- Host CPU available for your code - the Myriad X handles all the visual processing and AI

- Passively cooled

DepthAI Module

Left Camera Port

Myriad X GPIO Access

USB3C

Color Camera Port

Right Camera Port

720P, 120Hz Video
Synchronized Global Shutter
Excellent Low-Light

1280 Pixel
83° DFOV
720 Pixel
Lens Size: 1/2.3 inch
Focus: 19.6cm - ∞
F-number: 2.2

Same dimensions, mounting holes, and camera center as Raspberry Pi Camera v2.1

4K, 60Hz Video
12MP Stills

4056 Pixel
81° DFOV
3040 Pixel
Lens Size: 1/2.3 inch
AutoFocus: 8cm - ∞
F-number: 2.0

Same dimensions, mounting holes, and camera center as Raspberry Pi Camera v2.1