VHub AI Developer
A Smart & Speedy AI Enabler for multiple Training Platforms and Accelerate Solutions
With the prosperity of AI-Vision solution, related applications have deployed in various verticals. To accelerate the speed of entering a new market and deduct the initial development expense has become one of the essential tasks for everyone. Vecow’s VHub AI Developer includes pre-trained model SDK and labeling tool which support multiple Training Platforms and Accelerate Solutions. By delivering an one-stop hardware and software solution, Vecow benefits a speedy and flexible AI Enabler with lower total cost of ownership for your public surveillance, smart retailing, access control, machine vision and any AIoT applications.
Machine Vision

To maximize efficiency and accuracy plays a vital role in the defect detection process. With pre-installed inspection SDK and the support of both VPU and GPU accelerate engines, assist the solution to reach higher accuracy to classify defected part with the minor cost.

Smart Retail

Customer’s characteristics are vital information to manage a retail store. With pre-installed feature recognition SDK, the solution can easily achieve the function of gender classification, age segmentation, people count, and in-store behavior that help increase the business profitability.
Access Control

The purpose of access control is to grant entrance for those who are authorized to be in the building or office. With pre-installed facial recognition SDK, the data will be recorded in a vision library to provide a quick and convenient access experience.

Smart Parking

Vehicles on the road are promptly outpacing the supply of available parking spaces. With pre-installed LPR SDK, the solution can recognize the license plate in a wide range angle and record the vacancy space that enhances the utilization rate.
Vecow’s AI developer adopts datasets from a variety of sources, videos, and pictures as training materials. With the labeling tool and model training platform inside, customers can develop any AI applications with a deep learning computing engine.

AI developer also provides additional SDKs for customers to accelerate the development process with little integration effort as well as solution deployment to various verticals. In the era of AI-Vision world, Vecow AI Developer aims to become a robust foundation for your future artificial intelligent roadmap.

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<th>Object Detection / Facial Recognition / Object Tracking / Action Detection</th>
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**Input Materials**
Object / Character / Face / Motion

**Software**

**Diagram**

Time-to-Market
VHub Ready Inference Solution

**VHub AI Developer**
- Deep Learning
- Model Training
- Labeling Tool

**Accelerate Engine**
- Movidius VPU
- GPU

**Pre-trained Model SDK**
- Facial Recognition
- Object Detection
- Sign Recognition
- LPR
- OCR/OCV
**AI Ready Inference Systems**

**Starter Kit**

**VHD NUC Series**
- OpenVINO computing engine inside
- Intel® Core™ i7-8559U Compact System
- DDR4 SSD 240G with 4G DDR4 RAM
- 3 USB 3.1
- 12V to 19V DC-in

**Deployment Kit**

**VHD ECX-1000 PoER Series**
- OpenVINO computing engine inside
- 9th Gen Intel® Core™ i7/i5 processor
- 256G SSD with 8G DDR4 RAM
- 6GigE LAN with 4 POE+
- 6V to 36V DC-in

**Development Kit**

**VHD ECX-1400 PEG Series**
- OpenVINO / GPU computing engine inside
- 9th Gen Intel® Core™ i7/i5 processor
- 2 PCIE expansion slots support VPU GPUs
- 256G SSD with 16G DDR4 RAM
- 6GigE LAN with 4 POE+
- 12V to 36V DC-in

**Titan Kit**

**VHD RCX-1520R PEG Series**
- OpenVINO / GPU computing engine inside
- 9th Gen Intel® Core™ i7/i5 processor
- 2 PCIE expansion slots support VPU GPUs
- 256G SSD with 16G DDR4 RAM
- 6V to 36V DC-in

**Optional Purchase**

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