

KIT0179-EN Study Pack of HUSKYLENS for micro:bit

Product Overview

01-02-2023

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

The KIT0179-EN Study Pack of HUSKYLENS for micro:bit from DFRobot is an HuskyLens extension kit based on micro:bit programming. This study pack is suitable for students aged 8-19. Centered around AI image recognition, the study pack has seven external modules and 28 cards that apply to teaching scenarios.



Focusing on computer science, the tutorial provided for the DFRobot KIT0179-EN aims to help students learn knowledge related to AI image recognition enjoyably and engagingly. In the tutorial, the user will explore how the image recognition technology is applied to real-life projects like face unlocking, AI camera, pet feeding, self-service charging, scanning code payment, target tracking, etc. And each project comes with corresponding teaching cards to help them get started quickly. The HUSKYLENS and micro:bit board are not included and must be purchased separately.

Features

- A variety of tutorial cases, 25 fun projects in 12 lessons
- 28 teaching cards help the user quickly learn the AI image recognition function
- Cards: people, colors, objects, barcodes, labels, QR codes, and object tracking

Kit Overview



- 25 fun projects
- 12 lessons
- 28 teaching cards

Kit Contents

- 1x IO Extender for micro:bit
- 1x Gravity: Vibration motor module for Arduino
- 1x Gravity: Voice recorder module
- 1x Stereo enclosed speaker-3W 8Ω
- 1x 9g 180° micro servo (1.6kg)
- 1x Bistable LED Switch - Blue
- 1x RGB Full Color LED strip
- 2x Micro USB Cable
- 4x Gravity: Digital sensor cable for Arduino
- 1x Gravity: 4Pin I²C/UART sensor cable
- 5x Face card
- 7x Color card
- 4x Object card
- 3x Barcode card
- 3x QR code card
- 3x Object tracking card
- 3x Label card
- 1x Plastic round snap ring

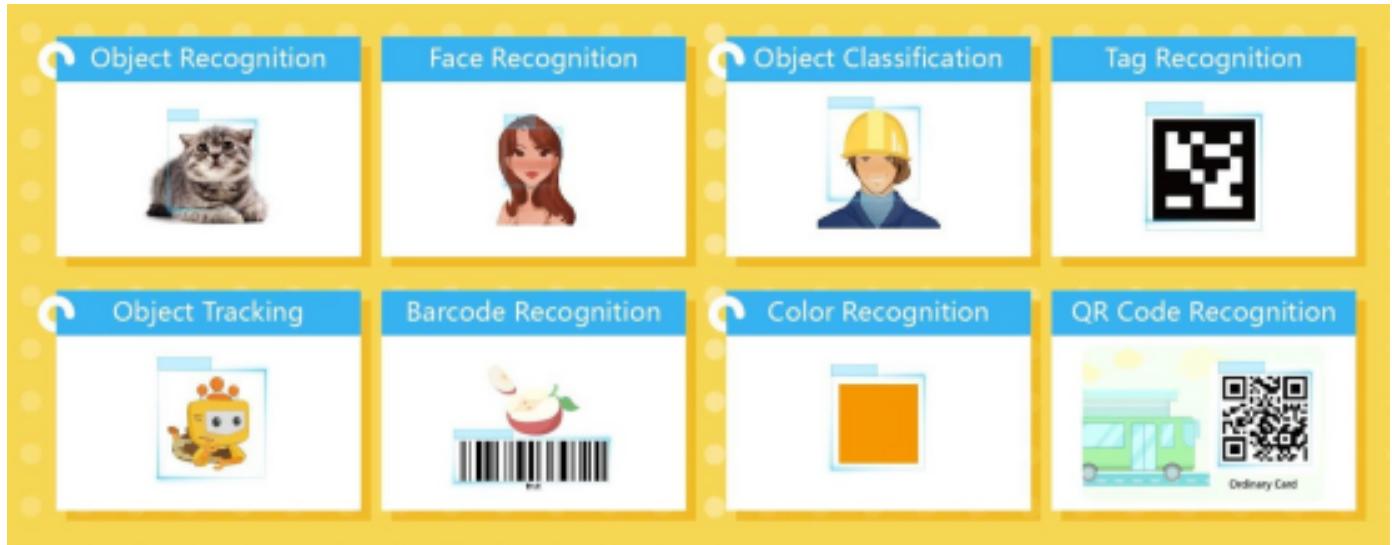


Training Modules

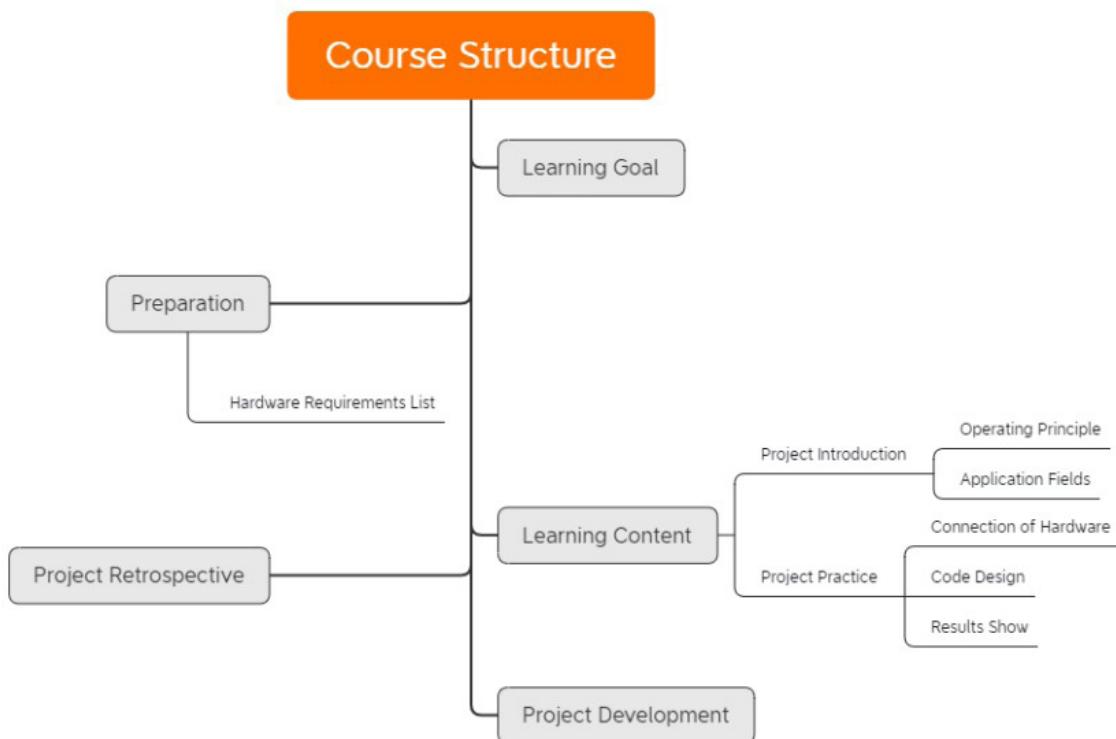
- **Music Magic Mirror**
 - Project 1 Distinguish human faces
 - Project 2 Add music
- **Face Recognition Access Control**
 - Project 1 Multiple face discrimination
 - Project 2 Smart access control
- **Colorful Piano**
 - Project 1 Distinguish multiple colors
 - Project 2 Define notes
- **Vending Machine for Cats And Dogs**
 - Project 1 Distinguish between cats and dogs
 - Project 2 Add the function of sending grain
- **Object Tracker**
 - Project 1 Object tracking and coordinate value function
 - Project 2 Vibration feedback prompt
- **Self-service Cashier**
 - Project 1 Commodity price display
 - Project 2 Commodity settlement
- **Energy Harvest**
 - Project 1 Generate energy value
 - Project 2 Energy Synthesis
- **Smart Bus Ticketing Machine**
 - Project 1 Pay by card
 - Project 2 Voice prompt “Payment successful”
- **Safety Helmet Reminder**
 - Project 1 Shows whether or not a helmet is worn
 - Project 2 Safety helmet reminder device
- **Encryption and Decryption**
 - Project 1 Character encryption
 - Project 2 Decrypt
- **HuskyLens AI Camera**
 - Project 1 Touch-controlled camera
 - Project 2 Voice-activated camera
 - Project 3 Time-lapse photography
- **Emergency Lane Watchdog**
 - Project 1 Taking pictures of vehicles
 - Project 2 Alarm reminder



Training Cards



Course Structure



Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.com/new/dfrobot/dfrobot-kit0179-en-study-pack-huskylens/>

The information contained in this document should be used as a guideline only.