Manual

ESP32-CAM-MB MICRO USB ESP32 Serial to WiFi ESP32 CAM Development Board CH340 CH340G 5V Bluetooth+OV2640 Camera+2.4G Antenna IPX



1. Arduino development environment construction

- (1) Download the Arduino IDE on the Arduino official website
- (2) Click "I agree", click Next

Arduino Setup: License A Please review the license	Agreement agreement before	installing Ard	uino. If you	×
SNU LESSER GENERAL PUBLIC L	greement, dick I Ag ICENSE	pree.		^
Copyright (C) 2007 Free Softwa	re Foundation, Inc	. < <u>http://fsf.c</u>	orq/>	
This version of the GNU Lesser (and conditions of version 3 of the by the additional permissions list	allowed. General Public Licen e GNU General Pub ed below.	se incorporate lic License, su	es the term pplemented	s d V
Cancel Nullsoft Insta	ll System v3.0		I Agr	ree 🚺
Arduino Setup: Installatio Check the components y you don't want to install.	on Options ou want to install a Click Next to conti	nd uncheck th nue.	e compone	×
Select components to install:	Install Ardu	no software driver t Menu shorto ktop shortout no files	ut	
Space required: 420.6MB				
Cancel Nullsoft Insta	ll System v3.0	< Back	Next	t > 1

(3) The default is to install on the c drive, you can click Browse to change the installation location.

Setup will install Arduino in the following folder. To install in a different folder, dick Browse and select another folder. Click Install to start the installation. Destination Folder C: \Program Files (x86)\Arduino Space required: 420.6MB Enace available: 129.0CB	Arduino Setup: Installation Folder	2 7 14		Х
Destination Folder	Setup will install Arduino in the following f folder, dick Browse and select another fo installation.	older. To install i Ider. Click Install	n a differen to start the	e
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Space required: 420.6MB	C:\Program Files (x86)\Arduino		Browse	
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	Space available: 138.0GB	1	1	

(4) Here I installed it in the arduino folder of drive d (remember this installation path)

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Destination Fr	lder		Browse
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Cancel	Nullsoft Install System v3.0	< Back	Install

(5) Wait for the installation to complete, open the hardware under the installation path

函 〉 data (D:) 〉 arduino			~	Ö	ırdı
名称	修改日期	类型	大小		
drivers	2020/11/6 14:20	文件夹			
examples	2020/11/6 14:20	文件夹			
🤰 hardware	2020/11/6 14:20	文件夹	1		
📜 java	2020/11/6 14:20	文件夹			
📕 lib	2020/11/6 14:20	文件夹			
📜 libraries	2020/11/6 14:20	文件夹			
I reference	2020/11/6 14:20	文件夹			
📜 tools	2020/11/6 14:20	文件夹			
📒 tools-builder	2020/11/6 14:20	文件夹			
🥯 arduino.exe	2017/8/18 22:55	应用程序	395 KB		
🚮 arduino.l4j.ini	2017/8/18 22:55	配置设置	1 KB		
🥯 arduino_debug.exe	2017/8/18 22:55	应用程序	393 KB		
🚮 arduino_debug.l4j.ini	2017/8/18 22:55	配置设置	1 KB		
arduino-1.8.4-windows.exe	2020/8/26 14:24	应用程序	92,546 KB		
📧 arduino-builder.exe	2017/8/18 22:55	应用程序	3,214 KB		
🗟 libusb0.dll	2017/8/18 22:55	应用程序扩展	43 KB		
msvcp100.dll	2017/8/18 22:55	应用程序扩展	412 KB		
🗟 msvcr100.dll	2017/8/18 22:55	应用程序扩展	753 KB		
📔 revisions.txt	2017/8/18 22:55	TXT 文件	84 KB		
🧕 uninstall.exe	2020/11/6 14:20	应用程序	404 KB		
wrapper-manifest.xml	2017/8/18 22:55	XML 文档	1 KB		

(6) Unzip the file "espressif"After the download is complete, unzip it to the hardware directory

名称	修改日期	类型	大小	
arduino	2020/11/6 14:43	文件夹		
📕 espressif	2020/11/6 14:44	文件夹		
l tools	2020/11/6 14:43	文件夹		
<pre> package_index_bundled.json </pre>	2017/8/18 22:55	JSON File	9 KB	
platform.keys.rewrite.txt	2017/8/18 22:55	TXT 文件	8 KB	
platform.txt	2017/8/18 22:55	TXT 文件	1 KB	

(7) Open ArduinoIDE and select the corresponding development board



At this point, the Arduino IDE development platform is set up. Here is how to use the example

2. ESP-CAM video stream and photo examples

(1) Open Camera file

(2) After the download is complete, enter the "Camera" directory and double-click to open "Camera.ino"

Can	nera	~	Ü	○ 搜索	"Camera"	
	名称 ^	修改日期	类	型	大小	
	app_httpd.cpp	2021/1/15 18:23	C+	+ Source	27 KB	
<u>_</u>	💿 Camera.ino 🔪	2021/1/15 18:24	Ar	duino file	3 KB	
Ħ	📔 camera_index.h	2020/12/15 19:13	H	文件	52 KB	
A A	📔 camera_pins.h	2021/1/15 15:40	H	文件	1 KB	
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(3) Select the development board, select the port, upload the code



(4) ******Open the serial port, select the baud rate 115200, reset the development board, and check the serial port output**



(5) Visit the video streaming server

You can turn on the WIFI of your mobile phone and connect to "ESP-xx:xx:xx:xx:xx:xx:xx" (each development board has a different suffix). Open the browser and type the 192.168.4.1 address. Press the Start Streaming button to start video streaming. Press Get Still to take a photo, the photo is stored in the SD card, and the photo is named randomly

GR	▲ 192.168.4.1	0	٦
Contrast	-2	- 2	
Saturation	-2	2	
Special Effect	No Effect		
AWB			
AWB Gain			
WB Mode	Auto		
AEC SENSOR			
AEC DSP			
AE Level	-2	2	
AGC			
Gain Ceiling	2x 🛑 ———	— 128x	
BPC			
WPC			
Raw GMA			
Lens Correction			
H-Mirror			
V-Flip			
DCW (Downsize	EN) 🦲		
Color Bar		2	
Face Detection			
Face Recognition			
Get Still S	tart Stream Enro	II Face	

