

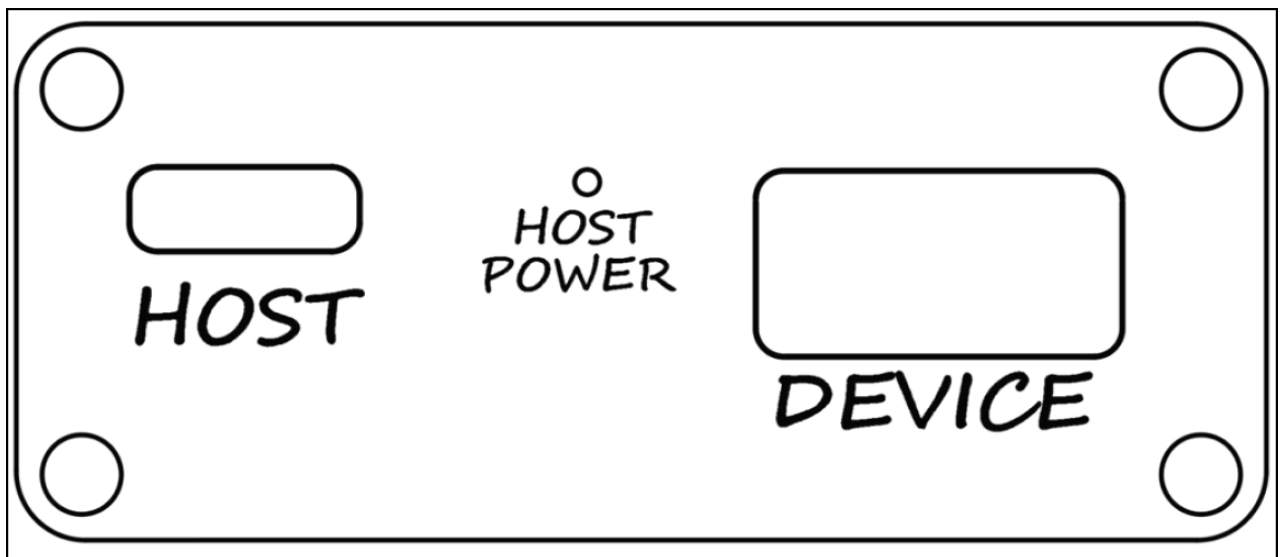
USB Sniffer

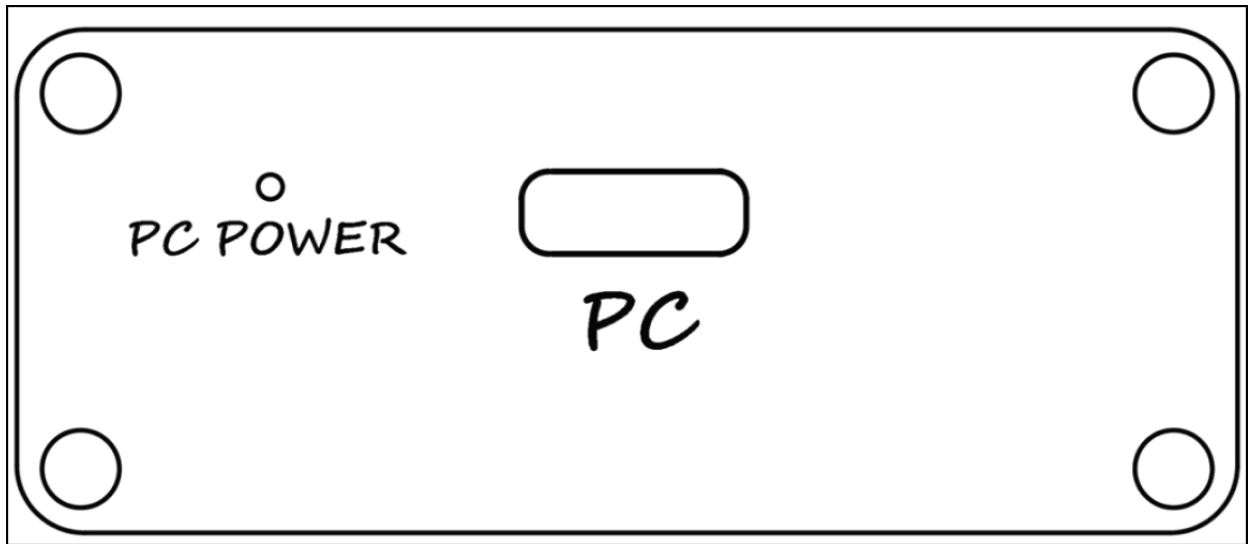
Download this manual and other resources for this USB sniffer from

<https://roobjax.com/RJT835>

Device Overview

- **HOST:** The device (such as a computer or other equipment with a USB-A port) that connects to the device under test.
- **DEVICE:** The peripheral being tested, such as a USB flash drive, sound card, or camera.
- **HOST POWER:** Indicator light showing the power status of the HOST port.
- **PC:** A computer capable of running the latest version of Wireshark (version 4.0 or above).
- **PC POWER:** Indicator light showing the power status of the PC port.





1-Download wire sire

<https://www.wireshark.org/download.html>



监视端 P C



被监视的 U S B 设备



被监视的 U S B 主机



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Download Wireshark

The current stable release of Wireshark is 4.2.0. It supersedes all previous releases. You can also download the latest development release (4.2.0) and documentation.

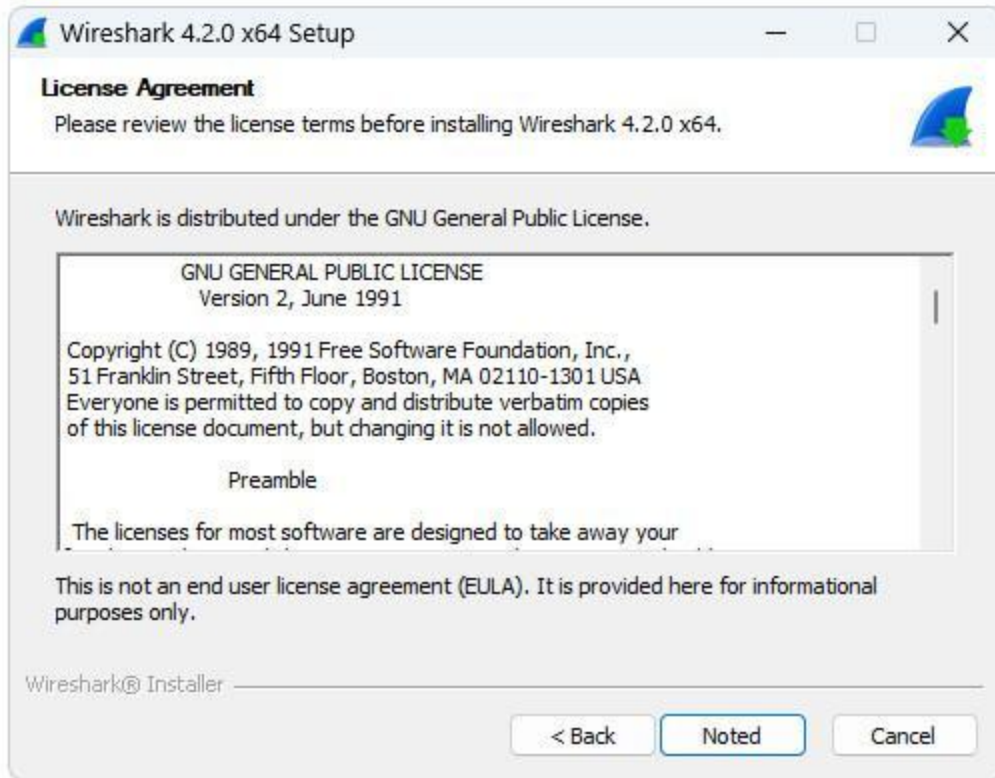
▼ Stable Release: 4.2.0

-  [Windows x64 Installer](#)
-  [Windows Arm64 Installer](#)
-  [Windows x64 PortableApps®](#)
-  [macOS Arm Disk Image](#)
-  [macOS Intel Disk Image](#)
-  [Source Code](#)

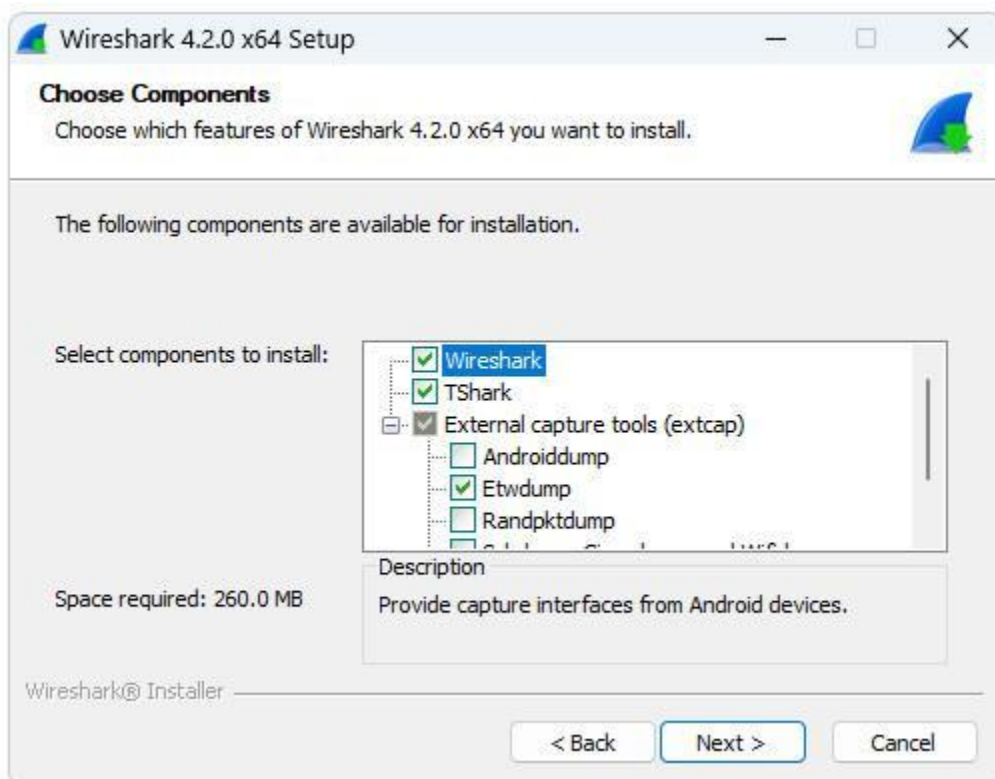
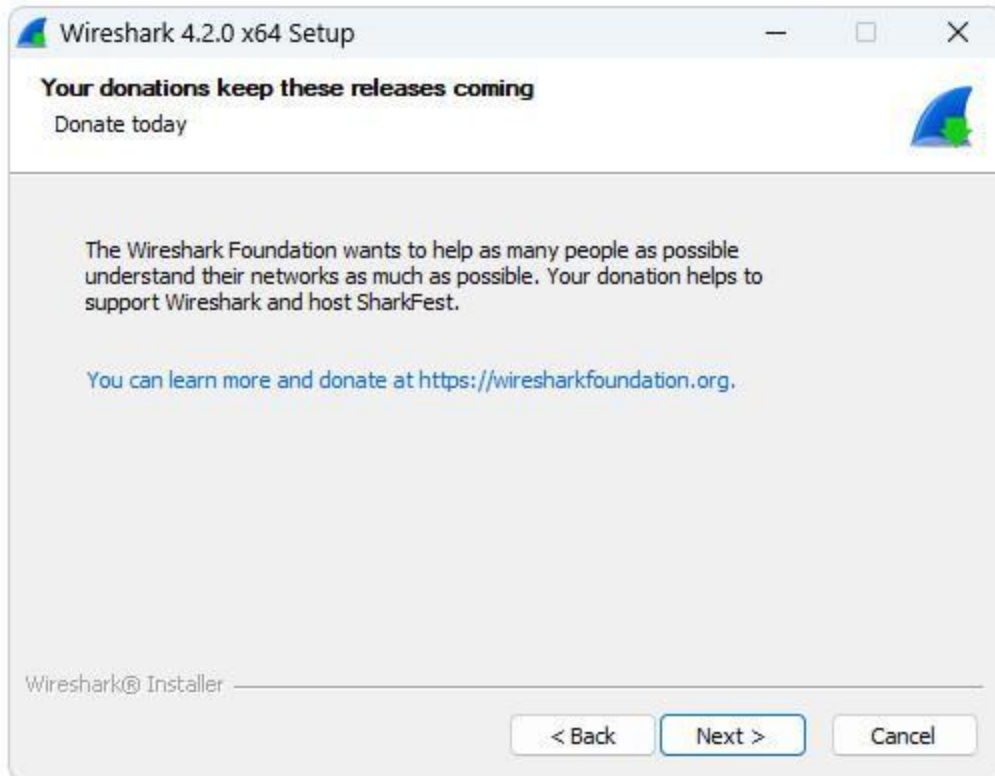
► Old Stable Release: 4.0.11

► Documentation

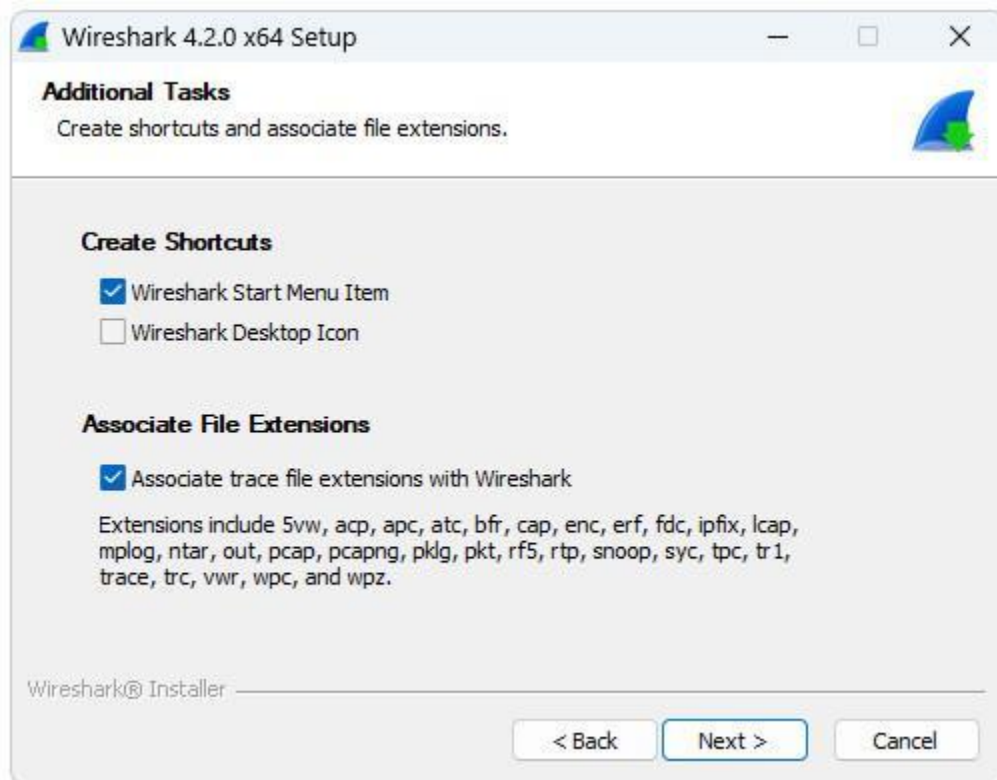


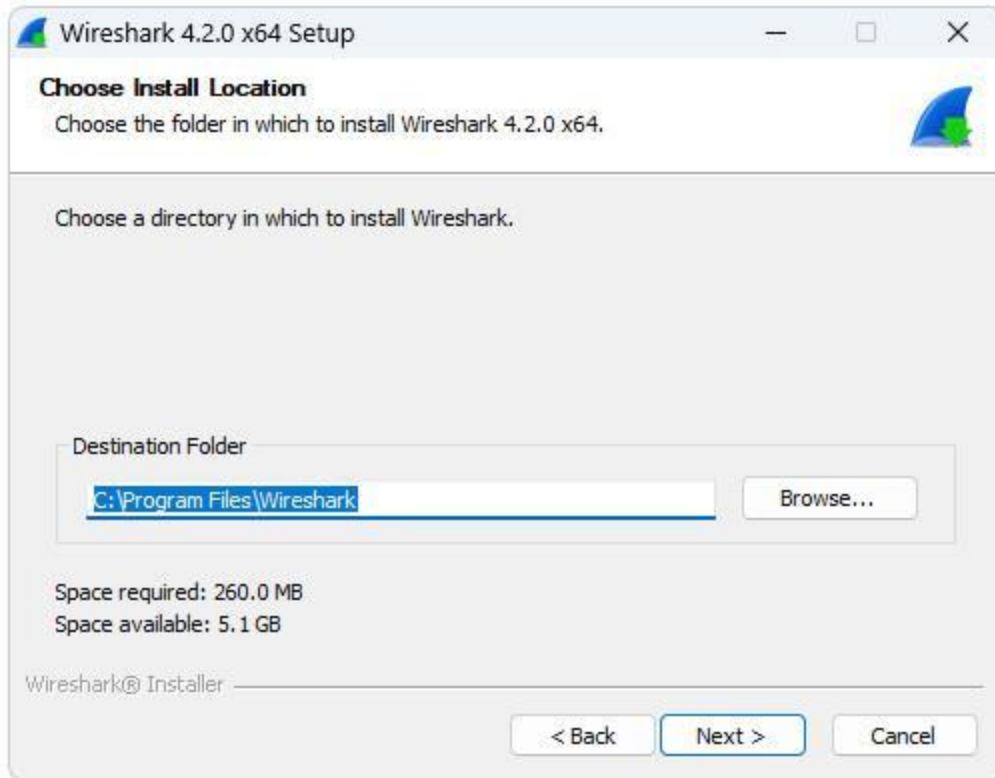


默认



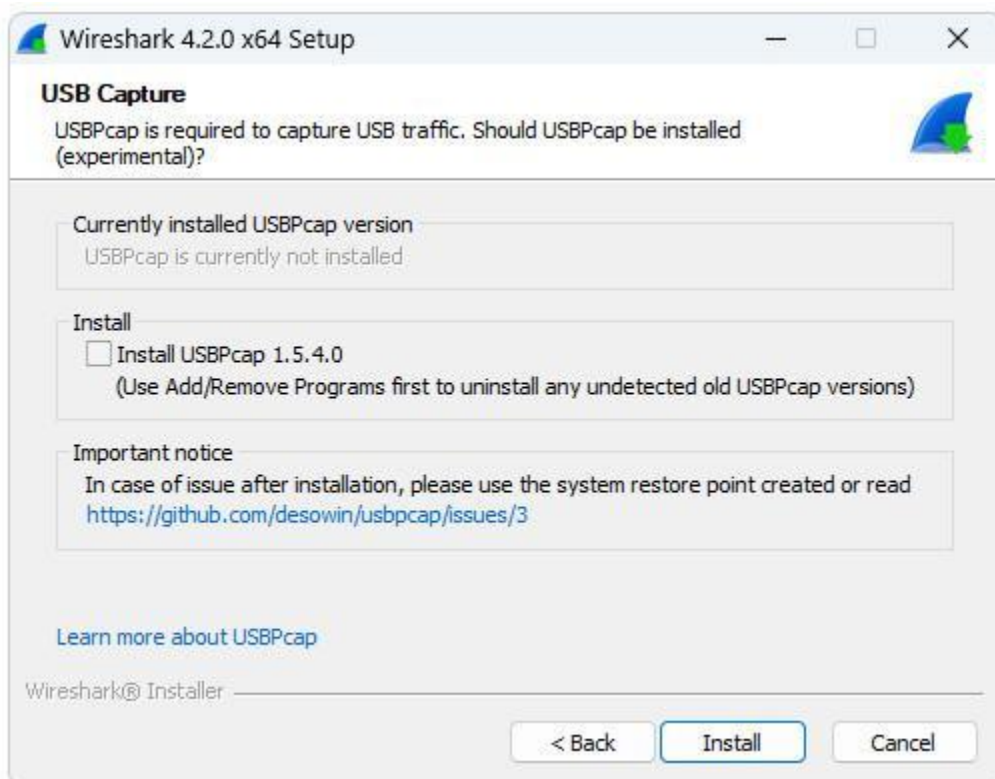
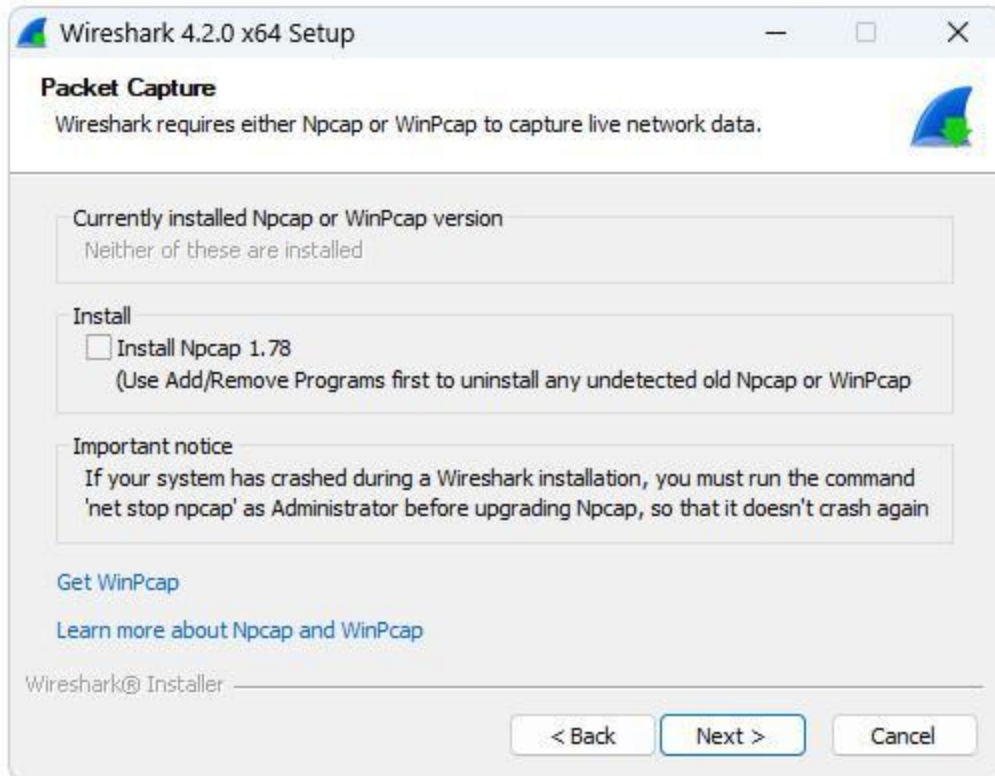
默认安装到 C 盘,少填坑

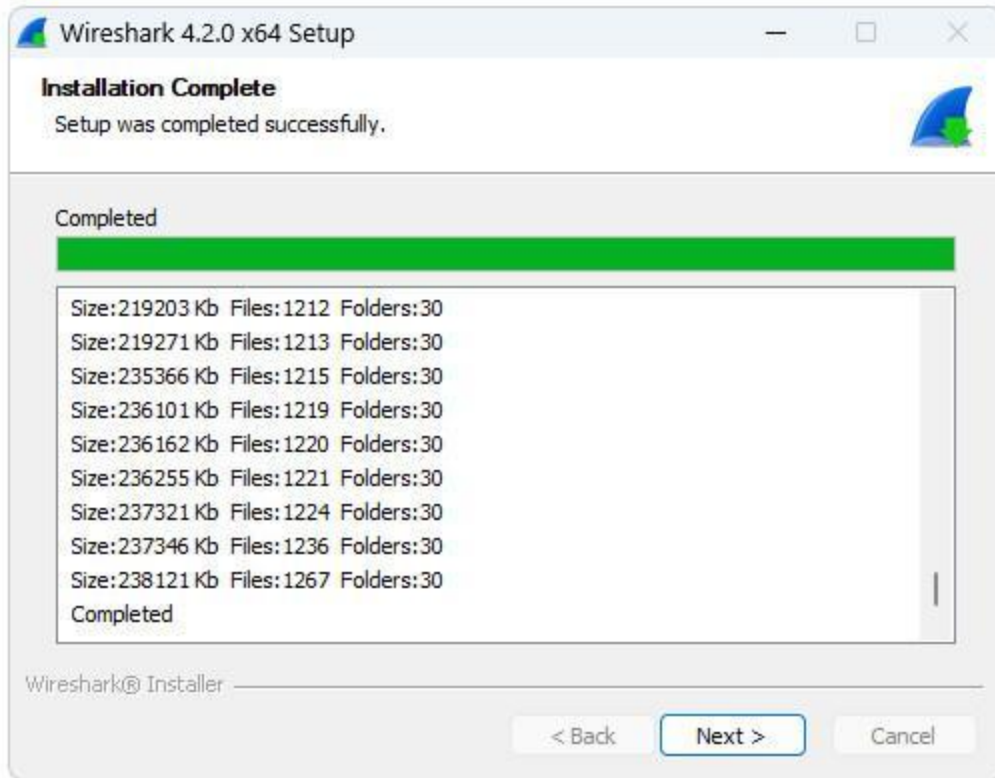




不抓网络包的话可以不选 Npcap

我们不使用 usb 软抓包,因为我们已经有硬件抓包了.





2. Download usb_sniffer_win.exe from the provided Baidu Netdisk link:

https://pan.baidu.com/s/1_dmDVuAgBiMa6X3yIg_NlQ?pwd=usbs

Copy usb_sniffer_win.exe to the directory:

C:\Program Files\Wireshark\extcap\usb_sniffer_win.exe

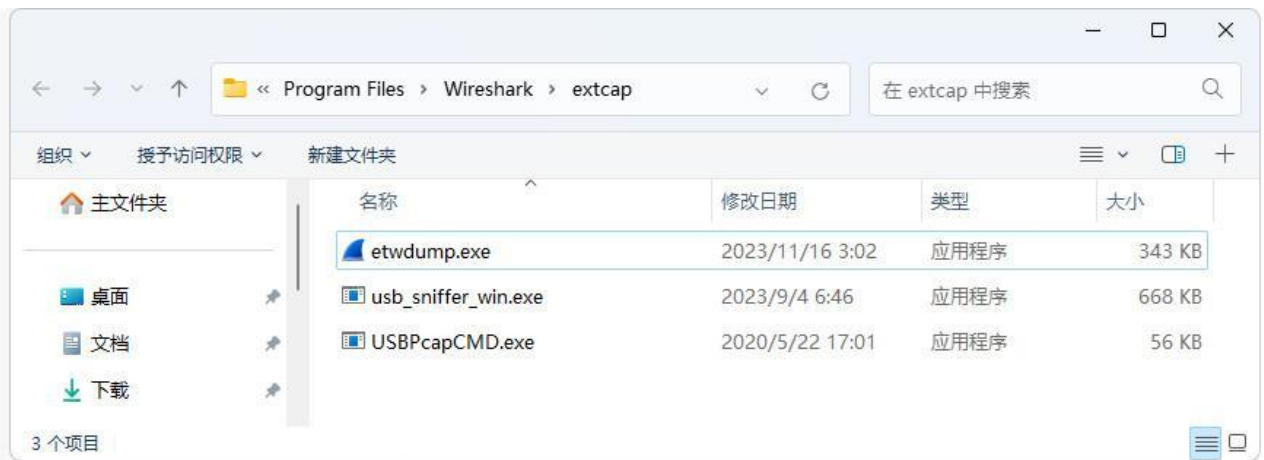
If the directory does not exist, **create it manually**.

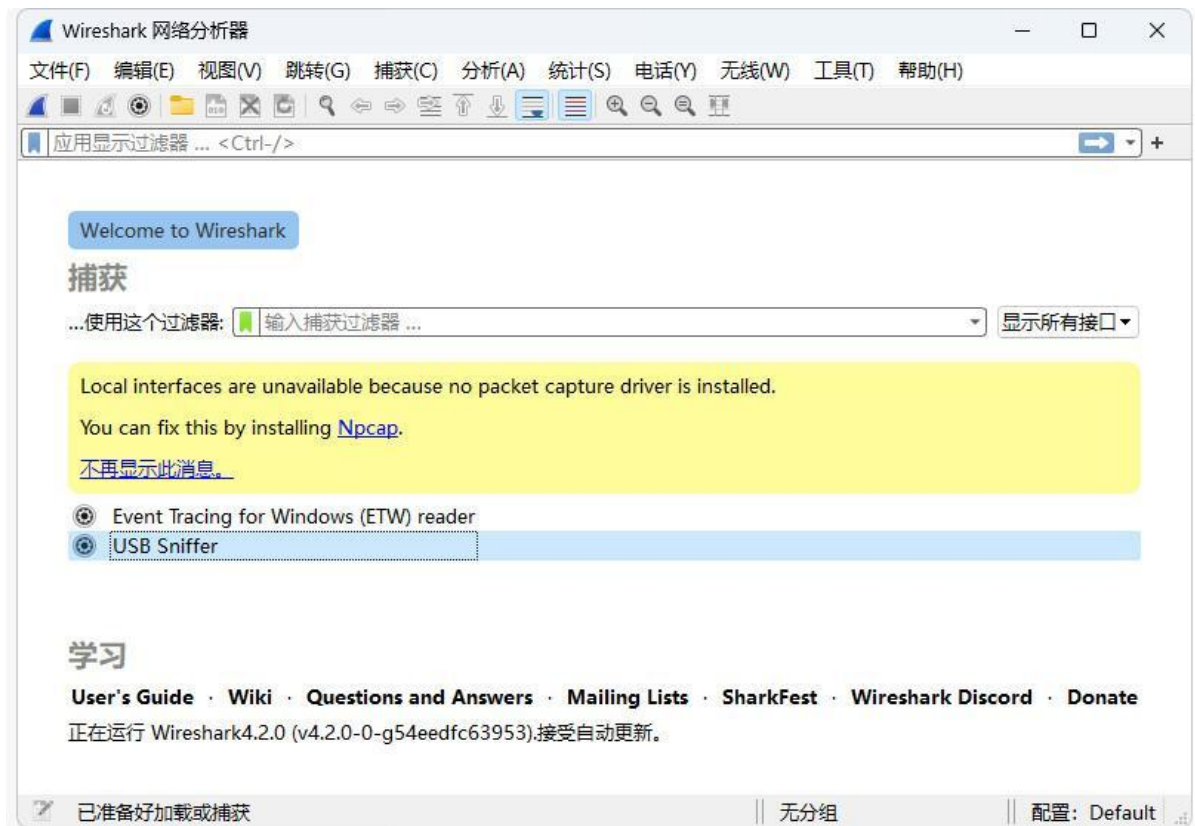
3. After copying, **open** Wireshark from the desktop icon.

Select the "USB Sniffer" option in the capture interface. Click the gear icon to configure the sniffer.

If you do not see "USB Sniffer, usb_sniffer_win.exe " ensure the plugin was copied to the correct directory.

Configure Capture Settings





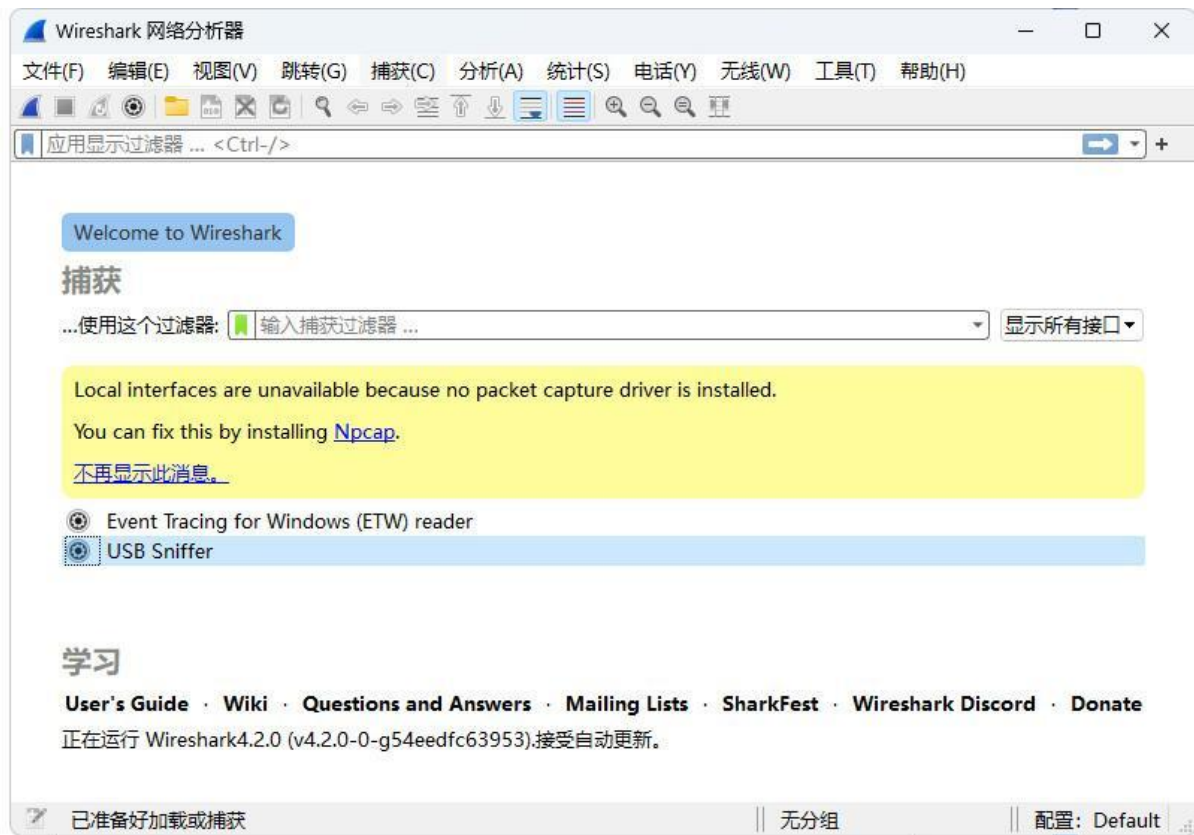
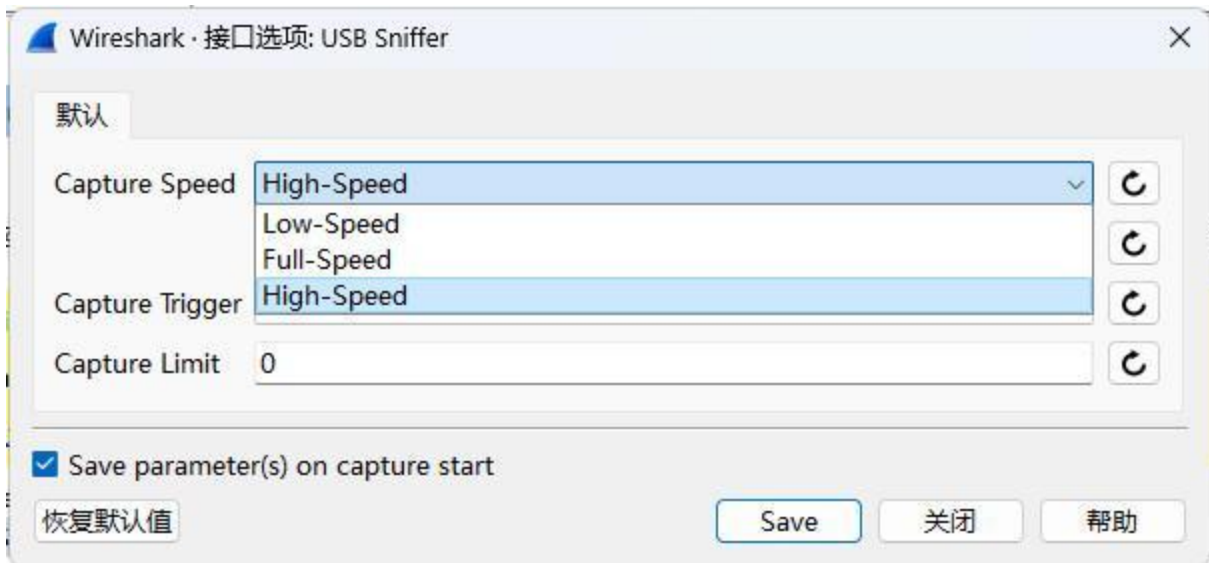
☐ Set the capture speed to "High-Speed" for most USB drives and cameras. For control devices like joysticks, keyboards, or USB serial devices, use "Full-Speed."

☐ Click "Save" to store your settings.

Connect Devices and Start Capture

☐ According to the first page's instructions, connect the PC and HOST interfaces. Do not connect the DEVICE interface yet—this is necessary to capture the enumeration process.

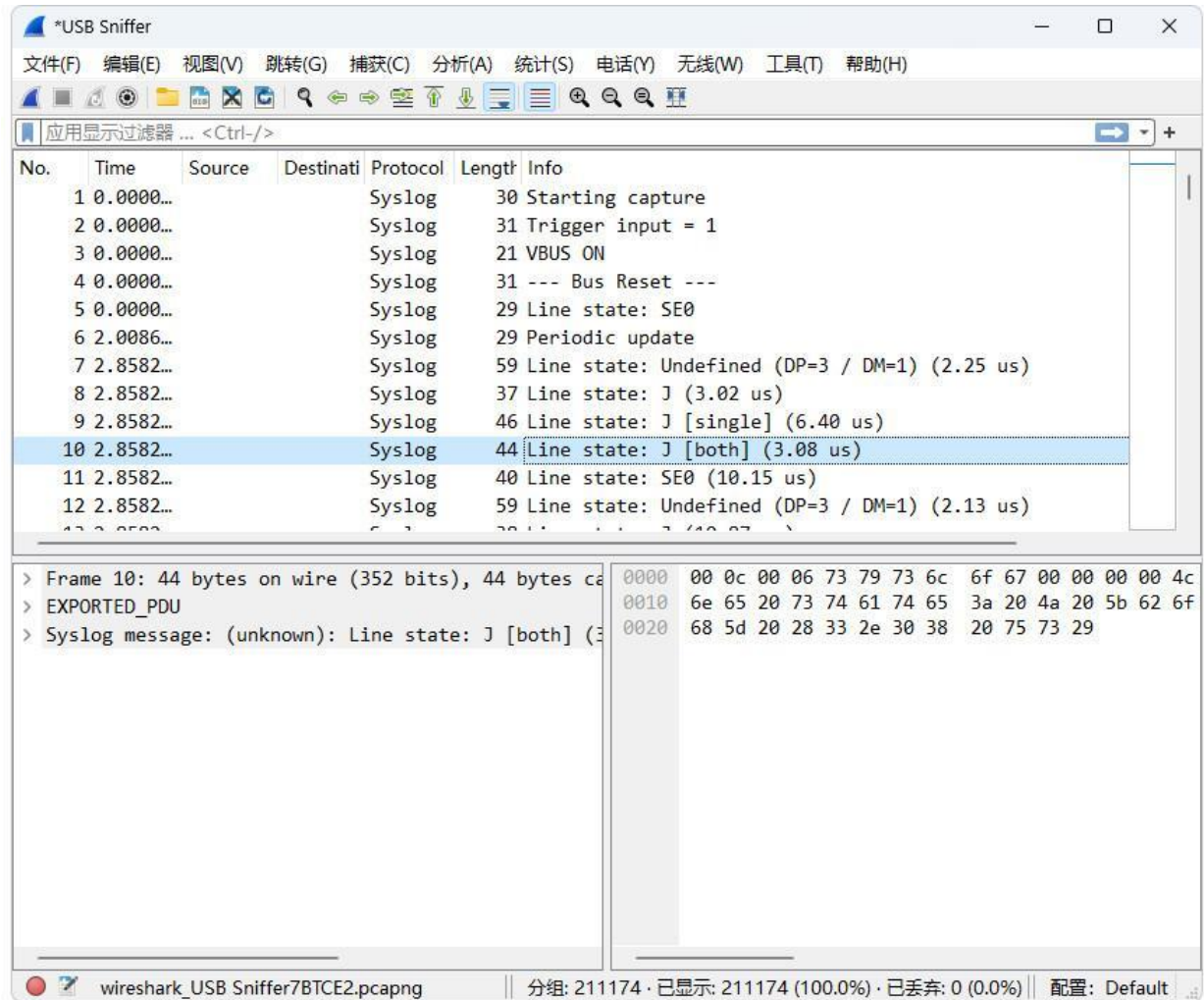
☐ Click the "Start" button to begin capturing. Then, insert the device (e.g., a USB flash drive) into the DEVICE port.



Capture and Filter USB Traffic

- If everything is set up correctly, you should capture the complete enumeration process, including SE0, J, and K states.

- In the filter box, enter "USB" to filter out broadcast SOF, USBLL, and syslog messages, making the enumeration process clearer.
- For more advanced filtering, users can experiment with additional keywords. Typing "usb." in the filter box will provide detailed filter suggestions.



*USB Sniffer

文件(F) 编辑(E) 视图(V) 跳转(G) 捕获(C) 分析(A) 统计(S) 电话(Y) 无线(W) 工具(T) 帮助(H)

usb

No.	Time	Source	Destination	Protocol	Length	Info
1...	3.1046...	host	0.0	USB	11	GET_DESCRIPTOR Request DEVICE
• 1...	3.1047...	0.0	host	USB	21	GET_DESCRIPTOR Response DEVICE
1...	3.1048...	host	0.0	USB	11	SET_ADDRESS Request
1...	3.1150...	host	8.0	USB	11	GET_DESCRIPTOR Request DEVICE
1...	3.1150...	8.0	host	USB	21	GET_DESCRIPTOR Response DEVICE
1...	3.1222...	host	8.0	USB	11	GET_DESCRIPTOR Request CONFIGURATION
1...	3.1223...	8.0	host	USB	35	GET_DESCRIPTOR Response CONFIGURATION
1...	3.1224...	host	8.0	USB	11	GET_DESCRIPTOR Request STRING
1...	3.1225...	8.0	host	USB	29	GET_DESCRIPTOR Response STRING
1...	3.1226...	host	8.0	USB	11	GET_DESCRIPTOR Request STRING
1...	3.1226...	8.0	host	USB	7	GET_DESCRIPTOR Response STRING
1...	3.1227...	host	8.0	USB	11	GET_DESCRIPTOR Request STRING
1...	3.1228...	8.0	host	USB	11	GET_DESCRIPTOR Response STRING

> Frame 1432: 11 bytes on wire (88 bits), 11 bytes captured (88 bits) on interface 0

> USB Link Layer

> USB URB

> Setup Data

0000 c3 80 06 00 01 00 00 40 00 dd 94

Frame (11 bytes)USB transfer (8 bytes)

USB: Protocol

|| 分组: 211174 · 已显示: 658 (0.3%) · 已丢弃: 0 (0.0%) || 配置: Default