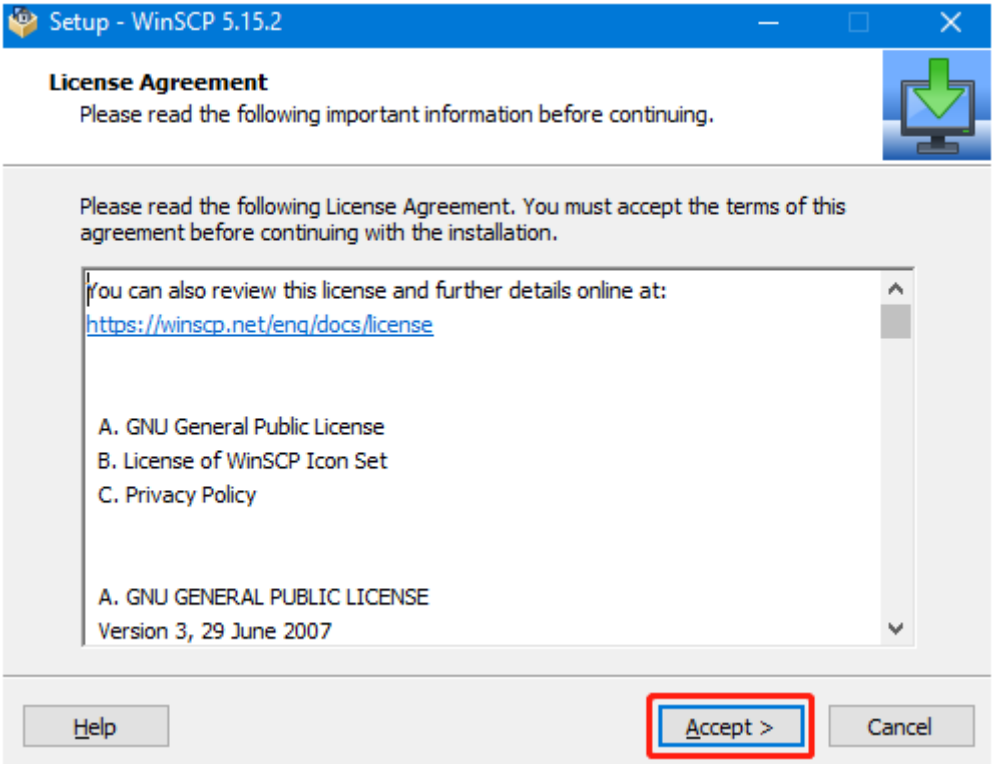
3. Remote file transfer

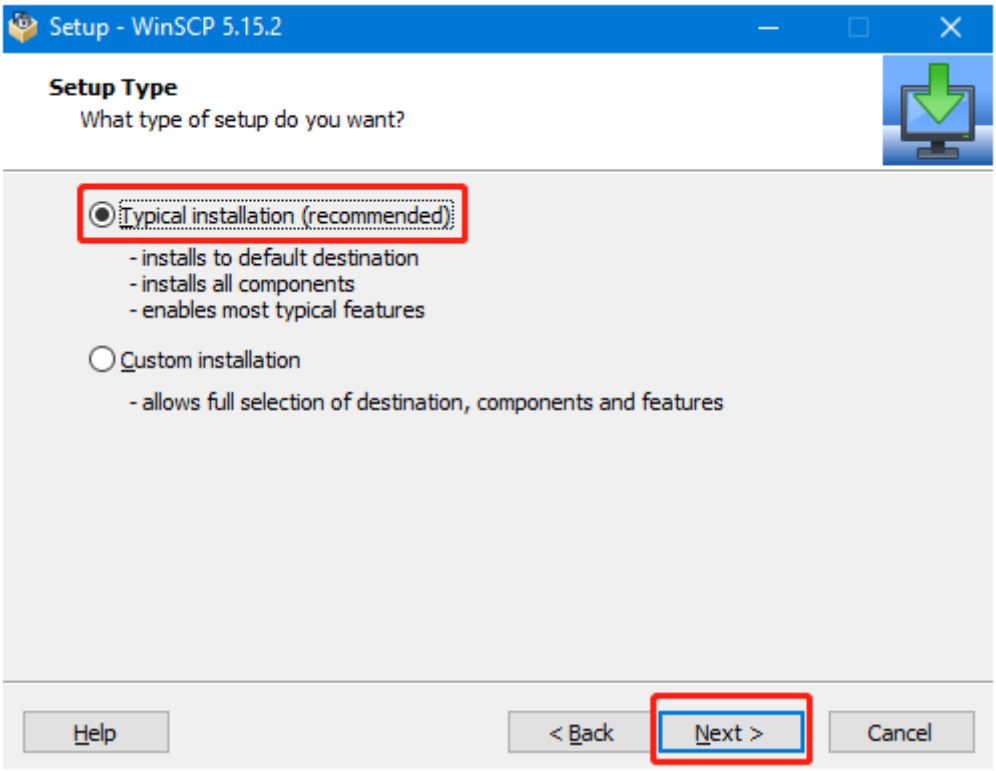
Sometimes we need to transfer files between two different systems, Windows and Raspberry Pi. Since these are two different file systems, the so-called ssh service needs to be used to transfer files across systems.

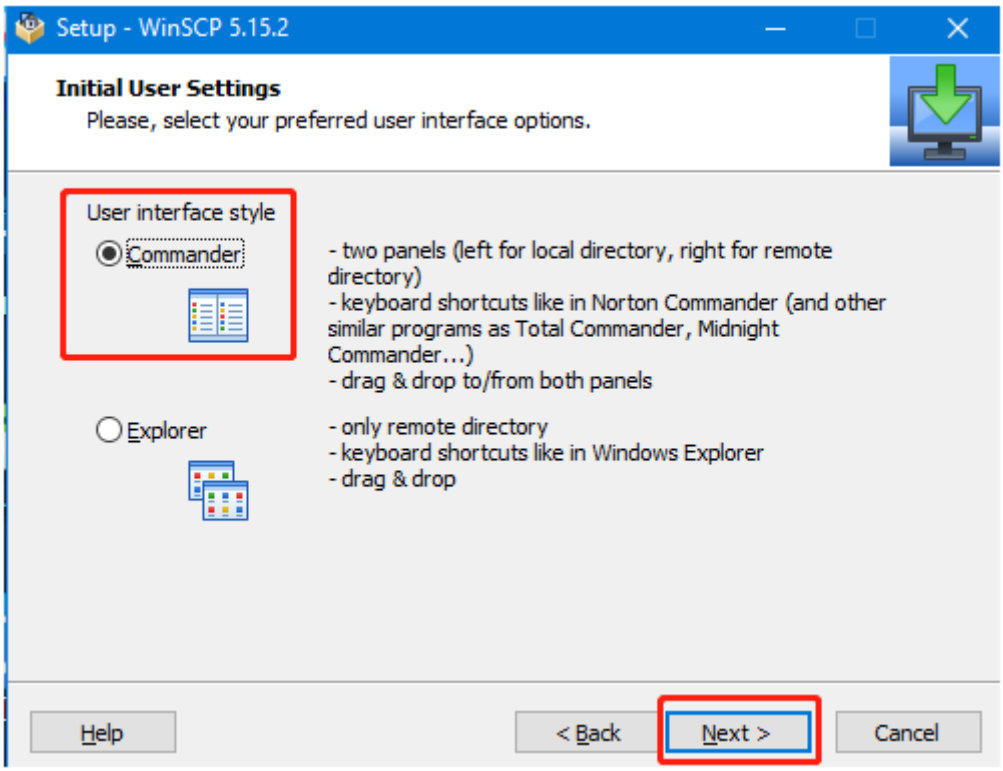
3.1 Install WinSCP

Go to the WinSCP official website to download the program:https://winscp.net/eng/download.php

Double-click to open the program and start the installation, click Accept to accept the agreement, and then follow the prompts to install.







Click Finish to complete the installation.

You can see that there is an additional WinSCP icon on the desktop. 

3.2 Get Raspberry Pi IP Address

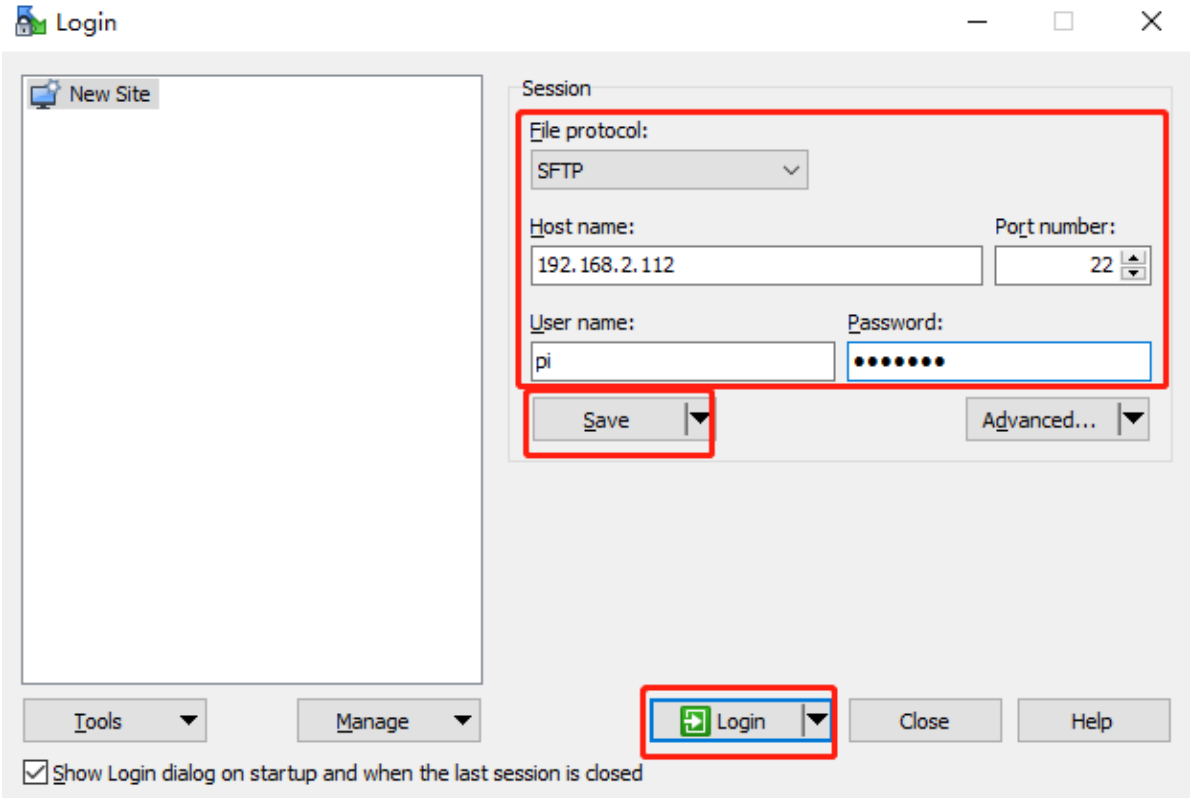
The OLED that comes with the factory image will display the IP address and other information when it is turned on. Check the last line of IPA to know the IP address. As shown in the figure below, the IP address is 192.168.2.112

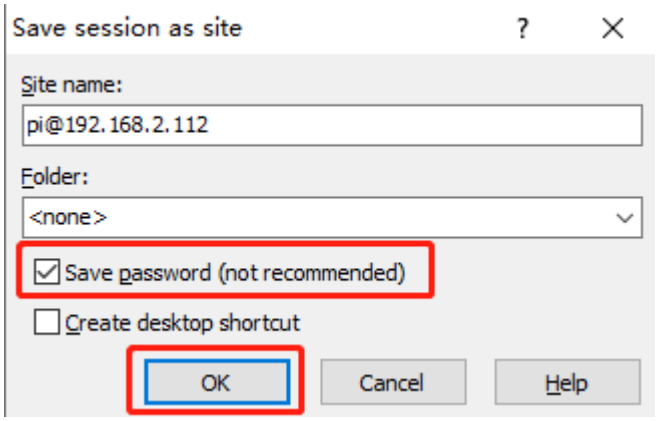
3.3 SSH remote file transfer

After opening the WinSCP software, the following login interface appears.

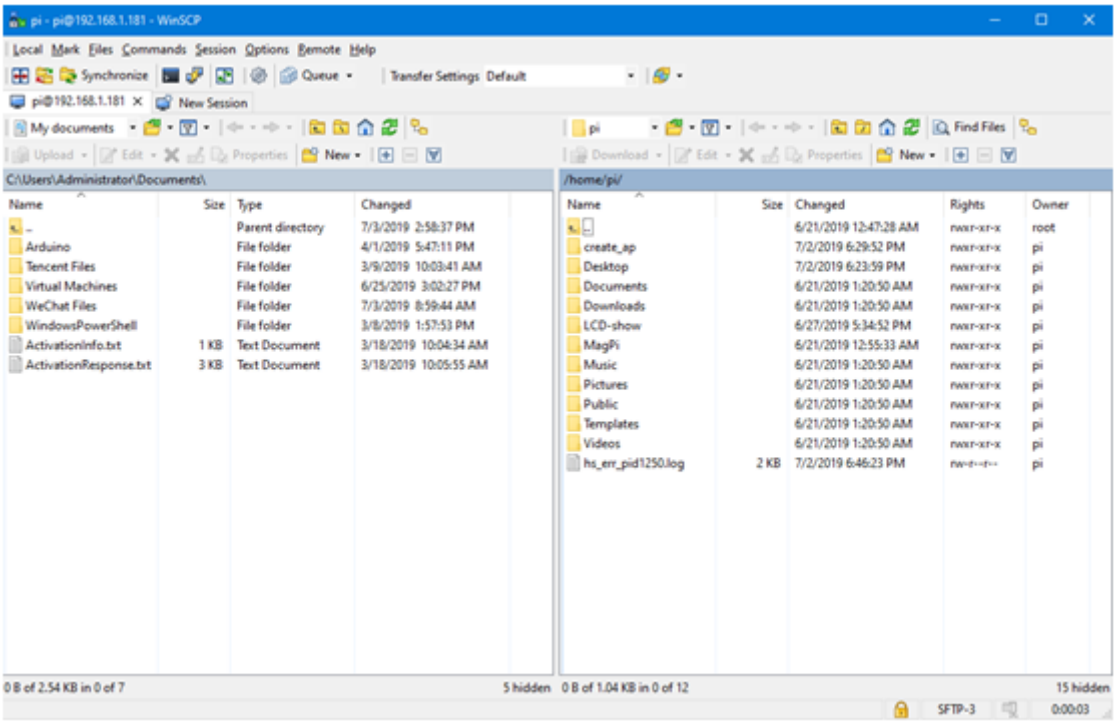
File protocol：Select SFTP for file protocol, Host name: IP address of Raspberry Pi, Port number: 22 by default, User name: username of Raspberry Pi (pi), Password: login password (yahboom).

After entering the correct information, you can click Save to save the filled information, and you do not need to enter it again when you log in next time.





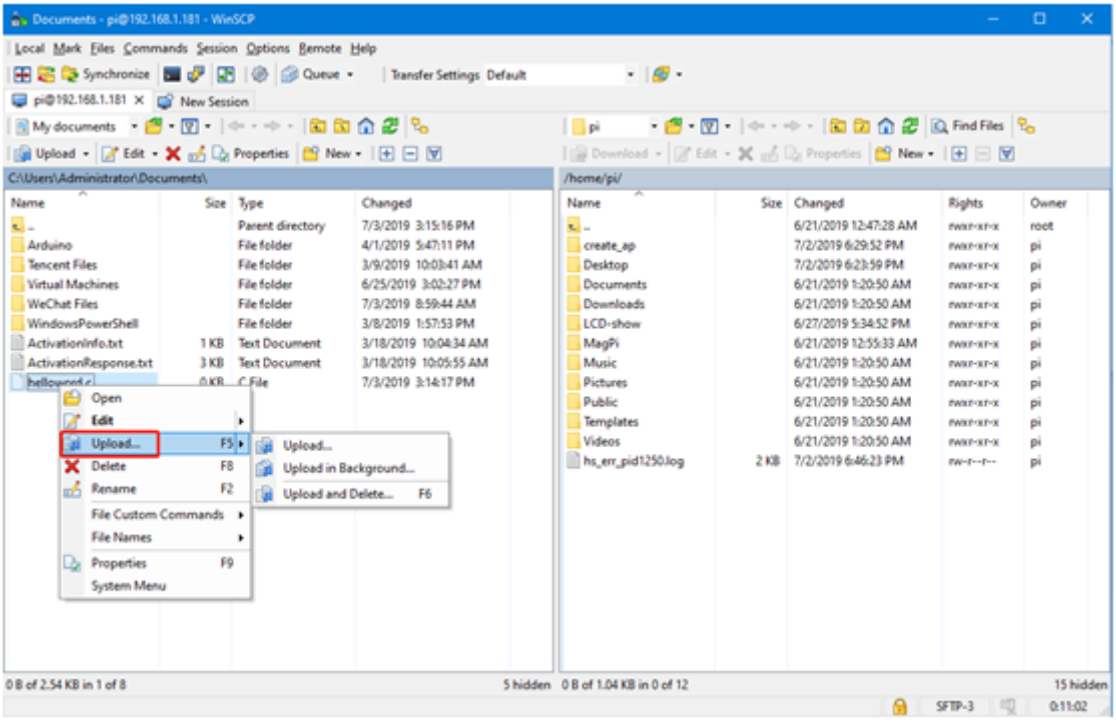
After clicking Login successfully, the following interface will be displayed. The left is the folder of the win computer, and the right is the folder of the Raspberry Pi.



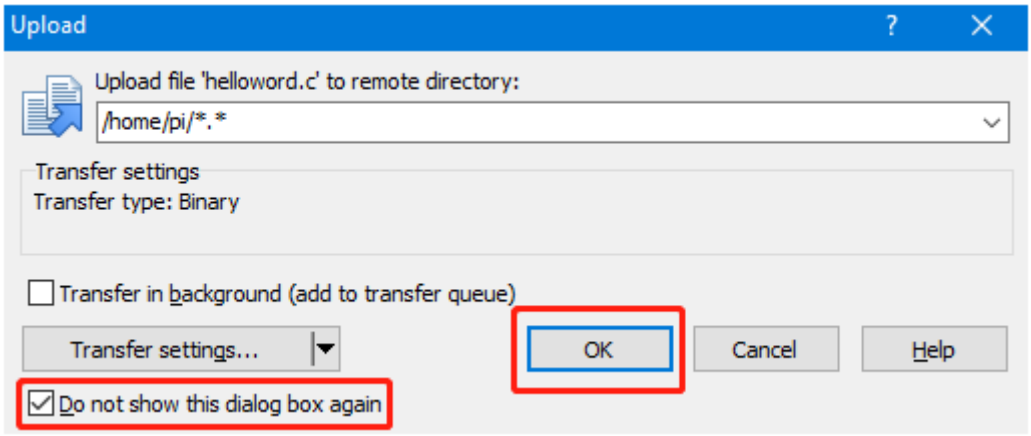
There are three operation modes for file transfer. The first one is to directly pull the file from the left to the right, or from the right to the left, and the system will automatically copy a file for transmission.

The second is to select the file with the mouse, and then press the F5 key, the selected file will be copied to the other side.

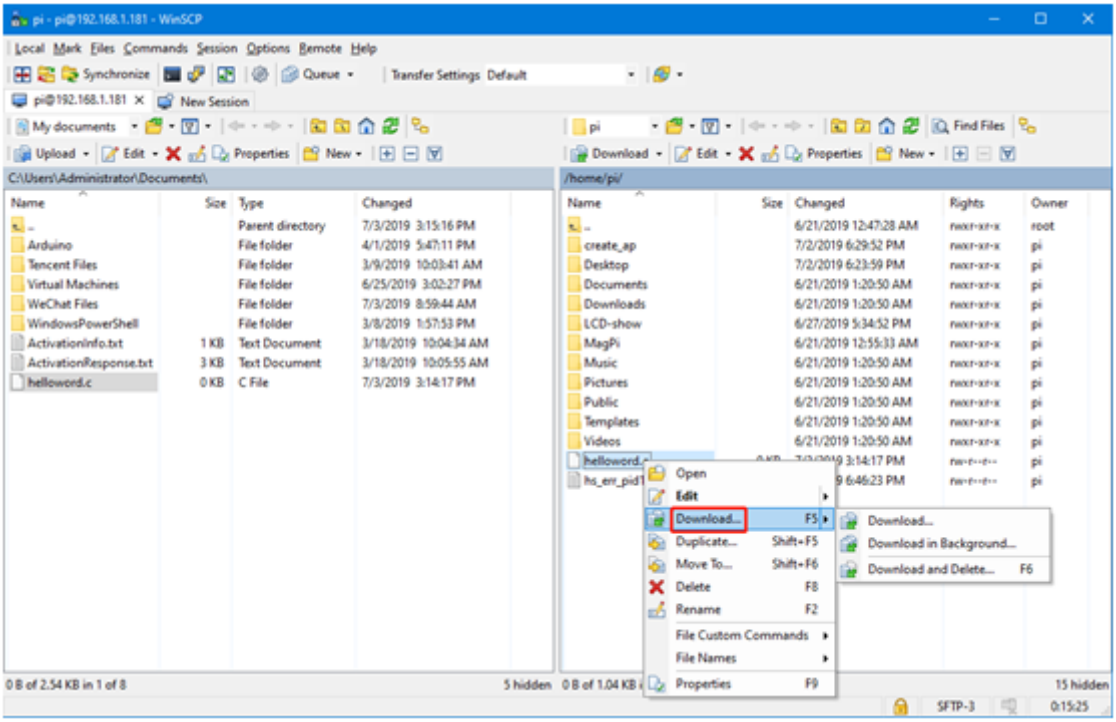
The third is to select the file and click the right mouse button. If it is transferred from the win computer to the Raspberry Pi, click upload.



A prompt will pop up, you can choose not to prompt again, and click OK, the file will be transferred automatically.



If you upload a file from the Raspberry Pi to the win computer, press the right mouse button to select the file and select Download



Note: The file transfer requires that the computer and the Raspberry Pi are in the same local area network, and the Raspberry Pi has the SSH service enabled before it can be performed. Sometimes if you encounter a failure to transfer files, it is usually because the permissions on the Raspberry Pi are insufficient. Please operate within the scope of the user's pi directory permissions.