

# DC.5000-WiFi-4

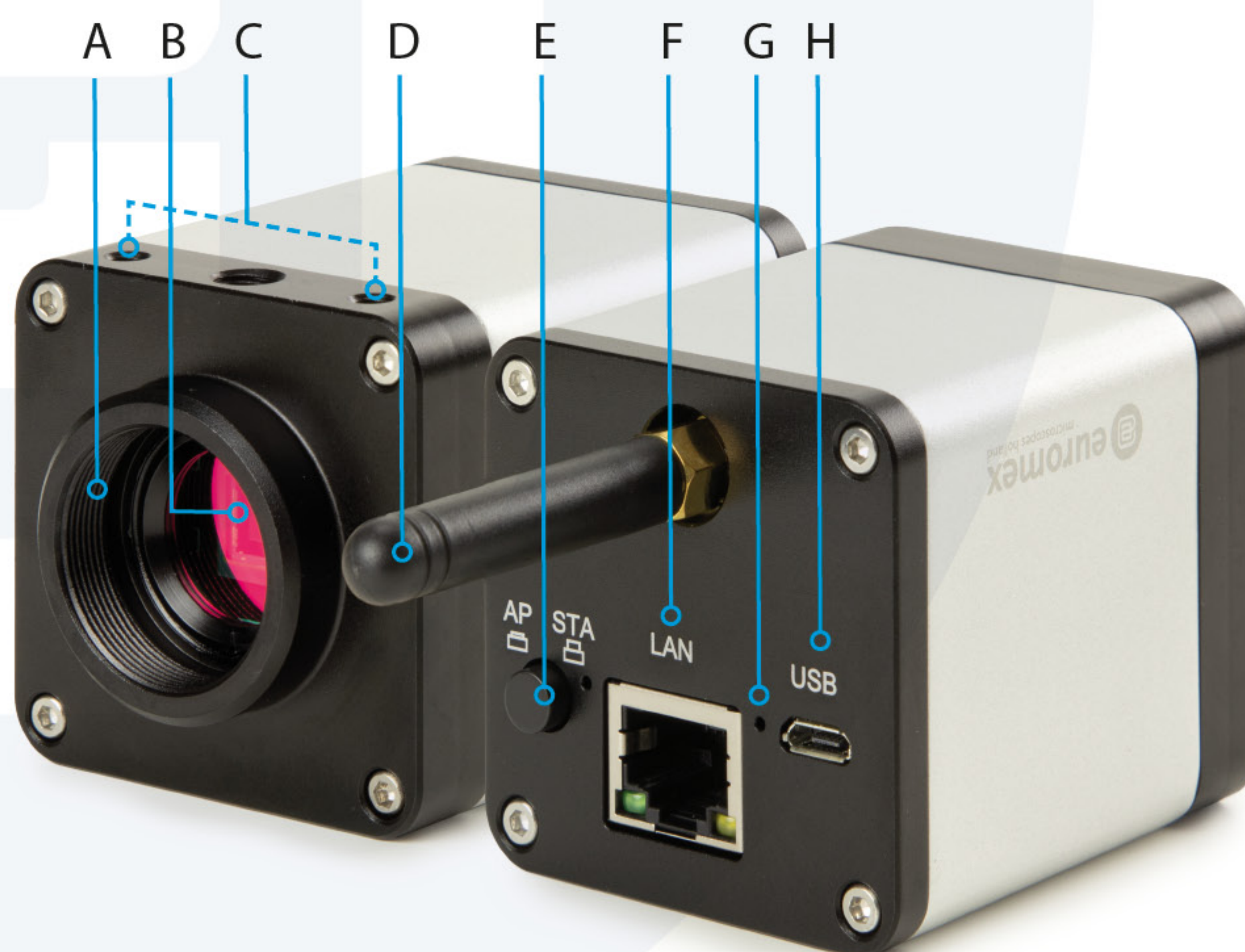




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## 1. Components

- A.** Thread for C-mount camera
- B.** Camera sensor
- C.** Mounting thread for HD screen
- D.** Antenna
- E.** Switch between AP and STA mode
- F.** LAN connector
- G.** LED indicator
- H.** USB connector



## 2. Using the DC.5000-WiFi-4

### 2.1. Powering up the camera

The camera can run in 3 ways:

- USB-2 mode
  - WiFi mode
  - Ethernet/LAN mode
1. Connecting the camera to a PC, using the micro USB cable, will put the camera into USB-2 (PC) mode (A, 2.1)
  2. Connecting the camera to the 5V power supply, using the micro USB cable, will put the camera into WiFi mode (A, 2.1)
  3. Connecting the camera via the Ethernet cable will turn the camera to work via network (B, 2.1)

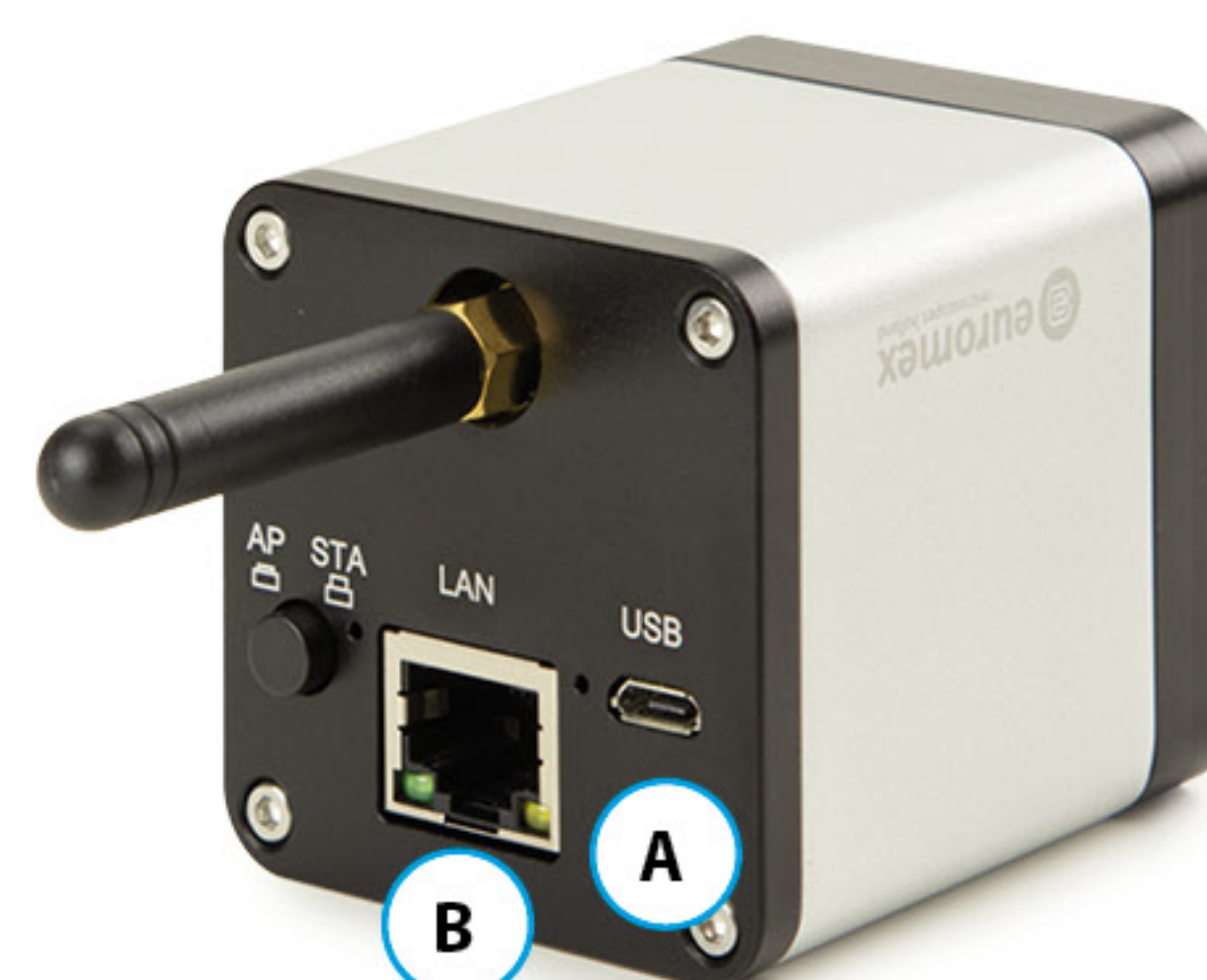


fig. 2.1

The LED indicator (G in 'Components') will light up when the camera is connected to a power source



#### **Please note:**

the camera cannot run in both ways simultaneously

#### **In USB-2 mode:**

- Install the ImageFocus Alpha software on your PC
- Connect the micro USB cable to computer. Wait for the camera to start up
- Start ImageFocus Alpha software. The camera will be recognized automatically by the software
- In ImageFocus Alpha software, select the corresponding camera name by clicking the camera name in the camera list. For use of ImageFocus Alpha please refer to the dedicated ImageFocus Alpha manual



## In WiFi mode:

- Install the ImageFocus Alpha software on your PC or install the ImageFocus Alpha App on the mobile device
- Connect the micro USB cable to 5V power adapter
- Connect the PC or mobile device to the WiFi network of the camera (see instruction on next pages)
- Start the ImageFocus Alpha software or ImageFocus Alpha App. Active WiFi cameras are automatically recognized. The connected camera(s) will be listed in the Camera List group of the Camera Control Bar of ImageFocus Alpha PC software. On mobile devices, connected cameras will be listed in the Camera Thumbnail page of ImageFocus Alpha App
- Click the corresponding camera to start the stream

## 2.2 Connecting to the camera's WiFi network

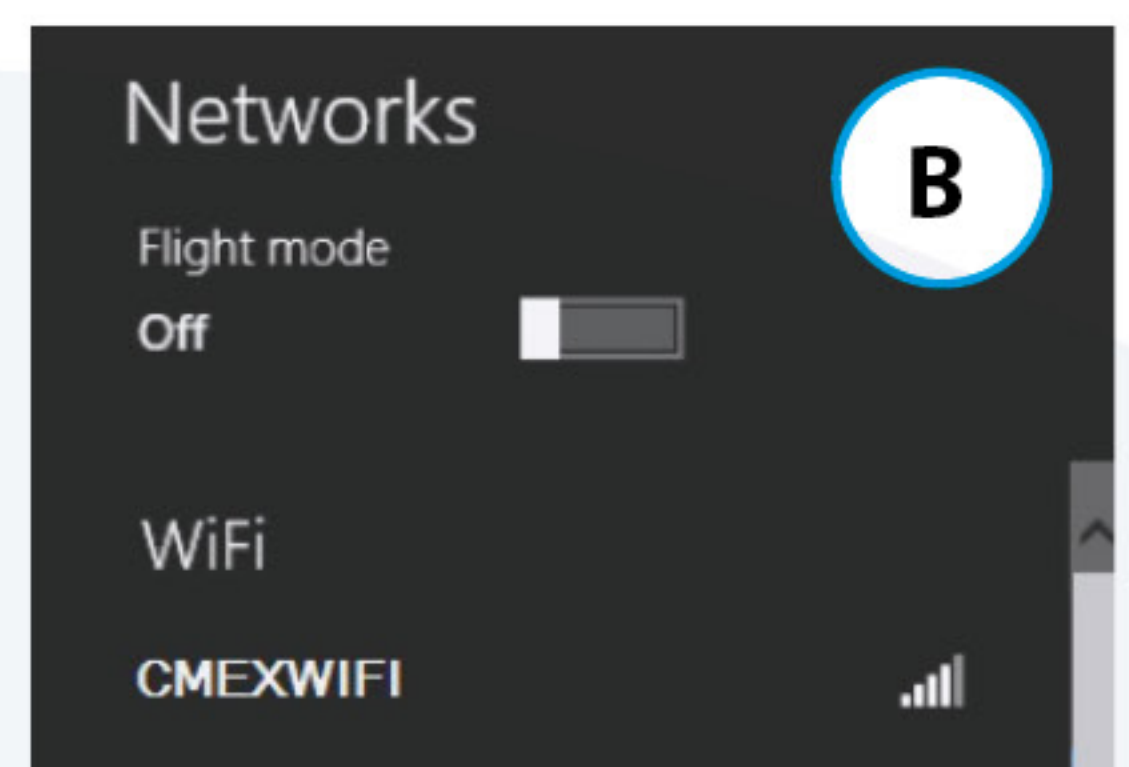
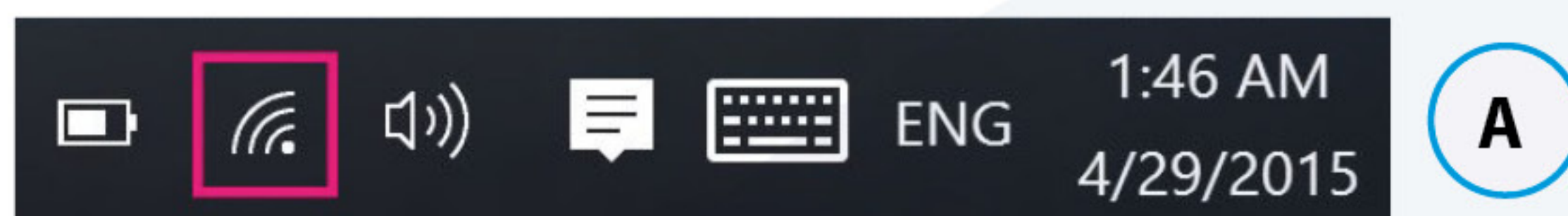
The first step that needs to be taken on any device is connecting to the WiFi camera's own network. This means you will need to disconnect from your standard WiFi network. The instructions for this are shown below.

After connection to the camera's WiFi network please refer to the dedicated ImageFocus alpha manual for use with PC, and dedicated manuals for the app's. The IOS app can be downloaded from the app store, for Android a download is available on the [www.euromex.com](http://www.euromex.com) download section

## 2.3 Connect to WiFi with Windows 10/11

1. On your desktop, click the network icon in bottom right-hand corner of your screen (A).

This will bring up a list of available connections (B)




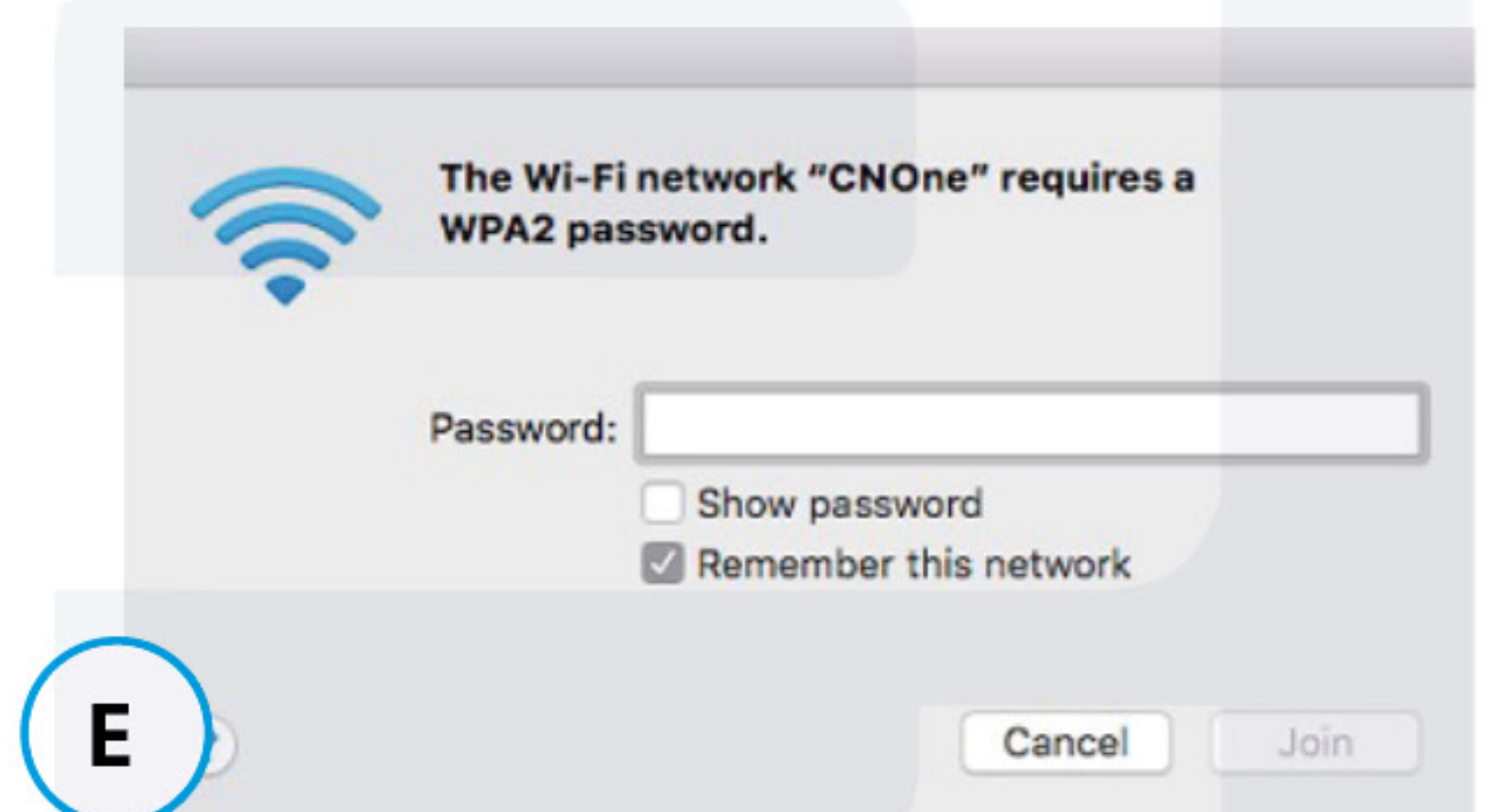
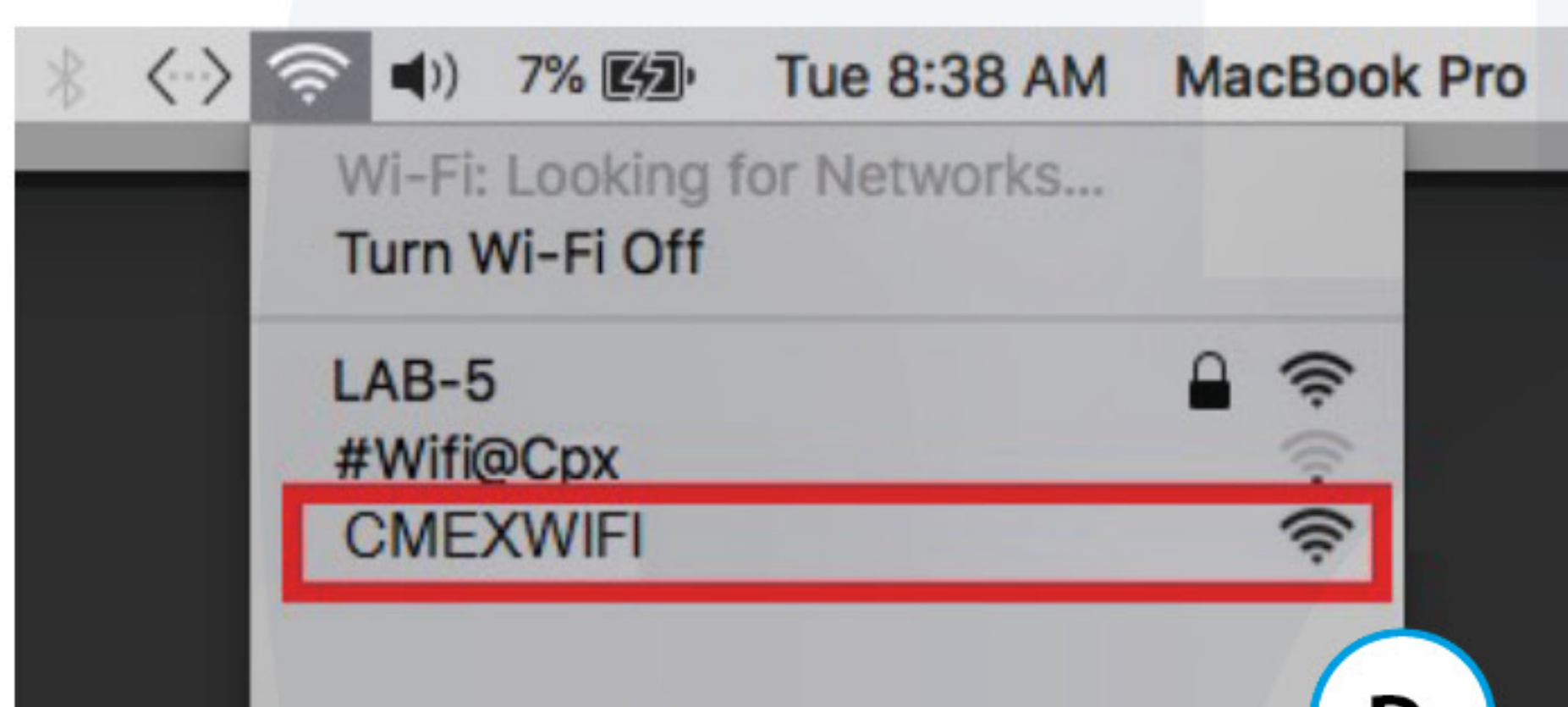
2. Find the name (SSID) of the CMEX WiFi network and click on it (B)
3. Ensure connect automatically is checked and then click connect
4. Enter your WiFi password. Standard password is: 12345678 (C)
5. Click OK to finish. Your computer should remember your password for you from now on



## 2.4 Connect to WiFi with MAC os

Connect using the AirPort®/WiFi menu

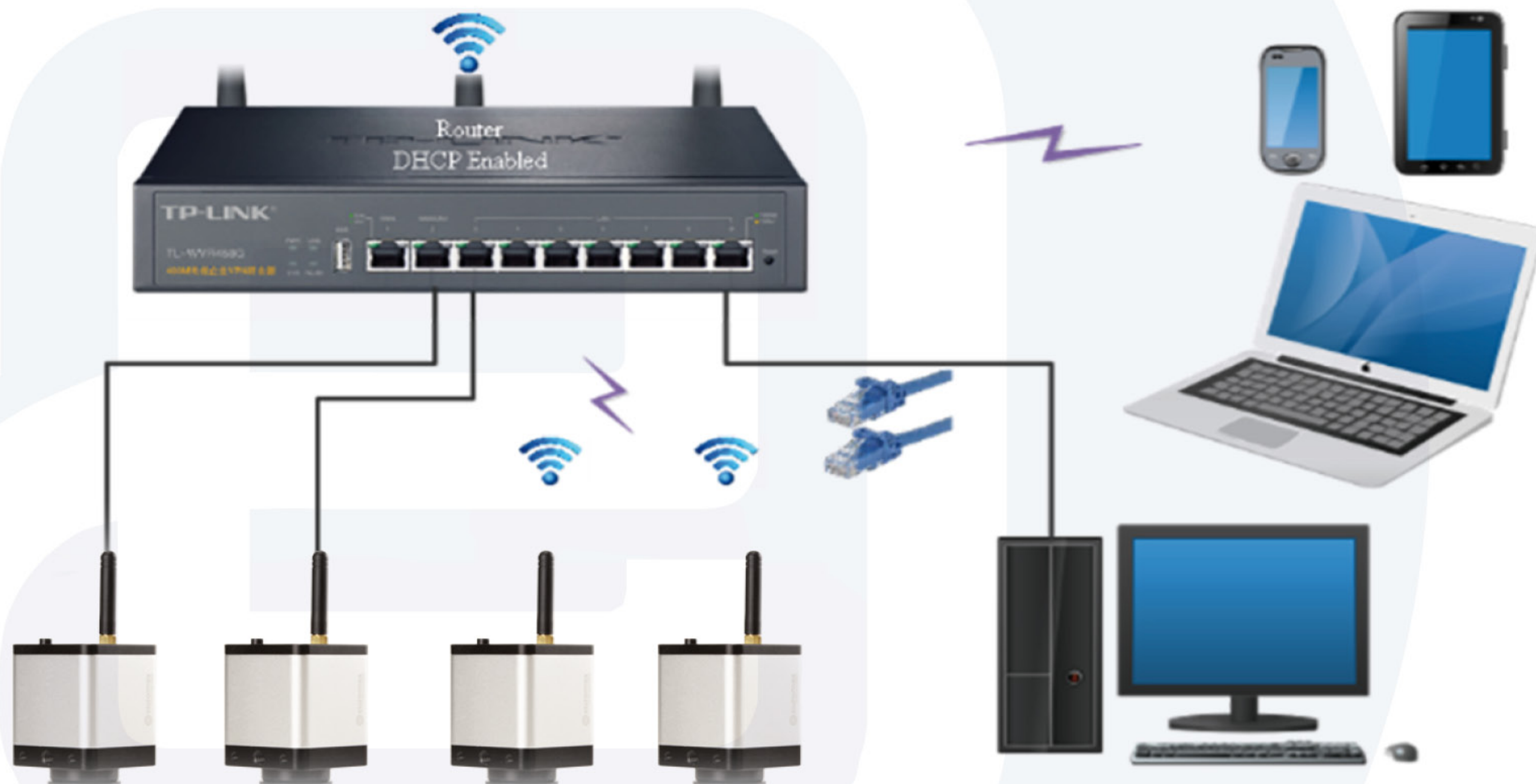
1. On the desktop, click the AirPort/WiFi icon -  -, then select the CMEX WiFi name (SSID) you want to connect to (D)
2. When required, enter the CMEX WiFi password then click join. Standard password is: 12345678 (E)



## 2.5 Connecting the cameras

The camera can be connected to a router for network applications. This can either be done via LAN cable or WiFi (in STA mode)





### 2.5.1 Connecting multi-cameras to the router through the LAN port for the network application

In LAN mode, the camera connects to router by Ethernet cable

- Install the ImageFocusAlpha /ImageFocusAlpha software on your PC
- Alternatively, install the free ImageFocusAlpha App on the mobile device
- Plug one end of the micro USB cable into the camera's USB port, and the other end into a 5V/1A power adapter
- Connect the microscope's camera to the router with LAN method: Connect the camera and the router by Ethernet cable; If the connection is successful, the network indication LED will be off and the LAN indicator is lit up
- Make sure that your PC or your mobile device is connected to the router (by LAN or WiFi)
- Start the ImageFocusAlpha software or ImageFocusAlpha App and check the configuration
- Usually, active WIFI-4 cameras are automatically recognized. The connected cameras will be listed in the **Camera List group** of the Camera Control Bar of ImageFocusAlpha on PC
- On mobile device, connected cameras will be listed in the Camera Thumbnail page of ImageFocusAlpha App. Click the corresponding camera to start the stream

### 2.5.2 Connecting to the camera's WiFi network in STA mode

Connecting multi-cameras to the router through the LAN port/WiFi STA mode for the network application

In LAN/ WiFi STA mode, the camera connects to router by Ethernet cable or with WiFi STA mode

- Install the ImageFocusAlpha /ImageFocusAlpha software on your PC. Alternatively, install the free ImageFocusAlpha App on the mobile device
- Plug one end of the micro USB cable into the camera's USB port, and the other end into a 5V/1A power adapter
- Connect the camera to the router with WiFi STA mode: pop up the AP/STA switch button, the network indication LED turns blue, this means the camera is in WiFi STA mode and has connected to the router (See sec. 2.6 on how to set the router's name and password in the camera)
- Connect PC or mobile device to the router (by LAN or WiFi). Start the ImageFocusAlpha software or ImageFocusAlpha App and check the configuration. Usually, active WIFI-4 cameras are automatically recognized. The connected cameras will be listed in the **Camera List group** of the Camera Control Bar of ImageFocusAlpha on PC. On mobile devices, connected cameras will be listed in the Camera Thumbnail page of ImageFocusAlpha App. Click the corresponding camera to start the stream



#### **Note on data security**

The data transfer of the camera in LAN or WiFi is not encrypted. Anyone who is connected to the network and has installed the ImageFocusAlpha software or ImageFocusAlpha App, can see the live image of all active WIFI-4 cameras



## About the routers/switches

It is suggested that routers/switches supporting 802.11ac 5G segment should be selected to achieve better wireless connection experience

## 2.6 Configure the camera's WiFi STA mode's WiFi network and password

the detailed steps are as follows:

- Set the camera to AP mode, use iOS or Android device to connect to the camera's AP hotspot (1)
- Start the ImageFocusAlpha App on iOS or Android device, and press the configuration button in the camera thumbnail above to pop up the interface for selecting WiFi network (CMEXWIFI)
- Select the network to be connected and enter the password, press OK to finish the network- and password setup process
- If the pop-up UI does not have the desired WiFi network, press the add WiFi item on the bottom and enter WiFi network name and password manually (the current WiFi network is CMEXWIFI and the password is 12345678) (2)
- After completion, press the button to switch to STA mode. The camera WiFi will be connected to the designated router in STA mode for operation, and the camera network LED indicator will turn blue (3)

