

**CYBER  
BEAGLE  
.COM**  
SEARCH  
RETRIEVE  
GUARD



## CyberBeagle Installation Manual

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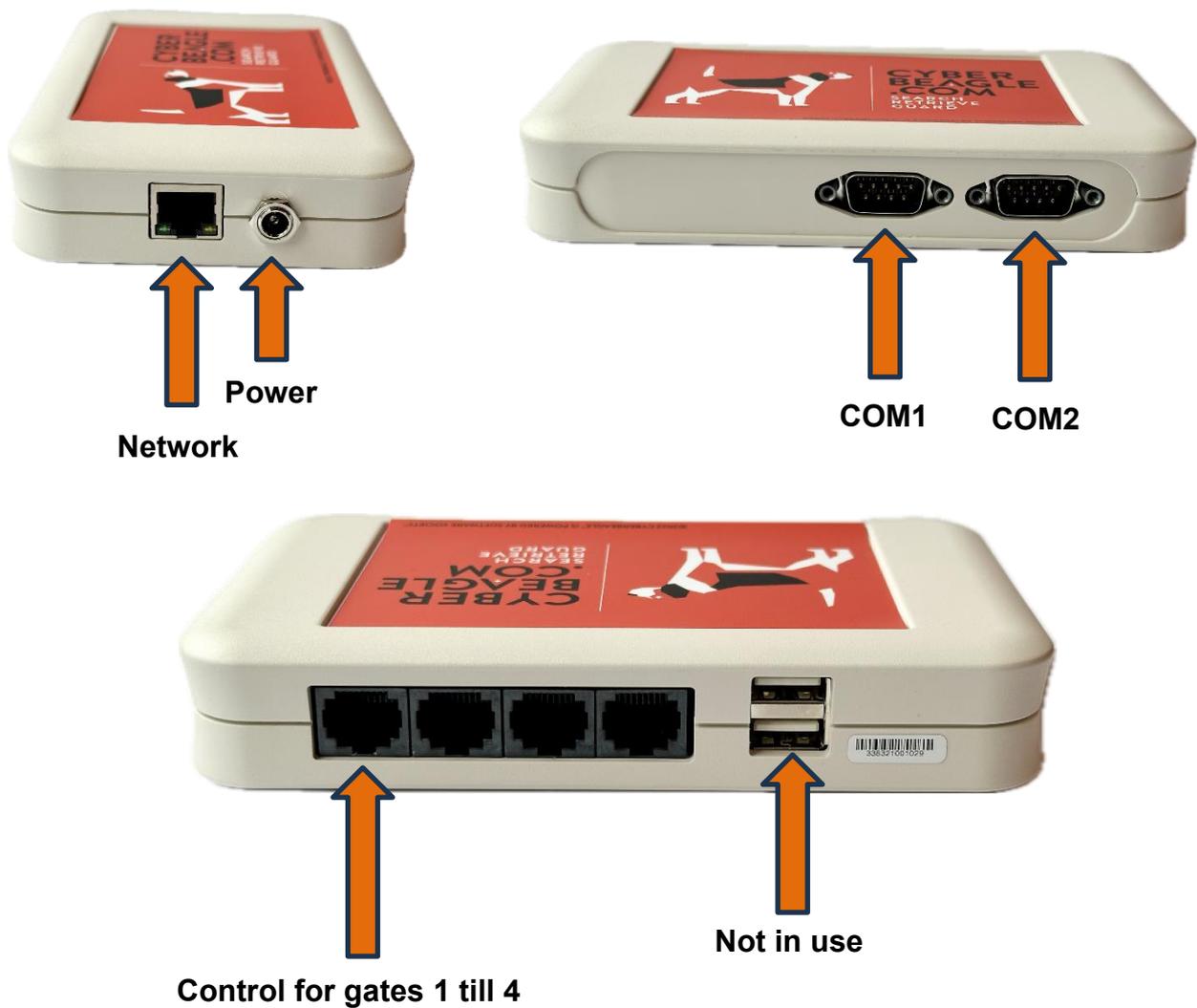
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## 1. Connecting the CyberBeagle

Place the CyberBeagle at the desired location and connect the power supply and network cable. Card readers are connected to the serial ports. Currently, the use of USB ports is not supported.

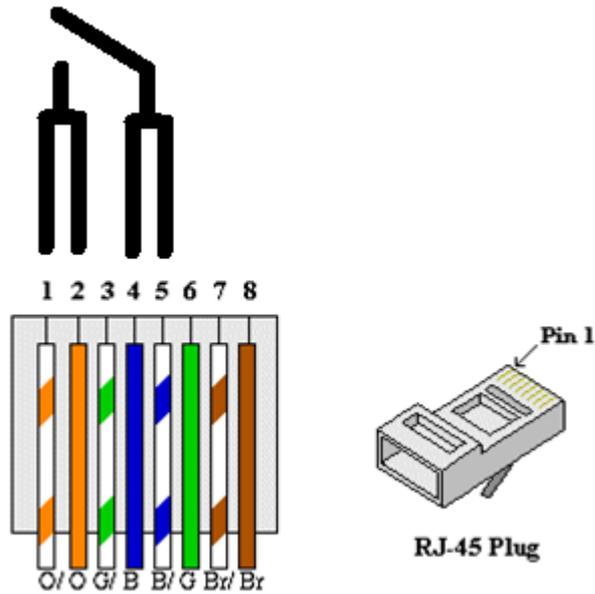
Gates are connected to one of the four UTP ports on the long side of the CyberBeagle.



The wiring for gate control is identical to the pin layout of the HAC. A cable previously used in the HAC can therefore be connected to the CyberBeagle without modification.

### 1.1 Wiring connections to the gates

The relays in the CyberBeagle can switch up to 60 watts. However, the lifespan of the relays increases when switching lower power. For controlling the gates, pin 1+2 are connected with pin 4+5.



The combination of wires 1+2 and 4+5 ensures sufficient power can be handled using a standard UTP cable.

## 2. Configuration

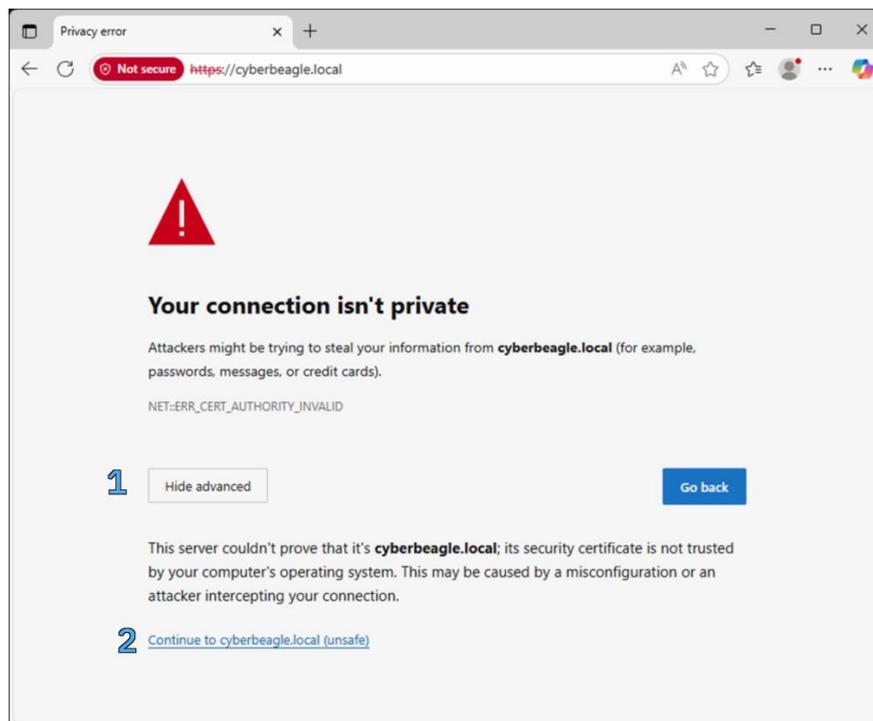
The CyberBeagle is set to DHCP by default, allowing it to connect to any network where DHCP is available. Afterwards, the CyberBeagle can be accessed via:

<https://cyberbeagle.local>

### Important

This address only works if mDNS is available on the network. If the IP address setup page does not appear, use [Fing](#) to locate the CyberBeagle.

Because the CyberBeagle is accessed via a .local address, a self-signed certificate is active. This will trigger a warning on the screen. Click 'Advanced' (1) and then 'Proceed to ...' (2) to open the IP address settings page.



## 2.1 Locating the CyberBeagle with Fing

Using the Fing command, a CyberBeagle can easily be found on the network. This tool can be downloaded from the CyberBeagle website:

<https://www.cyberbeagle.com/download>

Download Fing and start the EXE from the ZIP file. Afterwards, the Fing command can be executed via the DOS prompt.

When you simply enter the Fing command, an overview of all devices found on the network is displayed. A CyberBeagle can be recognized by a MAC address starting with **8C:1F:64:76**. A faster option is to use this command:

```
fing -n 192.168.1.0/24 -r 1 -o table,text,console
```

The IP range after the -n option must be adjusted to match the network being scanned.

```
C:\Users\Balie>fing -n 192.168.1.0/24 -r 1 -o table,text,console
16:33:05 > Discovery profile: Default discovery profile
16:33:05 > Discovery class: data-link (data-link layer)
16:33:05 > Discovery on: 192.168.1.0/24

16:33:05 > Discovery round starting.
16:33:06 > Discovery progress 25%
16:33:07 > Discovery progress 50%
16:33:08 > Discovery progress 75%

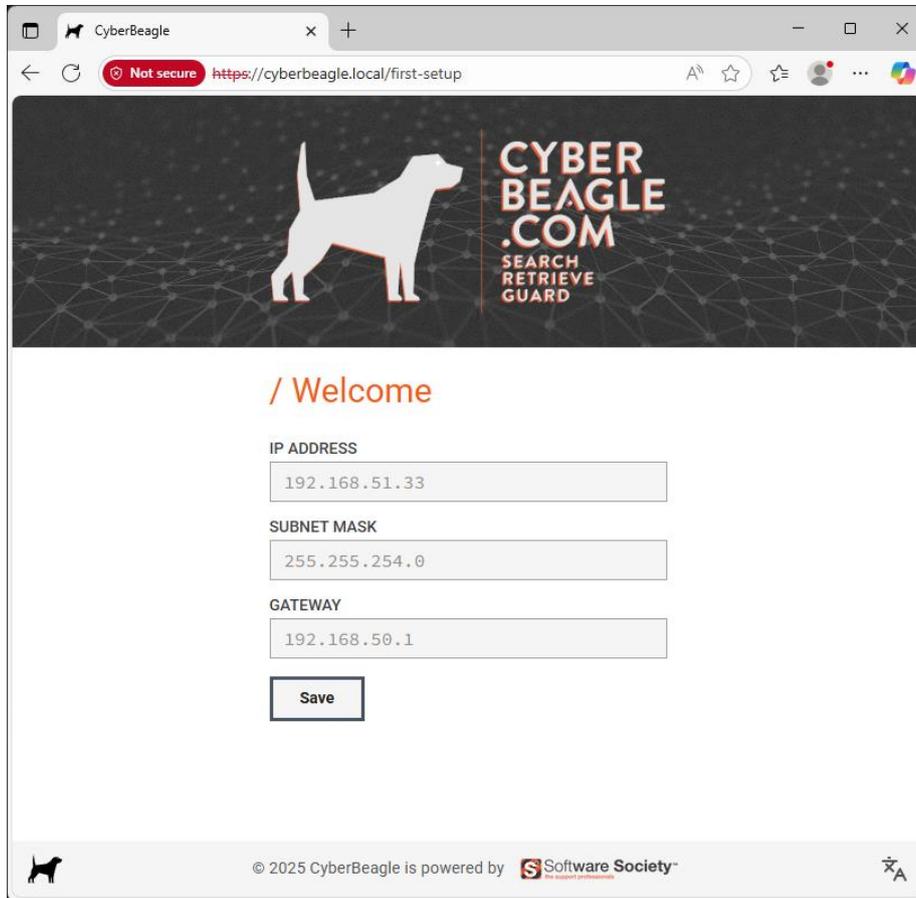
-----
| 2025/09/26 16:33:10 overlook fing discovery report of network 192.168.1.0/2 |
-----
| State | Host | MAC Address | Hostname | Last state change |
-----
| UP | 192.168.1.1 | 0C:9F:97:C9:2A:5F | | | |
| UP | 192.168.1.159 | D2:A4:4C:C9:8A:99 | | |
| UP | 192.168.1.176 | 1A:65:66:97:58:F3 | | |
| UP | | | | | |
| UP | 192.168.1.80 | 8C:1F:64:76:20:20 | CyberBeagle | |
| UP | | | | | |
-----

16:33:10 > Discovery round completed in 5.178 seconds.
16:33:10 > Network 192.168.1.0/24 has 7/7 hosts up.
```

In this example, the CyberBeagle is accessible via: <https://192.168.1.80>.

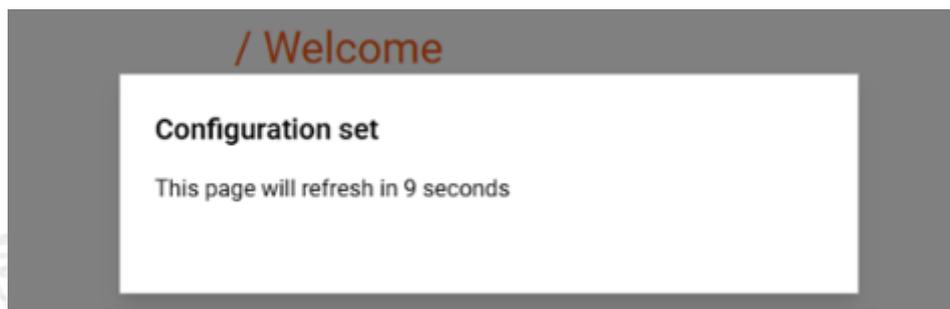
## 2.2 First-time IP address setup

When configuring the CyberBeagle for the first time, logging in is not required.



The screenshot shows a web browser window with the address bar displaying `https://cyberbeagle.local/first-setup`. The page content includes a header with the CyberBeagle logo and the text 'CYBER BEAGLE .COM SEARCH RETRIEVE GUARD'. Below the header, the word 'Welcome' is displayed in orange. There are three input fields: 'IP ADDRESS' with the value '192.168.51.33', 'SUBNET MASK' with the value '255.255.254.0', and 'GATEWAY' with the value '192.168.50.1'. A 'Save' button is located below the input fields. At the bottom of the page, there is a footer with the text '© 2025 CyberBeagle is powered by Software Society' and a small logo.

Enter the IP address, subnet mask, and gateway. Then click **'Save'**.



After 6 seconds, the CyberBeagle will restart and be accessible via the new address. If mDNS is available, the login screen will appear. If not, the browser's address bar must be updated with the new IP address.

### 3. Logging in to the CyberBeagle

Once the CyberBeagle has a fixed IP address, it is no longer possible to change settings without logging in. When opening the CyberBeagle webpage, a QR code is displayed. Using a scanner in GymManager, an access code can be generated via your phone. The webpage can be opened via <https://cyberbeagle.local> or by entering the assigned IP address.

#### Important

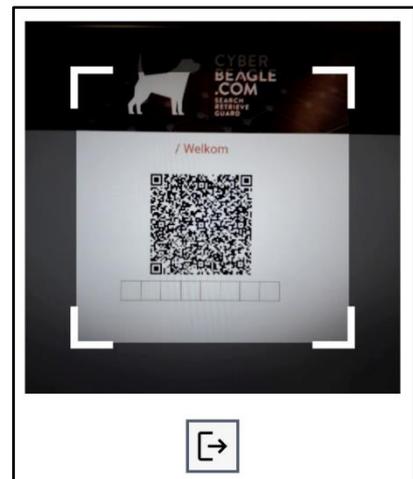
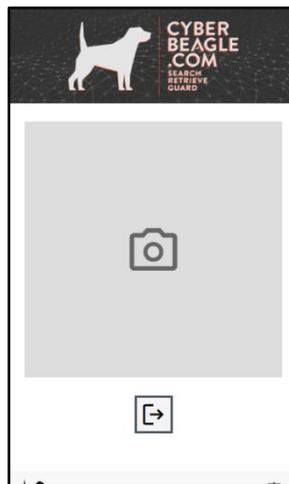
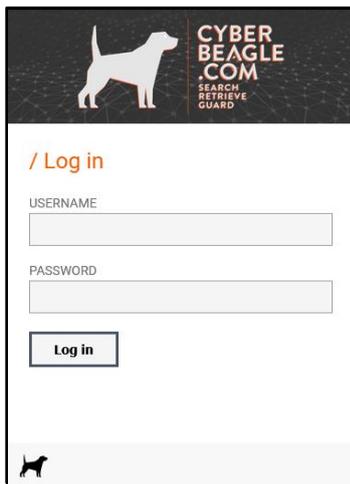
To use this option, the user logging into GymManager must have the functional right CyberBeagleRegistration. Ask the application administrator to add this right if you do not yet have it.



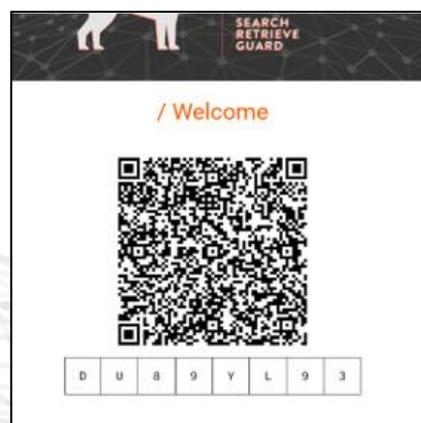
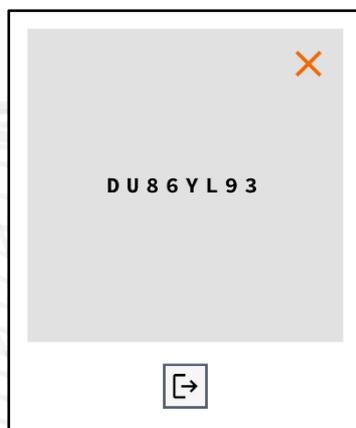
To open the scanner, go to:

<https://basicfit.gymmanager.eu/qrcode>

Log in with your GymManager username and password.

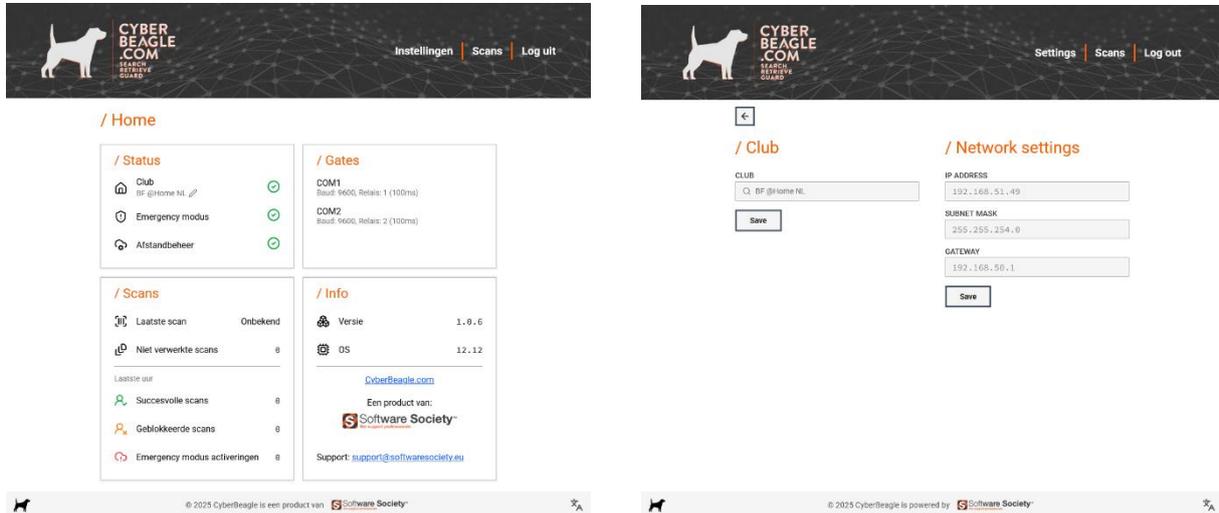


After logging in, click the camera icon to start the scan. A pop-up may appear requesting camera access. Granting permission activates the scan and displays an eight-character code on the screen. Enter this code under the QR code.



## 4. Adjusting the linked club and IP address

After logging in, you arrive at the CyberBeagle start screen. Via the Settings option or the pencil icon next to the linked club, the settings screen opens.



Search for a club by entering part of its name, then select the correct club from the list. Click 'Save'.



After entering new network settings, the CyberBeagle must be restarted by disconnecting the power and reconnecting it after a few seconds.

The CyberBeagle must always be assigned a fixed IP address. It is not possible to configure the club while the CyberBeagle is still set to DHCP.



## 5. Retrieving scans

Through the Scans menu option, an overview can be requested of scans performed in the last hour. The times when Emergency Mode was activated and deactivated are also visible here.

**/ Scans**

Time	Type	COM port	Data	Result
15:12:36	Scan	COM1	1072725...	●
15:12:26	Scan	COM1	10909622	●
15:12:05	Emergency mode deactivated			
15:11:20	Scan	COM1	0106127...	●
15:11:00	Emergency mode activated			
14:57:04	Scan	COM2	5056551...	●
14:56:03	Scan	COM2	0070325...	●
14:14:47	Emergency mode deactivated			

- Successful
- Blocked
- Successful due to emergency mode

### 5.1 Emergency scans

Emergency Mode becomes active when the CyberBeagle cannot connect to the central GymManager cloud environment. In this mode, each scan opens the gate without verification to avoid inconvenience for members. Once contact with GymManager is restored, the scans are processed retroactively.