

BlackHawk Automation

[KaiKai7/BlackBox: Simple Wifi Connected Vibration Sensor with External Sensor Capability. Powered by 5v micro usb. \(github.com\)](#)

BlackBox Quick Connect Guide

October 05, 2023

Product Overview

Welcome to the [BlackBox](#) Security Device! This quick connect guide will help you set up your device quickly and hassle free. The BlackBox works with [Telegram](#) Messenger to receive the notifications from your BlackBox. There are 2 things the BlackBox needs to connect to Telegram and send you notifications. First is a Bot Token which identifies you on the Telegram network. Second is the Chat ID which tells Telegram exactly which chat you want to send these notifications to. You will enter this information on the same page as the wifi ssid and password the BlackBox needs to join that network.



Telegram Credentials

Here are the links to get Telegram, Bot Token and the Chat ID :

Telegram : [Telegram Messenger](#)

Bot Token : [@BotFather](#)

Chat ID : [@myidbot](#)

Setup Procedure

Before we begin, make sure you have the following items:

BlackBox Security Device

5v Micro Power Adapter

Smartphone or Computer with Wi-Fi capability

Let's Go

Step 1: Connect to Power

Plug the 5v micro usb connector power adapter into the BlackBox.

Connect the other end of the usb power adapter to a standard usb power adapter.

Wait for the BlackBox to power up. It may take a minute or two.

Step 2: Connect to Wi-Fi

On your smartphone or computer, go to Wi-Fi settings.

Look for a Wi-Fi network named "BlackBox-XXXX" (XXXX represents a unique identifier). Connect to this network.

Once connected, open a web browser and go to <http://192.168.4.1>.

Step 3: Configure Wi-Fi

You will see the WifiManager configuration page.

Click on the "Configure WiFi".

Select your Wi-Fi network from the list and enter your Wi-Fi password.

Enter your Telegram Bot Token from the BotFather.

Enter your Chat ID from the IDBot.

Click the "Save" button.

The BlackBox will attempt to connect to your Wi-Fi network.

In a few seconds you should receive a Telegram notification saying you are connected. This message also tells you which wifi network (ssid) you are connected to. It also displays the local ip address that the BlackBox is connected to. If it does not go back to <http://192.168.4.1> and try again.

You can close the open browser window now.

From now on your BlackBox will automatically connect to that network when powered on and in range.

If you power on the BlackBox when it's saved wifi network is not in range, the BlackBox will timeout after a minute or two and go back to broadcasting as a wifi ssid. Then you can reconnect again just like the first time to save the settings.

Step 4: Access the BlackBox Notifications

Open Telegram and choose the chat with the name you gave it during setup. Here you will find all alerts that have come through logged and timestamped in the chat.

Notifications that are not alarm conditions are delivered silently so that they can be distinguished from confirmation and log notifications.

In the Telegram app you can assign a different sound to your notifications. For example a blaring siren sound for alarms. But the other notifications will stay silent.

Step 5: Mount and Position

Mount the BlackBox security device in a suitable location.

Ensure it has a strong wifi signal. Your mobile device can show you how strong the signal is where you are standing.

The BlackBox itself is not waterproof but a non metallic case that does not block wifi can be used with a small battery pack for power. A battery pack also allows for installation locations where ac power is not available.

Troubleshooting Tips

If you encounter any issues during setup, consult the user manual or visit our website <https://github.com/KaiKai7/BlackBox> for more info.

Ensure your Wi-Fi network is within range, functioning correctly and has internet access.

Keep your BlackBox out of direct sun that could overheat the cpu and cause it to fail.

Congratulations!

Your BlackBox security device is now set up and ready to protect your home or business and countless other things !.