

How to Set Up CodeProject.AI on Blue Iris

How to Set Up CodeProject.AI on Blue Iris

We will look at how to set up CodeProject.AI on Blue Iris below, installing it on the same server where Blue Iris is currently running. Please keep in mind that you can run the software somewhere else if you'd like and connect to it through Blue Iris.

1. Navigate to the [CodeProject.AI website](#) and download the latest Windows installer. Please keep in mind that you can run this inside of a Docker container as well if you'd rather offload the processing to another device. After the download finishes, extract the contents and run the installer.



2. After CodeProject.AI is installed, you must configure Blue Iris. **This process will be different for everyone, meaning that you must configure some of these settings based on your requirements, but I'll do my best to create a general example below.**

Open the **Settings** menu, select **AI** and check off **Use AI server on IP/port**. As long as CodeProject.AI is installed properly, you should be able to leave all these settings as-is, however, if you'd like better object detection, that can be changed to high. CodeProject.AI also has facial recognition, but that's out of the scope of this tutorial. When you're comfortable with the settings, select **Start Now**.

Objects and faces

Use AI server on IP/port: 127.0.0.1 5000 timeout (s): 15

Auto start/stop with Blue Iris: CodeProject.AI Service instances: 1


Use custom model folder: c:\BlueIris\AI

Default object detection Medium CUDA

Facial recognition Faces...

Save unknown faces to New [Open AI control panel](#)

Stop now



CodeProject.AI Configuration

Now that CodeProject.AI is installed and configured on Blue Iris, we can move on to setting up triggers and alerts. **As mentioned above, there are no correct settings in this regard, meaning that you must understand how this all works and apply it to your requirements.**

1. Make sure your cameras are added to Blue Iris, then select the **Trigger** tab. Ensure that **Motion Sensor** is selected, then **Configure** the settings. Alter the **minimum object size**, as well as the **minimum contrast** and **duration**. If you'd like to highlight objects when triggered, you can enable that.

Motion sensor

Basic

More <--- Sensitivity ---> Less

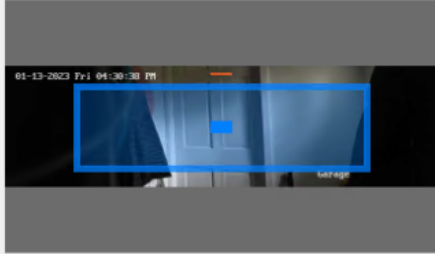
Min. object size 200

Min. contrast 20

Min. duration 0.5 sec. (MAKE time)

Highlight: Show object rectangles Only when triggered

Blackout: Do not blackout



Sense
Motion
Trigger

2. The settings in the **Advanced** section can be changed as well, though these specific settings will depend on the type of camera you're using, where it's located, as well as (potentially) many other factors.

Advanced

Object detection Edit... Black & white

Use zones and hot spot Edit... Cancel shadows (deprecated)

OPPOSITE sense to detect NON-movement High definition

Algorithm: Simple ▾

3. Next, in the **Trigger** tab, select **Artificial Intelligence** and ensure that **CodeProject.AI or DeepStack** is selected. This is also the location where you can add or remove the type of objects you'd like to detect. You can also modify the **real-time images** as well as the duration (**analyze one each**) to increase performance.

AI

Alert confirmation

None

Sentry® Smart Alerts Person detection Vehicle detection [no plan] [Learn More](#)

CodeProject.AI or DeepStack Override server: 127.0.0.1:82

To confirm: person,car,truck,bus,bicycle,boat

To cancel:

Custom models:

Mark as vehicle: car,truck,bus,vehicle

min confidence: 50 %

+ real-time images: 2

analyze one each: 750ms ▾

4. There are additional settings you can select as well to complete specific actions, though there isn't an individual setting that would generally apply to all.

If you're interested in configuring actions that occur based on the type of AI detected, you can access the settings in the **Camera Settings, Alerts**, then **On Alert**.

General Video Audio Trigger Record Alerts Post

Profile: 1 Active Sync with camera

When: This camera is triggered

New triggers only

Trigger sources and zones

Motion zones A B C D E F G H Any Audio DIO Extern Group ONVIF

Timers

Allow disarm time by delaying alerts 0 sec.

Wait until triggered at least 1 X within 1 sec.

Minimum time between alerts 10 sec.

Minimum/max time since trigger 0 and max 0 sec.

Camera: Group: Index

Actions

Increment user new-alert counters

There are *various* types of alerts you can specify here, but the key that you want to be aware of is the **required AI object** section after selecting an alert type. This will allow you to specify when an alert is sent based on the type of AI object that's detected.

Configure Sound Alert

Profiles: 0 1 2 3 4 5 6 7

Trigger sources and zones

Motion zones A B C D E F G H Any Audio DIO Extern Group ONVIF

Required AI objects: Skip with:

Conclusion: How to Set Up CodeProject.AI on Blue Iris

This tutorial looked at how to set up CodeProject.AI on Blue Iris. Please keep in mind that this is an extremely basic implementation of CodeProject.AI and you can get extremely granular by setting up alert actions. The true power of CodeProject.AI is unleashed when alerts are configured for specific AI objects, so spending time to determine the type of object and alert (even for specific profiles, like during the night or while at work) is incredibly powerful.

Revision #1

Created 15 June 2024 05:53:42 by ColtM

Updated 15 June 2024 05:55:49 by ColtM