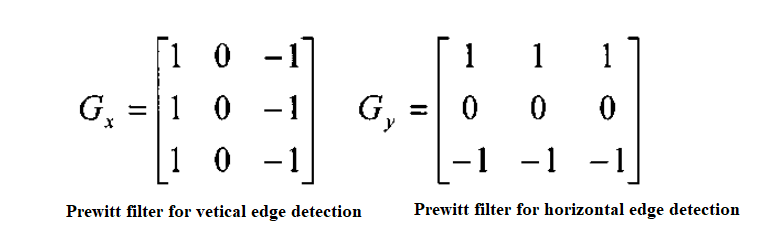
DATE HERE - info, figures, whatever afterwards, DATE EVERYTHING

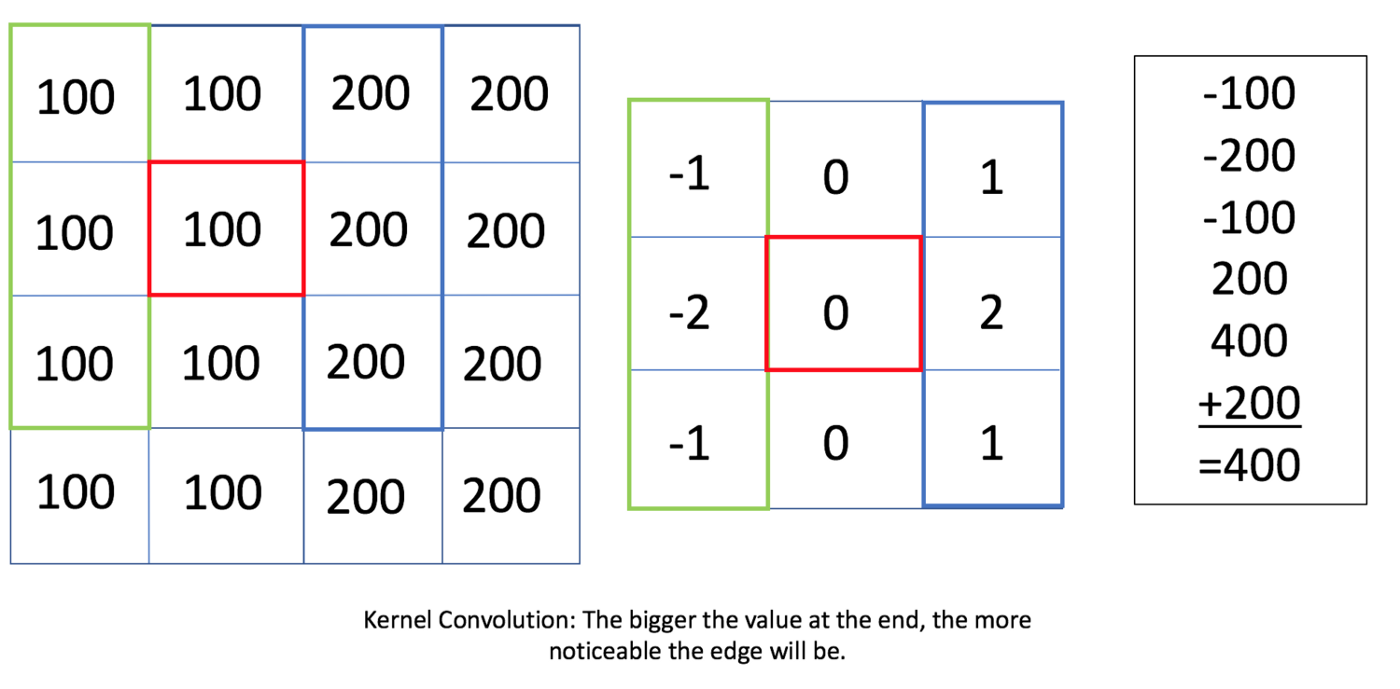
09/10/2022 – Image detection literature study

<https://www.mygreatlearning.com/blog/introduction-to-edge-detection/>

Edge detection described as: “a technique of image processing used to identify points in a digital image with discontinuities, simply to say, sharp changes in the image brightness”

There are several methods, all involving applying a filter matrix to the image at all possible points.

For all given pixels that the matrix will fit for, apply these coefficients for a given pixel, then sum the values and take this as the new value to be later normalized for the image:



This method results in the output being shrunk in dimensions, for an n\*n image and a r\*r filter the output image will be ( (n-r)+1)\*( (n-r)+1).

Canny edge detection is the most common. The process involves:

* Convert the image to grayscale
* Reduce noise – as the edge detection that using derivatives is sensitive to noise, we reduce it.
* Calculate the gradient – helps identify the edge intensity and direction.
* Non-maximum suppression – to thin the edges of the image.
* Double threshold –  to identify the strong, weak and irrelevant pixels in the images.
* Hysteresis edge tracking – helps convert the weak pixels into strong ones only if they have a strong pixel around them.

Attempt to implement a Sobel filter in MATLAB:

<https://www.geeksforgeeks.org/matlab-image-edge-detection-using-sobel-operator-from-scratch/>

**Advantages:**

1. Simple and time efficient computation *(for small images, cannot go above 720p at least for Arduino)*
2. Very easy at searching for smooth edges *(good for searching for edges of license plates)*

**Limitations:**

1. Diagonal direction points are not preserved always
2. Sensitive to noise
3. Not very accurate in edge detection
4. Detect with thick and rough edges does not give appropriate results

Overall quality detection if the threshold values are set correctly:



Main concern here is the potential overhead and memory requirements needed for this level of image processing, alongside all the extra processing surrounding finding the bounding box of the plate.

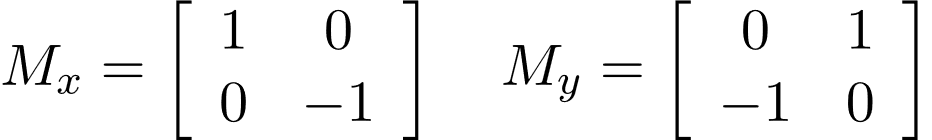
10/10/2022 – Attempts at bounding edged image

Attempted to use code found online to create bounding boxes for the edge filtered image

<https://uk.mathworks.com/matlabcentral/answers/35243-detecting-rectangle-shape-in-an-image>

Not great, will need some tinkering with algorithm to detect correct bounding box.

Need to think of extra info that could help detect corners of plate. The corners themselves seem fairly distinct, perhaps a similar filter to the edge detection could be used to find the corners of the plate. A filter for this use may have been found by using the **Robert Operator**.



This could be utilized to filter out diagonal edges, which the licence plate has at its corners, take the highest intensity spots and use these to find the approximate location for the edges of the licence plate.

12/10/2022 – Checking image processing requirements

Looking at an image size calculator, the stated value of a 1280x720p image in 8bit monochrome would be around 0.85MB which is significantly more than most microcontroller SRAM.

<https://toolstud.io/photo/filesize.php?imagewidth=1280&imageheight=720>

Given that working with the actual pixels of the image itself will be necessary, it doesn’t seem feasible to save the image in a compressed format (unless some Realtime decompression can be performed). The image could potentially be streamed from the onboard storage if necessary, taking the data and reducing it to a very low-level form (4bit mono-chrome) for processing. Although the maximum level of SRAM I have found on an affordable board is 256KB of SRAM. I could find an external module to assist in storing images, but I am uncertain, even 4 bits per pixel on 480p leaves very little room for processing. I should probably work on getting the system working at a higher level before attempting to design anything though.

12/10/2022 – diagonal edge detection



The Robert filter doesn’t work well. I might need to design my own filter to get the corners I want or find another method.

15/10/2022 – Background reading

Some of the methods that *‘Computer vision for security applications’* talks about is the motion detection aspect. In early systems there where a large amount of false positives due to the system being unable to differ between camera shake and actual motion, along with rain and sunlight changes. The methods used to combat this were using low pass filtering to counter rain and a high pass filter to remove sunlight gradient effects and to make the image appear flatter. These filters could be used to get a range of motion frequency for a range of vehicle speeds to clean up the wake-up detection image.

*‘An Automated Vehicle License Plate Recognition System’* uses a method of weighting the pixels of a RGB image differently to produce different styles of greyscale conversion. Looking at the MATLAB documentation for im2grey it also appears to use a weighted conversion to greyscale.

15/10/2022 – new idea for detecting bounds

The standard for the UK licence plate is such that, for any given plate, there will be 7 letters enclosed within a bounded box. An idea could be to find all areas that are bounded, such as with the code seen earlier in doc, and try to find a bounded area containing 7 bounded areas within it.

16/10/2022 – testing above idea

Tried to use far and angled image for testing a worse case scenario.

![A person holding a sign

Description automatically generated with medium confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4TDKRXhpZgAATU0AKgAAAAgABAExAAIAAAALAAAQSodpAAQAAAABAAAQVoglAAQAAAABAAAgouocAAcAABAMAAAAPgAAAAAc6gAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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A black and white photo of a city at night

Description automatically generated with low confidence

Still effective, checking and all letters appear to be creating bounded zones. Interesting effect is the fisheye lens that can be seen slightly on the image above. Given that I’m using relative pixel heights for this it could be an issue.

Checking the bounding data, some interesting effects on 1080p:

Text

Description automatically generated

Both plates have clearly detectable bounded lettering, which creates 7 bounded areas. Tests at 720p also conducted:

Graphical user interface

Description automatically generated with medium confidence

Not great, pixel density is too great in some areas for plate letters to be counted as bounding areas. Seems like reducing the resolution reduces the number of pixels a fixed object size has to be represented in the image. Will try 480p with plate at closer range.



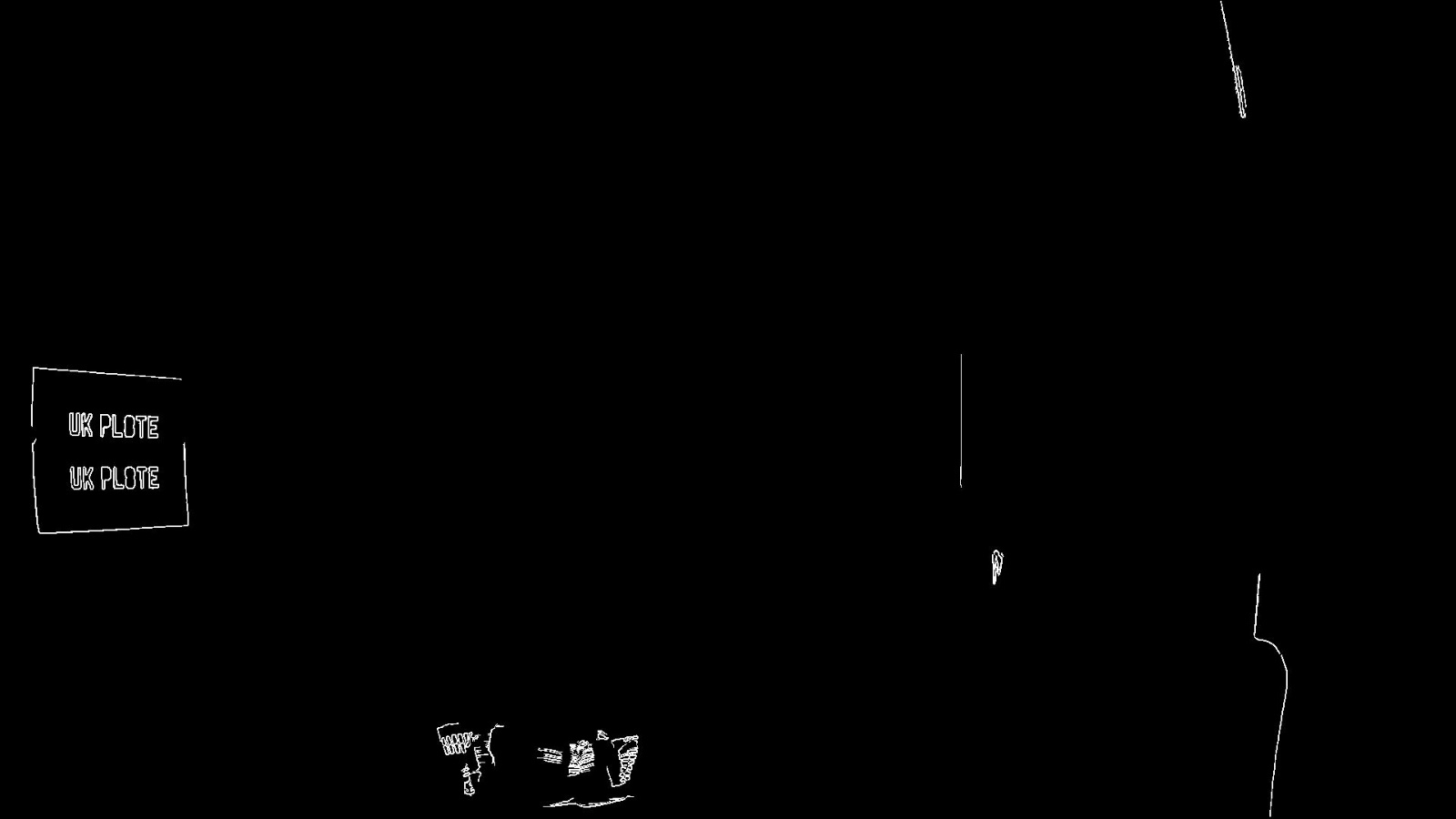
This 480p image is a closer range, hopefully better detectable.

Graphical user interface, diagram

Description automatically generated

Not much better, lettering still too pixel poor to create properly enclosed letter spaces. Notably the bounding box for the licence plate is still moderately accurate. In general I think I should aim for the highest resolution feasible when working with hardware.

Possibility of using the bwareafilt function to get all white pixel shapes that have a size within a given range:



The above is a 1080p image with filters set to take all shapes within 100-1000 pixels, not working for detection by itself but could be useful elsewhere. Problems would probably emerge as tracked plate will change pixel size across image sequence.

17/10/2022 – Video testing

Might get some more useful data if I try to work on tacking the plate across a video. Created some short footage of me walking across a room.

Found a way to split video into single frames and process those. Working on 1080p video now.

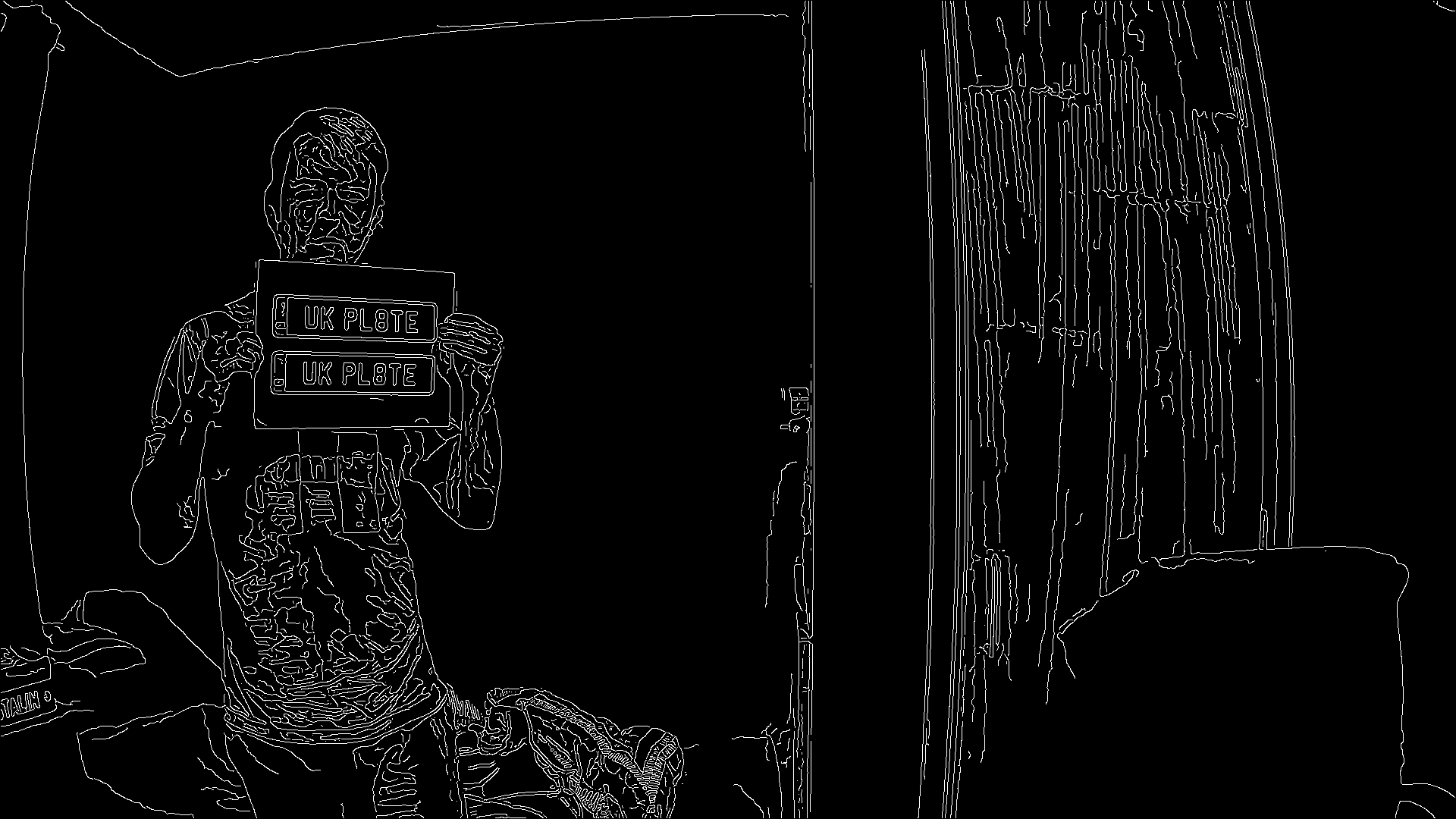
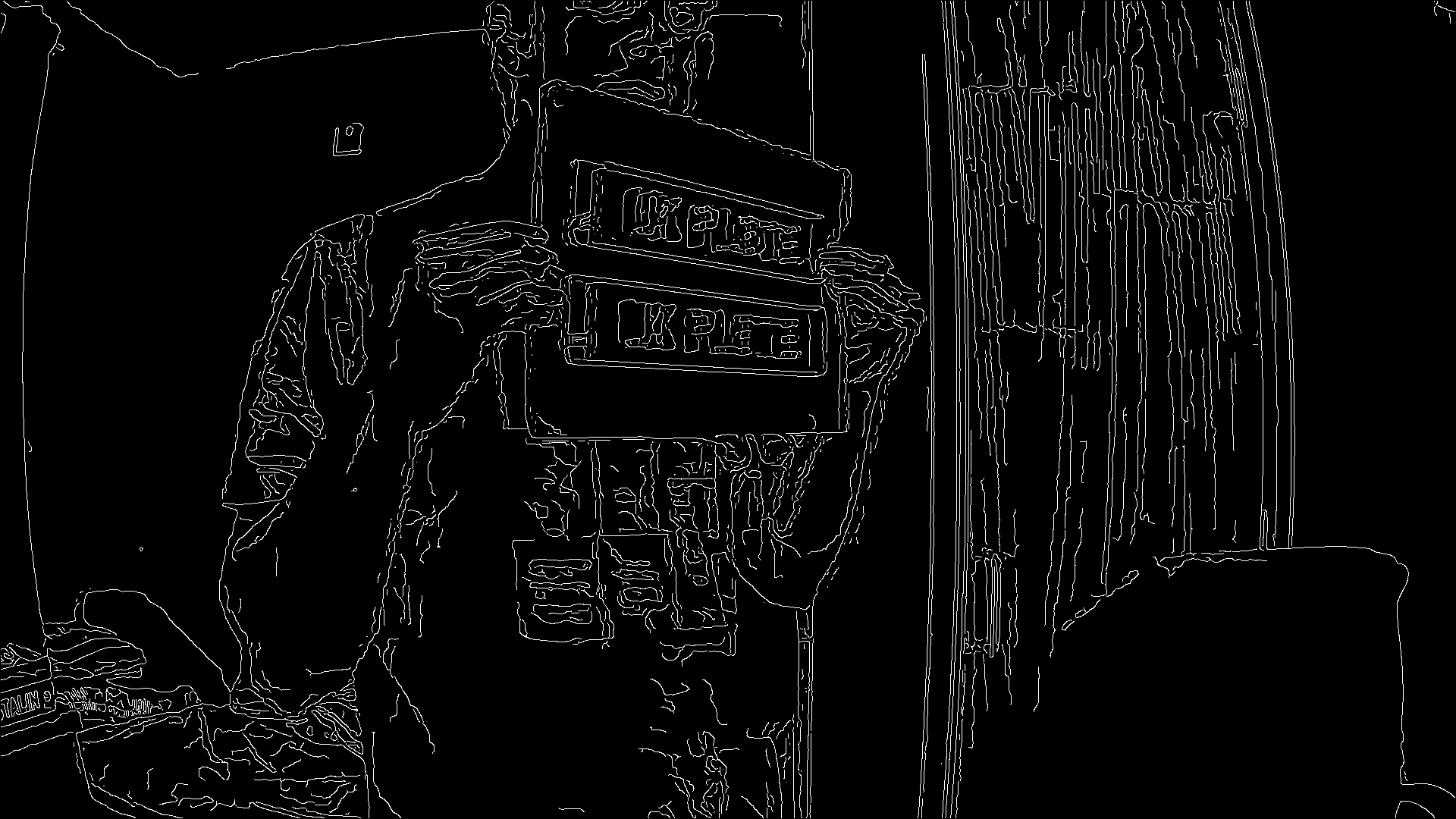


Not great, motion blur ends up being a severe problem for the system, also the angle may be too steep for the entire 

Not much better in the other direction. Maybe angle is too steep, will try to create a video simply advancing straight towards camera. Notably the processing takes a concerning long time even on desktop, hoping that most of that is MATLAB overhead and not core functionality to the algorithm.



Issue with motion can be seen quite clearly above, two images are from 10 frames apart. Motion appears to immediately destroy the edge information in the sobel filter. Could try the canny edge detection to see if any improvement is made.



Major improvement, in both image clarity while stationary as well as in motion. Some warping observed but I think understanding how the canny edge filter works is now a high priority.

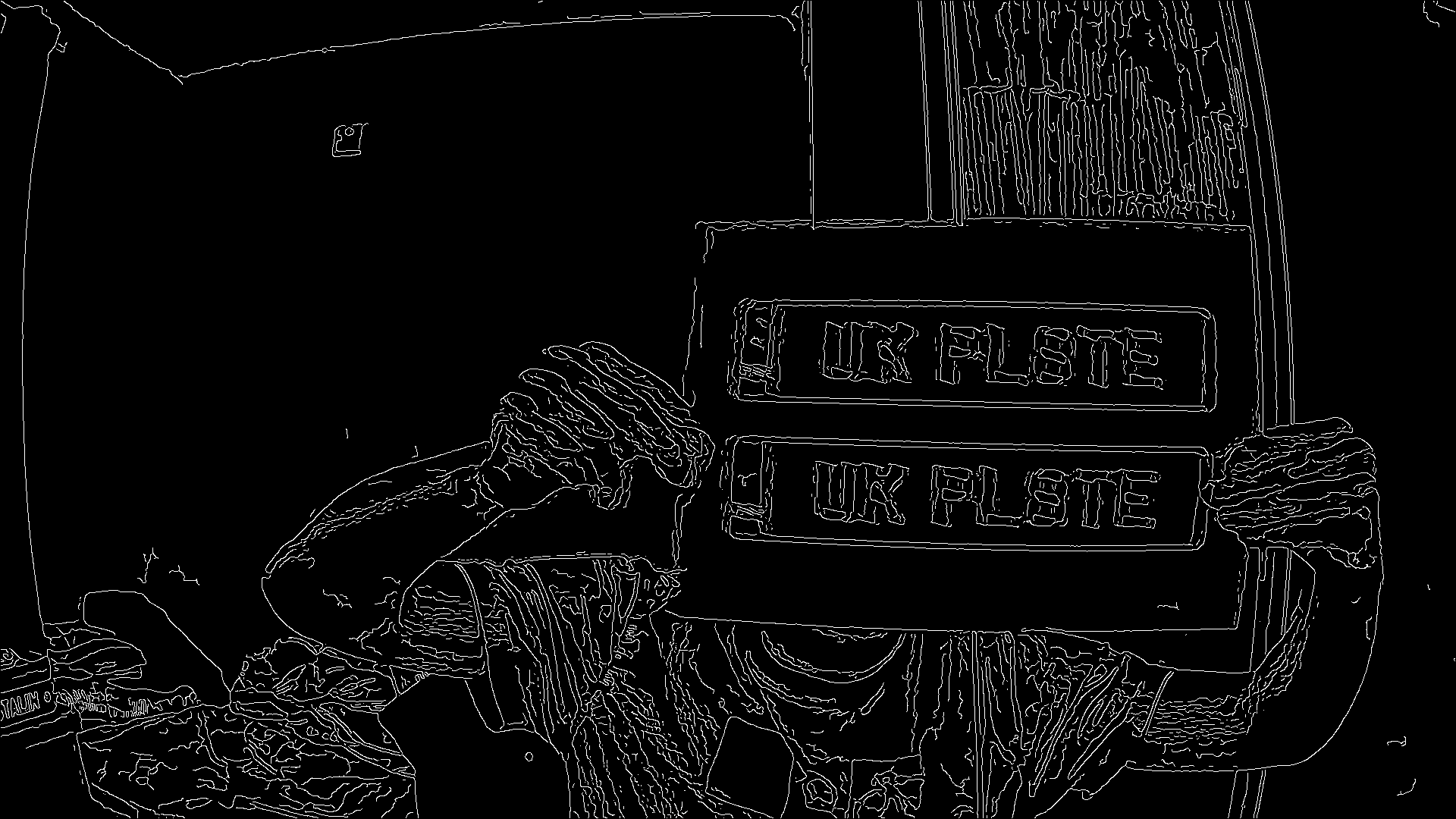


Observing the bounding data, it appears that there will still be an issue with noise from the edged image creating a mess of bounded zones. However, within the range that a plate is even detectable, there will likely be a large retention of the original shape of the plate (assuming a horizontal orientation). This could allow for looking for a specific ratio of bounded area height to width to be viable.



This image above demonstrates the effect of motion blur on my images. Having viewed images taken of speeding vehicles before, this effect is not observed. I will have to see if it is possible to correct or turn off this effect. One suggestion I have seen is to use a more robust video capture software than the windows default, such as OBS.

The above image is from OBS captured footage with MJPEG for video format, while not complete. The motion blur seems reduced.



The same image after canny edge detection seems much clearer as well. I will need to see what the result of a picture run would be for motion blur.