

LAMPIRAN

Lampiran 1. Hasil pembacaan video 1

frame_number	track_id	license_plate_number
0	1.0	A0223BH
1	1.0	A0223BH
2	1.0	A0223BH
3	1.0	A0223BH
5	1.0	S4022JB
6	1.0	S4022JB
9	1.0	S4072JB
10	3.0	O5737S9
15	1.0	S4022JE
18	1.0	S4022JB
20	1.0	S4022WB
21	1.0	A0223BH
21	3.0	E2759JT
25	1.0	A0223BH
26	3.0	J7593AA
27	1.0	A0223BY
30	1.0	A0223BY
31	3.0	J7595AA
33	1.0	A0223BU
37	3.0	J7597IN
41	3.0	J7592II
43	1.0	A0223BH
56	1.0	S4022JE
57	1.0	A0223BE
57	3.0	J7592AA
58	1.0	S4022JB
59	1.0	S4022JB
60	1.0	A0223BH
61	1.0	S4022JB
63	1.0	A0223BY
67	1.0	A0223BV
70	1.0	A0223BH
71	1.0	A0223BL
74	1.0	A0223BH
82	1.0	A0223BH
85	1.0	A0223BY

frame_number	track_id	license_plate_number
86	1.0	S4022JB
87	1.0	S4022JB
89	1.0	S4022JB
91	1.0	A0223BM
92	1.0	S4022JB
93	1.0	A0223BH
96	1.0	A0223BH
98	1.0	A0223BI
99	1.0	A0223BV
100	1.0	A0223BH
101	1.0	A0223BM
102	1.0	A0223BW
103	1.0	A0223BI
104	1.0	A0223BH
109	1.0	S4022JE
115	1.0	S4022JB
117	1.0	A0223DY
189	9.0	S7176JB
204	9.0	G1763BV
212	9.0	S1763BV
213	9.0	G1763BV
214	9.0	G1763BV
215	9.0	G1763BV
216	9.0	G1763BV
217	9.0	G1763BV
218	9.0	G1763BV
219	9.0	G1763BV
237	9.0	G1763BV
244	11.0	J2423BB
244	21.0	J2923BH
246	11.0	J2543BR
277	9.0	G1763BV
280	9.0	G1763BP
292	11.0	I0952G=
293	11.0	J2793BR
294	11.0	J2394IR
304	11.0	J2394IP
310	11.0	I4729IR
599	43.0	S7693AD

Lampiran 2 Hasil pembacaan video di area parkir

frame_number	track_id	license_plate_number
253	15.0	S0754BH
410	17.0	I7153GA
416	17.0	I5151LL
418	17.0	I7351AI
429	17.0	S3522IS
438	17.0	O5151AL
440	17.0	E5351IG
451	17.0	A6351AL
453	17.0	A6151EL
457	17.0	A6351GL
458	17.0	A6151AL
459	17.0	A6151AL
463	17.0	A6351LL
466	17.0	A6151AI
467	17.0	A6151LB
468	17.0	A6151AL
469	17.0	A6152LB
470	17.0	A6151LL
471	17.0	A6151GL
472	17.0	A6151LL
474	17.0	A6151AL
475	17.0	A6151GL
476	17.0	A6151AL
477	17.0	A6151GL
479	17.0	A6151LL
481	17.0	A6151AL
482	17.0	A6151AL
483	17.0	A6151LL
484	17.0	A6151LL
486	17.0	A6151LL
487	17.0	A6151LB
488	17.0	A6151LL
489	17.0	A6151LL
490	17.0	A6151AL
492	17.0	A6151LL
493	17.0	A6151AL
494	17.0	A6151AL
495	17.0	A6151GL
496	17.0	A6151GL

frame_number	track_id	license_plate_number
497	17.0	A6151AL
498	17.0	A6151AL
499	17.0	A6151LL
500	17.0	A6151AL
501	17.0	A6151LL
502	17.0	A6151LL
503	17.0	A6151LL
504	17.0	A6151AL
505	17.0	A6151LL
506	17.0	A6151AL
507	17.0	A6151AL
508	17.0	A6151AL
509	17.0	A6151AL
511	17.0	A6151AL
512	17.0	A6151AL
514	17.0	A6151AL
517	17.0	A6151LL
519	17.0	A6151LL
520	17.0	A6151LL
521	17.0	A6151AL
614	28.0	G7127IS
1040	58.0	O7022JB
1045	58.0	I1022JB

Lampiran 3. Nama file gambar

Nama file	Anotasi	Gambar
003c1c7d2492d39da253efcacadd051c_tn_jpeg.jpg.rf.05f9bfa539ff315752ad5877a040507c.jpg	0 0.48359375 0.4921875 0.6984375 0.696875	
003c1c7d2492d39da253efcacadd051c_tn_jpeg.jpg.rf.46d78f7d9dc22b4472ed0bec5c9cee6b.jpg	0 0.5140625 0.48828125 0.971875 0.3421875	
003c1c7d2492d39da253efcacadd051c_tn_jpeg.jpg.rf.7feb45708feb8e52220d81bf92175774.jpg	0 0.515625 0.48984375 0.9609375 0.290625	
1-415844149-Mobil-Toyota-Avanza-2022-Putih-Seken-Siap-Pakai-Jakarta Timur.jpg.rf.331e5338aa130172e88f5f97a721e0f3.jpg	0 0.1609375 0.52734375 0.1109375 0.1125	
1-415844149-Mobil-Toyota-Avanza-2022-Putih-Seken-Siap-Pakai-Jakarta-Timur.jpg.rf.62fb5d853da0262a97d7b0d32c6976e7.jpg	0 0.1734375 0.5921875 0.109375 0.0953125	

Nama file	Anotasi	Gambar
1-415844149-Mobil-Toyota-Avanza-2022-Putih-Seken-Siap-Pakai-Jakarta-Timur_jpg.rf.b5eec93cd8f04e2b37a2e2b820f4c02e.jpg	0 0.184375 0.6265625 0.084375 0.1078125	
1-mobil-pajero-sport-ditindak-polisi-karena-gunakan-pelat-rf-palsu-di-kawasan-jakarta-selatan-ist_jpg.rf.5a06c5e2baf7d7320edda7b76830bf63.jpg	0 0.61796875 0.78828125 0.2953125 0.4234375	
1-mobil-pajero-sport-ditindak-polisi-karena-gunakan-pelat-rf-palsu-di-kawasan-jakarta-selatan-ist_jpg.rf.8eed0b6c32d71aa00d0f8ca0386fd13c.jpg	0 0.54921875 0.81015625 0.365625 0.34375	
1-mobil-pajero-sport-ditindak-polisi-karena-gunakan-pelat-rf-palsu-di-kawasan-jakarta-selatan-ist_jpg.rf.f4a5678500ef25802d90a65b522a9c43.jpg	0 0.45390625 0.80390625 0.3453125 0.365625	
10d22f809f1f5013dc0835ea83ee550e_jpeg_jpg.rf.863d79dc286a562c8ea443d4e3f1556e.jpg	0 0.509375 0.2921875 0.9484375 0.346875 0 0.51328125 0.68046875 0.9640625 0.3484375	

Lampiran 4 koding (*library* yang digunakan, model, menampilkan list video dari folder vid)

```
import ast
import cv2 as cv
import easyocr
from glob import glob
import numpy as np
import pandas as pd
import string
from ultralytics import YOLO

coco_model = YOLO('yolov8n.pt')
np_model = YOLO('runs/detect/train13/weights/best.pt')

videos = glob('vid/*.mp4')
print(videos)
```

Lampiran 5 koding (format file .CSV dan membaca plat kendaraan)

```
reader = easyocr.Reader(['en'], gpu=False)

def write_csv(results, output_path):
    with open(output_path, 'w') as f:
        f.write('{} {}, {}, {}, {}, {}, {}, {}, {} \n'.format(
            'frame_number', 'track_id', 'car_bbox',
            'car_bbox_score',
            'license_plate_bbox', 'license_plate_bbox_score',
            'license_plate_number',
            'license_text_score'))

        for frame_number in results.keys():
            for track_id in results[frame_number].keys():
                print(results[frame_number][track_id])
                if 'car' in
results[frame_number][track_id].keys() and \
                    'license_plate' in
results[frame_number][track_id].keys() and \
                    'number' in
results[frame_number][track_id]['license_plate'].keys():
                    f.write('{} {}, {}, {}, {}, {}, {}, {}, {} \n'.format(
                        frame_number,
                        track_id,
                        '{} {} {}'.format(
results[frame_number][track_id]['car']['bbox'][0],
results[frame_number][track_id]['car']['bbox'][1],
results[frame_number][track_id]['car']['bbox'][2],
results[frame_number][track_id]['car']['bbox'][3]
                        ),
results[frame_number][track_id]['car']['bbox_score'],
                        '{} {} {} {}'.format(
results[frame_number][track_id]['license_plate']['bbox'][0],
results[frame_number][track_id]['license_plate']['bbox'][1],
results[frame_number][track_id]['license_plate']['bbox'][2],
results[frame_number][track_id]['license_plate']['bbox'][3]
                        ),
results[frame_number][track_id]['license_plate']['bbox_score'],
results[frame_number][track_id]['license_plate']['number'],
results[frame_number][track_id]['license_plate']['text_score'])
                    f.close()

dict_char_to_int = {'0': '0',
                    '1': '1',
                    '2': '2',
                    '3': '3',
                    '4': '4',
                    '5': '5',
                    '6': '6',
                    '7': '7',
                    '8': '8',
                    '9': '9'}
```



```

dict_int_to_char = {'0': 'O',
                    '1': 'I',
                    '3': 'J',
                    '4': 'A',
                    '6': 'G',
                    '5': 'S'}

def license_complies_format(text):
    if len(text) not in {7, 8}:
        return False
    if (text[0] in string.ascii_uppercase or text[0] in
dict_int_to_char.keys()) and \
        (text[1] in ['0', '1', '2', '3', '4', '5', '6', '7', '8',
'9'] or text[1] in dict_char_to_int.keys()) and \
        (text[2] in ['0', '1', '2', '3', '4', '5', '6', '7', '8',
'9'] or text[2] in dict_char_to_int.keys()) and \
        (text[3] in ['0', '1', '2', '3', '4', '5', '6', '7', '8',
'9'] or text[3] in dict_char_to_int.keys()) and \
        (text[4] in ['0', '1', '2', '3', '4', '5', '6', '7', '8',
'9'] or text[4] in dict_char_to_int.keys()) and \
        (text[5] in string.ascii_uppercase or text[5] in
dict_int_to_char.keys()) and \
        (text[6] in string.ascii_uppercase or text[5] in
dict_int_to_char.keys()):
        return True
    if (text[0] in string.ascii_uppercase or text[0] in
dict_int_to_char.keys()) and \
        (text[1] in ['0', '1', '2', '3', '4', '5', '6', '7', '8',
'9'] or text[1] in dict_char_to_int.keys()) and \
        (text[2] in ['0', '1', '2', '3', '4', '5', '6', '7', '8',
'9'] or text[2] in dict_char_to_int.keys()) and \
        (text[3] in ['0', '1', '2', '3', '4', '5', '6', '7', '8',
'9'] or text[3] in dict_char_to_int.keys()) and \
        (text[4] in ['0', '1', '2', '3', '4', '5', '6', '7', '8',
'9'] or text[4] in dict_char_to_int.keys()) and \
        (text[5] in string.ascii_uppercase or text[5] in
dict_int_to_char.keys()) and \
        (text[6] in string.ascii_uppercase or text[5] in
dict_int_to_char.keys()) and \
        (text[7] in string.ascii_uppercase or text[6] in
dict_int_to_char.keys()):
        return True
    else:
        return False

def format_license(text):
    license_plate_ = ''
    mapping = {0: dict_int_to_char, 5: dict_int_to_char, 6:
dict_int_to_char, 7: dict_int_to_char,
               1: dict_char_to_int, 2: dict_char_to_int, 3:
dict_char_to_int, 4: dict_char_to_int,}
    for j in [0, 1, 2, 3, 4, 5, 6]:
        if text[j] in mapping[j].keys():
            license_plate_ += mapping[j][text[j]]
        else:
            license_plate_ += text[j]
    return license_plate_

def read_license_plate(license_plate_crop):
    detections = reader.readtext(license_plate_crop)

    for detection in detections:
        bbox, text, score = detection

        text = text.upper().replace(' ', '')

```

```
        if license_complies_format(text):  
            return format_license(text), score  
    return None, None
```

Lampiran 6 koding (mendeteksi dan membaca plat kendaraan dari video ke bentuk .CSV)

```

results = {}

video = cv.VideoCapture(videos[0])

ret = True
frame_number = -1
vehicles = [2,3,5]

while ret:
    ret, frame = video.read()
    frame_number += 1
    if ret:
        results[frame_number] = {}

        detections = coco_model.track(frame, persist=True)[0]
        for detection in detections.bboxes.data.tolist():
            x1, y1, x2, y2, track_id, score, class_id =
detection
                if int(class_id) in vehicles and score > 0.5:
                    vehicle_bounding_boxes = []
                    vehicle_bounding_boxes.append([x1, y1, x2, y2,
track_id, score])
                    for bbox in vehicle_bounding_boxes:
                        print(bbox)
                        roi = frame[int(y1):int(y2),
int(x1):int(x2)]

                                license_plates = np_model(roi)[0]
                                for license_plate in
license_plates.bboxes.data.tolist():
                                    plate_x1, plate_y1, plate_x2, plate_y2,
plate_score, _ = license_plate
                                    plate = roi[int(plate_y1):int(plate_y2),
int(plate_x1):int(plate_x2)]
                                    #cv.imwrite(str(track_id) + '.jpg',
plate)

                                    plate_gray = cv.cvtColor(plate,
cv.COLOR_BGR2GRAY)
                                    _, plate_threshhold =
cv.threshold(plate_gray, 64, 255, cv.THRESH_BINARY_INV)
                                    #cv.imwrite(str(track_id) + '_gray.jpg',
plate_gray)

                                    cv.imwrite(str(track_id) +
'_thresh.jpg', plate_threshhold)
                                    np_text, np_score =
read_license_plate(plate_threshhold)
                                    if np_text is not None:
                                        results[frame_number][track_id] = {
                                            'car': {
                                                'bbox': [x1, y1, x2, y2],
                                                'bbox_score': score
                                            },
                                            'license_plate': {
                                                'bbox': [plate_x1, plate_y1,
plate_x2, plate_y2],
                                                'bbox_score': plate_score,
                                                'number': np_text,
                                                'text_score': np_score
                                            }
                                        }
}

```

```
write_csv(results, './results4.csv')  
video.release()
```

Lampiran 7 koding (memasukan hasil file .CSV ke dalam video)

```
def draw_border(img, top_left, bottom_right, color=(255, 0, 0),
thickness=2, line_length_x=200, line_length_y=200):
    x1, y1 = top_left
    x2, y2 = bottom_right

    cv.line(img, (x1, y1), (x1, y1 + line_length_y), color,
thickness)
    cv.line(img, (x1, y1), (x1 + line_length_x, y1), color,
thickness)

    cv.line(img, (x1, y2), (x1, y2 - line_length_y), color,
thickness)
    cv.line(img, (x1, y2), (x1 + line_length_x, y2), color,
thickness)

    cv.line(img, (x2, y1), (x2 - line_length_x, y1), color,
thickness)
    cv.line(img, (x2, y1), (x2, y1 + line_length_y), color,
thickness)

    cv.line(img, (x2, y2), (x2, y2 - line_length_y), color,
thickness)
    cv.line(img, (x2, y2), (x2 - line_length_x, y2), color,
thickness)

    return img

video = cv.VideoCapture(videos[3])
frame_width = int(video.get(3))
frame_height = int(video.get(4))
size = (frame_width, frame_height)

fourcc = cv.VideoWriter_fourcc(*'mp4v')
out = cv.VideoWriter('./out.mp4', fourcc, 20.0, size)

frame_number = -1
video.set(cv.CAP_PROP_POS_FRAMES, 0)

ret = True
while ret:
    ret, frame = video.read()
    frame_number += 1
    if ret:
        df_ = results[results['frame_number'] == frame_number]
        for index in range(len(df_)):
            # garis kendaraan
            vhcl_x1, vhcl_y1, vhcl_x2, vhcl_y2 =
ast.literal_eval(df_.iloc[index]['car_bbox'].replace('[', ' ',
'[').replace(' ', ' ').replace(' ', ' ').replace(' ', ' '))

            draw_border(
                frame, (int(vhcl_x1), int(vhcl_y1)),
                (int(vhcl_x2), int(vhcl_y2)), (255, 0, 0),
                2, line_length_x=200, line_length_y=200)

            # garis plat
            plate_x1, plate_y1, plate_x2, plate_y2 =
ast.literal_eval(df_.iloc[index]['license_plate_bbox'].replace(
[' ', ' '].replace(' ', ' ').replace(' ', ' ').replace(' ',
', ')))
```

```

        # region of interest
        roi = frame[int(vhcl_y1):int(vhcl_y2),
int(vhcl_x1):int(vhcl_x2)]
        cv.rectangle(roi, (int(plate_x1), int(plate_y1)),
(int(plate_x2), int(plate_y2)), (0, 0, 255), 2)

        # tulisan plat
        (text_width, text_height), _ = cv.getTextSize(
            df_.iloc[index]['license_plate_number'],
            cv.FONT_HERSHEY_SIMPLEX,
            2,
            6)

        cv.putText(
            frame,
            df_.iloc[index]['license_plate_number'],
            (int((vhcl_x2 + vhcl_x1 - text_width)/2),
int(vhcl_y1 - text_height)),
            cv.FONT_HERSHEY_SIMPLEX,
            2,
            (0, 255, 0),
            2
        )

        out.write(frame)
        frame = cv.resize(frame, (1280, 720))

    out.release()
    video.release()

```

Lampiran 8 result .CSV

frame_number	track_id	car_bbox	car_bbox_score	license_plate_bbox	license_plate_bbox_score	license_plate_number	license_text_score
253	15.0	[225.8274 23095703 12 537.89007 56835938 568.92462 15820312 1039.6527 09960937 5]	0.832080 12580871 58	[9.229954 71954345 7 132.53466 796875 137.96563 72070312 5 189.35000 61035156 2]	0.75427240 13328552	S0754BH	0.2186922 10186310 33
410	17.0	[833.1906 12792968 8 341.91717 52929687 5 1094.0130 61523437 5 557.81719 97070312]	0.847766 75701141 36	[84.39164 73388671 9 143.84907 53173828 157.48626 70898437 5 169.14250 18310547]	0.77383381 12831116	I7153GA	0.0643793 40927307 54
416	17.0	[831.8917 23632812 5 345.16326 90429687 5 1087.3596 19140625 566.62408 44726562]	0.897332 90672302 25	[75.27726 74560546 9 148.25721 74072265 6 148.20170 59326172 174.09828 18603515 6]	0.81410759 68742371	I5151LL	0.0512625 75478194 09
418	17.0	[827.5805 6640625 344.54196 16699219 1085.9947 50976562 5 569.49273 68164062]	0.890022 69506454 47	[76.00223 54125976 6 151.43064 88037109 4 150.63880 92041015 6 178.36216 73583984 4]	0.80832356 21452332	I7351AI	0.2878643 57611773 37

frame_ numbe r	trac k_i d	car_bbox	car_bbox_ score	license_pl ate_bbox	license_plat e_bbox_sco re	license_pl ate_num ber	license_te xt_score
429	17. 0	[796.0214 23339843 8 348.3705 13916015 6 1080.317 01660156 25 593.4599 609375]	0.878369 15254592 9	[80.22662 35351562 5 170.55012 51220703 161.60134 88769531 2 197.54710 38818359 4]	0.84456938 50517273	S3522IS	0.2754552 12406880 37
438	17. 0	[768.0310 66894531 2 354.6103 21044921 9 1071.294 18945312 5 616.4013 06152343 8]	0.901896 29793167 11	[85.61701 20239257 8 178.19125 36621093 8 170.97406 00585937 5 208.41166 68701172]	0.89432179 92782593	O5151AL	0.0654786 71081666 31
440	17. 0	[761.6647 94921875 356.7070 92285156 25 1068.656 73828125 622.3144 53125]	0.905736 86361312 87	[85.27361 29760742 2 180.64796 44775390 6 173.19903 56445312 5 210.57701 11083984 4]	0.86301964 52140808	E5351IG	0.0760840 66953949 62
451	17. 0	[716.9979 24804687 5 362.5336 60888671 9 1059.609 86328125 655.2941 89453125]	0.903652 01234817 5	[93.43983 45947265 6 203.07327 27050781 2 192.71865 84472656 2 235.52006 53076172]	0.85395044 08836365	A6351AL	0.3433922 29897827 4

frame_number	track_id	car_bbox	car_bbox_score	license_plate_bbox	license_plate_bbox_score	license_plate_number	license_text_score
453	17.0	[709.1611328125363.518493652343751058.291748046875662.0517578125]	0.9019314050674438	[94.88421630859375207.40286254882812191.92520141601562240.95590209960938]	0.8550876975059509	A6151EL	0.16330652092182818
457	17.0	[692.412109375366.30990600585941052.3035888671875674.5442504882812]	0.9136677384376526	[97.83980560302734216.7409210205078198.07264709472656251.64105224609375]	0.8634706735610962	A6351GL	0.24434948744267998
458	17.0	[687.8848266601562366.926269531251051.031982421875678.1150512695312]	0.914257287979126	[98.57553100585938219.90882873535156200.34564208984375254.75254821777344]	0.8685725927352905	A6151AL	0.2249985453575112
459	17.0	[682.4707641601562367.78079223632811048.8662109375683.41943359375]	0.9190496206283569	[99.06529235839844222.36207580566406201.36265563964844257.7110290527344]	0.8595762252807617	A6151AL	0.25378408158068544

frame_number	track_id	car_bbox	car_bbox_score	license_plate_bbox	license_plate_bbox_score	license_plate_number	license_text_score
463	17.0	[660.8199 462890625 369.7496 9482421875 1043.112 79296875 701.7008 666992188]	0.9293055534362793	[103.9184 7229003906 233.46511 840820312 210.78489 685058594 271.09619 140625]	0.8662515878677368	A6351LL	0.21573583557819417
466	17.0	[644.9610 595703125 371.8635 8642578125 1040.925 6591796875 714.9165 649414062]	0.9149255156517029	[106.9118 881225586 242.21203 61328125 216.65321 350097656 280.05044 55566406]	0.8846839666366577	A6151AI	0.2075612263887308
467	17.0	[640.3577 270507812 372.8246 154785156 1039.968 6279296875 717.4153 442382812]	0.9115890264511108	[105.6266 098022461 244.95785 522460938 217.72740 173339844 282.71844 482421875]	0.901934027671814	A6151LB	0.5268082871970652
468	17.0	[633.8813 4765625 374.1589 050292969 1039.140 13671875 720.9408 569335938]	0.9144117832183838	[107.9365 9973144531 246.48667 907714844 221.28564 453125 285.00637 81738281]	0.9014604687690735	A6151AL	0.42643344996979804

frame_number	track_id	car_bbox	car_bbox_score	license_plate_bbox	license_plate_bbox_score	license_plate_number	license_text_score
469	17.0	[627.55419921875374.47912597656251037.4058837890625727.0949096679688]	0.9185907244682312	[107.84371948242188250.60618591308594222.93984985351562289.5924987792969]	0.8963148593902588	A6152LB	0.5491841680484478
470	17.0	[619.6144409179688374.538024902343751035.8642578125732.2135620117188]	0.9201945662498474	[110.09561157226562254.36070251464844226.41477966308594293.21685791015625]	0.901567816734314	A6151LL	0.23854644921161447
471	17.0	[612.6561279296875375.01693725585941033.9024658203125738.5330810546875]	0.9264470338821411	[111.4561996459961258.4062805175781229.5254364013672297.3319091796875]	0.8989600539207458	A6151GL	0.30981998981320685
472	17.0	[606.0238647460938376.093200683593751031.566162109375743.095703125]	0.9315630793571472	[111.676513671875260.38018798828125229.3065185546875300.6480407714844]	0.9027572274208069	A6151LL	0.4619368329656447

frame_number	track_id	car_bbox	car_bbox_score	license_plate_bbox	license_plate_bbox_score	license_plate_number	license_text_score
474	17.0	[591.98583984375377.07217407226561028.6119384765625751.779541015625]	0.9221723675727844	[114.67549896240234268.4699401855469237.4913787841797309.43865966796875]	0.898396909236908	A6151AL	0.2461329076376876
475	17.0	[585.0584106445312379.124938964843751027.5091552734375758.1285400390625]	0.9186791181564331	[115.37774658203125270.5273742675781237.58184814453125312.07318115234375]	0.9055562615394592	A6151GL	0.38565832177025733
476	17.0	[578.5153198242188380.55233764648441025.8359375765.8695678710938]	0.9224022030830383	[116.42951965332031275.0581359863281240.86245727539062316.1719055175781]	0.905156672000885	A6151AL	0.7331406781264838
477	17.0	[571.0864868164062380.847656251024.777099609375771.4507446289062]	0.9221267104148865	[113.6125717163086279.9088134765625241.34144592285156321.01837158203125]	0.8740747570991516	A6151GL	0.29693925736738436

frame_number	track_id	car_bbox	car_bbox_score	license_plate_bbox	license_plate_bbox_score	license_plate_number	license_text_score
479	17.0	[554.9379 27246093 8 382.03250 12207031 1022.5618 89648437 5 781.25573 73046875]	0.9256372 45178222 7	[119.0760 72692871 1 286.93377 68554687 5 251.49401 85546875 329.84738 15917969]	0.88257426 02348328	A6151LL	0.9004914 9940219
481	17.0	[539.0661 62109375 384.97656 25 1017.1968 99414062 5 792.13671 875]	0.9322516 32213592 5	[119.0952 22473144 53 294.34106 4453125 253.91867 06542968 8 337.51156 61621094]	0.87878310 6803894	A6151AL	0.5262351 18862162 1
482	17.0	[532.0061 64550781 2 387.08206 17675781 1015.8549 8046875 799.08435 05859375]	0.9349042 77324676 5	[119.8896 86584472 66 296.58642 578125 256.28170 77636719 340.49792 48046875]	0.88407123 08883667	A6151AL	0.5791720 76325231 2
483	17.0	[523.0793 45703125 388.02761 84082031 1014.4804 07714843 8 804.83996 58203125]	0.9296065 56892395	[122.1844 25354003 9 300.40890 50292969 259.45684 81445312 5 344.29876 70898437 5]	0.87750619 64988708	A6151LL	0.6046443 49880095 5
484	17.0	[513.4174 8046875 389.67395 01953125 1013.4386 59667968 8 812.00030 51757812]	0.9301801 32389068 6	[124.8872 0703125 304.87475 5859375 261.93368 53027344 349.53933 71582031]	0.89159810 5430603	A6151LL	0.8799002 91023456 5

frame_number	track_id	car_bbox	car_bbox_score	license_plate_bbox	license_plate_bbox_score	license_plate_number	license_text_score
486	17.0	[495.6900 93994140 6 390.33178 7109375 1009.1504 51660156 2 824.65679 93164062]	0.9336047 76859283 4	[127.1074 52392578 12 314.61541 74804687 5 269.24578 85742187 5 360.51034 54589844]	0.90268999 33815002	A6151LL	0.6044058 94593308
487	17.0	[487.0923 46191406 25 389.58740 234375 1007.8948 97460937 5 833.12060 546875]	0.9241476 05895996 1	[128.0379 94384765 62 320.79986 57226562 5 273.09204 1015625 368.20953 36914062 5]	0.89381039 14260864	A6151LB	0.7546667 56469361 5
488	17.0	[475.5380 55419921 9 382.20443 72558594 1006.0245 36132812 5 841.24389 6484375]	0.9134565 59181213 4	[131.8338 16528320 3 335.77581 78710937 5 277.28414 91699219 382.85269 16503906]	0.87961071 72966003	A6151LL	0.6739535 01107985 9
489	17.0	[465.0975 64697265 6 376.24822 99804687 5 1005.1694 3359375 848.63531 49414062]	0.9152687 19196319 6	[133.8408 50830078 12 347.90835 57128906 279.66192 62695312 5 396.83496 09375]	0.88772356 51016235	A6151LL	0.8268633 66767013 4

frame_number	track_id	car_bbox	car_bbox_score	license_plate_bbox	license_plate_bbox_score	license_plate_number	license_text_score
490	17.0	[454.9223 02246093 75 373.82275 390625 1003.5769 65332031 2 858.45312 5]	0.912231 08768463 13	[135.2628 32641601 56 358.82894 89746094 284.93640 13671875 408.08898 92578125]	0.89859718 08433533	A6151AL	0.5613837 00014765 8
492	17.0	[431.1402 89306640 6 384.43432 6171875 996.57141 11328125 875.21667 48046875]	0.910717 90456771 85	[139.0674 59106445 3 363.02438 35449219 290.29412 84179687 5 414.99926 7578125]	0.90275722 74208069	A6151LL	0.4516018 22534401 1
493	17.0	[421.0020 44677734 4 391.26431 27441406 994.00286 86523438 883.91284 1796875]	0.916517 49610900 88	[138.3726 04370117 2 363.65850 83007812 5 293.64398 19335937 5 416.98043 82324219]	0.89098352 1938324	A6151AL	0.4119704 77753021 76
494	17.0	[408.1740 72265625 392.20578 00292969 991.25640 86914062 893.83148 19335938]	0.899135 70880889 89	[141.7937 31689453 12 370.48202 51464844 298.80191 04003906 424.60043 33496094]	0.89693057 53707886	A6151AL	0.4434242 34105604 9
495	17.0	[395.7214 66064453 1 398.56549 07226562 5 988.69097 90039062 902.60113 52539062]	0.911671 63848876 95	[143.7628 17382812 5 373.87203 97949219 305.15429 6875 425.83648 68164062 5]	0.89355379 34303284	A6151GL	0.2471993 34197405 56

frame_number	track_id	car_bbox	car_bbox_score	license_plate_bbox	license_plate_bbox_score	license_plate_number	license_text_score
496	17.0	[383.7901306152344 402.69281005859375 986.7559204101562 912.183349609375]	0.911278247833252	[144.04029846191406 378.4537048339844 308.44586181640625 431.0896911621094]	0.8846002817153931	A6151GL	0.29915889162539766
497	17.0	[369.0088195800781 406.2623596191406 983.0442504882812 922.5440063476562]	0.928208589553833	[146.987060546875 383.2564392089844 313.5712585449219 437.04290771484375]	0.8893131613731384	A6151AL	0.6204151935035278
498	17.0	[355.5832214355469 408.2708435058594 979.9064331054688 931.9947509765625]	0.920930027961731	[148.6639862060547 388.7926940917969 318.96002197265625 443.2958068847656]	0.882466197013855	A6151AL	0.4769869774450841
499	17.0	[341.6724853515625 408.3453674316406 977.6715087890625 942.2492065429688]	0.924906849861145	[151.36224365234375 397.56634521484375 324.59503173828125 452.84185791015625]	0.8700610399246216	A6151LL	0.7316772002634249

frame_number	track_id	car_bbox	car_bbox_score	license_plate_bbox	license_plate_bbox_score	license_plate_number	license_text_score
500	17.0	[324.8619079589844 408.43682861328125 975.4742431640625 952.258056640625]	0.9248559474945068	[153.5739288330078 406.8321228027344 326.50177001953125 462.2394104003906]	0.8726320862770081	A6151AL	0.30666600611331124
501	17.0	[312.4784851074219 409.85247802734375 974.8011474609375 965.1458740234375]	0.9162098169326782	[150.32852172851562 414.43499755859375 329.3058776855469 472.1968688964844]	0.8867656588554382	A6151LL	0.45240986279861667
502	17.0	[294.7421875 411.6131591796875 971.711181640625 977.8645629882812]	0.917199969291687	[153.8873748779297 422.98431396484375 337.0229797363281 479.7626953125]	0.8869415521621704	A6151LL	0.7138091773516102
503	17.0	[278.1305236816406 413.9078063964844 969.0952758789062 989.0512084960938]	0.9326652884483337	[156.1651611328125 430.84759521484375 342.5810852050781 488.8260803222656]	0.8979454040527344	A6151LL	0.7531250297519345

frame_number	track_id	car_bbox	car_bbox_score	license_plate_bbox	license_plate_bbox_score	license_plate_number	license_text_score
504	17.0	[260.9392 39501953 1 415.52706 90917969 967.15533 44726562 999.52148 4375]	0.916125 11873245 24	[159.6430 51147460 94 438.32910 15625 349.56863 40332031 496.72604 37011719]	0.88466185 3313446	A6151AL	0.3758979 29448898 44
505	17.0	[243.6529 54101562 5 418.27117 91992187 5 963.98016 35742188 1011.9015 50292968 8]	0.917289 61467742 92	[162.0187 07275390 62 445.83438 11035156 353.67904 66308594 505.59872 43652344]	0.89014869 92835999	A6151LL	0.7799714 71802712
506	17.0	[225.8811 79809570 3 419.20709 22851562 5 960.63848 87695312 1024.4428 7109375]	0.933567 16632843 02	[165.1795 80688476 56 455.40145 87402344 358.73336 79199219 517.99792 48046875]	0.88670367 00248718	A6151AL	0.5670706 43877897 5
507	17.0	[207.3394 62280273 44 420.11145 01953125 957.18731 68945312 1039.2974 85351562 5]	0.923634 05227661 13	[166.5092 7734375 467.06549 07226562 5 365.28643 79882812 5 531.92114 2578125]	0.88262581 82525635	A6151AL	0.3345199 43446128 45
508	17.0	[185.6383 81958007 8 422.42443 84765625 955.03088 37890625 1054.4586 18164062 5]	0.914612 59126663 21	[171.2473 44970703 12 476.55212 40234375 374.61215 20996094 540.14251 70898438]	0.87805068 4928894	A6151AL	0.7917351 78175248 7

frame_number	track_id	car_bbox	car_bbox_score	license_plate_bbox	license_plate_bbox_score	license_plate_number	license_text_score
509	17.0	[168.99618530273438 424.51025390625 953.5364990234375 1071.4921875]	0.921697020530707	[169.4796600341797 487.153418652344 372.0003356933594 551.5507202148438]	0.8943195939064026	A6151AL	0.7799394361232945
511	17.0	[123.42607116699219 419.9018859863281 945.7206420898438 1100.2166748046875]	0.9080331325531006	[174.7202606201172 519.2288208007812 390.7721862792969 588.8045654296875]	0.9054075479507446	A6151AL	0.7527725095268275
512	17.0	[89.52923583984375 419.1166687011719 941.3494262695312 1117.244140625]	0.8831784129142761	[188.17044067382812 534.110595703125 405.8277893066406 605.3418579101562]	0.8960768580436707	A6151AL	0.32287778000671996
514	17.0	[42.562049865722656 424.4942321777344 934.7274780273438 1152.9525146484375]	0.8419686555862427	[191.87091064453125 559.3607177734375 422.83282470703125 633.2444458007812]	0.9027826189994812	A6151AL	0.7705484466470879
517	17.0	[0.0439.6587829589844 921.4894409179688 1218.4864501953125]	0.8735859394073486	[161.846435546875 600.4140014648438 409.14862060546875 678.6725463867188]	0.8849117159843445	A6151LL	0.6895207436010812

frame _numb er	trac k_i d	car_bbox	car_bbox _score	license_pl ate_bbox	license_plat e_bbox_sco re	license_pl ate_numb er	license_tex t_score
519	17. 0	[0.0 447.21640 01464844 926.62414 55078125 1267.1209 71679687 5]	0.783213 85383605 96	[112.8976 89819335 94 627.08526 61132812 366.07110 59570312 5 712.74249 26757812]	0.89968287 9447937	A6151LL	0.6438021 126443813
520	17. 0	[0.0 447.86624 14550781 926.59783 93554688 1288.7880 859375]	0.846197 00908660 89	[86.13922 11914062 5 650.08984 375 343.08004 76074219 736.39129 63867188]	0.88701641 55960083	A6151LL	0.4958186 177975163 5
521	17. 0	[0.0 447.62933 34960937 5 918.19335 9375 1318.5126 953125]	0.728386 87896728 52	[56.15240 09704589 84 668.51977 5390625 318.40875 24414062 5 759.61334 22851562]	0.89127385 61630249	A6151AL	0.1936878 872657717 4
614	28. 0	[506.7070 3125 603.56823 73046875 808.63519 28710938 1104.8045 65429687 5]	0.850084 30480957 03	[47.73351 66931152 34 109.62134 55200195 3 174.06260 68115234 4 159.68690 49072265 6]	0.77834814 78691101	G7127IS	0.0057896 649549539 13
1040	58. 0	[258.4262 6953125 628.93774 4140625 590.78540 0390625 1096.8587 64648437 5]	0.830685 13870239 26	[23.84827 23236084 103.78086 85302734 4 135.27636 71875 157.70419 31152343 8]	0.81132751 70326233	O7022JB	0.1581986 177645876

frame_ numbe r	trac k_i d	car_bbox	car_bbox_ score	license_pl ate_bbox	license_plat e_bbox_sco re	license_pl ate_num ber	license_te xt_score
1045	58. 0	[156.0026 55029296 88 657.60894 77539062 529.21508 7890625 1188.8793 9453125]	0.8871074 91493225 1	[28.21492 00439453 12 125.71907 80639648 4 151.48336 79199218 8 184.86361 69433593 8]	0.75702297 68753052	I1022JB	0.2976904 90650355 5