**Analysis – Yolo with Camera Intel RealSense**

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|  |  |  |  |
| --- | --- | --- | --- |
| **Distance** | **5 m** | **10 m** | **25 m** |
| **Picture (front)** | [**00290ResultFrame5m.jpg**](https://gitlab.com/SeanAchtatou/finalpedestriandetection/blob/master/YOLOv3_TensorFlow-master/YOLOv3_TensorFlow-master/data/Data_RealCameraSense_Recording/Output_YOLO_Process/Output_5m/00290ResultFrame5m.jpg) | [**00190ResultFrame10m.jpg**](https://gitlab.com/SeanAchtatou/finalpedestriandetection/blob/master/YOLOv3_TensorFlow-master/YOLOv3_TensorFlow-master/data/Data_RealCameraSense_Recording/Output_YOLO_Process/Output_10m/00190ResultFrame10m.jpg) | [**00440ResultFrame25m.jpg**](https://gitlab.com/SeanAchtatou/finalpedestriandetection/blob/master/YOLOv3_TensorFlow-master/YOLOv3_TensorFlow-master/data/Data_RealCameraSense_Recording/Output_YOLO_Process/Output_25m/00440ResultFrame25m.jpg) |
| **Results distance (for quantile from 0.1 to 0.9)** | 4.823187549251379,  4.823187549251379,  4.823187549251379,  4.823187549251379,  4.823187549251379,  4.823187549251379,  5.0096982758620685,  5.203865763640515,  5.785059609951072 | 9.999380037197769,  9.999380037197769,  9.999380037197769,  9.999380037197769,  10.244028103044496,  10.244028103044496,  10.412785774767146,  10.738490566037735,  11.353260869565217 | 24.821917808219176,  25.402777777777775,  26.20415224913495,  26.20415224913495,  26.533898305084744,  26.801007556675064,  27.278761061946902,  27.980582524271846,  28.906896551724138 |
| **Best distance** | Quantile(0.8) | Quantile(0.6) | Quantile(0.2) |
| **Comment** |  |  |  |
|  |  |  |  |
| **Picture (Back)** | [**00400ResultFrame5m.jpg**](https://gitlab.com/SeanAchtatou/finalpedestriandetection/blob/master/YOLOv3_TensorFlow-master/YOLOv3_TensorFlow-master/data/Data_RealCameraSense_Recording/Output_YOLO_Process/Output_5m/00400ResultFrame5m.jpg) | [**00330ResultFrame10m.jpg**](https://gitlab.com/SeanAchtatou/finalpedestriandetection/blob/master/YOLOv3_TensorFlow-master/YOLOv3_TensorFlow-master/data/Data_RealCameraSense_Recording/Output_YOLO_Process/Output_10m/00330ResultFrame10m.jpg) | [**00697ResultFrame25m.jpg**](https://gitlab.com/SeanAchtatou/finalpedestriandetection/blob/master/YOLOv3_TensorFlow-master/YOLOv3_TensorFlow-master/data/Data_RealCameraSense_Recording/Output_YOLO_Process/Output_25m/00697ResultFrame25m.jpg) |
| **Results distance** | 4.850770925110132,  4.850770925110132,  4.850770925110132,  4.850770925110132,  4.850770925110132,  4.850770925110132,  5.010744193395481,  5.190816847945106,  5.859789750328515 | 9.999380037197769,  9.999380037197769,  9.999380037197769,  9.999380037197769,  10.244028103044496,  10.244028103044496,  10.412785774767146,  10.738490566037735,  11.353260869565217 | 24.34965034965035,  24.34965034965035,  25.14181818181818,  25.637333333333334,  25.637333333333334,  26.02672605790646,  26.439453125,  27.328358208955223,  27.80680061823802 |
| **Best distance** | Quantile(0.7) | Quantile(0.6) | Quantile(0.3) |
| **Comment** |  |  |  |
|  |  |  |  |
| **Picture (Moving)** | [**00950ResultFrame5m.jpg**](https://gitlab.com/SeanAchtatou/finalpedestriandetection/blob/master/YOLOv3_TensorFlow-master/YOLOv3_TensorFlow-master/data/Data_RealCameraSense_Recording/Output_YOLO_Process/Output_5m/00950ResultFrame5m.jpg) | **01036ResultFrame10m.jpg** | **01672ResultFrame25m.jpg** |
| **Results distance** | 4.726933185779499,  4.726933185779499,  4.726933185779499,  4.726933185779499,  4.726933185779499,  4.955510157757349,  5.194058799510004,  5.711317458858141,  7.244806288601909 | 9.991269841269842,  9.991269841269842,  10.3895292987512,  10.3895292987512,  10.8136173449981,  11.287793582533906,  12.166762013729977,  13.92096048024012,  17.906562847608452 | 22.796610169491526,  23.452380952380953,  24.490039840637447,  25.48493975903614,  26.600961538461537,  27.751012145748987,  29.214904679376083,  30.937689969604865,  33.22027027027027 |
| **Best distance** | Quantile(0.7) | Quantile(0.4) | Quantile(0.4) |
| **Comment** |  |  |  |
|  |  |  |  |
| **Picture (On knee)** | [**00600ResultFrame5m.jpg**](https://gitlab.com/SeanAchtatou/finalpedestriandetection/blob/master/YOLOv3_TensorFlow-master/YOLOv3_TensorFlow-master/data/Data_RealCameraSense_Recording/Output_YOLO_Process/Output_5m/00600ResultFrame5m.jpg) | [**00470ResultFrame10m.jpg**](https://gitlab.com/SeanAchtatou/finalpedestriandetection/blob/master/YOLOv3_TensorFlow-master/YOLOv3_TensorFlow-master/data/Data_RealCameraSense_Recording/Output_YOLO_Process/Output_10m/00470ResultFrame10m.jpg) | **01380ResultFrame25m.jpg** |
| **Results distance** | 4.855111800439447,  4.855111800439447,  4.855111800439447,  4.855111800439447,  4.855111800439447,  4.855111800439447,  4.98019801980198,  5.1284294664074315,  6.01058201058201 | 9.98736059479554,  9.98736059479554,  9.98736059479554,  9.98736059479554,  10.21317157712305,  10.405670103092785,  10.713163972286374,  11.382822085889572,  12.913679590343818 | 25.0,  25.685714285714287,  25.685714285714287,  26.08910891089109,  26.418032786885245,  26.5390625,  27.282051282051285,  27.646706586826344,  28.442105263157895 |
| **Best distance** | Quantile(0.8) | Quantile(0.5) | Quantile(0.2) |
| **Comment** |  |  |  |
|  |  |  |  |
| **Picture (Side)** | [**00345ResultFrame5m.jpg**](https://gitlab.com/SeanAchtatou/finalpedestriandetection/blob/master/YOLOv3_TensorFlow-master/YOLOv3_TensorFlow-master/data/Data_RealCameraSense_Recording/Output_YOLO_Process/Output_5m/00345ResultFrame5m.jpg) | [**00223ResultFrame10m.jpg**](https://gitlab.com/SeanAchtatou/finalpedestriandetection/blob/master/YOLOv3_TensorFlow-master/YOLOv3_TensorFlow-master/data/Data_RealCameraSense_Recording/Output_YOLO_Process/Output_10m/00223ResultFrame10m.jpg) | [**00794ResultFrame25m.jpg**](https://gitlab.com/SeanAchtatou/finalpedestriandetection/blob/master/YOLOv3_TensorFlow-master/YOLOv3_TensorFlow-master/data/Data_RealCameraSense_Recording/Output_YOLO_Process/Output_25m/00794ResultFrame25m.jpg) |
| **Results distance** | 4.845340050377834,  4.845340050377834,  4.845340050377834,  4.845340050377834,  4.845340050377834,  5.017293125625268,  5.017293125625268,  5.371181199752628,  6.41 | 9.994174757281554,  9.994174757281554,  10.500963391136802,  10.500963391136802,  10.876534296028881,  10.876534296028881,  11.344685848502643,  11.677628032345014,  12.403696498054474 | 26.25423728813559,  26.842696629213485,  27.863636363636367,  29.7035175879397,  30.230769230769234,  31.401486988847584,  32.4983922829582,  33.29154518950437,  34.41343669250646 |
| **Best distance** | Quantile(0.8) | Quantile(0.4) | Quantile(0.1) |
| **Comment** |  |  |  |
|  |  |  |  |
| **Picture (No detection)** | **00735ResultFrame5m.jpg** | [**00700ResultFrame10m.jpg**](https://gitlab.com/SeanAchtatou/finalpedestriandetection/blob/master/YOLOv3_TensorFlow-master/YOLOv3_TensorFlow-master/data/Data_RealCameraSense_Recording/Output_YOLO_Process/Output_10m/00700ResultFrame10m.jpg) | **01500ResultFrame25m.jpg** |
| **Results distance** | **/** | **/** | **/** |
| **Best distance** | **/** | **/** | **/** |
| **Comment** |  |  |  |
|  |  |  |  |
| **Picture (Star)** | **01035ResultFrame5m.jpg** | [**00804ResultFrame10m.jpg**](https://gitlab.com/SeanAchtatou/finalpedestriandetection/blob/master/YOLOv3_TensorFlow-master/YOLOv3_TensorFlow-master/data/Data_RealCameraSense_Recording/Output_YOLO_Process/Output_10m/00804ResultFrame10m.jpg) | [**00869ResultFrame25m.jpg**](https://gitlab.com/SeanAchtatou/finalpedestriandetection/blob/master/YOLOv3_TensorFlow-master/YOLOv3_TensorFlow-master/data/Data_RealCameraSense_Recording/Output_YOLO_Process/Output_25m/00869ResultFrame25m.jpg) |
| **Results distance** | 4.660773149535511,  4.660773149535511,  4.660773149535511,  4.993619576640144,  5.2422070235433385,  5.5872941452265135,  6.515124062610096,  8.035931355023239,  10.446815261362735 | 9.992366412213741,  9.992366412213741,  10.454750281637251,  10.729153798641136,  11.026040268456377,  11.531228551818806,  12.422868217054262,  13.399583043780403,  15.17983609092315 | 24.657342657342657,  25.346938775510203,  25.817518248175183,  25.817518248175183,  26.496441281138793,  26.995290423861853,  27.974934036939317,  28.62469733656174,  29.894962486602356 |
| **Best distance** | Quantile(0.6) | Quantile(0.3) | Quantile(0.3) |
| **Comment** |  |  |  |
|  |  |  |  |
| **AVERAGE** | **0.7** | **0.5** | **0.3** |
| **BEST** | **0.5** | | |