Yolov8 25 epochs

Model summary (fused): 168 layers, 11128293 parameters, 0 gradients, 28.5 GFLOPs

Class Images Instances Box(P R mAP50 mAP50-95): 100% 6/6 [00:14<00:00, 2.38s/it]

all 174 1283 0.325 0.269 0.209 0.139

Bird Drop 174 234 0.23 0.265 0.15 0.0552

Defective 174 219 0.438 0.584 0.397 0.308

Dusty 174 158 0.238 0.154 0.157 0.108

Electrical Damage 174 48 0.272 0.125 0.106 0.0541

Non Defective 174 296 0.363 0.564 0.443 0.312

Physical Damage 174 178 0.578 0.152 0.177 0.115

Snow 174 150 0.152 0.04 0.0346 0.0172

Speed: 1.0ms preprocess, 8.2ms inference, 0.0ms loss, 11.5ms postprocess per image

YOLOv8 epoch30

Model summary (fused): 168 layers, 11128293 parameters, 0 gradients, 28.5 GFLOPs

Class Images Instances Box(P R mAP50 mAP50-95): 100% 6/6 [00:12<00:00, 2.12s/it]

all 174 1283 0.298 0.292 0.203 0.137

Bird Drop 174 234 0.246 0.205 0.14 0.0553

Defective 174 219 0.419 0.594 0.379 0.295

Dusty 174 158 0.245 0.342 0.169 0.106

Electrical Damage 174 48 0.163 0.125 0.126 0.0872

Non Defective 174 296 0.417 0.493 0.369 0.266

Physical Damage 174 178 0.49 0.191 0.195 0.124

Snow 174 150 0.107 0.0933 0.0424 0.0225

YOLOv8 epoch 35

Model summary (fused): 168 layers, 11128293 parameters, 0 gradients, 28.5 GFLOPs

Class Images Instances Box(P R mAP50 mAP50-95): 100% 6/6 [00:12<00:00, 2.05s/it]

all 174 1283 0.295 0.286 0.202 0.136

Bird Drop 174 234 0.259 0.244 0.15 0.0576

Defective 174 219 0.343 0.616 0.452 0.343

Dusty 174 158 0.203 0.323 0.126 0.0839

Electrical Damage 174 48 0.315 0.125 0.113 0.0647

Non Defective 174 296 0.431 0.486 0.36 0.257

Physical Damage 174 178 0.42 0.157 0.171 0.122

Snow 174 150 0.0963 0.0533 0.0444 0.023

Speed: 0.8ms preprocess, 9.0ms inference, 0.0ms loss, 12.1ms postprocess per image

Model yolov8 epochs 50

Model summary (fused): 168 layers, 11128293 parameters, 0 gradients, 28.5 GFLOPs

Class Images Instances Box(P R mAP50 mAP50-95): 100% 5/5 [00:10<00:00, 2.09s/it]

all 158 413 0.505 0.404 0.402 0.323

Bird Drop 158 52 0 0 0.00966 0.00325

Defective 158 149 0.747 0.826 0.829 0.773

Dusty 158 26 0.345 0.269 0.23 0.212

Electrical Damage 158 23 0.661 0.348 0.348 0.215

Non Defective 158 70 0.716 0.757 0.786 0.631

Physical Damage 158 71 0.627 0.352 0.387 0.318

Snow 158 22 0.441 0.273 0.223 0.11