Video Processing Summary Report

1. Object Detection Statistics

Class	Count	Confidence Distribution	
bike	120.0-0.	2: 0, 0.2-0.4: 7, 0.4-0.6: 4, 0.6-0.8: 1, 0.8	1.0: 0
bus	00.0-0.	2: 0, 0.2-0.4: 0, 0.4-0.6: 0, 0.6-0.8: 0, 0.8-	1.0: 0
car	0.0 -3 72290, 0.	2-0.4: 1186, 0.4-0.6: 1200, 0.6-0.8: 1027	0.8-1.0: 316
traffic_sign	2 4 24-4 .2: (, 0.2-0.4: 9, 0.4-0.6: 1, 0.6-0.8: 2315, 0.8	-1.0: 119
traffic_light	00.0-0.	2: 0, 0.2-0.4: 0, 0.4-0.6: 0, 0.6-0.8: 0, 0.8-	1.0: 0
truck	20.0-0.	2: 0, 0.2-0.4: 2, 0.4-0.6: 0, 0.6-0.8: 0, 0.8	1.0: 0

2. Lane Detection Statistics

Metric	Value
Total Lane Detections	1217
Average Lane Width	0
Lane Departure Count	0
Average Steering Angle	7.113314101345353

3. Speed Analysis

Metric	Value
Average Vehicle Speed	2.7857715637670486
Maximum Speed Detected	184.46624505568457
Speed Violation Count	25

4. Traffic Analysis

Metric	Value

Average Traffic Density	3.0632183908046002
Maximum Traffic Density	10
Traffic Jam Duration	0

5. Processing Performance

Metric	Value
Total Frames Processed	1217
Average FPS	11.654079425853054
Processing Time	104.34114575386047

6. Self-Driving Performance Analysis

Lane Keeping Performance

Metric	Value
Lane Centering Accuracy	0.0%
Lane Departure Events	0
Average Lane Position Error	16.5 pixels

Steering Behavior

Metric	Value
Average Steering Angle	7.1°
Steering Smoothness	0.0%
Sharp Turns	0

Safety Metrics

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Collision Warnings	0
Safe Distance Violations	0
Emergency Maneuvers	0

System Reliability

Metric	Value
Lane Detection Success Rate	99.9%
Object Detection Success Rate	99.9%
System Uptime	100.0%