

1. Test Summary

1.1 Prerequisites

Installation Conditions:

- (1) DMS Camera: Install the DMS camera within a 30° angle to the driver's front right. The smaller the angle, the better. The recommended distance from the camera to the driver's face is 60–120 cm, with an optimal distance of about 80 cm. The driver's face should be centered in the camera's midline, with the upper chest visible and no obstructions.
- (2) ADAS Camera: Vehicle body parameters and installation distances must be accurately measured and configured. For calibration, ensure the road ahead is straight and level, with no uphill, downhill, or curved sections. The calibration line's center should align with the lane midpoint and the horizon, and the sky should occupy the top half of the frame.

Test Conditions:

- (1) Phone Use: The driver faces forward and holds a phone to their ear for longer than the set action duration.
- (2) Smoking: The driver faces forward, holds a cigarette, or places a cigarette with the tip pointing down in their mouth for longer than the set action duration.
- (3) Yawning: The driver faces forward and opens their mouth wide for longer than the set action duration.
- (4) Eye Closure: The driver faces forward and closes their eyes for longer than the set action duration.
- (5) Face Loss: After successful calibration, the driver's face is out of the camera's field of view for longer than the set action duration.
- (6) Face Calibration Anomaly: The driver's face fails to be recognized.
- (7) Sustained Eye Closure: The driver faces forward and keeps their eyes closed for longer than the set action duration.
- (8) Frame Obstruction: The camera's view is blocked for longer than the set action duration.
- (9) Sunglasses Obstruction: The driver faces forward and wears sunglasses for longer than the set action duration.
- (10) Forward Collision and Close Following Distance: The vehicle reaches the set activation speed and continues to approach the vehicle ahead until the calculated pre-collision time is reached.

- (11) Lane Departure: On roads with clear lane markings, the vehicle departs or changes lanes until the distance between the wheel and the lane line reaches the set threshold.
- (12) Front Vehicle Start: The distance to the vehicle ahead, its stationary time, and its movement distance all meet the set values.

1.2 Test Results

Vehicle Type	Sedan	Test Weather	Clear day or night	Test Roads	Highway/urban roads Address: XXXXXXXXXXXXXX	DMS Installation	Dash-board or Wind-shield	Tester	Xian Zhaoya n	Test Date	2025/04/ 14-17
Device Model: JC371											
Lab Tests											
Algorithm	Action	Test Count	True Positives	False Positives	Missed Detections	Accuracy	False Positive Rate (FPR)	False Negative Rate (FNR)			
DMS	Phone Use	50	50	7	0	87.7%	12.3%	0.0%			
	Smoking	27	27	10	0	73.0%	27.0%	0.0%			
	Yawning	22	14	0	8	63.6%	0.0%	36.4%			
	Eye Closure	40	40	0	0	100.0%	0.0%	0.0%			
	Looking Around	30	30	0	0	100.0%	0.0%	0.0%			
	Looking Down	25	25	0	0	100.0%	0.0%	0.0%			
	Face Loss	48	40	1	8	81.6%	2.0%	16.3%			
	Face Calibration Anomaly	10	9	0	1	90.0%	0.0%	10.0%			
	Sustained Eye Closure	40	40	0	0	100.0%	0.0%	0.0%			
	Frame Obstruction	20	3	0	17	15.0%	0.0%	85.0%			
Sunglasses Obstruction	30	30	0	0	100.0%	0.0%	0.0%				
ADAS	Forward Collision	26	25	4	1	83.3%	13.3%	3.3%			
	Close Following Distance	31	31	0	0	100.0%	0.0%	0.0%			
	Lane Departure	28	27	2	1	90.0%	6.7%	3.3%			
	Front Vehicle Start	/	/	/	/	#VALUE!	#VALUE!	#VALUE!			
	Pedestrian Warning	16	16	0	0	100.0%	0.0%	0.0%			

Road Tests								
Algorithm	Action	Test Count	True Positives	False Positives	Missed Detections	Accuracy	False Positive Rate (FPR)	False Negative Rate (FNR)
DMS	Phone Use	80	67	9	13	75.3%	10.1%	14.6%
	Smoking	80	36	17	44	37.1%	17.5%	45.4%
	Yawning	80	40	0	40	50.0%	0.0%	50.0%
	Eye Closure	120	120	6	0	95.2%	4.8%	0.0%
	Looking Around	160	33	8	127	19.6%	4.8%	75.6%
	Looking Down	80	4	0	76	5.0%	0.0%	95.0%
	Face Loss	80	39	0	41	48.8%	0.0%	51.3%
	Face Calibration Anomaly	40	23	0	17	57.5%	0.0%	42.5%
	Sustained Eye Closure	120	119	0	1	99.2%	0.0%	0.8%
	Frame Obstruction	80	79	0	1	98.8%	0.0%	1.3%
	Sunglasses Obstruction	40	40	0	0	100.0%	0.0%	0.0%
ADAS	Forward Collision	14	12	0	2	85.7%	0.0%	14.3%
	Close Following Distance	15	13	0	2	86.7%	0.0%	13.3%
	Lane Departure	40	40	0	0	100.0%	0.0%	0.0%
	Front Vehicle Start	/	/	/	/	#VALUE!	#VALUE!	#VALUE!
	Pedestrian Warning	40	37	0	3	92.5%	0.0%	7.5%

1.3 Test Result Evaluation

- (1) Beards: A dense beard may cause false alerts for other events (e.g., sunlight falsely triggering a phone use alert). Smoking may not trigger a smoking alert and may instead trigger a phone use alert. It may also fail to trigger a yawning alert.
- (2) Eye Closure: Rapid blinking may occasionally cause a false eye closure alert.
- (3) Looking Around: Alert sensitivity is highly dependent on the camera's installation angle. If the camera is on the driver's left, a rightward head turn may not trigger the alert unless the angle exceeds approximately 90°.
- (4) Looking Down: The alert is difficult to trigger when the driver wears a hat or has a thick beard. It is also insensitive to both small and large head-down angles, making it difficult to find a reliable trigger angle.

- (5) Face Loss: The alert does not trigger when rear passengers are detected. Other DMS events are still detected normally in this case.
- (6) Face Calibration Anomaly: After initially detecting and then losing the driver's face, the system sometimes reports face loss continuously instead of triggering the calibration failure alert after one minute.
- (7) Forward Collision and Close Following Distance: Alerts did not trigger promptly based on the estimated time to collision. They only triggered at very close distances, such as within 15 meters of the vehicle ahead.
- (8) Front Vehicle Start: This alert rarely triggers and is currently not being validated.

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False Positives											
Wearing a hat without leaving frame											

2.2 Face Loss Detection

- Prerequisite: DMS calibration is successful.
- Parameters: The DMS activates at speeds >30km/h. An alert triggers if the driver’s face leaves the detection frame for more than 10s seconds after calibration is successful.
- Test Procedure: First, verify if the face loss alert can be triggered. If it cannot, terminate the validation. If it can, proceed with the test scenarios below.
- Test Criteria: Accuracy ≥85%, and false alert rate ≤15%.

Test Results

True Positives											
Test Scenario	1	2	3	4	5	6	7	8	9	10	Total
Dashboard install + Daytime: No rear passengers, face leaves detection frame for > 10s	1	1	1	1	1	1	1	1	1	1	39
Dashboard install + Nighttime: No rear passengers, face leaves detection frame for > 10s	1	1	1	1	1	1	1	1	1	1	
Dashboard install + Daytime: With rear passengers, face leaves detection frame for > 10s	N/A (No trigger expected)										
Dashboard install + Nighttime: With rear passengers, face leaves detection frame for > 10s	N/A (No trigger expected)										
Windshield install + Daytime: No rear passengers, face leaves detection frame for > 10s	1	1	1	1	1	1	1	0	1	1	
Windshield install + Nighttime: No rear passengers, face leaves detection frame for > 10s	1	1	1	1	1	1	1	1	1	1	
Windshield install + Daytime: With rear passengers, face leaves detection frame for > 10s	N/A (No trigger expected)										
Windshield install + Nighttime: With rear passengers, face leaves detection frame for > 10s	N/A (No trigger expected)										

False Positives											
Test Scenario	1	2	3	4	5	6	7	8	9	10	Total
Dashboard install + Daytime: Maintaining forward gaze for 10s	0	0	0	0	0	0	0	0	0	0	0
Dashboard install + Daytime: Frequent nose touching for 10s	0	0	0	0	0	0	0	0	0	0	
Dashboard install + Daytime: Looking around for 10s	0	0	0	0	0	0	0	0	0	0	
Dashboard install + Nighttime: Maintaining forward gaze for 10s	0	0	0	0	0	0	0	0	0	0	
Dashboard install + Nighttime: Frequent nose touching for 10s	0	0	0	0	0	0	0	0	0	0	
Dashboard install + Nighttime: Looking around for 10s	0	0	0	0	0	0	0	0	0	0	
Windshield install + Daytime: Maintaining forward gaze for 10s	0	0	0	0	0	0	0	0	0	0	
Windshield install + Daytime: Frequent nose touching for 10s	0	0	0	0	0	0	0	0	0	0	
Windshield install + Daytime: Looking around for 10s	0	0	0	0	0	0	0	0	0	0	
Windshield install + Nighttime: Maintaining forward gaze for 10s	0	0	0	0	0	0	0	0	0	0	
Windshield install + Nighttime: Frequent nose touching for 10s	0	0	0	0	0	0	0	0	0	0	
Windshield install + Nighttime: Looking around for 10s	0	0	0	0	0	0	0	0	0	0	

2.3 Sustained Eye Closure

- Prerequisite: DMS calibration is successful.
- Parameters: The DMS activates at speeds >30 km/h. An alert triggers when the driver's eyes are continuously closed for more than 5 seconds.
- Test Procedure: First, verify if the sustained eye closure alert can be triggered. If it cannot, terminate the validation. If it can, proceed with the test scenarios below.
- Test Criteria: Accuracy $\geq 85\%$, and false alert rate $\leq 15\%$.

Test Results

True Positives											
Test Scenario	1	2	3	4	5	6	7	8	9	10	Total
Dashboard install + Daytime: Wearing glasses, eyes closed for 5s	N/A										119
Dashboard install + Daytime: Wearing a beard, eyes closed for 5s	1	1	1	1	1	1	0	1	1	1	

False Positives										
Dashboard install + Daytime: Wearing glasses , not blinking for 3s	N/A									
Dashboard install + Daytime: Wearing a beard, not blinking for 3s	0	0	0	0	0	0	0	0	0	0
Dashboard install + Daytime: Wearing a mask, not blinking for 3s	0	0	0	0	0	0	0	0	0	0
Dashboard install + Daytime: Wearing a hat, not blinking for 3s	0	0	0	0	0	0	0	0	0	0
Dashboard install + Daytime: Wearing glasses with rapid blinking for 3s	N/A									
Dashboard install + Daytime: Wearing a beard with rapid blinking for 3s	0	0	0	0	0	0	0	0	0	0
Dashboard install + Daytime: Wearing a mask with rapid blinking for 3s	0	0	0	0	0	0	0	0	0	0
Dashboard install + Daytime: Wearing a hat with rapid blinking for 3s	0	0	0	0	0	0	0	0	0	0
Dashboard install + Nighttime: Wearing glasses , not blinking for 3s	N/A									
Dashboard install + Nighttime: Wearing a beard, not blinking for 3s	0	0	0	0	0	0	0	0	0	0
Dashboard install + Nighttime: Wearing a mask, not blinking for 3s	0	0	0	0	0	0	0	0	0	0
Dashboard install + Nighttime: Wearing a hat, not blinking for 3s	0	0	0	0	0	0	0	0	0	0
Dashboard install + Nighttime: Wearing glasses with rapid blinking for 3s	N/A									
Dashboard install + Nighttime: Wearing a beard with rapid blinking for 3s	0	0	0	0	0	0	0	0	0	0
Dashboard install + Nighttime: Wearing a mask with rapid blinking for 3s	0	0	0	0	0	0	0	0	0	0
Dashboard install + Nighttime: Wearing a hat with rapid blinking for 3s	0	0	0	0	0	0	0	0	0	0
Windshield install + Daytime: Wearing glasses, not blinking for 3s	N/A									
Windshield install + Daytime: Wearing a beard, not blinking for 3s	0	0	0	0	0	0	0	0	0	0
Windshield install + Daytime: Wearing a mask, not blinking for 3s	0	0	0	0	0	0	0	0	0	0
Windshield install + Daytime: Wearing a hat, not blinking for 3s	0	0	0	0	0	0	0	0	0	0
Windshield install + Daytime: Wearing glasses , not blinking for 3s	N/A									
Windshield install + Daytime: Wearing a beard with rapid blinking for 3s	0	0	0	0	0	0	0	0	0	0
Windshield install + Daytime: Wearing a mask with rapid blinking for 3s	0	0	0	0	0	0	0	0	0	0
Windshield install + Daytime: Wearing a hat with rapid blinking for 3s	0	0	1	0	0	0	0	1	0	0
Windshield install + Nighttime: Wearing glasses, not blinking for 3s	N/A									
Windshield install + Nighttime: Wearing a beard, not blinking for 3s	0	0	0	0	0	0	0	0	0	0
Windshield install + Nighttime: Wearing a mask, not blinking for 3s	0	0	0	0	0	0	0	0	0	0
Windshield install + Nighttime: Wearing a hat, not blinking for 3s	0	0	0	0	0	0	0	0	0	0
Windshield install + Nighttime: Wearing glasses with rapid blinking for 3s	N/A									
Windshield install + Nighttime: Wearing a beard with rapid blinking for 3s	0	1	1	0	0	0	1	0	0	0

False Positives											
Test Scenario	1	2	3	4	5	6	7	8	9	10	Total
Dashboard install + Daytime: Speaking normally for 3s	0	0	0	0	0	0	0	0	0	0	0
Dashboard install + Daytime: Eating for 3s	0	0	0	0	0	0	0	0	0	0	
Dashboard install + Nighttime: Speaking normally for 3s	0	0	0	0	0	0	0	0	0	0	
Dashboard install + Nighttime: Eating for 3s	0	0	0	0	0	0	0	0	0	0	
Windshield install + Daytime: Speaking normally for 3s	0	0	0	0	0	0	0	0	0	0	
Windshield install + Daytime: Eating for 3s	0	0	0	0	0	0	0	0	0	0	
Windshield install + Nighttime: Speaking normally for 3s	0	0	0	0	0	0	0	0	0	0	
Windshield install + Nighttime: Eating for 3s	0	0	0	0	0	0	0	0	0	0	

2.6 Looking Around

- Prerequisite: DMS calibration is successful.
- Parameters: The DMS activates at speeds >30 km/h. An alert triggers if the driver's head is turned left or right (tentative angle: 45°–75°) for more than 3 seconds.
- Test Procedure: First, verify if the looking around alert can be triggered. If it cannot, terminate the validation. If it can, proceed with the test scenarios below.
- Test Criteria: Accuracy \geq 85%, and false alert rate \leq 15%.

Test Results

True Positives												
Test Scenario	1	2	3	4	5	6	7	8	9	10	Total	
Dashboard install + Daytime: Wearing glasses and looking left for 3s	N/A											33
Dashboard install + Daytime: Wearing a beard and looking left for 3s	0	0	0	0	0	0	0	1	0	0		
Dashboard install + Daytime: Wearing a hat and looking left for 3s	1	1	0	1	1	1	0	1	1	0		
Dashboard install + Daytime: Wearing glasses and looking right for 3s	N/A											
Dashboard install + Daytime: Wearing a beard and looking right for 3s	N/A (Requires \geq 90° head turn)											

True Positives										
Dashboard install + Daytime: Wearing a hat and looking right for 3s										
Dashboard install + Nighttime: Wearing glasses and looking left for 3s	N/A									
Dashboard install + Nighttime: Wearing a beard and looking left for 3s	1	0	0	1	0	0	0	0	1	0
Dashboard install + Nighttime: Wearing a hat and looking left for 3s	0	0	1	0	0	0	1	1	0	1
Dashboard install + Nighttime: Wearing glasses and looking right for 3s	N/A									
Dashboard install + Nighttime: Wearing a beard and looking right for 3s	N/A (Requires $\geq 90^\circ$ head turn)									
Dashboard install + Nighttime: Wearing a hat and looking right for 3s										
Windshield install + Daytime: Wearing glasses and looking left for 3s	N/A									
Windshield install + Daytime: Wearing a beard and looking left for 3s	0	0	0	0	0	0	0	0	0	0
Windshield install + Daytime: Wearing a hat and looking left for 3s	1	0	1	1	1	1	1	0	1	0
Windshield install + Daytime: Wearing glasses and looking right for 3s	N/A									
Windshield install + Daytime: Wearing a beard and looking right for 3s	1	0	1	1	0	1	0	1	0	1
Windshield install + Daytime: Wearing a hat and looking right for 3s	1	0	0	1	0	1	1	0	1	0
Windshield install + Nighttime: Wearing glasses and looking left for 3s	N/A									
Windshield install + Nighttime: Wearing a beard and looking left for 3s	N/A (Temporarily suspended)									
Windshield install + Nighttime: Wearing a hat and looking left for 3s										
Windshield install + Nighttime: Wearing glasses and looking right for 3s	N/A									
Windshield install + Nighttime: Wearing a beard and looking right for 3s	N/A (Temporarily suspended)									
Windshield install + Nighttime: Wearing a hat and looking right for 3s										

False Positives											
Test Scenario	1	2	3	4	5	6	7	8	9	10	Total
Dashboard install + Daytime: Gazing forward for 3s	0	0	0	0	0	0	0	0	0	0	8
Dashboard install + Nighttime: Gazing forward for 3s	0	0	0	0	0	0	0	0	0	0	
Windshield install + Daytime: Gazing forward for 3s	0	0	0	0	0	0	0	0	0	0	
Windshield install + Nighttime: Gazing forward for 3s	1	1	1	1	0	1	1	1	0	1	

False Positives												
Windshield install + Nighttime: Gazing forward for 3s	0	0	0	0	0	0	0	0	0	0	0	

2.8 Smoking

- Prerequisite: DMS calibration is successful.
- Parameters: The DMS activates at speeds >30 km/h. An alert triggers when smoking posture persists for more than 3 seconds.
- Test Procedure: First, verify if the smoking alert can be triggered. If it cannot, terminate the validation. If it can, proceed with the test scenarios below.
- Test Criteria: Accuracy \geq 85%, and false alert rate \leq 15%.

Test Results

True Positives											
Test Scenario	1	2	3	4	5	6	7	8	9	10	Total
Dashboard install + Daytime: Wearing glasses, with unlit cigarette in mouth for 3s	N/A										36
Dashboard install + Daytime: Wearing a beard, with lit cigarette in mouth for 3s	N/A (No trigger expected)										
Dashboard install + Daytime: Wearing a hat, holding a cigarette for 3s	1	1	1	1	1	1	1	1	1	1	
Dashboard install + Nighttime: Wearing glasses, with unlit cigarette in mouth for 3s	N/A										
Dashboard install + Nighttime: Wearing a beard, with lit cigarette in mouth for 3s	N/A (No trigger expected)										
Dashboard install + Nighttime: Wearing a hat, holding a cigarette for 3s	1	1	1	1	0	1	1	1	1	0	
Windshield install + Daytime: Wearing glasses, with unlit cigarette in mouth for 3s	N/A										
Windshield install + Daytime: Wearing a beard, with lit cigarette in mouth for 3s	N/A (No trigger expected)										
Windshield install + Daytime: Wearing a hat, holding a cigarette for 3s	1	1	1	0	1	1	1	1	1	1	
Windshield install + Nighttime: Wearing glasses, with unlit cigarette in mouth for 3s	N/A										

False Positives										
Dashboard install + Daytime: Wearing glasses that obscure the eyes for 5s	N/A									
Dashboard install + Nighttime: Not wearing glasses, gazing forward for 5s	0	0	0	0	0	0	0	0	0	0
Dashboard install + Nighttime: Wearing glasses that obscure the eyes, gazing forward for 5s	N/A									
Windshield install + Daytime: Not wearing glasses, gazing forward for 5s	0	0	0	0	0	0	0	0	0	0
Windshield install + Daytime: Wearing glasses that obscure the eyes, gazing forward for 5s	N/A									
Windshield install + Nighttime: Not wearing glasses, gazing forward for 5s	0	0	0	0	0	0	0	0	0	0
Windshield install + Nighttime: Wearing glasses that obscure the eyes, gazing forward for 5s	N/A									

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3. ADAS Test Results

3.1 Lane Departure

- Prerequisites: The ADAS camera is correctly installed and calibrated, with the sky and ground each occupying half of the frame.
- Parameters: The ADAS activates at speeds >50 km/h. An alert triggers when the time to cross a lane marking is less than 2 seconds. The time to cross is calculated as: (Lateral distance between the vehicle and lane boundary) / (Crossing vehicle speed).
- Test Procedure: First, verify if a lane departure alert triggers when changing lanes without using a turn signal. If it does not, terminate the validation. If it does, proceed with the test scenarios below.
- Test Criteria: Accuracy $\geq 80\%$, false alert rate $\leq 20\%$. A human judgment error tolerance of $\pm 5\%$ is allowed during testing.

Test Results



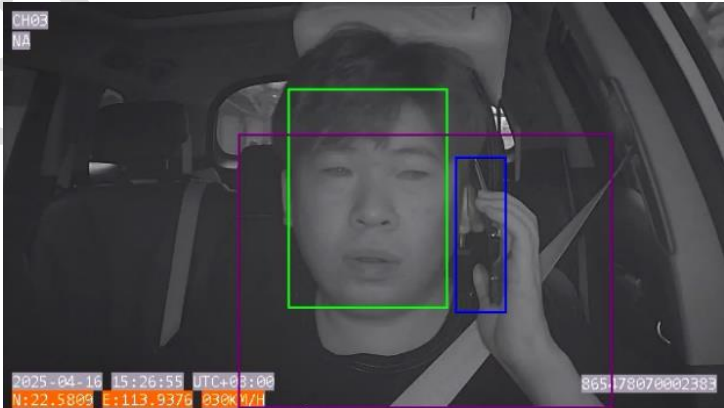
True Positives											
Test Scenario	1	2	3	4	5	6	7	8	9	10	Total
Lane change to the left on a clear day (turn signal ignored)	1	1	1	1	1	1	1	1	1	1	40
Lane change to the right on a clear day (turn signal ignored)	1	1	1	1	1	1	1	1	1	1	
Lane change to the left at night (turn signal ignored)	1	1	1	1	1	1	1	1	1	1	
Lane change to the right at night (turn signal ignored)	1	1	1	1	1	1	1	1	1	1	
Lane change to the left on a cloudy day (turn signal ignored)	N/A (No test conditions)										
Lane change to the right on a cloudy day (turn signal ignored)											




False Positives											
Test Scenario	1	2	3	4	5	6	7	8	9	10	Total
Normal driving within the lane on a clear day	0	0	0	0	0	0	0	0	0	0	0
Normal driving within the lane on a cloudy day	N/A (No test conditions)										
Normal driving within the lane at night	0	0	0	0	0	0	0	0	0	0	
Lane change for overtaking on a clear day (turn signal-based filtering enabled)	N/A (Pending verification)										
Lane change for overtaking on a cloudy day (turn signal-based filtering enabled)											



False Positives												
Normal driving on a clear day with no pedestrians nearby	0	0	0	0	0	0	0	0	0	0	0	0
Normal driving on a cloudy day with no pedestrians nearby	N/A (No test conditions)											
Normal driving at night with no pedestrians nearby	0	0	0	0	0	0	0	0	0	0	0	

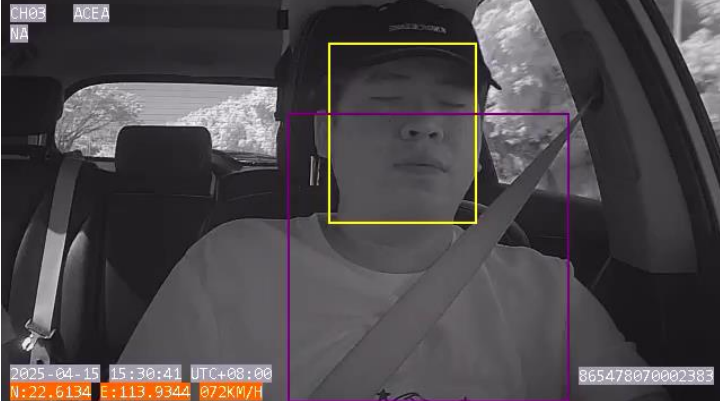


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4. Test Photos


/	Photo
Device Installation Location	
DMS Camera Installation Location	
Phone Use	

/	Photo
Smoking	 <p>CH03 ASW NA 2025-04-15 15:39:35 UTC+08:00 N:22.5782 E:113.9417 000KM/H 865478070002383</p> <p>A photograph of a driver in a white t-shirt sitting in a car. The driver is holding a cigarette to their mouth. A green bounding box is drawn around the driver's face, and a blue bounding box is drawn around the cigarette. The background shows a road and trees through the car window.</p>
Yawning	 <p>ADDW NA 2025-04-15 20:38:13 UTC+08:00 N:22.5769 E:113.9432 000KM/H 865478070002383</p> <p>A photograph of the same driver in a white t-shirt. The driver's mouth is wide open in a yawn. A red bounding box is drawn around the driver's face. The background is dark, suggesting it is nighttime.</p>
Eye Closure	 <p>CH03 ACEA NA 2025-04-15 15:30:41 UTC+08:00 N:22.6134 E:113.9344 072KM/H 865478070002383</p> <p>A photograph of the driver in a white t-shirt and a dark cap. The driver's eyes are closed. A yellow bounding box is drawn around the driver's face, and a purple bounding box is drawn around the driver's head and shoulders. The background shows a road and trees through the car window.</p>

/	Photo
Looking Around	 <p>CH03 ADW NA</p> <p>2025-04-16 16:38:51 UTC+08:00 N:22.5770 E:113.9432 000KM/H</p> <p>865478070002383</p>
Face Loss	 <p>CH03 NA</p> <p>2025-04-16 18:48:58 UTC+08:00 N:22.5768 E:113.9430 000KM/H</p> <p>865478070002383</p>
Face Calibration Anomaly	 <p>CH03 ADCA NA</p> <p>2025-04-17 16:47:34 UTC+08:00 N:22.5769 E:113.9432 000KM/H</p> <p>865478070002383</p>

/	Photo
Sustained Eye Closure	 <p>CH03 ACEA NA</p> <p>2025-04-15 15:30:41 UTC+08:00 N:22.6134 E:113.9344 072KM/H</p> <p>865478070002383</p> <p>A driver wearing a white t-shirt and a dark cap is shown from the chest up. Their eyes are closed. A yellow bounding box is drawn around the face, and a purple bounding box is drawn around the eyes. The background shows the interior of a car and a view through the windshield.</p>
Frame Obstruction	 <p>CH03 AMS NA</p> <p>2025-04-17 19:37:15 UTC+08:00 N:22.5769 E:113.9431 000KM/H</p> <p>865478070002383</p> <p>The image is almost entirely black, indicating a complete obstruction of the camera's view. Only the text overlays are visible.</p>
Sunglasses Obstruction	 <p>CH03 NA</p> <p>2025-04-17 19:45:48 UTC+08:00 N:22.5768 E:113.9431 000KM/H</p> <p>865478070002383</p> <p>A driver wearing a white t-shirt with a smiley face graphic and dark sunglasses is shown from the chest up. A green bounding box is drawn around the face. The background shows the interior of a car.</p>

/	Photo
Forward Collision	 <p>CH01 NA 10.3m -1.5km/h</p> <p>2025-04-14 15:24:59 UTC+08:00 N:22.7313 E:113.8833 090KM/H 865478070002383</p> <p>Detailed description: A forward-facing camera view from a vehicle. A blue bounding box highlights a car directly in front. A red bounding box highlights a truck in the adjacent lane. A white bounding box highlights a car on the right side of the road. Two red lines form a narrow cone pointing towards the car in front. The text overlay shows a distance of 10.3m and a relative speed of -1.5km/h. The timestamp is 2025-04-14 15:24:59 UTC+08:00, with coordinates N:22.7313, E:113.8833 and a speed of 090KM/H. A vehicle ID 865478070002383 is visible in the bottom right.</p>
Close Following Distance	 <p>CH01 NA 16.9m 6.4km/h</p> <p>2025-04-14 15:25:49 UTC+08:00 N:22.7179 E:113.8869 079KM/H 865478070002383</p> <p>Detailed description: A forward-facing camera view from a vehicle. A blue bounding box highlights a car directly in front. A white bounding box highlights a car in the adjacent lane. Two red lines form a narrow cone pointing towards the car in front. The text overlay shows a distance of 16.9m and a relative speed of 6.4km/h. The timestamp is 2025-04-14 15:25:49 UTC+08:00, with coordinates N:22.7179, E:113.8869 and a speed of 079KM/H. A vehicle ID 865478070002383 is visible in the bottom right.</p>
Lane Departure	 <p>CH01 NA 33.9m 21.0km/h</p> <p>2025-04-14 15:24:30 UTC+08:00 N:22.7252 E:113.8818 066KM/H 865478070002383</p> <p>Detailed description: A forward-facing camera view from a vehicle. A blue bounding box highlights a car in the adjacent lane. A white bounding box highlights a car in the adjacent lane. A red bounding box highlights a car in the adjacent lane. Two red lines form a narrow cone pointing towards the car in front. The text overlay shows a distance of 33.9m and a relative speed of 21.0km/h. The timestamp is 2025-04-14 15:24:30 UTC+08:00, with coordinates N:22.7252, E:113.8818 and a speed of 066KM/H. A vehicle ID 865478070002383 is visible in the bottom right.</p>

/	Photo
Front Vehicle Start	
Pedestrian Warning	 <p>The image shows a front-facing camera view of a street. A pedestrian in a red shirt and a cyclist are crossing the road. Two white bounding boxes are drawn around them, indicating they have been detected by the ADAS system. The camera view includes a speedometer at the bottom showing 0 km/h, a timestamp of 15:59:34, and a date of 2025-04-14. The camera ID is CH01 and the vehicle ID is APCW. The vehicle's VIN is 865478070002304. The vehicle's location is N: 22.5781, E: 113.9438, and the heading is 013K07.</p>