

Mobileye User Guide



Applicable Model: T622/T622G

Change History

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2 Product Introduction

2.1 Product Functions

- Forward Collision Warning (FCW)
- Urban Forward Collision Warning (UFCW)
- Pedestrian Collision Warning (PCW)
- Pedestrian detection in the "danger zone"
- Lane Departure Warning (LDW)
- Headway Monitoring and Warning (HMW)
- Intelligent High-Beam Control (IHC)
- Speed Limit Indicator (SLI)
- Turn Signal Reminder

2.2 Function Description

The Mobileye is an Advanced Driver Assistance System that provides audio and visual alerts.

It can provide customers with:

- Alert drivers.
- Prevent accidents.
- Reduce accident rates.
- Provide driver behavior analysis.

The Mobileye system will not intervene and activate any vehicle control, except for IHC.



No.	Alert Type	Alert Description	Working Condition
1	FCW	The FCW provides an alert up to 2.7 seconds before a possible collision with the vehicle in front.	The FCW is always operational when the system is active.
2	UFCW	The UFCW provides an alert before a possible low-speed collision with the vehicle in front.	The UFCW is operational under 30 km/h.
3	PCW	The PCW provides an alert when a pedestrian crosses in front of the vehicle's path.	The PCW is operational during daylight hours only, and at under 50 km/h. PCW does not work in the dark, or at night.
4	LDW	The LDW provides an alert when the vehicle unintentionally departs from the driving lane. An unintentional departure is defined by departing from the driving lane without using the turn signals. If the turn signal is used when changing lanes, an alert is not generated.	<ol style="list-style-type: none"> 1. The LDW is active at speeds greater than 65 km/h. 2. The LDW is available. (The white lane icon will be displayed on the EyeWatch display.)
5	HMW	The HMW displays the time, in seconds, to the vehicle in front. The system provides an alert if the time becomes dangerously short.	A car icon is shown whenever a vehicle is detected traveling in front of the vehicle. The numerical headway display and the audio alert are operational only at speeds greater than 30 km/h.
6	SLI	It detects and classifies various speed limit signs and provides a visual alert when the vehicle's speed exceeds the posted speed limit.	<ol style="list-style-type: none"> 1. The alert is based on the most recent sign detected. 2. The SLI is functional when the vehicle's speed exceeds the posted speed limit sign.

3 Main Device and Accessories



Windscreen-mounted vision sensor



EyeWatch display



E-BOX



CAN sensor



E-BOX I/O cable



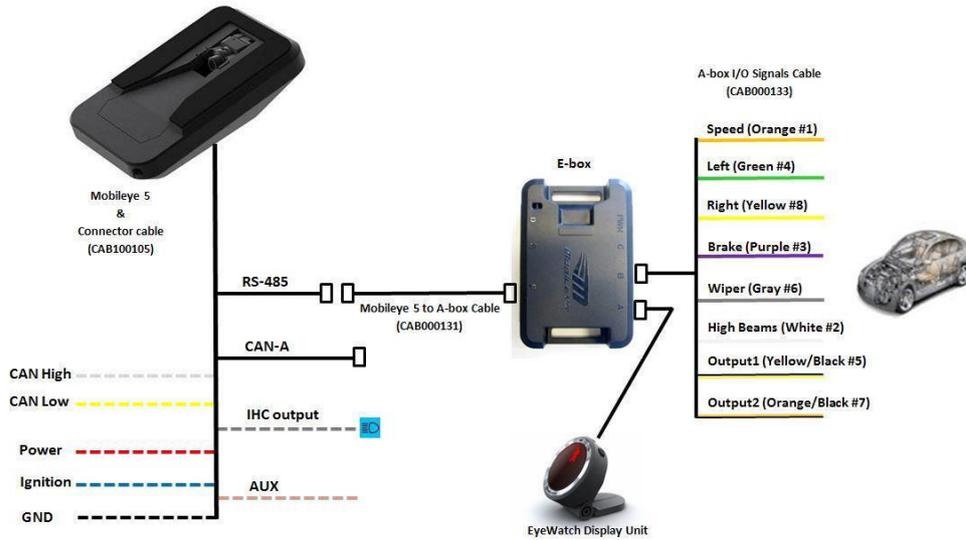
E-BOX connection cable

4 Installation

4.1 Installing Mobileye

4.1.1 Mobileye Connection Figure

Mobileye E-box Connection Scheme (to Mobileye 5 system)



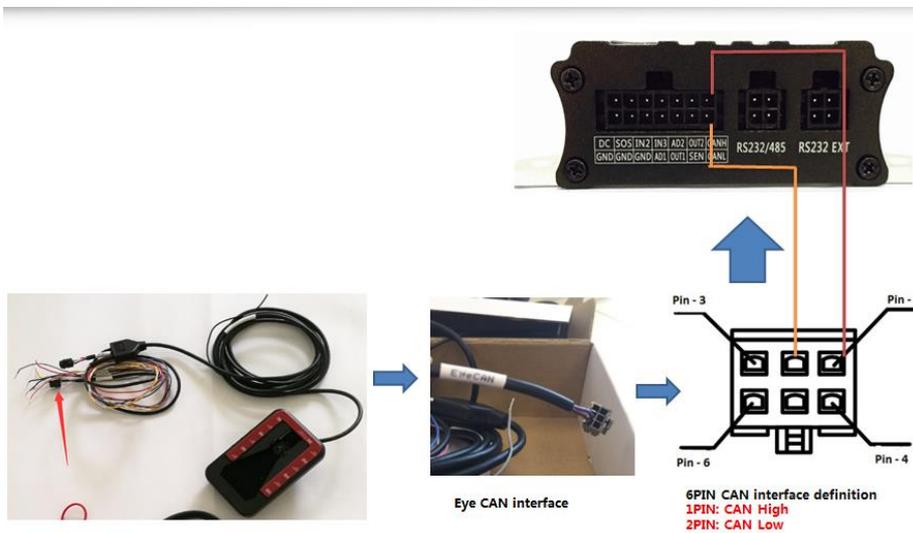
Pin	Color	Function
1	Orange	Vehicle speed signal
2	White	High beam signal
3	Purple	Braking signal
4	Green	Left turn signal
5	Yellow/Black	Output 1
6	Grey	Windscreen wiper
7	Orange/Black	Output 2
8	Yellow	Right turn signal

4.1.2 Actual Product Connection Figure



4.2 Connecting Mobileye to T622

T622	Mobileye
CAN H	CAN H
CAN L	CAN L



5 Viewing Mobileye Reports from MS03

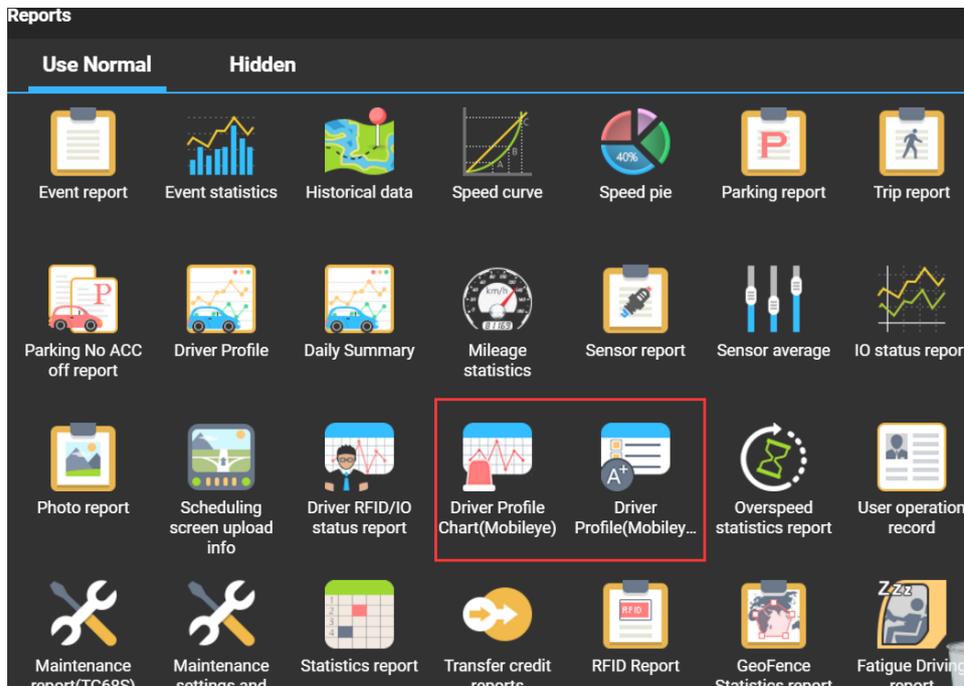
5.1 Mobileye Alert Event

On the MS03 tracking platform, there are 5 types of Mobileye alert events: sharp turn to the left/right, speeding, collision with a vehicle, collision with a pedestrian and headway too close.

Event type	Event Included
Sharp turn to the left/right	LDW
Speeding	SLI
Collision with a vehicle	FCW/UFCW
Collision with a pedestrian	PCW
Headway too close	HMW

5.2 How to View Mobileye Reports

1. Visit <http://ms03.trackingmate.com/>, and log in to the tracking platform.
2. On the main interface, choose **Reports**.
3. On the page that is displayed, choose **Driver Profile Chart (Mobileye)** or **Driver Profile (Mobileye)** from **Use Normal**.



5.3 Mobileye Reports

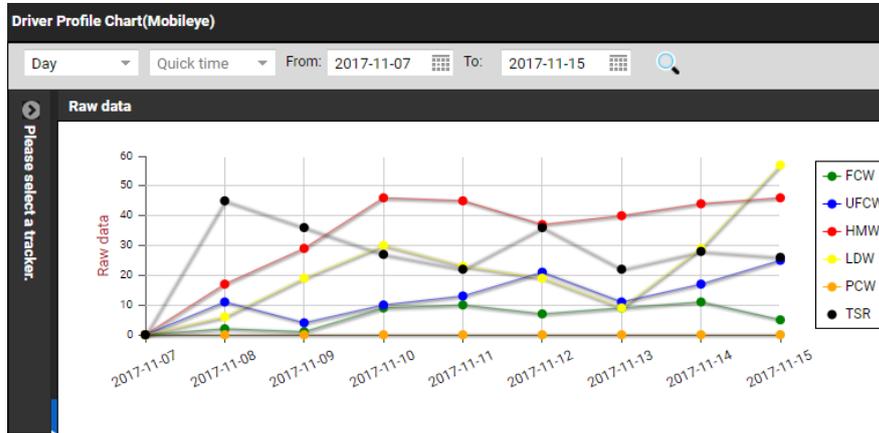
5.3.1 Driving Risk Report

The driving risk report includes:

- Raw data report
- Fleet driving risk comparison report
- Alert event statistics pie chart
- Alert event statistics per 100 km/h

5.3.1.1 Raw Data Report

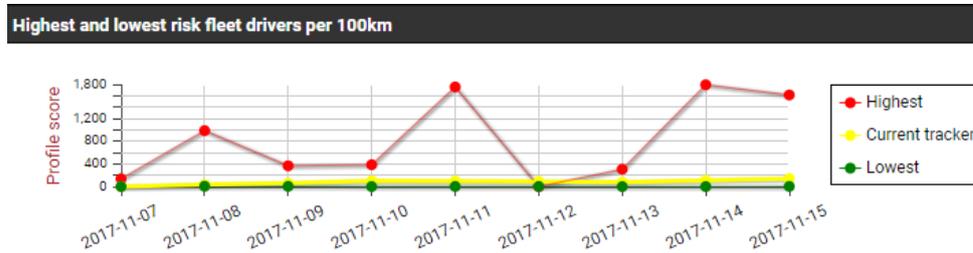
This report shows the number of alert events for a specific driver during the driving every day, which will provide reference for monthly driving behavior scores.



5.3.1.2 Fleet Driving Risk Comparison Report

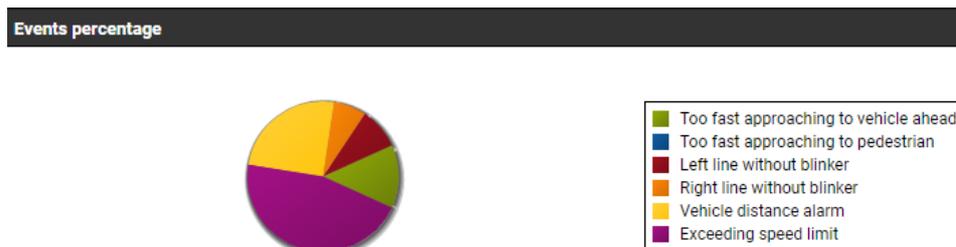
This report shows the driving behavior scores for a specific driver every day and the comparison between the highest driving behavior scores and the driving behavior lowest scores in the whole fleet. The yellow curve represents the current driver, the red curve represents the driver with the highest driving behavior scores in the whole fleet, and the green curve represents the driver with the lowest driving behavior scores in the whole fleet.

Note: The higher the score is, the higher the driving risk is.



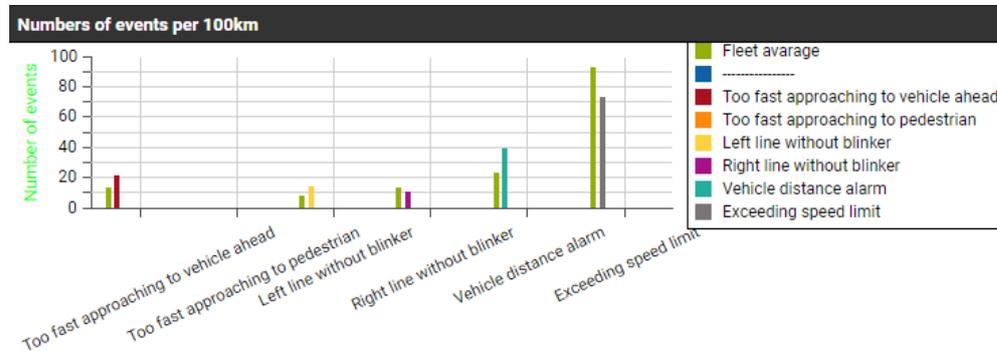
5.3.1.3 Alert Event Statistics Pie Chart

This report shows the percentage of alert events for a specific driver during a specific time period. From the following figure, the percentage of speeding alerts is the highest.



5.3.1.4 Alert Event Statistics per 100 km/h

This report shows the comparison between the number of alert events per 100 km/h for a specific driver during a specific time period and the average values of alert events for all drivers in the fleet.



5.3.2 Driving Risk Assessment Report

This report shows the number of alert events, total mileage, driving risk scores and driving risk assessment for all drivers in the fleet during a specific time period. There are 3 types of driving risk assessment: risk higher than fleet average level, risk equal to fleet average level and risk lower than fleet average level.

Driver Profile(Mobileye)												
Quick time	From:	To:										
	2017-11-07	00:00	2017-11-15	23:59								
Time span	Tracker name	Profil...	Profile level ↑	Driving ...	Approac...	Approa...	Too fast...	Left line without b...	Right line without ...	Vehicle distance a...	Exceeding speed l...	
2017-11-07...	ISUZU_ABB-S...	130	Average	869.00	7	330	2	122	144	547	691	
2017-11-07...	FedEx_985-ZP	103	Average	897.00	56	131	4	153	71	847	1479	
2017-11-07...	新竹物流_02...	140	Average	343.00	30	308	5	30	15	118	141	
2017-11-07...	新竹物流_03...	151	Average	305.00	15	154	12	40	32	109	71	
2017-11-07...	新竹物流_04...	105	Average	362.00	32	211	7	33	14	77	118	
2017-11-07...	台灣宅配通_2...	103	Average	734.00	51	400	8	47	30	205	393	
2017-11-07...	SF_05_B31-AV	261	Below average	310.00	48	533	17	4	4	198	86	
2017-11-07...	FedEx_291-9A	158	Below average	16.00	2	7	1	-	1	12	3	
2017-11-07...	FedEx_953-9A	252	Below average	188.00	9	230	8	7	12	204	29	
2017-11-07...	台灣宅配通_2...	156	Below average	804.00	87	605	20	55	34	384	590	
2017-11-07...	台灣宅配通_9...	175	Below average	410.00	42	240	36	32	26	310	248	
2017-11-07...	台灣宅配通_9...	293	Below average	331.00	189	300	34	119	65	385	143	
2017-11-07...	台灣宅配通_K...	412	Below average	312.00	141	568	18	91	59	506	807	
2017-11-07...	SF_01_307-9A	231	Below average	338.00	17	516	34	7	11	183	124	
2017-11-07...	Bway_307-Y5	34	Good	1539.00	115	221	1	220	173	615	1135	
2017-11-07...	Bway_326-Y5	89	Good	3613.00	203	199	1	438	379	1351	1372	
2017-11-07...	FedEx_179-W3	50	Good	1928.00	11	69	-	98	104	773	2277	
2017-11-07...	FedEx_502-ZP	70	Good	1105.00	24	130	1	45	49	515	1312	
2017-11-07...	FedEx_KLA-0...	64	Good	1019.00	6	5	-	88	44	429	890	
2017-11-07...	ADAS-02_GSE...	36	Good	3277.00	7	2	1	412	581	756	4373	
2017-11-07...	ADAS-03_GSE...	35	Good	3156.00	17	2	-	566	1054	1105	10499	
2017-11-07...	KTL01_497-5...	109	Good	1383.00	9	133	-	357	285	520	1665	
2017-11-07...	SF_02_D56-M6	51	Good	914.00	9	156	-	32	67	190	952	
2017-11-07...	SF_03_B42-AN	37	Good	1114.00	6	235	1	64	126	165	1203	
2017-11-07...	台灣_725-X7	7	Very good	4101.00	4	1	-	71	165	52	812	

If you have any questions, do not hesitate to email us at info@meitrack.com.