

DIGITAL ELECTRONICS DIVISION

# Mobile Eye AVL-2000

USER MANUAL

Service Help Desk Telephone: +91 9960322240





User Manual for AVL

Revision: 1.04

**Date:** 20th Feb 2008

Reference: TW-PD-USM-1V01-AVLV04.DOC

**Document History** 

Index	Date	Version	Author
1.01	22 May	Creation	Yuvraj Jadhav
	2007		
1.02	23Nov	Voice call Modification	Yuvraj Jadhav
	2007		
1.03	28Jan 2008	Fleetview Functionality	Yuvraj Jadhav
1.04	20 Feb	Fleetview Functionality	Yuvraj Jadhav
	2008		

<u>PURPOSE</u>: The aim of this document is to provide complete information utility point of view of the product **Mobile Eye-2000 A/AP** to **TRANSWORLD** customers/users.

COPYRIGHT

This document is copy righted with all rights reserved. No part of this manual may be reproduced in any form without prior consent of TRANSWORLD. The information in this document is subject to change without notice.

TRANSWORLD reserves the right to make revisions to this document and the product described herein without obligation to notify any person or entity of any such changes.

Confidential 2

This document is exclusive property of TRANSWORLD. Not to be distributed or divulged without prior written agreement. All the information in the document is covered by mutual non disclosure agreement. The user is deemed to have accepted the terms of agreement.



#### Part-I

#### **AVL Unit Installation**

Chapter No.	Contents	Page No.
I.	<b>Before Operating</b>	
	I. Pre-Installation Inspection	4
	II. Recommendations	4
II.	Getting Started	
	I. Package Contents	5
	II. Specifications	5
	III. Components of AVL Unit	5
	2.1 Mobile-Eye 2000Non-voice type	
	2.2 Mobile-Eye 2000with communication panel	
III.	Unit Installation Procedure	
	I. Vehicle Mounting of AVL Unit	7
	II. Power Supply Connection with Unit	
	III. Battery connection	
	IV. Mounting of GPS Antenna	
	V. Confirming Installation	
IV.	Troubleshooting Guidelines	12
$\mathbf{V}_{ullet}$	Fleetview functionality	



#### **Chapter 1: Before Operating:**

Warning: This is a GSM/GPRS class-10 device. Standard safety precaution for the use of GSM devices must be followed. For the industrial use only. Not for consumer use.

Mobile-Eye 2000A/AP brief introduction: This is On Line Vehicle Tracking Device, gives ON LINE update of Vehicle position. This also gives real time tracking along with the violations committed on the route by the driver.

- I. Pre-Installation Inspection.
- II. Recommendations.
- **I. Pre-Installation Inspection:** Be sure to read this section.
  - Vehicle Battery must be in a fully charged condition.
  - Cigarette Lighter must be in working condition (provided the supply is connected through the cigarette lighter).

#### **II.** Recommendations:

**Note**: This product is designed for indoor use only. Do not install in the following areas:

- Outdoors.
- In areas directly exposed to sunlight, high humidity, dust, extreme heat or extreme cold.
- In locations near fire equipment or emergency exits or any other places where it would be an obstacle in case of an emergency.
- An unstable and uneven surface.
- If possible connect the unit through the ignition supply. **Note:** Ignition supply connection will the give correct starting and stoppage status of the vehicle.
- Unit to be mounted at a location from where the LEDs are easily visible to the driver.
- Mounting of the GPS antenna should be done in such a way that it faces the sky.(On the section of vehicle with out any obstacles beside it/or close to the windshield inside the vehicle cabin). **Note:** For both, the antenna must have a clear line of sight with the sky with no obstacles or blockages.
- After installation please ensure that all wires are properly dressed up and tied through cable ties wherever needed. Also check the connection to avoid any sparks due to loose connections.

AVLV04.DOC

#### **Chapter 2: Getting started**

- I. Package Contents
- II. Specifications
- III. Components of the AVL Unit

#### I. Package Contents:

#### One Pack of an AVL Unit Contains:

1 no : AVL Unit with GPS and GSM antenna.

1 no : Power Cable (With 3 Pin Connector at one end

and 2 Lugs at other)

6 nos.: Mounting Screws.

#### II. Specifications:

1. Power Supply : 12 V DC to 24 V DC.

2. Total Current : 100 mA to 700 mA.

3. Dimension : 80 mm (w) \* 85 mm(d) \* 30 mm(h).

4. Weight : 750gm.5. Supplied accessories : Harness.

#### **III.** Components of the AVL Unit:

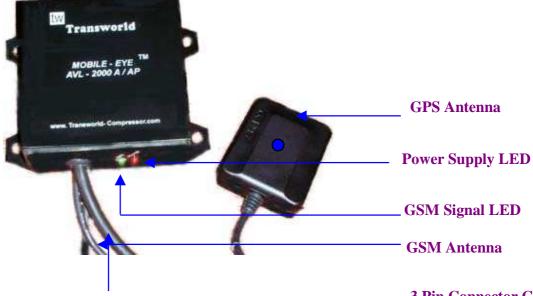


Fig 2.1 Components Of Mobile Eye AVL 2000 (Non-voice type)

3 Pin Connector Cable for supply

Confidential

**GPS Mouse** 

5

This document is exclusive property of TRANSWORLD. Not to be distributed or divulged without prior written agreement. All the information in the document is covered by mutual non disclosure agreement. The user is deemed to have accepted the terms of agreement.



Fig.2.2 Mobile-Eye 2000 with communication panel (Voice type)



Fig.2.3 Mobile-Eye 2000 with communication panel (Non-Voice type)



Confidential This document is exclusive property of TRANSWORLD. Not to be distributed or divulged without prior written agreement. All the information

In the document is covered by mutual non disclosure agreement . The user is deemed to have accepted the terms of agreement.



Confidential

#### **Chapter 3: Unit Installation Procedure**

- I. **Vehicle Mounting of AVL Unit.**
- **Power Supply Connection with Unit.** II.
- III. Power Cable Laving.
- IV. Mounting of GPS Antenna.
- V. **Confirming Correct Installation.**

#### I. Vehicle Mounting of AVL:

- **Step 1**: Mount the AVL unit on the dash board .At the desired position drill holes as per alignment of the mounting holes.
- **Step 2**: Tighten the screws properly and ensure that unit is properly Mounted and secure.(It should not shake & be loose).
- **Step 3:** Connect the earthing wire to the body of the Vehicle.

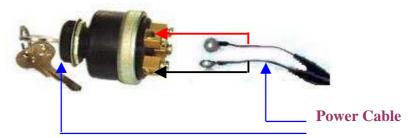


Fig 3.1 Mounting Of AVL Unit

AVLV04.DOC

#### **II. Power Supply Connection:**

- ❖ The unit is designed to work on 12 V DC & 24 V DC.
- ❖ If the unit is to be connected through the Ignition:
  - Connect lugs provided with the cable to the wire drawn via the ignition.



**Ignition Switch** 

RED wire to + ve terminal.

BLACK wire to – ve terminal.

Fig 3.2 Ignition Switch Supply Connection to AVL Unit

OR

❖ If the unit has come with the provision of power from the cigarette lighter jack, then just insert the connector to cigarette lighter point on the vehicle dashboard.

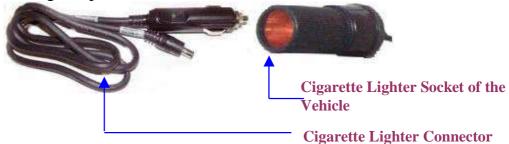


Fig3.3 Cigarette Lighter Connection with Car cigarette socket

Note:

- If the RED LED is on: Indicates that the unit is connected with supply.
- If the GREEN LED is blinking: Indicates that the unit is registered with GSM Network.
- If the BLUE LED of the GPS Antenna is continuously glowing(Stable): Indicates that the connection between the unit and satellite is established.

Confidential

8
This document is exclusive property of TRANSWORLD. Not to be distributed or divulged without prior written agreement. All the information

This document is exclusive property of TRANSWORLD. Not to be distributed or divulged without prior written agreement. All the information In the document is covered by mutual non disclosure agreement .The user is deemed to have accepted the terms of agreement.



#### **Battery Connection:**

AVL unit also powered on by connecting it through directly battery as shown below. This unit is designed to use at 12 V or 24 V. Open end connection of the wire is connected at the respective ends +ve end(red wire) and negative end (black wire)



BLACK wire -ve connection

**RED** wire +ve connection

Fig. 3.3: Direct Connection unit with open end wire to battery

#### **III. Power Cable Laying:**

❖ Lay the Power cable from the Battery/Cigarette Lighter to the AVL unit, dress the cable properly use cable ties for clamping the cables. follow the vehicle harness route to the cables.



#### **IV. Mounting of GPS Antenna:**

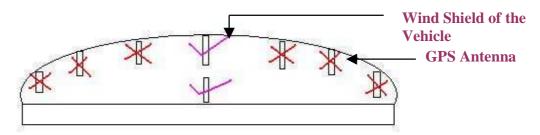
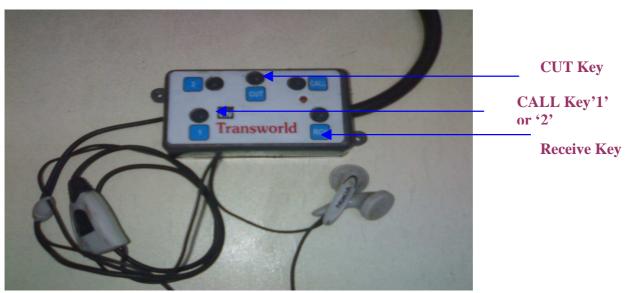


Fig 3.4. Mounting of GPS Antenna inside the Vehicle

Mount the GPS antenna in the middle of the dashboard close to windshield of the vehicle or Mount the GPS antenna at the top of the vehicle's roof without

#### > Functionality Of Communication Panel:

- 1] During Incoming Call user can pick up callby pressing key 'RCV'
  - 2] To end the call press 'CUT' key of communication panel.
  - 3] When user want to call from Mobile -Eye unit have to press key '1' or '2'.



**Fig.3.4 Communication Panel** 

Confidential This document is exclusive property of TRANSWORLD. Not to be distributed or divulged without prior written agreement. All the information

In the document is covered by mutual non disclosure agreement . The user is deemed to have accepted the terms of agreement.



#### V. Checking Installation:

- **Switch on the Vehicle:** AVL unit Power LED Red will turn ON and the GSM LED Green will start blinking (This shows that the unit is Functioning properly and connections are OK).
- ❖ This means that the unit is installed properly and it is functioning OK. If there is no GSM/GPRS network available then the GSM LED Green will remain continuously ON.
- ❖ If GSM/GPRS network is available, keep the unit On for the transmission interval set, check in the control center if the location data is received.
- Now the vehicle can be sent for a trial run.

#### **Chapter 4. Trouble Shooting Guidelines**

## Power LED RED of Unit is OFF: (No power supply to

- Check whether the power connector (3 pin auto connector) is connected properly.
- Check for loose contact at the connector (3 pin auto Connector).
- Check the connection at the battery terminal/Cigarette Lighter.
- Check the Fuse (there are 2 fuse one in +ve line and other in -ve line)
- If the fuse is blown, replace it (1 Amp 20mm Length).
- If the problem is still persists contact our service center:

#### **GSM LED Green doesn't Blink:**

Due to the non availability of the GSM/GPRS Network, will automatically resume once it comes within range.

#### GPS Antenna's LED Blue Blinking/ Not Stable:

- Put the GPS antenna at a place without any obstacles besides it.
- If Possible place the antenna in the middle of the dashboard close to the windshield.



#### **FLEETVIEW FUNCTIONALITY**

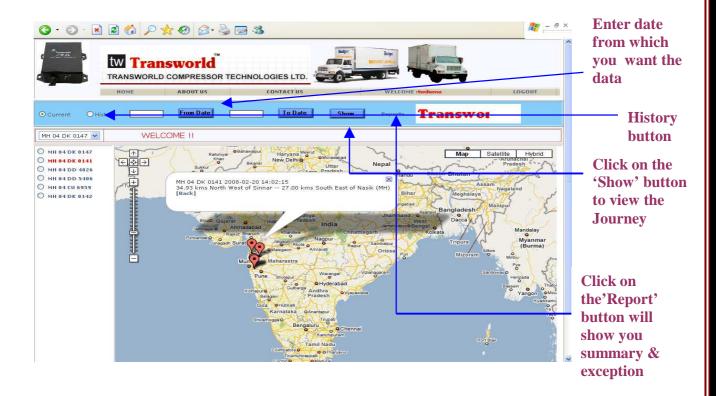
Fleetview 1.01 Online

Web Site.

Type www. FleetView.in in address bar of Internet Explorer.(Use Internet Explorer 6 or higher versions)

You will get the login form. Enter the User name and password to log in inside.

You will get the latest locations of all vehicles.



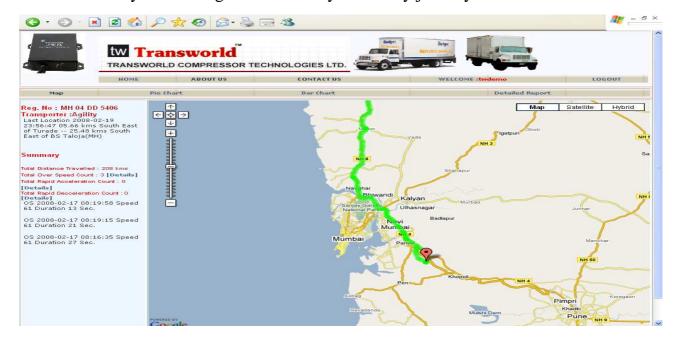
This snap shows current location of the vehicle and its status.

Click on the vehicle details to show it on google map.

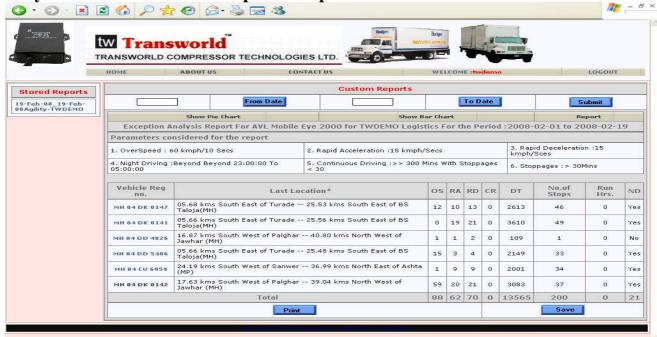


To View History Select History Option and enter the date range and Click Show Button. You will get the path followed by the vehicle with details including violations in left side of map.

Click on history button to get the summary of history journey.



If you want to check the exceptional report.

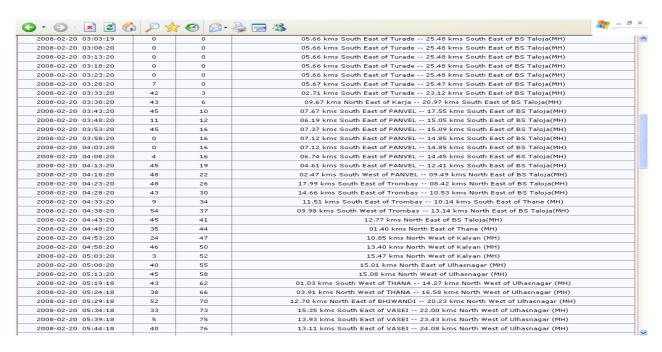


Confidential

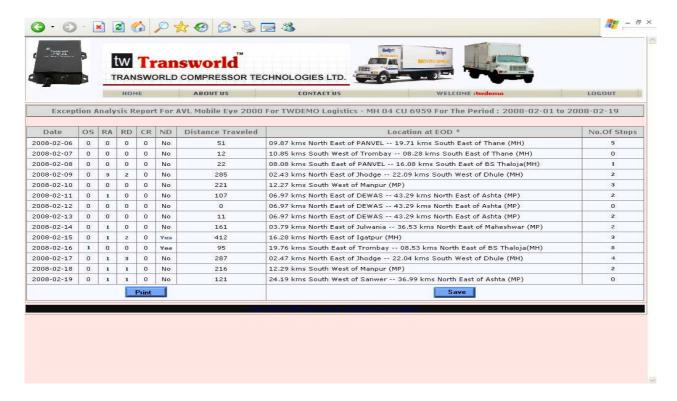
This document is exclusive property of TRANSWORLD. Not to be distributed or divulged without prior written agreement. All the information In the document is covered by mutual non disclosure agreement. The user is deemed to have accepted the terms of agreement.



#### Data for the journey is observed as below.



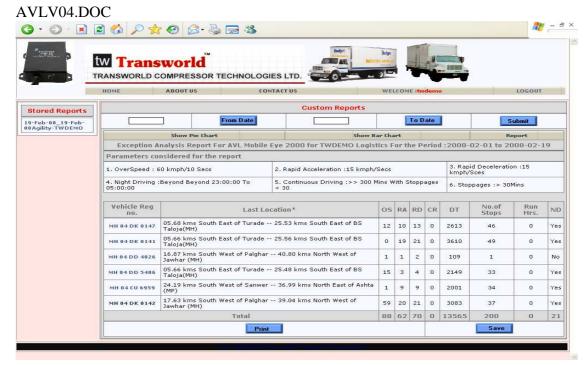
Daily summary for the report is observed as below.



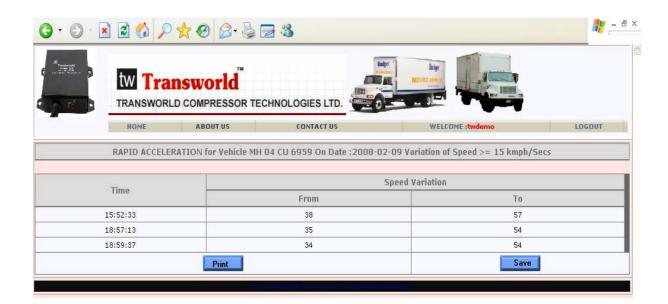
Confidential This document is exclusive property of TRANSWORLD. Not to be distributed or divulged without prior written agreement. All the information

In the document is covered by mutual non disclosure agreement . The user is deemed to have accepted the terms of agreement.





Click on Vehicle No. to list the Detailed Exceptions for the particular vehicle shown below



Confidential

15
This document is exclusive property of TRANSWORLD. Not to be distributed or divulged without prior written agreement. All the information

This document is exclusive property of TRANSWORLD. Not to be distributed or divulged without prior written agreement. All the information In the document is covered by mutual non disclosure agreement .The user is deemed to have accepted the terms of agreement.



### **Contact Details:**

#### TRANSWORLD-COMPRESSOR TECHNOLOGIES LTD.

http://www.Mobile-Eye.in http://www.Transworld-Compressor.com

#### **SALES:**

TRANSWORLD-COMPRESSOR TECHNOLOGIES LTD.

C-3/8, Rakshalekha, Koregaon Park, Pune-411001. INDIA

Tel.: +91-20-26131676 Fax: +91-20-26139599

Sales@ Transworld-Compressor.com

Contact: Ms. Juliet Fernandes (Sr. Manager-Commerce)

Cell: +91 9890644153

#### **SERVICE HELPDESK:**

1. Help desk Telephone: +91 9960322240

2. Mr. Santosh Jambhalkar, Team Leader (Service)

Cell: +91 9370716711 S\_Jambhalkar@Transworld-Compressor.com

3. Mr. P.K. Bansal, General Manager (Operations and Services)

Cell: +91 9890402592 P\_Bansal@Transworld-Compressor.com



Confidential

This document is exclusive property of TRANSWORLD. Not to be distributed or divulged without prior written agreement. All the information In the document is covered by mutual non disclosure agreement .The user is deemed to have accepted the terms of agreement.