

## Guarantee

- This product is warranted only in the event of failure during normal use by the customer, and the product will be repaired free of charge under the warranty.
- This product warranty must be presented when requesting free inspection. If you lose the warranty, you can not get free inspection.
- The warranty period is one year from the date of purchase and installation of the product.
- The following items will be covered for repair at any time during the warranty period.
  1. If the cause of the trouble is due to external factors other than this unit
  2. In case of failure due to arbitrary decomposition or arbitrary modification of the product
  3. In case of malfunction due to improper use or improper repair
  4. In case of malfunction due to transportation, movement after purchase
  5. In case of malfunction due to natural disaster
  6. If you lose your letter of guarantee

Name of device	MDT
Car No	
Address	
Name	Phone No.
Store	
Warranty	Date of purchase (    year    month    day) From 1 year

Manufacturer : LOOP Co., Ltd.  
Address : 70, Heungan-daero 439beon-gil  
Tel: Sales (070) 7116-6150    A/S (070) 7116-6183  
E-mail : help@loopssystem.co.kr (http://www.loopssystem.co.kr)

D I G I T A L    T A C H O G R A P H

User manual

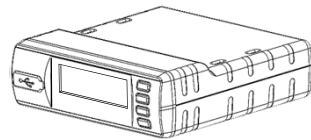
# MDT

## LDT-300BS(ISG)

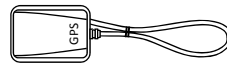


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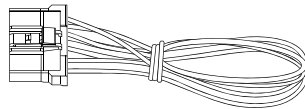
## product composition



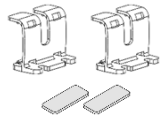
main body



G-mouse



Harness



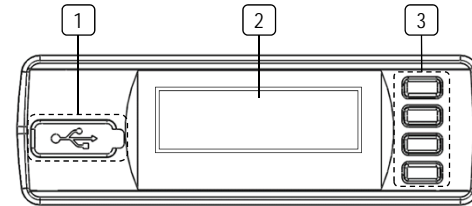
Mounting parts



Manual

※ Some components may change to improve performance or quality of the product

## Part Names and Functions



### 1 USB port

- Download driving history
  - USB3.0 support
- (Some products may not download as compatibility issues.)

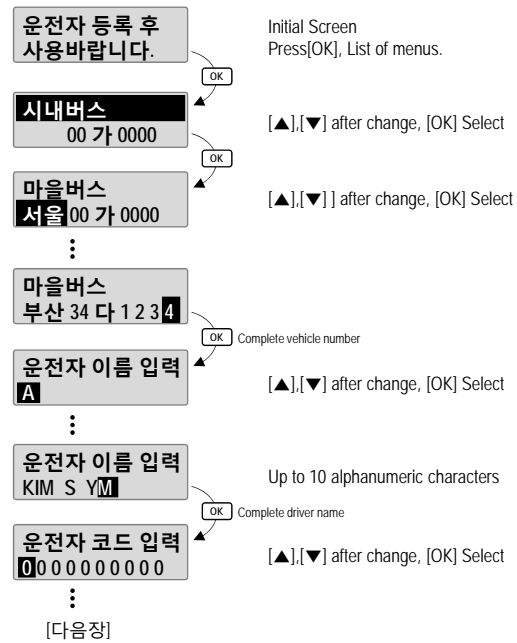
### 2 LCD

### 3 BUTTON

	<ul style="list-style-type: none"><li>• Switch menu</li><li>• Selection / input</li></ul>
	<ul style="list-style-type: none"><li>• Change screen</li><li>• Move up and down within a menu</li><li>• Change setting value</li></ul>
	<ul style="list-style-type: none"><li>• Previous screen</li><li>• Long press to adjust LCD brightness</li></ul>

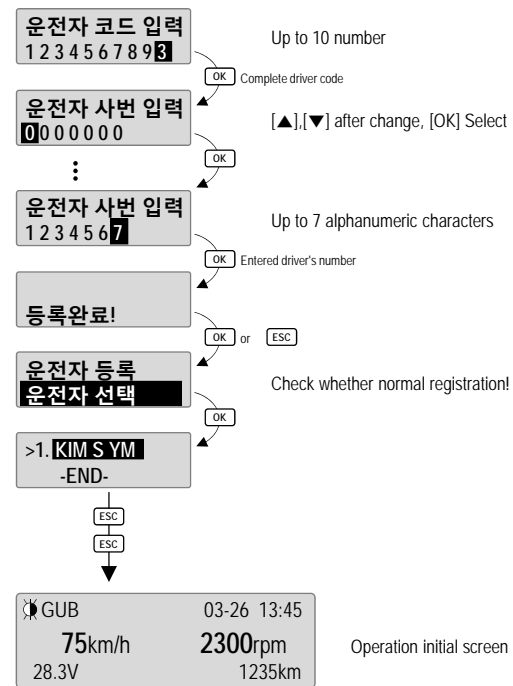
## Installation settings

When the power is turned on after initial installation, the driver registration screen appears.



Press [ESC] on each screen to move to the previous digit / screen.

## Installation settings



Press [ESC] on each screen to move to the previous digit / screen.

## Menu select

When you press [OK], the menu selection list appears.  
Move to the menu with [▲], [▼] and press [OK] to select..

Operation initial screen  
press [OK], the menu list appears.

Move menu : [▲] [▼]  
Select menu : [OK]

운전자 등록  
운전자 선택  
운전자 삭제  
프로그램 버전  
차량번호  
회사정보  
사업자등록번호  
차대번호  
교정인자  
형식승인번호  
제품일련번호  
모뎀정보  
서버정보

Press [ESC] on each screen to move to the previous digit / screen.

## Menu select

Download	[OK] : Select [▲][▼] : Move [ESC] : Previous 1일→2일→ ... 89일→90일→DATE→전체
Download history	DATE : Select a date range, 전체 : Select total driving record Show downloaded date / time history
Driver Registration	[OK] : Shifts [▲][▼] : Change [ESC] : Previous Driver's name : Alphanumeric characters(Up to10) Driver Code : Number (Up to 10) Driver's office number : Number (Up to 7) Press [OK] and enter the last digit to complete registration.
Driver's Choice	[OK] : Select [▲][▼] : Move Choose from registered drivers
Driver's Delete	[OK] : Select [▲][▼] : Move Remove from list of registered drivers
Program version	Check program version
Car number	Check your car number
Company Information	Check vehicle company
Company Registration Number	Vehicle Registration Number
VIN Number	Identify the chassis number
Correction factor	Speed calibration factor, RPM Calibration factor
Type Approval Number	Confirm type of transponder type approval number
Product serial number	Check product serial number
Modem Information	Communication protocol, communication company, modem manufacturer, telephone number confirmation (Wireless control service model only)
Server Information	IP, communication PORT information confirmation (Wireless control service model only)

Press [ESC] on each screen to move to the previous digit / screen.

## Switch the initial screen

Press [▲], [▼] to switch the initial screen.

The converted screen is retained even after restart. (Explained in the screen example)

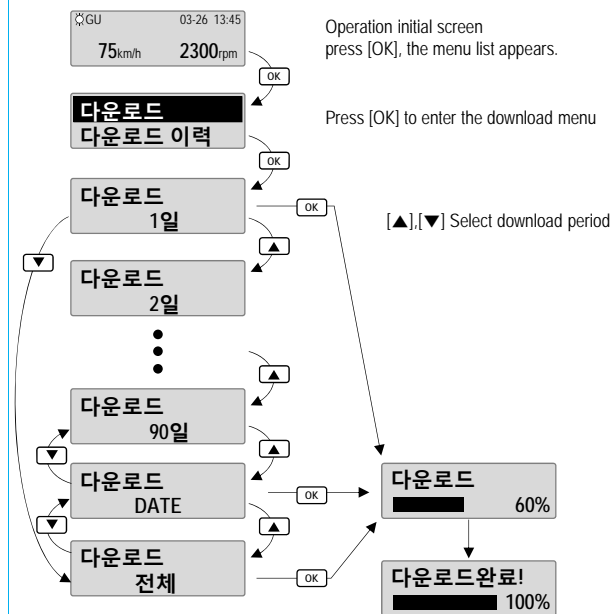
GUB 03-26 13:45 75km/h 2300rpm 28.3V 1235km	See headline information(Page 10) March 26 13:45 75km/h, 2300rpm, Vehicle voltage 28.3V, ODO 1235km
GUB 03-26 13:45 75km/h 2300rpm	Summary screen
B-VOLT 28.3V ODO 1235km	Battery / Operating distance B-VOLT : Battery voltage 28.3V ODO : Total running distance 1235km
D-TIME 6:25 D-TRIP 212.5km	Daily driving time / distance D-TIME : Today's driving time 6:25 D-TRIP : Today's driving distance 212.5 km
C-TIME 1:50 C-TRIP 22.1km	Driving time / distance after start-up C-TIME : Operating time after start-up 1:50 C-TRIP : Running distance after starting 22.1km
D-FUEL 35.052L T-FUEL 196.446L	Fuel consumption D-FUEL : Daily fuel consumption 35.052 L T-FUEL : Total fuel consumption 196.446 L
FUEL-EF 6.5km/L FUEL-RT 12.050L	Fuel efficiency / Fuel consumption FUEL-EF : Moment fuel efficiency 6.5 km/L FUEL_RT : Fuel consumption after startup 12.050 L
LAT 37.393521 LON 126.970330	GPS Latitude / longitude Latitude : 37.393521° longitude : 126.970330°
GUB 03-26 13:45	Date March 26 13:45

Press [ESC] on each screen to move to the previous digit / screen.

## Download vehicle driving record

Insert the USB memory into the front panel and proceed with the download.

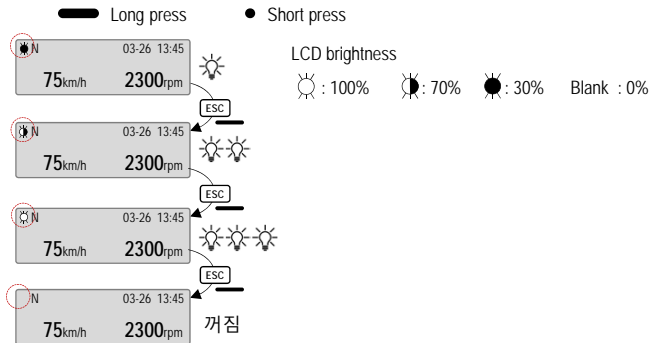
[OK] : List / Select [▲][▼] : Move / Change



Press [ESC] on each screen to move to the previous digit / screen.

## LCD Brightness Control

If you press and hold [ESC] for more than 1 second, you can adjust the LCD screen brightness in 4 steps.



## Headline information

### Headline

GUB	03-26 13:45
75km/h	2300rpm

First digit	LCD bright	See top description
Second digit	GPS signal	N : GPS Device not connected. V : Weak    A : good    G : Great
Third digit	USB memory	U : USB memory stick recognition Blank : Usb not connected.
Fourth digit	Brake signal	B : Brake signal input Blank : No signal

## Specifications

Name of device	MDT
Model name	LDT-300BS
Operating voltage	12-24Vdc
Power Consumption	Max 4.5W
Display	128 x 32 graphic LCD
Data collection cycle	1.0s (Default data)
Speed recording range	0 - 255 km/h
Operating distance recording range	0 - 9,999,999,999 km
External interface	USB 3.0 RS232 4ch
GPS	5Vdc, 105mA(peak), 45mA(average) HOT START < 1s, WARM < 28s, COLD < 30s
DI / DO	2ch / 2ch
Operating temperature	-20°C ~ +70°C
Storage temperature	-40°C ~ +85°C
Size	100(L) x109(D) x 32(H)
Weight	170g (Main body)
RF	Bluetooth V4.1

### Memo

## FCC Warning

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution: Any changes or modifications to this device not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum 20 cm between the radiator and your body. This transmitter must not be collocated or operating in conjunction with any other antenna or transmitter unless authorized to do so by the FCC.