

# **DL-200BT**

# **Data Logger**

**User's Manual** 



Date: July 2006 Version: 2.0

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#### **Manual Revision History**

Revision Date		Update Summary
Issue 1.0 Aprial 2006		Initial release
Issue 2.0 July 2006		Add Google Earth Function

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# **0. Quick Installation**

- Have the battery full charged.
   Before using the battery, please put it in DL-200BT and have it recharged for 3 hours.
- To Connect DL-200BT with PC or Notebook
   2.1 Check the COM port number used by Wireless Device. (Example: COM 6).
   2.2 To run DL-200BT utility and set the right COM port number.

# LED Indicators:

Symbol	Color	Status		Light Indication
Battery	Red	Light On		Battery Low
	Green	Light On		In Charging
	N/A	Light Off		Battery Full or Not in charging
Wireless	Dhuo	Light On/Off	0.1 sec/1.9sec	Linking Completed
	Diue	Light On/Off	Continued On	Pair Searching
GPS	Ded	Light On/Off	1 sec/1 sec	Acquiring Satellites
	Red	Light On/Off	0.9 sec/0.1sec	Position Fixed



# 1. Introduction

# 1.1 Overview

The DL-200BT is a unique with Wireless interface for vehicle tracking device in use friendly. DL-200BT uses the Global Positioning System (GPS) to record vehicle movement, speed, route and duration of stops. This information can be displayed on a GIS mapping with MapInfo formatted while download data to P.C. so user can view vehicle activity in precise details. Additionally, DL-200BT can be used as a receiver for navigation while user connected the unit to PC or Notebook.

# **1.2 Main Features**

- Easy connector to PC/Notebook by Wireless interface
- Built-in patch antenna
- Receiver, Twelve parallel tracking channels
- Fast TTFF and low power consumption
- On-board rechargeable battery sustained real-time clock and memory for fast satellite acquisition during power-up
- Automatic cold start with no user initialization required
- Large capacity for continuous records for 25,000 positions
- Lithium-ion rechargeable battery lasts for more than 6 hours of use

# **1.3 Possible Applications**

- Land/Marine Navigation
- Telematics
- Fleet Management
- Asset Tracking
- Timing Reference



# 1.4 Package

Before you start up, make sure that your package includes the following Items. If any items are missing or damaged, contact your dealer immediately.

- DL-200BT data logger
- DC Car Power Charger
- CD includes User's Manual, Utility program and USB driver
- Battery (3.7V/1100mAh lithium-ion rechargeable)

(Optional Accessories)

- AC Power Adapter
- Super min din 6 pin to USB cable



# 1.5 LED Status



# **LED Indicators:**

Symbol	Color	Status		Light Indication
Battery	Red	Light On		Battery Low
	Green	Light On		In Charging
	N/A	Light Off		Battery Full or Not in charging
Wireless	Dhuo	Light On/Off	0.1 sec/1.9sec	Linking Completed
	Diue	Light On/Off	Continued On	Pair Searching
GPS	Ded	Light On/Off	1 sec/1 sec	Acquiring Satellites
	Red	Light On/Off	0.9 sec/0.1sec	Position Fixed

# 1.6 Power Jack

The power jack lets you to connect either a DC car power charger (included) or AC power charger to recharge the internal battery.



# 2. Technical Specification

Items	Description		
General	L1 1575.42MHz, C/A code, 12-channel, Carrier-Aided with HWTrack $\ensuremath{\mathbb{C}}$		
Sensitivity	-143 dBm minimum		
Update Rate	1Hz		
Accuracy	Position: 15m CEP without S/A		
	Velocity: 0.1 m/sec without S/A		
	Time: $\pm 1 \mu s$		
WAAS Accuracy	Position: 5m CEP		
	Velocity: 0.05m/sec		
Acquisition	Cold start: < 120sec (average)		
	Warm start: < 45sec (average)		
	Hot start: < 15sec		
Reacquisition	<100msec		
Dynamics Altitude: 18000m			
	Velocity: 515 m/sec		
	Acceleration: ±4g		
Protocol	EverMore Private @ 4800/9600 baud, 8-None-1		
	NMEA-0183 v2.20 @ 4800/9600 baud, 8-None-1		
Datum	219 standard datum, default WGS-84		
DGPS	WAAS/EGNOS		
Antenna	Built-in Patch Antenna / Option active antenna, MMCX jack		
NMEA Message	GGA, GLL, GSA, GSV, RMC, and VTG		
Dimension; Weight	98.8 x 48.3 x 28.1mm / 68.4g		



# **Power Specifications**

Items	Description
Battery	Lithium-Ion Rechargeable Battery 3.7V/1100mAH
Charger Power	5V ±0.5Vp-p ripple (DC-Jack)
Current Consumption	170 mA
Operation Time	Up to 6 Hours after full charge

## **Switch Specification**

Items	Description
Power Switch	System power switch except charge unit

# **Environmental Specification**

Items	Description
Operation Temperature	-10°C to +60°C
Storage Temperature	-40°C to +90°C
Operating Humidity	5% to 95%

\* Preliminary Specification, Subject To Change Without Notice



# 3. How to link DL-200BT with PC

# **Wireless Dongle Installation Example**

Step 1: To plug Wireless dongle into PC or Notebook.

Step 2: To run Wireless Dongle utility and to find Wireless device.

Step 3: To do Pair Device

Step 4: To key-in password "0000"

Enter Bluet	tooth Passkey				×
	A remote device ne relationship for fut passkey on this dev Remote Device: Address Passkey: Fime Left: 21 s	eds a Blue ure connect ice and or BT GPS 00/0A:34	etooth Passkey to cre ctions. Please use the 1 the remote device: A:01:79:6F	ate Paired same	<u>O</u> K <u>C</u> ancel

Step 5: To do connect device

Step 6: To memorize DL-200BT Serial Port number "COM6" and press "Yes"

Quick Connect					
ৃ	Automatic conne connect to this d applications oper	ction established. Do you want to evice automatically when Windows h the serial port?	Yes No		
	Serial Port:	COM6			
	Remote Device:	BT GPS			
🔽 Aļw	ays show this dialo	ıg.			

Step 7: The DL-200BT had finished assignment COM Port. (BT GPS → COM6)



# To Link DL-200BT by Wireless Dongle

Step 1: Double click Wireless Dongle icon



Step 2: To click the "Wireless Device Discovery" or to click the ball.



Step 3: To put mouse course on "BT GPS" icon and to click mouse right button





#### Step 4: To select connect



#### Step 5: To select Wireless Serial Port Service





#### Step 6: It will pop up a message on right-down corner of the PC screen



#### Step 7: This is a linking finish window



#### For example Wireless Dongle real picture





# 4. Test Datalog By GPSView

Step 1: Double click GPSView icon



Step 2: To select Com Port and Baud Rate then press "Open Port"

¢	🗳 EMT GPSView 1.8						
	Set	View	About				
	Com P	ort	COM5		Message Command		
	Baud F	Rate	4800 💌		🔽 GSA 🔽 RMC		
		Set	BaudRate		🔽 GSV 🔲 VTG		
		ScanPort			Set Command		
		ColdStart			Save Log		
		Close Port			🗆 Local Time		
	\$GPGSV,3,2,11,18,62,352,51,26,15,059,49,09,61,034,52,22 \$GPGSV,3,3,11,15,51,271,51,05,35,135,51,14,17,280,45*4* \$GPRMC,021626,002,A,2446,5201,N,12100,1382,E,000,0,0 \$GPGGA,021627,002,2446,5201,N,12100,1382,E,1,10,00,8 \$GPGSA,A,3,29,30,21,,,18,26,09,22,15,05,14,01,5,00,8,01,1; \$GPGSV,3,1,11,29,11,064,44,30,16,172,47,21,52,226,52,47 \$GPGSV,3,2,11,18,62,352,51,26,15,059,50,09,61,034,52,22 \$GPGSV,3,3,11,15,51,271,52,05,35,135,51,14,17,280,45*42 \$GPRMC,021627,002,A,2446,5201,N,12100,1382,E,000,0,0						



#### Step 3: To check the datalog fix



#### Step 4: To read firmware version





http://www.emt.com.tw

# 5. Datalog Utility Installation



Step 1: Double click "setup.exe" icon





# Step 2: To press "Next" button

🙀 DataLogger 3.0 Wireless - InstallShield Wizard 🛛 🔀			
	Welcome to the InstallShield Wizard for DataLogger 3.0 Wireless		
	The InstallShield(R) Wizard will install DataLogger 3.0 Wireless on your computer. To continue, click Next.		
	WARNING: This program is protected by copyright law and international treaties.		
	< Back Next > Cancel		

# Step 3: To press "Next" button

📸 DataLogger 3.0 Wireless - InstallShield Wizard	
<b>Customer Information</b> Please enter your information.	
User Name:	
Mark	
Organization:	
EMT	
Install this application for:	
<ul> <li>Anyone who uses this computer (all users)</li> </ul>	
Only for me (Mark)	
InstallShield	
< Back Ne	ext > Cancel



# Step 4: To press "Install" button

🔂 DataLogger 3.0 Wireless - InstallShield Wizard
Ready to Install the Program       Image: Constallation installation.         The wizard is ready to begin installation.       Image: Constallation installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard. Current Settings:
Setup Type:
Destination Folder: C:\
User Information: Name: Mark Company: EMT
InstallShield < Back Cancel

Step 5: To press "Finish" button



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#### DL-200BT User's Manual V2.0

Step 6: To check new create folder

₩ C(\	
File Edit View Favorites Tools Help	1
G Back + 🕤 + 🏂 🔎 Search 🍋 Folders 🔣 -	
Address 🖙 C:\	→ Go
System Tasks	^
Hide the contents of this drive Google Earth Google Earth GPSView	Ш
Search for files or folders New 307 driver OziExplorer	
File and Folder Tasks       Image: Constraint of the state of the sta	

## Step 7: To open this folder





Step 8: To check the new create Datalog icon for execution



# 6. Datalog Utility Operation

# 6.0 Install Google Earth

Install Google Earth before use datalog utility.



# 6.1 Switch Mode Change

Step 1: Double click Datalog icon





Step 2: To put the mouse cursor in the window then click mouse right button.

It will pop up switch mode window then to select Switch Mode for small mode.

E EverMore DataLog Analyze	r v3.0 (Wi	reless Version)		
Dump Format Transferring WayPo	oints Analysis	About		
C To DataLogger <sub>C</sub>	om Port	COM1	Connect	
В	aud Rate	4800 💌	ScanPort	
Pa	assword		(0~9 , max 5 numbers )	
		SwitchMode	]	
		Close		
			-	
Ack:	Path:			LogCount

It will from big mode change to small mode





# Step 3: To click triangle



#### Step 4: To select COM Port



## Step 5: To select Baud Rate and to click connect





#### Step 6: It will become connect status and to click dump button



## Step 7: To select the dump data folder

Save As					? 🔀
Save in:	🔁 Data		•	⊨ 🗈 💣 📰•	
My Recent Documents Desktop My Documents My Computer	ID01023_0607	705.dat)			
My Network	File name:	tmp.dat		•	Save
Places	Save as type:	DataLogger files (*.da	)	•	Cancel

#### Step 8: Dump Finished window

Success	
(į)	1310 Way Points Dump Finished.
	ОК

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Step 9: If you already install Google Earth then click ok button otherwise click cancle button.



Step 10: It will automatic link with Google Earth and show out the trail.





http://www.emt.com.tw

## Step 11: To close Google Earth and ready to disconnect datalog



Step 12: To click disconnect button



Step 13: To press mouse right button and select switch mode. It will change to big mode.





Step 14: The datalog utility change to big mode

E EverMore DataLog Ana	lyzer v3.0 (Wi	ireless Versi	ion)		
Dump Format Transferring V	VayPoints Analysis	About			
To DataLogger	Com Port	COM5	•	Connect	
	Baud Rate	4800	-	ScanPort	
	Password			(0~9 , max 5 numbers )	
Target Reply at 4:15:26 PM	Path:				LogCount



# 6.2 Dump

# 6.2.1 Data Dump and Erase

Step 1: Double click datalog icon



# Step 2: It will pop up a window

E EverMore DataLog Analyz	zer v3.0 (Wi	reless Version)		
Dump Format Transferring Way	yPoints Analysis	About		
C To DataLogger	Com Port Baud Rate Password	COM1	Connect ScanPort (0~9 , max 5 numbers )	
Ack:	Path:			LogCount



Step 3: To select "To DataLogger" and to press "ScanPort" button

E EverMore DataLog Ana	lyzer v3.0 (Wi	ireless Version)		
Dump Format Transferring V	/ayPoints Analysis	About		
• To DataLogger	Com Port	COM1 -	Connect	
	Baud Rate	4800 💌	ScanPort	
	Password		(0~9 , max 5 numbers )	
Ack:	Path:			LogCount



Step 4: It will show out available ports.





Step 5: DL-200BT does not care Baud Rate. We can select any Baud Rate to Connect. To select COM port and Baud Rate and to press "Connect" button

E EverMore DataLog Ana	lyzer v3.0 (Wir	eless Version)		
Dump Format Transferring	VayPoints Analysis	About		
To DataLogger	Com Port		Connect	
	Baud Rate	4800 💽	ScanPort	
	Password		(0~9 , max 5 numbers )	
Ack:	Path			LogCourt
Ack:	Path:			LogCount



🗧 EverMore DataLog Analyzer v	3.0 (Wireless Vers	sion)	
Dump Format Transferring WayPoint	s Analysis 🛛 About 📄		
To DataLogger Com	Port COM5	Disconner	ct 🕘
Bau	d Rate 4800	ScanPor	t
Dump & Erase			
ID: 0		🗭 All Data 📃 🗖 Erase	if dump finished
Buffer usage : 77.66% Avai	lable Point: 0	C Divide by Date Dump C Divide by Tag	Way Points
			Erase Only
<ul> <li>Enter Password</li> <li>Set/Change Passw</li> <li>Erase Password</li> </ul>	Product IE ord Password	e~o) 0 0~9	, max 5 numbers ) , max 5 numbers )
C Data Log Command L	ist		
C Read Setting	.ogger Controller	C Disable © Enable	
	Time to Log	0 min 1 sec	
C	Distance to Log	€ Meter C Feet 125	
		Ser	nd Command
Target Reply at 11:28:17 AM	Path:		LogCount

Step 6: Connecting success window. Dumping all data into a file.



Step 7: To select a data folder.

				? 🗙
1		•	🗢 🗈 📸 🎫	
File name: Save as type:	tmp.dat DataLogger files (*.dat)		• •	Save Cancel
	File name: Save as type:	I         File name:       tmp.dat         Save as type:       DataLogger files (*.dat)	I     File name:   tmp.dat   Save as type:   DataLogger files (*.dat)	Imp.dat



# Step 8: Dumping window

E EverMore DataLog Analyzer v3.0 (Wireless Version)			
Dump Format Transferring Way	Points Analysis 🛛 About 🏻		
To DataLogger (	Com Port COM5	<b>V</b>	Disconnect
E	Baud Rate 4800		ScanPort
Dump & Erase			
ID: 0		C All Data	Erase if dump finished
Buffer usage : 77.66% 🕇	Available Point: 4990	C Divide by Date	Dump Way Points
			Erase Only
DataLogger Parameters Setup			
© Password Comma	nd List		
C Enter Password	Produc	tID  0	(0~9 , max 5 numbers )
C Set/Change Password     Password     (0~9, max 5 numbers )       C Erase Password			
© Data Log Comman	nd List		
Read Setting	Logger Controlle	r O Disable © I	Enable 🔓
© write Setting	Time to Log	0 min 1	sec
	Distance to Log	Meter C Fe     C     Fe     C	eet 125
			Send Command
4990	Path:		LogCount

# Step 9: Dump finished window

Success	
(į)	19708 Way Points Dບິນິກຸ Finished.
	ОК



Step 10: To check the data file.

C: Wata\1	_ 🗆 🖂
File Edit View Favorites Tools Help	
G Back 🔹 🕤 🚽 🏂 Search 🎼 Folders 🛄 🗸	
Address 🛅 C:\Data\1	🖌 🔁 Go
File and Folder Tasks	
Make a new folder	
Publish this folder to the Web	
Share this folder	

# Dumping data by date

Step 1: To select "Divide by Date" and to press dump button

Dump & Erase			
ID: 0		C All Data	Erase if dump finished
Buffer usage : 4.55%	Available Point: 1282	<ul> <li>Divide by Date</li> <li>Divide by Tag</li> </ul>	Dump Way Points
Data dumped at C:\Data\2\			Erase Only

## Step 2: To check the data files

😂 C:\Data\2		
File Edit View Favorites Too	ols Help	<b>1</b>
🚱 Back 👻 🕥 👻 🏂 🔎	Search 😥 Folders 🛄 🕶	
Address 🛅 C:\Data\2		💌 🄁 Go
File and Folder Tasks       Image: Comparison of the compariso	<ul> <li>ID00000_060713.dat</li> <li>DAT File</li> <li>173 KB</li> <li>ID00000_060728.dat</li> <li>DAT File</li> <li>21 KB</li> </ul>	
Other Places		
My Documents	~	



## Dumping data by each On/Off datalog power

Step 1: To select "Divide by Tag" and to press dump button



Step 2: To check the data files





"Erase if dump finished" meaning is it would automatic erase data when had finished dump.

Dump & Frase			
			Erase if dump finished
ID: 0		All Data	
Buffer usage : 4.55% Ava	ailable Point: 1295	O Divide by Date	Dump Way Points
Data dumped at C:\Data\3\			Erase Only

## How to erase SRAM data

Step 1: To press "Erase Only" button

Dump & Erase			<u></u>	
ID: 0			All Data	Erase if dump finished
Buffer usage : 4.55%	Available Point:	1267	<ul> <li>Divide by Date</li> <li>Divide by Tag</li> </ul>	Dump Way Points
Data dumped at C:\Data\1\				Erase Only

#### Step 2: To press "Yes" button for make sure




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## 6.2.2 Product ID and Password Setting

#### How to enter password

If user already key-in password in DL-200BT	
Step 1: To select "Password Command List"	
Step 2: To select Com Port and Bauc	l Rate
Step 3: To key-in password	1
Step 4: To pres	ss "Connect" button
EverMore DataLog Analyxer v3.0 (Wireless Version)	
Dump Format Transferring WayPoints Analysis About	
To DataLogger Com Port COM2	Connect 🔴 🔴
Baud Rate 4800	ScanPort
Password ####	(0~9 , max 5 numbers )

This "Enter Password" item does not have function only default value

DataLogger Parameters Setup Password Command List		0	(0~0
<ul> <li>Enter Password</li> <li>Set/Change Password</li> </ul>	Product ID Password		(0~9, max 5 numbers) (0~9, max 5 numbers)
C Erase Password			



## How to set/change password

Step 1: To select "Passwor	d Comn	nand List"			
Step 2: To s	elect "S	et/Change I	Password"		
Ste	p 3: To k	key-in new	Password		
DataLogger Parameters Setup	nd List				
C Enter Password		Product	D 11	1	(0~9 , max 5 numbers )
Set/Change Pas	sword	Passwor	d 🔰 🎹	##	(0~9 , max 5 numbers )
C Erase Password	ł	New Pas	sword 🕇		(0~9 , max 5 numbers )
O Data Log Comman	d List				
Read Setting	Logge	r Controller	C Disab	le 🤨 Enab	le
- Vince dealing	Time t	o Log	0 min	1 sec	
	Distan	ce to Log	💿 Meter	C Feet	125
					Send Command
Step 4: To press "Send Co	mmand'	,			

## How to erase password

Step 1: To select "Password Command List"

Step 2: To select "Erase Password"

DataLogger Parameters Setup	nd List				
C Enter Password		Product II	D	0	(0~9, max 5 numbers)
C Set/Change Pas C Erase Password	sword	Passwor	d	++++	(U~9, max 5 numbers )
O Data Log Comman	d List	1			
C Read Setting	Logge	r Controller	C Dis	able 👁 Enab	ile
C Write Setting	Time t	o Log	0 m	nin 1 sec	
	Distan	ce to Log	💿 Mete	er C Feet	125
					Send Command

Step 3: To press "Send Command"-



. .

## 6.2.3 Log Time and Log Distance setting

How to disable data log function
Step 1: To select "Data Log Command List"
Step 3: To select "Write Setting"
Step 2: To select "Disable"
Oata Log Command List
C Read Setting Logger Controller  C Myite Setting
Time to Log 0 min 5 sec
Distance to Log 🕟 Meter 🔿 Feet 125
Send Command

Step 4: To press "Send Command"

## How to setup log time and distance

To select "recycle" function it would let SRAM can be overwrite log when SRAM log is full. Step 1: To select "Data Log Command List"

Step 3: To	select "Write Setting"
	Step 2: To key-in time and distance
💿 💿 Data Log Comman	d List
C Read Setting	Logger Controller C Disable C Enable
	Time to Log 0 min 10 sec
	Distance to Log C Meter C Feet 300
	Send Command

Step 4: To press "Send Command"-



# 6.3 Format Transferring

## 6.3.1 Show trace file on E-map

This example will show datalog link with Microsoft Streets and Trips map

Slep 1. 10 press Disconnect Dutto	Step 1	: To	press	"Disconnect"	butto
-----------------------------------	--------	------	-------	--------------	-------

E EverMore DataLog An	alyzer v3.0 (Wir	eless V	ersion)			
Dump Format Transferring	WayPoints Analysis	About				
To DataLogger	Com Port Baud Rate	COM5 4800	Y		Disconnect ScanPort	•
Dump & Erase ID: 0 Way Point Count: 1328	Buffer usage Available Point	e:5% : O	<ul> <li>C All Data</li> <li>C Divide b</li> <li>● Divide b</li> </ul>	ny Date ny Tag	Erase if dump finished Dump Way Points Erase Only	

#### Step 2: The disconnect window

E EverMore DataLog Ana	lyzer v3.0 (Wi	reless Vei	rsion)		
Dump Format Transferring	WayPoints Analysis	About			
	Com Port Baud Rate Password	COM5 4800	•	Connect ScanPort (0~9 , max 5 numbers )	



## Step 3: To select "Format Transferring" page

E EverMore DataLog Analyzer v3.0	(Wireless Version)	)	
Dump Format Transferring WayPoints Ana	alysis About		
Show trace file on E-Map	Virtual ComPort	СОМЗ 💌	Enable
	Baud Rate	4800 💌	
	Load File	Play >>	Pause !
	J		

Step 4: To select show trace file on E-map and to press "Enable" button

Show trace file on E-Map Virtual ComPort COM3 Enable   Baud Rate 4800 Image: Convert File Pause 1   Load File Play >> Pause 1   Coogle Earth Convert Tool Image: Convert File Pause 1   Show Start Point Start Image: Convert File Start   Show Place if Elar Before Play the file, Please Startup E-Map software! Convert KML Only	p Format fransferring   WayPoints	Analysis   About	Ň	$\backslash$
Baud Rate       4800         Load File       Play>>       Pause I         Google Earth Convert Tool	Show trace file on E-Ma	p Virtual ComPort	СОМЗ 💌	Enable
Load File       Play >>       Pause !         Google Earth Convert Tool		Baud Rate	4800 💌	
Google Earth Convert Tool		Load File	Play >>	Pause!
Google Earth Convert Tool         Image: Show Start Point         Show End Point         Logger_wireless         Image: Show Place if Elar         Before Play the file, Please Startup E-Map software!         Image: Show Speeding				
Show Start Point       Start         Show End Point       Logger_wireless         Show Place if Elap       Before Play the file, Please Startup E-Map software!         Show Speeding       Convert KML Only				
Show End Point       Logger_wireless         Show Place if Elap       Before Play the file, Please Startup E-Map software!         Show Speeding       Convert KML Only	Google Earth Convert Tool			
Show Place if Elap Before Play the file, Please Startup E-Map software! Show Speeding Convert KML Only	Google Earth Convert Tool			
Convert KML Only	Google Earth Convert Tool  Show Start Point Start  Show End Point Logger	wireless		]
	Google Earth Convert Tool	wireless	E-Map software!	

## Step 5: Double click Streets & Trips icon



Microsoft Streets & Trips



Step 6: To press "Load file" button

EverMore DataLog Analyzer v3.0 (Wireless Version)	
Dump Format Transferring WayPoints Analysis About	
Show trace file on E-Map     Virtual ComPort COM3     Disab	ile 📃 🛑
Baud Rate 4800	
Load File Play >> Pause	91

#### Step 7: To open a data file

Open		? 🗙
Look in:	🔁 Data 💌 🔶 📸 🎹 🗸	
My Recent Documents Desktop	☐ 1 ☐ 2 ☐ 3 ☑ ID01023_060705.dat	
My Documents		
My Computer		
<b></b>		
My Network Places	File name: ID01023_060705.dat	Open
, 13000	Files of type: DataLogger files (*.dat)	Cancel



## Step 8: To setup streets & trips COM port it needs same as datalog Virtual ComPort number

## North America Countries-

1401	In America Countries	0 mi 200 400
	GPS Receiver Settings	A
Va		QUÉBEC
	To configure your GPS receiver:	INTARIO Charlott
Por	<ol> <li>Ensure that your GPS receiver is NMEA 2.0-compatible and that the input/output format (interface) is set to support the NMEA 2.0 or later data format. For more information, see the documentation for your device.</li> </ol>	oThunder Bay Montréal ■ ME
1	<ol><li>Install any necessary drivers that came with your GPS receiver. For more information, see the documentation for your device.</li></ol>	MICHIGAN Ottawa N.Y. Bosto
	<ol><li>For best results, connect the device to your computer, and turn the device on, if necessary.</li></ol>	vaukee
	<ol><li>Choose the port for which your device is configured from the list below, or click Scan to search for available GPS devices.</li></ol>	Chicago OHIO P A New York Philadelphia
	5. For more help with troubleshooting, click the Troubleshoot button.	
	Current port: Troubleshoot	ILLINOIS IND. Cipernisti IIS Louisville Ky.
	COM1	Nashville Day Beach
os Ang	Available ports:	ohis Atlantic Atlantic
Sai	Communications Port (COM1)	Ucean
Pac Oce	Communications Port (COMS) Communications Port (COM4) Communications Port (COM5)	ALABAMA Savannah Jacksonville
	Scan OK Cancel	A Tallahassee Baton Rouge
	Obregón O Guir or In	rexico Passau

## Step 9: To press "Play" button

EverMore DataLog Analyzer v3.0	(Wireless Version)	
Dump Format Transferring WayPoints And	alysis About	
Show trace file on E-Map	Virtual ComPort COM3	Disable
	Baud Rate 4800	
	Load File Play >>	Pause !



Step 10: To select "Create GPS Trail" and "Track Position"



Step 11: The car trail





#### DL-200BT User's Manual V2.0

#### Step 12: To close streets & trips



Step 13: To close datalog utility

E EverMore DataLog Analyzer v3.0	EverMore DataLog Analyzer v3.0 (Wireless Version)						
Dump Format Transferring WayPoints Ana	alysis About						
Show trace file on E-Map	Virtual ComPort COM3 Baud Rate 4800	Disable					
	Load File F	Play >> Pause !					



## 6.3.2 Google Earth Convert tool

## How to setup Convert KML Only

## Step 1: To press "Convert KML Only" button

E EverMore DataLog Analyzer v3.0 (	Wireless Version	
Dump Format Transferring WayPoints Anal	ysis About	
Show trace file on E-Map	Virtual ComPort	COM3 💽 Enable
	Baud Rate	4800
	Load File	Play >> Pause !
	J	
Google Earth Convert Tool		
Show Start Point Start		
Show End Point End		
☐ Show Place if Elapsed Time >	min	
Show Speeding	Km/hr	Convert KML Only
		Convert KML to GoogleEarth



## Step 2: To open a file

Open					? 🗙
Look in:	🚞 Data		•	⇐ 🗈 📸 🖬	
My Recent Documents Desktop	☐ 1 ☐ 2 ☐ 3 ☐ ID01023_0607	05.dat			
My Documents					
My Computer					
<b></b>					
My Network Places	File name:	ID01023_060705.dat		•	Open
1 10000	Files of type:	DataLogger files (*.dat)		•	Cancel



Step 3: To check a produce KML file



## How to setup Convert KML to Google Earth

Step 1: To press "Convert KML to Google Earth" button





## Step 2: To press "OK" button

ок	
Convert Success, Lau	nching Google Earth
ОК	Cancel

## Step 3: Google Earth will pop up





## How to setup Convert KML to Google Earth and show speeding

Step 1: To press "Convert KML to Google Earth" button

Г	Goog	gle Earth Convert T	[ool			
	V	Show Start Point	Home			
	$\overline{\mathbb{V}}$	Show End Point	Company			
		Show Place if Ela	psed Time >		min	
	V	Show Speeding	30	Km/hr		Convert KML Only
	File	e Created :C:\Data	VID01023_0607	05.kml		Convert KML to GoogleEarth

## Step 2: To press "OK" button

ОК	
Convert Success, Lau	nching Google Earth
ОК	Cancel

#### Step 3: To press "Yes" button

Soogle Earth	
Do you want to reload file "C:\Data\D0102~1.KML" a	and lose any edits you've made?
Yes No	Always (don't ask again)



#### Step 4: Google Earth will pop up



## How to setup Convert KML to Google Earth and show stay time

Step 1: To press "Convert KML to Google Earth" button

Google Farth Convert To	ol		
🔽 Show Start Point 🖡	Home		
Show End Point	Company		
Show Place if Elaps	sed Time > 1	min	
Show Speeding	30 Km/hr		Convert KML Only
File Created :C:\Data\II	D01023_060705.kml		Convert KML to GoogleEarth



#### Step 2: To press "OK" button

ок	
Convert Success, Laur	nching Google Earth
ОК	Cancel

#### Step 3: To press "Yes" button



#### Step 4: Google Earth will pop up





## 6.3.3 Converting files

#### How to Convert OziExplorer files

This \*.plt format can fit "OziExplorer" software

Step 1: To select \*.plt and to press "Convert" button

Convert To
File Type : OziExplorer files (*.plt)
Convert

#### Step 2: To open a file

Open					? 🛛
Look in:	🗀 Data		•	+ 🗈 💣 📰+	
My Recent Documents Desktop	☐ 1 ☐ 2 ☐ 3 ☐ ID01023_0607	05.dat			
My Documents					
My Computer					
- <b>S</b>					
My Network Places	File name:	ID01023_060705.dat			Open
	Files of type:	DataLogger files (*.dat)		<b>_</b>	Cancel



Step 3: To press "OK" button



#### Step 4: To check \*.plt file





The OziExplor icons



The OziExplor contents

🕰 OziExplorer	
File Select View Map Options Moving Map Navigation Magellan Help	
1       Image: Second se	J Info
A S S S S S S S S S S S S S S S S S S S	) 🗠 🕈
783 : 341	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
) t 😵   m 🗠 🌹	
Map Waypoint Event Track Route	



## How to Convert GPS files

Step 1: To select \*.gps and to press "Convert" button

Convert To	
File Type : [GPS files(*.gps]	
Form :C:\Data\D01023_060705.dat	
To :C:\Data\D01023_060705.ptt	
	Convert

## Step 2: To open a file

Open					? 🛛
Look in:	🗀 Data		•	+ 🗈 💣 🎟+	
My Recent Documents Desktop	₩ ID01023_0607	05.dat			
My Documents					
My Computer					
My Network	File name:	ID01023_060705.dat		•	Open
Places	Files of type:	DataLogger files (*.dat)		•	Cancel



Step 3: To press "OK" button



#### Step 4: To check \*.gps file





http://www.emt.com.tw

## How to Convert Waypoint files

## This \*.txt format can fit "Pa Pa Go" e-map

Step 1: To select \*.txt and to press "Convert" button

Convert To	
File Type : Waypoint+ files(*.txt)	
Form :C:\Data\D01023_060705.dat	
To :C:\Data\D01023_060705.gps	
	Convert

#### Step 2: To open a file

Open					? 🛛
Look in:	🗀 Data		•	+ 🗈 💣 🎟•	
My Recent Documents Desktop My Documents	D01023_06070	5.dat			
My Computer					
My Network Places	File name:	ID01023_060705.dat		•	Open
1 1000	Files of type:	DataLogger files (*.dat)		•	Cancel



Step 3: To press "OK" button



#### Step 4: To check \*.txt file





#### How to Convert NMEA0183 files

This \*.txt format can fit "GPSView" test tool.

Step 1: To select \*.txt and to press "Convert" button

Convert To	
File Type : NMEA0183 files(*.txt)	
Form :C:\Data\D01023_060705.dat	
10 .c. batavbo1025_000/05Wp.txt	Convert

Step 2: To open a file

Open					? 🛛
Look in:	🗀 Data		•	+ 🗈 💣 🎟+	
My Recent Documents Desktop	■ ID01023_06070	05.dat			
My Documents					
My Computer					
Mu Notwork	File wearer				0.000
Places	File name: Files of type:	DataLogger files (*.dat)		<u> </u>	Cancel



Step 3: To press "OK" button



Step 4: To check \*.txt file





## How to Convert GPS Exchanges files

This \*.gpx format can fit "Microsoft Streets & Trips" e-map

Convert To File Type : GPS Exchange files(*.gpx)	•	
		Convert

#### Step 2: To open a file

Open		? 🗙
Look in:	🔁 Data 💽 🔶 🖽 🖬 🔹	
My Recent Documents Desktop My Documents	D01023_060705.dat	
My Computer My Network My Network Places	File name: ID01023_060705.dat	Open



Step 3: To press "OK" button



#### Step 4: To check \*.gpx file





# 6.4 WayPoints Analysis

Step 1: To press "Open File" button

E EverMore DataLog Analyzer v3.0 (Wireless Version)					
Dump Format Transferring	VayPoints Analysis   About				
Loading Files					
	Open File				
Analysis Setup					
	Time 6/29/2006 🔽 09:10:24 拱 ~ 6/29/2006 🔽 09:11:52 🐳				
Local time	Lat > 0				
Speed Unit Knots 🚽					
,	Speed > 0 Search by Condition				
Result View Chart View					
	Data Time(GMT) Latituda Lanoituda Speed(Knote)				
Show in GoogleEarth					
2:54:20 PM Save OK	Path: LogCount				



## Step 2: To open a file

Open		? 🗙
Look in:	🔁 Data 💽 🔶 📑 📰 🗸	
My Recent Documents	ID01023_060705.dat	
Desktop		
My Documents My Computer		
<b></b>		
My Network Places	File name: ID01023_060705.dat	Open
	Files of type:     DataLogger files (*.dat)	Cancel



## Step 3: To load data into table

🗧 EverMore DataLog Analyzer v3.0 (Wireless Version)						
Dump Format Transferring WayPoints Analysis About						
Loading Files C:\Data\ID01023_060705.rmc Open File						Open File
Analysis Setup         □ Local Time         □ Local Time         □ Local Time         □ Local Time         □ Local Time					12:09:05 🛨	
Result View Chart View	☐ Speed >	jo r	Speed < [	0	Sear	ch by Condition
		Date	Time(GMT)	Latitude	Longitude	Speed(Kn 🔨
	1	2006/07/05	11:44:58	24.775402	121.002402	000.0
	2	2006/07/05	11:45:08	24.775270	121.002225	000.0
	3	2006/07/05	11:45:18	24.775272	121.002215	000.0
	4	2006/07/05	11:45:28	24.775332	121.002232	000.0
	5	2006/07/05	11:45:38	24.775440	121.002227	003.8
	6	2006/07/05	11:45:48	24.775670	121.001853	007.7
	7	2006/07/05	11:45:58	24.775947	121.001418	009.7
	8	2006/07/05	11:46:08	24.776265	121.001058	007.7
	9	2006/07/05	11:46:18	24.776623	121.001305	009.7
	10	2006/07/05	11:46:28	24.776962	121.001745	007.7
Show in GoogleEarth	11 < III	2006/07/05	11:46:38	24.776498	121.002388	017.4
2:58:34 PM Save OK	Path	:				LogCount



# Step 4: To set condition

E EverMore DataLog Ana	lyzer v3.0	(Wireless V	ersion)			
Dump Format Transferring WayPoints Analysis About						
Loading Files						
C:\Data\ID01023_060705.rmc Open File					Open File	
Analusia Satun						
Analysis Setup						
🔽 Local Time	Lat ≥ 0		1 Lat < 0		0/2000	120.00.00
		`				
Speed Unit Km/hr 💌					Sear	ch by Condition
	J✔ Speed>	J10 I	Speed <	50		
Result View Chart View						
		[n .		h as i	h s i	
		Date	l ime(Local)	Latitude	Longitude	Speed(Km 🔨
	5	2006/07/05	19:46:28	24.776962	121.001745	014.3
	6	2006/07/05	19:46:38	24.776498	121.002388	032.2 =
	7	2006/07/05	19:46:48	24.775957	121.003152	032.2
	8	2006/07/05	19:46:58	24.775470	121.003935	028.7
	9	2006/07/05	19:47:08	24.775115	121.004640	025.2
	10	2006/07/05	19:47:18	24.774852	121.005193	025.2
	11	2006/07/05	19:47:28	24.774583	121.005795	014.3
	12	2006/07/05	19:47:58	24.774542	121.005990	010.7
	13	2006/07/05	19:48:08	24.774250	121.006725	032.2
	14	2006/07/05	19:48:18	24.773883	121.007677	032.2
Show in GoogleEarth	15	2006/07/05	19:48:28	24.773525	121.008557	028.7 💌
2:58:34 PM Save OK	Path	:				LogCount

Step 5: To press "Show in Google Earth" button



Step 6: The Google Earth will pop up





## Step 7: To select "Chart View"

EverMore DataLog An	alyzer v3.0 (Wireless Version)	
Dump Format Transferring	WayPoints Analysis About	
Loading Files C:\Data\ID01023_060705.r	mc	Open File
Analysis Setup Local Time Speed Unit Km/hr	Time       7/ 5/2006       ▼ 19:44:58       ~       7/ 5/2006         Lat > 0       Lat < 0	20:09:05 🛟
Result View Chart View	VVavPoints Analysis Chart	
WayPoints Count: 142 Start Time: 2006/07/05 19:44:58 End Time: 2006/07/05 20:09:05	0	
Save Chart to Bmp File	, 	
3:14:40 PM Save OK	Path:	LogCount



#### Step 8: To select X, Y parameters



Step 9: To press "Save Chart Bmp File" button



http://www.emt.com.tw

Step 10: To check a BMP file





## 6.5 About




## 7. Limited Warranty

The DL-200BT is warranted to be free from defects in material and functions for one year from the date of purchase. Any failure of this product within this period under normal conditions will be replaced at no charge to the customers

## 8. Appendix

## EverMore Website

Welcome to EverMore website at <u>http://www.emt.com.tw</u> or <u>http://www.globalsources.com/gpsevermore.co</u> for updated product information and drivers download.

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