

Geotagger Pro

User's Manual



Shenzhen Solmeta Technology Co., Ltd

Address: Room 327, Building 5, Zhongxing Industrial Chuangye Road, Nanshan District, Shenzhen, China

Tel: 0755-27809717 Fax: 0755-27809719

Email: info@solmeta.com

Website: www.solmeta.com

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Introduction

Thank you for purchasing Solmeta Geotagger Pro GPS unit, a geo-tagging device especially for Nikon cameras which the GPS information can be directly inputted, the GPS data information such as latitude, longitude, altitude and Coordinated Universal Time(UTC)can be automatically written in the photo files. And it also can be used as a GPS Data Logger with 8MB flash memory.

Be sure to read this manual thoroughly before use.

Unique Features

- * Used with a Nikon camera, the Geotagger Pro provides real time position (latitude, longitude, altitude) and UTC time information to your DSLR camera and records the locations to each digital image files taken by your camera.
- * Equipped with 3-axis electronic compass which can record the heading and pitching angle and roll angle. Its magnetic delination is adjustable.
- * Easy to read LCD display, showing real-time related information.
- * Built in internal rechargeable battery, lasting up to 10 hours. Automatically switch over to Nikon camera for power source when the device is in low on power.
- * Auto Power on/off design. The Pro will turn on when the camera is turned on and will turn off when the camera is turned off. (For mode setting see page 4)
- * Indoor Lock GPS signal fixing ability.
- * Built in a 8MB flash memory, can be used as a GPS Data Logger.
- * Also for use with other digital cameras with hot shoe, each time the camera takes a picture with the Pro attached ,the device automatically records GPS data in its memory, the GPS data information can later be matched with the photos by software.
- * Firmware upgradeable.

NOTE

* Universal Time Coordinated (UTC)

The UTC data is provided by the GPS and is independent of the camera clock.

* Indoor Lock GPS signal fixing ability

It is a unique feature of Solmeta GPS products .The feature allows the Pro device to continuously to supply location information to the camera, even if the signals from GPS satellites are blocked. If you should enter a place, such as a building, where the roof blocks the signals from the GPS satellites, the Pro device memorizes the last location fix and sends this location to the camera for each photograph taken. Once you leave the covered area, the Pro device will automatically reacquire the GPS signal and will continue to record the new location information to the files on your camera as usual. **(The default is Lock. Disable Lock function please see page 5)**

Packing List

1×Geotagger Pro GPS Unit.

- 1×Protection bag.
- 1×Y-1 cable for connection to cameras with 10-pin remote terminals.
- 1×Y-2 cables for connection to cameras with accessory terminals, such as Nikon D90 or D5000.
- 1×USB cable for charging and data transmission.
- 1×Camera strap adapter.
- 1×One CD containing user's manual and software utilities.

Optional item (for non Nikon cameras)

1x Flash hot shoe adapter

Supported Cameras

The Pro can be used with the following cameras:

Camera	Required cable
D3,D700,D300,D2X <d2xs,d2hs,d200< td=""><td>Y-1</td></d2xs,d2hs,d200<>	Y-1
D90,D5000	Y-2

Product Overview



Button Instruction

Power Switch Button

Press the power switch button for 2 second to turn the Pro device on or off. **ENTER Button** Short press to setting / confirm. Long press for 2 seconds for Magnetic Declination adjustment. (See page10) **MENU Button** Short press for select function. Long press for 2 seconds for compass calibration.

"Auto Power on/off mode" setting

Quickly Press the Power Switch Button, a "beep" will be heard and a "AUTO" will be displayed in the LCD, this means the Pro is in the Auto Power on/ off mode. Short press the **MENU** button to disable the "Auto power on/off mode".

Disable "Indoor Lock" function setting

1.Please select the screen display shown as below (LAT appears)



2.Short Press Enter button, a "beep" will be heard and the display screen shown as below, LOC icon is flashing



3. Then short press the Menu button to select UNLOC, the UNLOC icon is flasing on the screen as below



4. Then short press Enter button to confirm.

Charging

- **1**. Connect the Pro device with a computer or the (optional) AC adaptor, using the supplied USB cable.
- **2**. Make sure the computer provides power. Full charging time for the Pro is around two and half hours.
- **3**. The Pro can be turned on or turn off when in charging, but only when on the battery indicator is displayed in the LCD.
- **4**. When the internal battery is fully charged, disconnect the Pro from the computer or AC outlet.
- **NOTE:** The built-in rechargeable battery can not be replaced by users; it needs to be replaced by our professional technician if it needs servicing. We are not responsible for any loss caused by the improper usage of the Pro.

Auto Meter off: D3,D3X, D3S, D700, D300, D90,D5000

Nikon added a new GPS function to the D3, D3X, D3S, D700, D300 and D90. The new function resolved a battery drain issue by allowing the user to select the metering system to stay On or auto Off when GPS signals are received to reduce power consumption.

LCD Display overview



- 1.Function indicator
- 2.GPS indicator
- 3.Battery indicator
- 4.Latitude , longitude indicator
- 5.Data indicator



LON=Longitude, W-west, E-east



LAT=Latitude ,S-south N-north



ALT=Altitude (unit: meter)



SPE=Speed (unit: km/h)





SAT=The numbers of satellite which are used for signal acquisition.



DIR=The numbers indicates the compass heading information .



GRA=Gradienter. The numbers in the left is the pitching angle data, the numbers in the right is the roll angle date, and the bar immediately in the position left of the numbers indicates the status of the object.



MEM=Memroy . The numbers indicates the used memory capacity in percent.



CON=Continuous icon indicates the Pro continues to record the GPS data in logging mode.



GPS indicator: GPS Icon indicates the Geotagger Pro is receiving a signal or not. A flashing GPS icon indicates that the Pro is sesearching for a GPS signal. A static GPS icon indicates that the Pro is providing the GPS data to the camera.



Battery indicator: The icon indicates the battery level.When the internal battery of the Pro is low, battery icon will flash. When internal battery of the Pro is extremely low, the battery icon will flash and users can hear "beep" tone. For Nikon camera users, the Pro will automatically switch to use the camera battery once its own battery is depleted.

Others

Backlight is automatically on with every button-press. It will turn off automatically after 6 seconds.

Beep tone:

Short press the button for 1 second, and you will hear one beep. Long press the button for 2-3 second, no beep .

Automatically cycle display in over 3 minutes without pressing button. LON, LAT, TIM, DIR 2 seconds for one display.

Setting up instruction

Fix the Pro with GPS satellites signal

- * To get a quick fix, please take the Pro and your camera to an open outside space and stand still before connecting the Pro with camera. Holding the Pro in one of your hand still will enable faster acquisition process.
- * Turn it on, then wait for the GPS signal to be fixed.

The GPS icon displayed on the LCD first will be flashing, a flasing GPS icon indicates that the GPS device is searching for satellite signal, and after a while, the GPS icon will be static, this means that the GPS signal on the Pro is now fixed. The LCD will now display related information, latitude, longitude, time, compass heading.

Connecting the Pro with camera

1.Turn the camera off.

- 2.Mount the Pro onto the hot shoe or attach to the camera strap(see the photo instruction below)
- 3. Insert the 10-pin connector of Y-1 into the camera's 10-pin remote terminal and tighten the locking nut (for cameras with 10-pin Remote Terminals)OR insert the 8- pin connector of Y-2 into the GPS terminals of Nikon D90 and D5000, be sure that the connector is in the correct orientation. Do not force the connector and ensure the pins line up in the correct way. Then insert the mini USB connector of Y-1 or Y-2 into the USB terminal of the Pro.
- **4.**Turn the camera On, a **GPS** icon will be displayed in the control panel on top of the camera, and as soon as the icon will stay steady the photos you are taking will be recorded with geographical information.

No GPS icon	Not connected with the camera
GPS icon Flashing	Not fixed, signal searching
GPS icon displayed	GPS fixed

Camera GPS ICON indication

Mounting the Pro on the camera



Fixing the Pro onto the hot shoe of the camera



Using the adapter and camera strap

Notes

- 1. If the Pro unit is properly connected, the camera will display a blinking GPS icon in the top LCD control panel as the GPS receiver is searching for a signal. The icon will stop blinking when a signal has been established and the Pro is ready to supply the current position.
- 2. If there is no blinking GPS icon, check the connection, and make sure the device is powered on.
- 3. To improve the GPS data accuracy, we suggest holding the camera steady for a few minutes when initially fixing the signal, this is especially important for the value of altitude.
- 4. The Pro may require a longer time to obtain a position fix when first started up. Initial fix can take around two minutes or even longer in a weak signal environment. Following the initial fix signal acquisition in the same location is much faster, even if the Pro has been manually turned off (around 20 seconds). An open sky, outdoor environment will enable even faster acquisition process.
- 5. Some Nikon cameras have an 'auto meter off' option that is also a power saving method. We suggest adjusting it to 30 seconds or more to avoid missing the GPS data during acquisition, or half press the shutter to activate the GPS when taking a photo.

Compass Calibration Procedure

Why calibrate?

The compass in the Pro is sensitive to nearby magnetic objects that could cause measuring error. To compensate for this error it is sometime necessary to perform an calibration. (If the compass is accurate, there is no need to perform the calibration)

How to calibrate

1. Mount the Pro onto the camera's hot shoe and turn the Pro and the camera on.

2. Long press MENU button for 2 seconds. LCD display as below:



- **3**. Rotate the Pro device 360° clockwise slowly, during this period, ensure you keep Pro level. Take as much as 30 seconds to complete a circle.
- **4**. With the Pro mounted on the hot shoe, turn camera forward through 180° and return the camera to its original position. Take as much as 30 seconds to complete a circle.
- 5. Press MENU button again to confirm.
- 6. Repeat 3, 4 ,5 steps one or two times if necessary.

Magnetic declination adjustment.



- **1.** Turn on the Pro device.
- 2. Long press ENTER Button for 2 seconds , LCD displays as below:



- **3.** Point the Pro to the True North (see picture above , you should find the True North in you location with help of map or other compass), and keep it level to the ground.
- **4.** Continue to hold the Pro pointing the true North for approximately 20 seconds, until the GPS icon blinks. The magnetic declination has been calibrated.

System Reset

If the compass is not accurate after the self calibration, it should be reset. With the Pro device switched on, firmly press both the ENTER and MENU button together for about 2 seconds. The screen will display as below:

RESET

Press ENTER button to confirm system reset.

Other digital camera with hot shoe

- **1.** Fix the Pro with GPS satellites signal, same as the using of Nikon camera.
- 2. Turn the camera off.
- 3. Mount the Pro onto the hot shoe, same as when using a Nikon camera.
- **4.** Turn the camera on and take pictures, then each time you press the shutter, the GPS data will be automatically recorded into the memory,
- **5.** Download the data to your pc by using the "Solmeta Utility.exe" provided in the CD, then match photos with the GPS data by software provided in mini CD.

GPS Data Logger function

- 1. Power On the device.
- 2. Connect the device to a computer with the USB cable provided in the package.
- 3. Install the USB driver "Pro driver set up. exe" from the CD provided in the package.
- 4. Using the application software "Solmate Utility.exe" provided in the CD to download the log data to the PC, the data will be saved as Solmeta-TIME.txt, eg. Solmeta_2009923.txt, and can then easily be exported the data to Google Earth, Picassa, Panoramio, etc.

Please go to the relevant websites for further information.

Setting Continuous Record Mode

1. Select this interface by press the **Menu Button**.



- 2. Press the Enter Button ,the CON icon and time will be flashing .
- 3. Press Menu Button to select the record time.

0.05, 0.10, 0.15, 30, 1.00, 2.00, 4.00, 8.00, 16.00, 32.00, con OFF.

4. Press Enter button to confirm.

Software installation & configuration

Install the Pro driver

Install the Pro driver from the CD provided in the package CP210x_VCP_Win2K_XP_S2K3 4.40.exe



Please note that the virtual COM port number might be different on every computer .Before using Solmeta Utility, please confirm the COM port numbers created by your computer and provided to your Solmeta utility.

How to select the proper COM port

1. Open the "Solmeta Utility ", check the existing port before connecting the Pro to your computer.

Port: COMI	4800 - Open Stop	Language:
'ersion:	Memory:	Check Info
ownload Gps Data:		
Gps Data Path: Browse	Downloa	id Data Erase Memory
rmware Upgrade;		
Novelest Hedetics from the size of a second	ous operation.Please confirm whether the fill plug the connecting cable between the devi-	e format of firmware is correct ce and computer during the
efore updating. And make sure do not ur eriod of downloading.	-	

Existing ports

2. Then connect Pro device to your computer by data connecting cable. Now there will be a different Port code displayed. The different Port is the proper port for the Pro. For example, here the COM3 is the proper port to use.

Port Configuration: Port: COM1 COM1	B au	ud Rate: 4800) v Open	Stop Eng	guage: lish
Version:			Memory:		Check Info
Download Gps Dat	a:				
Gps Data Path:	Browse			Download Data	Erase Memory
Gps Data Path: D:WorkContents\s	Browse	 Fere\Test\UART	[_Bootloader_Solmeta	Download Data	Erase Memory
Gps Data Path: D:WorkContents\s	Browse solmeta\PhotoF	Fere\Test\UART	F_Bootloader_Solmeta	Download Data	Erase Memory
Gps Data Path:	Browse	Fere\Test\UART	F_Bootloader_Solmeta	Download Data	Erase Memory
Gps Data Path: D:WorkContents\: Firmware Upgrade:	Browse	Fere\Test\UAR1	r_Bootloader_Solmeta	Download Data	Erase Memory
Gps Data Path: D:WVorkContents& Firmware Upgrade: [Warning]: Updatin, before updating. Ar period of download	Browse solmeta\PhotoF g firmware is a id make sure d ing.	Fere\Test\UART	F_Bootloader_Solmeta eration.Please confirm wi le connecting cable betwo	Download Data	Erase Memory

Firmware upgrading The Pro can be firmware upgraded.



1. Click the

from the CD provided from the package.

- 2. Connect the Pro device to your computer with your data connecting cable.
- 3. Turn off the Pro.
- 4. Press firmly **Power** button and **MENU** button together.
- 5. You can see the backlight is on
- 6. Open the application software "Solmeta Utility",

Solmeta Utility		
Port Configuration:		
Port: COM1 Baud Rate: 4800		Stop
COM1 COM3		
		Ver
I		1.5
Download Gps Data:		
Province 1	Download Data	Eroco Momony
Gps Data Path:		Erase meritory
D:\My Documents\桌面\Upgrade 2009-10-13		
Firmware Upgrade:		
Marning I Indating firmware is a dangerous operation Pleas	e confirm whether the file format of firn	nware is correct
before updating. And make sure do not unplug the connecting	cable between the device and compu	ter during the
period of downloading.		
Firmura Deth: Browse	VIII IV ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Download Updata
Finnware Fain.		
Pinnware Path. D:\My Documents\桌面\Solmeta PBO V1.0-4(2009-12-03) thr	$\langle $	

- 7. Choose the right port.(I) See page 12.
- 8,9 Click the "Browse" button to find the upgrade files "Solmeta Geotagger-PRO V1.0" in your computer.(II, III)
- 10. Then click "Download Updata" button to upgrade. (IV)During this period, the backlight is flashing. Please wait for a few minutes.

Download the data .

You can download the recorded GPS Logger data to your computer.

- 1. Turn on the Pro.
- **2.** Connect the Pro to your computer.
- 3. Choose the proper COM port.(I)
- 4. Browse and choose the file you want to save your data.(II, III)
- 5 Click "Download Data" to down the logger data recorded in the pro.(IV)

Port Configuration:	-				Language:
Port: COM1 COM1	Baud	Rate: 4800	- Ope	n Stop	English
Version:	~	ì	Memory:		Check Ir
Download Gps Dat	a:		IV		
		\swarrow^{II}	ш	>	<u></u>
Gne Data Path	Arowiee			(Download D)ata 📘 👌 🛛 Erase Memo
ops Data Fath.	Biowseil		1	1	
D:WorkContents	solmeta\PhotoFe	ire\Test\UART_Bo	ootloader_Solmeta		
D:WorkContents	solmeta\PhotoFe	re\Test\UART_B	ootloader_Solmeta		
D:WorkContents	solmeta\PhotoFe	re\Test\UART_B	ootloader_Solmeta	>	2
D:WorkContents	solmeta\PhotoFe	ure\Test\UART_B	ootloader_Solmeta		
Firmware Upgrade [Warning]: Updatin before updating. Al period of download	solmeta\PhotoFe g firmware is a da nd make sure do ling.	angerous operation of unplug the co	on.Please confirm onnecting cable bet	whether the file for ween the device a	rmat of firmware is correct and computer during the

The data file will be saved as Solmeta_TIME.txt (eg. Solmeta_2009923.txt) as below

🖥 Solmeta_2009924.txt - 记事本	
文件 (E) 编辑 (E) 格式 (Q) 查看 (Y) 帮助 (H)	
\$GPRMC,00#downcomplete##download002d#	~
\$GPRMC,004052.555,A,2231.1619,N,11355.0985,E,0.20,351.18,110909,,,A*6E	
\$PTNTHPR,59.8,N,-2.2,N,-2.2,N,A*6A	
\$GPRMC,004059.555,A,2231.1614,N,11355.0990,E,0.31,354.33,110909,,,A*60	
\$PTNTHPR,59.8,N,-2.2,N,-2.2,N,A*6A	
\$GPRMC,004119.555,A,2231.1533,N,11355.1038,E,0.31,344.92,110909,,,A*63	
\$PTNTHPR,59.7,N,-2.2,N,-2.2,N,A*6A	
\$GPRMC,004139.000,A,2231.1458,N,11355.1074,E,0.09,115.22,110909,,,A*66	
\$PTNTHPR,59.5,N,-2.2,N,-1.7,N,A*6C	
\$GPRMC,004159.000,A,2231.1457,N,11355.1069,E,0.37,318.09,110909,,,A*68	
\$PTNTHPR,40.9,N,-7.1,N,-36.4,N,A*7D	
\$GPRMC,004219.000,A,2231.1425,N,11355.1098,E,2.40,349.14,110909,,,A*6E	
\$PTNTHPR,295.2,N,-7.1,N,-5.8,N,A*72	
\$GPRNC,004238.000,A,2231.1428,N,11355.1114,E,0.73,221.07,110909,,,A*6A	
\$PTNTHPR,46.7,N,-5.3,N,-4.0,N,A*69	
\$GPRMC,004258.000,A,2231.1325,N,11355.1144,E,0.35,278.84,110909,,,A*66	
\$PTNTHPR,274.0,N,-6.7,N,-8.0,N,A*74	
\$GPRMC,004318.000,A,2231.1406,N,11355.1183,E,2.52,300.35,110909,,,E*6D	
\$PTNTHPR,45.9,N,-9.8,N,-7.6,N,A*6A	
\$GPRMC,004337.000,A,2231.1214,N,11355.1094,E,4.20	
\$GPRMC,033523.233,A,2234.2660,N,11409.9908,E,0.10,102.39,140909,,,A*65	
\$PTNTHPR,294.6,N,-10.8,N,-3.5,N,A*66	
SGPRMC,033534.000,A,2234.2654,N,11409.9937,E,0.13,64.24,140909,,,D*51	
\$PTNTHPR,294.7,N,-10.8,N,-3.5,N,A*66	
\$GPRMC,033554.000,A,2234.2629,N,11410.0015,E,0.06,101.33,140909,,,D*65	
\$PTNTHPR,295.5,N,-10.3,N,-3.5,N,A*6E	
ŞGPKMC,033014.000,A,2234.2650,N,11410.0019,E,0.15,255.73,140909,,,D*64	
\$PINIHPK,294.8,N,-10.8,N,-3.5,N,A*66	
SUPRNC, 033033.000, A, 2234.2034, N, 11410.0024, E, U. 06, 95.63, 140909, , , A*55	
\$PINIHPK, 354.3, N, -10.8, N, -0.8, N, A*68	
\$GPKMC,033053.000,H,2234.2020,N,11410.0025,E,0.09,64.54,140909,,,A*54	~

Data of hot shoe triggered as below

flash

\$GPRMC,030223.570,A,2231.1466,N,11355.0952,E,0.40,156.78,131009,,,A*65 \$GPGGA,030223.570,2231.1466,N,11355.0952,E,1,04,4.3,39.5,M,-2.6,M,,0000*71 \$PTNTHPR,319.4,N,-69.7,N,-82.4,N,A*7C

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Erase memory

- 1. Turn on the Pro device
- 2. Connect Pro device to your computer with data cable provided
- 3. Select the proper COM port.
- 4. Click the "Erase Memory" button

Solmeta Utility		
Port Configuration:	Baud Rate: 4800 🚽 Open	Stop
Version:	1 Memory	Check Info
Download <mark>Gps</mark> Data: —	Erase plan	
Gps Data Path:	Erasing Memory	Erase Memory
D:\WorkContents\soln		
	Time: 00:00:02	OK
Firmware Upgrade: —		
(Warning): Updating firn before updating. And m period of downloading.	ware is a dangerous operation.Please confirm whether t ake sure do not unplug the connecting cable between the	the file format of firmware is correct device and computer during the
	Browca	Basilian

Warranty

- Solmeta Technology Co., Limited guarantees its product from manufacturing defects and workmanship for a period of one-year from the date of original purchase. During the one-year warranty, Solmeta Technology will repair or replace the product free of charge. Please keep your original invoice as proof of purchase.
- Customers who have products covered under the warranty are required to contact Solmeta Technology by e-mail for troubleshooting issues before returning the product.
- Customers are responsible for shipping and insurance charges for returning the product to Solmeta Technology.
- Charges will be imposed for repairing product, which is out of warranty coverage or invalid warranty.
- The guarantee is not valid if defect is due to damage caused by incorrect use, poor maintenance or if persons not authorized by Solmeta Technology have carried out alterations or repairs.
- For the device to be used correctly, the user should strictly adhere to all instructions included in the user guide and should abstain from any actions or uses that are described as undesired or which are warned against in the user guide.

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Information in this document is subject to change without notice. Solmeta Technology reserves the right to change or improve their products and to make changes in the content without obligation to notify any person or organization of such changes or improvements.

Specifications

GPS				
ELECTRICAL CHARACTERISTICS				
GPS Chipset	SiRF Sta	ar III		
Frequency	L1, 157	5.42 MHz		
C/A Code	1.023 M	Hz chip rate		
Channels	20 chan	nel all-in-view tracking		
Tracking sensitivity	-159dBr	n		
ACCURACY				
Position Horizontal	10 mete	rs, 2D RMS		
	1-5 met	ers 2D RMS, SBAS corrected (WASS, EGNOS, MSAS)		
Velocity	0.1m/se	с.		
Time	1 micro-	second synchronized to GPS time		
DATUM& PROTOCOL				
Datum	WGS-84	1		
GPS Protocol	NMEA 0	NMEA 0138 ASCII		
Baud Rate	4,800 bp	DS		
ACQUISITION RATE				
Hot start	1 sec., a	average		
Warm start	38 sec.,	average		
Cold start	42 sec.,	average		
Reacquisition	0.1 sec.	, average		
DYNAMIC CONDITION				
Acceleration Limit	Less that	an 4g		
Altitude Limit	18,000 r	neters (60,000 feet) max		
Velocity Limit	515 meters/sec. (1,000 knots) max			
Jerk Limit	20 m/sec*3			
3 AXIS ELECTRONIC COM	IPASS			
Magnetic Measuring scope		50A/m		
Azimuth Range		0-359°		
Accuracy		±5°		
Resolution		3°		
3 AXIS ACCELERATION	SERSOR			
Measuring scope	+/- 60°			

Accuracy	±5°
Resolution	+/- 5°
BATTERY	
Battery	500mAh Li-ion
Operation Current	Lower than 60mA
Charging Current	300mA
Operating Conditions	
Operating temperature	-10°C -50°C(-2°F ~ 122°F)
Humidity	Operational up to 95% non-condensing
SIZE & WEIGHT	
Dimension	56 (L)mmX36(W)mm X 19(H)mm (2.2" [L] x 1.4" [W] x 0.7" [H])
Weight	50g (1.8 oz)
INTERFACE	
12 pin USB port, Nikon 10 p	in port, Nikon 8 pin port(for Nikon D90), USB charging port, Ф2.5mm remote port

Precautions

- Do not open, disassemble, or repair the product by yourself under any circumstances. Doing so may be dangerous and will invalidate your warranty.
- Do not expose the product to extremely high temperatures, which can cause permanent damage. (For example, leaving the device in a closed vehicle under the sun or in other areas subject to extremely high temperatures.)
- Do not handle with wet hands, immerse in, or expose to water or rain. Failure to observe this precaution could result in fire or electric shock.
- Keep away from fire or flammable gas
- Turn Off immediately in the event of malfunction. Should you notice smoke or an unusual smell coming from this product, remove the GPS connector immediately, and send it back to Solmeta Company. For more information, please visit our website at <u>www.solmeta.com</u>