



# GPS Director GD-101 User Manual

Version 1.0



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# Chapter 1 : Functions and Specifications

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## Function and Features

- Can set 5 Destination Points
- Display directions with Digital Arrow Display (Can display 16 directions)
- Magnetic North Direction Indication; present coordinates display
- Manual Setting of Destination Coordinates
- Maximum Destination Distance Showing (0~999.99)
- GPS fix status indication
- 3 Kinds of Distance Unit: km/mi/nm for setting
- Time Zone Setting/ Date and time display
- End User changeable Battery Design: AAA x 2, Rechargeable Battery /General Battery / Alkaline Battery
- Alkaline battery life can last for 18 hours. The battery life can be lengthened under power-saving mode.
- Simple function of buttons
- Battery Power Level Indication
- Backlight Time Setting
- Power-saving mode setting

## Specifications

<b>Electricity</b>	
GPS chipset	High sensitivity single chip solution
Frequency	L1, 1575.42 MHz
C/A Code	1.023 MHz chip rate
Channels	48 channel all-in-view tracking
Sensitivity	Tracking:-161dBm
<b>Display</b>	
Pixel H*W	96x65 dot Matrix
Backlight Type	White
<b>Power</b>	
Battery Type	AAA X 2
Operation Time	9 hours
<b>Buttons</b>	
Power/Backlight Button	<p><b>Short-click:</b> Turn on backlight.</p> <p><b>Long-click:</b></p> <ol style="list-style-type: none"> <li>1. Power off device under main screen.</li> <li>2. Return to last page under each setting screen. °</li> </ol>
Selection/ Setting Button	<p><b>Short-click:</b> To select.</p> <p><b>Long-click:</b> To set.</p> <p>Make GD-101 enter main screen by long clicking Power/Backlight Button and Selection/ Setting Button at the same time.</p>
<b>Appearance</b>	
Dimension	60 X 60 X 28 (mm)
Weight	45g, (Not including batteries)
<b>COORDINATES SYSTEM</b>	
Coordinates System	Default : WGS-84
<b>DYNAMIC CONDITION</b>	
Accelerate Speed	Less than 4G
Height Limit	18,000 Meter
Speed Limit	515 m/sec
Vibration Limit	20 m/sec**3
<b>GPS FIX TIME</b>	
Hot Start	Average 1 second
Warm Start	Average 38 second
Cold Start	Average 42 second
Get GPS fix Again	Average 0.1 second
<b>Antenna</b>	
GPS antenna	12 X 12 mm, Patch Antenna

<b>ACCURACY</b>	
Horizontal Position	10 meters, 2D RMS 1-5 meters 2D RMS, WAAS corrected
Speed Accuracy	0.1 m/sec
Time Accuracy	1 micro-second synchronized to GPS time
<b>Temperature</b>	
Operation Temperature	0°C ~ 50°C
Storage Temperature	-20°C ~ 70°C
Humidity Range	Operational up to 95% non-condensing
<b>Certification</b>	
FCC	USA (Covers requirements for CANADA ICES-003)
CE	Europe

## Accessories



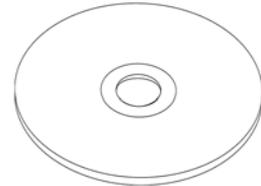
GD-101 Main Unit



Quick Guide



Hang tape



CD

### NOTE :

If any accessory is not included or damaged, please contact the local dealer.

## Appearance



### Front view and Back view

❶	Display	Shows the GPS fix status, power level, destination direction and distance
❷	Battery Cover	Open the battery cover by rotating it according to the arrow.
❸	Power/Backlight Button	<b>Short-click (1sec):</b> Turn on backlight. <b>Long-click (2sec):</b> 1. Power off device under main screen. 2. Return to last page under each setting screen.
❹	Selection/Setting Button	<b>Short-click (1sec):</b> To select. <b>Long-click (2sec):</b> To set. Make GD-101 enter main screen by long clicking Power/Backlight Button and Selection/ Setting Button at the same time.

# Chapter 2 : Start to Use

## Install Battery

Open Battery cover



Loosen the cover



Install Battery



Lock the cover



## Magnetic North Adjustment

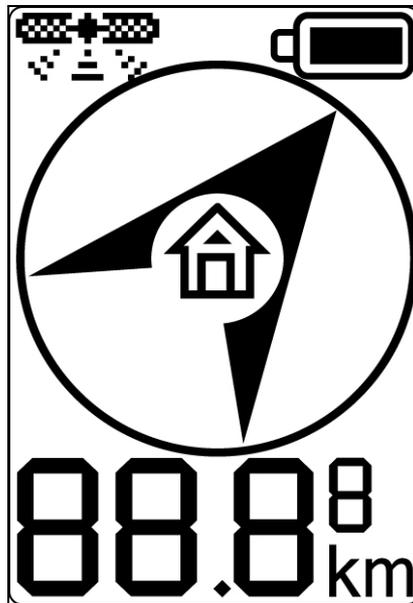
1. When using GD-101 for the first time, GD-101 will automatically perform the magnetic-north adjustment as seen in the screenshot below.

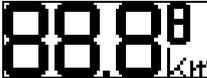


2. For the method of adjustment, please refer to Chapter 3-2.
3. If GD-101 shows the incorrect or inaccurate direction, please perform the magnetic adjustment by operating the function button.

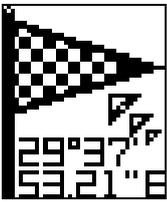
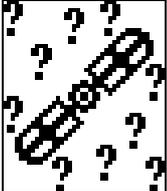
# Chapter 3 : Using GD-101

## 3-1 Direction Indication Screen



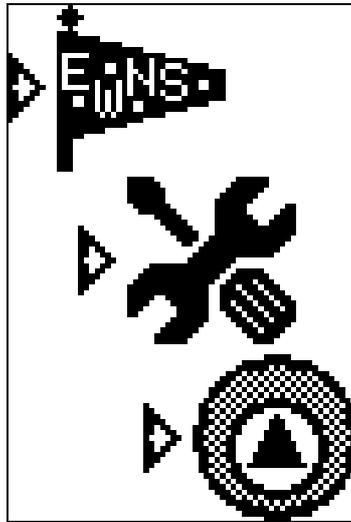
Indication	Description
	<p>The GPS fix indication  will keep ON when device gets a GPS fix. GPS fix indicator will flash when device does not have GPS fix.</p>
	<p>The distance between GD-101 and destination will only be shown/ displayed when device has GPS fix.</p>
	<p>The direction of the setting destination of GD-101. The arrow will direct to the destination after GD-101 has GPS fix and has performed the magnetic-north adjustment.</p>
	<p>What is shown on upper right corner is the battery power level</p> <ul style="list-style-type: none"> <li> 75%~100%</li> <li> 50%~75%</li> <li> 25%~50%</li> <li> Battery Low. Please change the batteries</li> </ul>

### 3-1-1 Automatic Setting the Destination

	Description
	<p>1. Under direction indication screen, click Selection/ Setting button to select and set the following 5 destination's coordinates.</p> <div style="display: flex; justify-content: space-around; align-items: center;">      </div> <p>2. After GD-101 has GPS fix, long click Selection/ Setting button will save the present coordinates as the selected destination's coordinates.</p>
	<p>While GD-101 is saving coordinates, GD-101 will display as seen in the screen shot to the left and then return to the direction indication screen.</p>
	<p>If you try to save the present coordinates under <u>no GPS fix status</u>, GD-101 will display as seen in the screenshot to the left and then return to the direction indication screen.</p>

### 3-2 Main Setting Screen

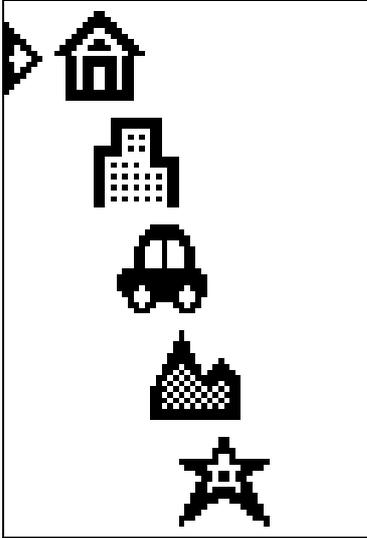
In the direction indication screen, you could make GD-101 enter main screen by long clicking Power/Backlight Button and Selection/ Setting Button at the same time.



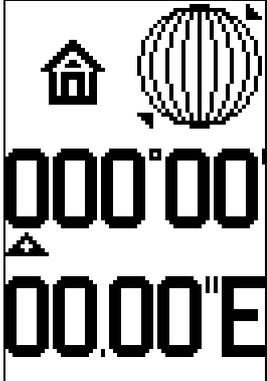
#### Screen and Operation Explanation:

Indication	Function	Operation
	Manual Set Destination's Coordinate	<p><b>Long click</b> Selection/Setting button to enter setting screen.</p> <p>You could set the following 5 destination's coordinates.</p>
	Function Setting	<p><b>Long click</b> Selection/Setting button to enter setting screen.</p> <p>You could set the following items.</p> Time Zone       Distance Unit Backlight Setting       Automatic Sleeping Time
	Data Setting	<p><b>Long click</b> Selection/Setting button to enter setting screen.</p> <p>You could set the following items.</p> Date       GPS Cold Start Delete Memory

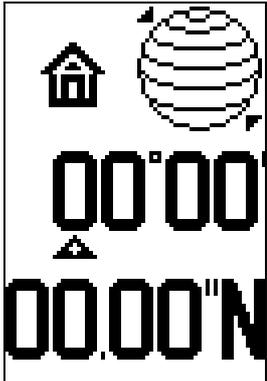
### 3-2-1 Manual Setting Destination's Coordinate

	icon	Explanation
		Set Home's coordinates. The indication  will be ON when the destination's coordinates are set.
		Set Building's coordinates. The indication  will be ON when the destination's coordinates are set.
		Set Car's coordinates. The indication  will be ON when the destination's coordinates are set.
		Set Travel's coordinates. The indication  will be ON when the destination's coordinates are set.
		Set My Favorite's coordinates. The indication  will be ON when the destination's coordinates are set.

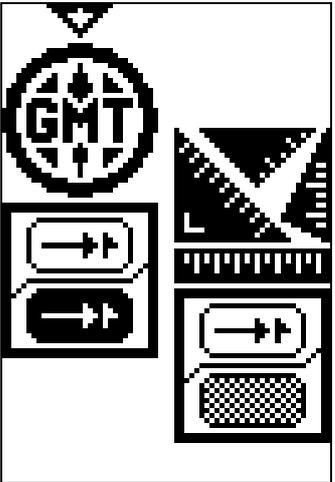
### Setting Destination's Longitude

	<ol style="list-style-type: none"> <li>1. The upper left corner is the selected destination. The number is the setting longitude (East or West). An arrow will be indicated to the number on the initial screen.</li> <li>2. <b>Short click</b> Selection/Setting button to select the number. <b>Long click</b> Selection/Setting button to enter the selected value and move to the next digit for setting.</li> <li>3. The maximum setting is 180 ° 00 '00 . 00 "</li> </ol>
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### Setting Destination's Latitude

	<ol style="list-style-type: none"> <li>1. The upper left corner is the selected destination. The number is the setting longitude (North or South). An arrow will be indicated to the number on the initial screen.</li> <li>2. <b>Short click</b> Selection/Setting button to select the number. <b>Long click</b> Selection/Setting button to enter the selected value and move to the next digit for setting.</li> <li>3. The maximum setting is 90 ° 00 '00 . 00 "</li> </ol>
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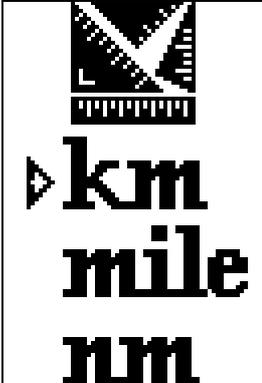
### 3-2-2 Function Setting

	Icon	Explanation
		Set User's Time Zone
		Select the unit of displayed distance, KM, mile, and nm.
		Set backlight timeout
		Set the automatic sleeping time for power-saving

#### Setting Time Zone

	Explanation
	<ol style="list-style-type: none"> <li>1. You could set time zone in this screen. The value on the lower screen represents the GMT time.</li> <li>2. <b>Short click</b> Selection/Setting button to select the time zone.</li> <li>3. <b>Long click</b> Selection/Setting button to save the time zone.</li> <li>4. <b>Long click</b> Power button to return to last screen.</li> </ol>

#### Setting Unit of Displayed Distance

	Explanation
	<ol style="list-style-type: none"> <li>1. You could select the unit of displayed distance in this screen. The default setting is km.</li> <li>2. <b>Short click</b> Selection/Setting button to select the unit.</li> <li>3. <b>Long click</b> Selection/Setting button to save the unit.</li> <li>4. <b>Long click</b> Power button to return to last screen.</li> </ol>

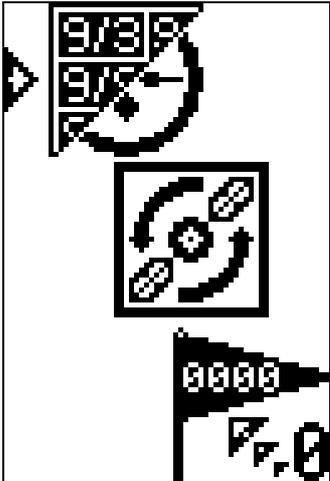
## Setting Backlight Timeout-time

	<b>Explanation</b>
	<ol style="list-style-type: none"><li>1. Set the backlight timeout-time in this screen. The value in the lower screen is the backlight time-out time. The backlight will be on for the time-out time after you short click the power/backlight button.</li><li>2. <b>Short click</b> Selection/Setting button to select the backlight timeout.</li><li>3. <b>Long click</b> Selection/Setting button to save the backlight timeout</li><li>4. <b>Long click</b> Power button to return to last screen.</li></ol>

## Set Idle-timeout Time for Going to Sleep Mode

	<b>Explanation</b>
	<ol style="list-style-type: none"><li>1. Set idle-timeout time for going to sleep mode in this screen. The value in the lower screen represents the idle-timeout time.</li><li>2. <b>Short click</b> Selection/Setting button to select idle-timeout-time.</li><li>3. <b>Long click</b> Selection/Setting button to save idle-timeout-time.</li><li>4. <b>Long click</b> Power button to return to last screen.</li></ol>

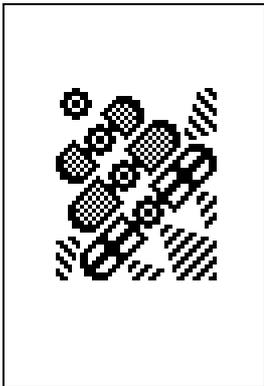
### 3-2-3 Setting Data

	Icon	Explanation
		Display the present time of the set time zone.
		Make GD-101 do cold start ◦
		Delete the setting coordinate of destination in GD-101

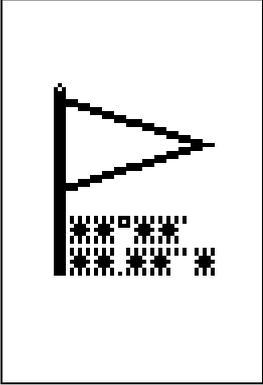
### Showing Date and Time

	Explanation
	<ol style="list-style-type: none"> <li>1. The displayed date and time is from satellite data. It is not user-defined.</li> <li>2. <b>Long click</b> Power button to return to last screen.</li> <li>3. <b>Long click</b> Selection/Setting button to go to main screen.</li> </ol>

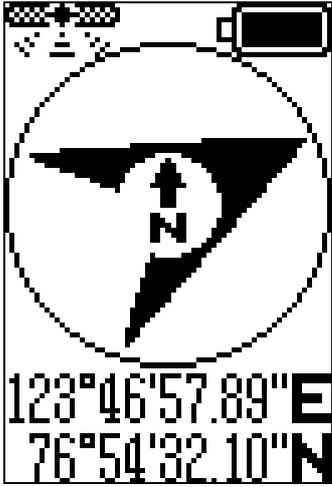
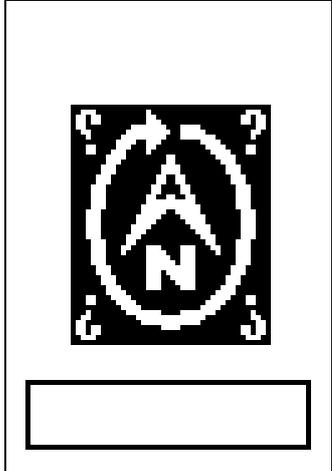
### Cold Start

	Explanation
	<ol style="list-style-type: none"> <li>1. This screen shows GD-101 is performing a GPS Cold Start</li> <li>2. It will return to navigation screen after 1 second.</li> </ol>

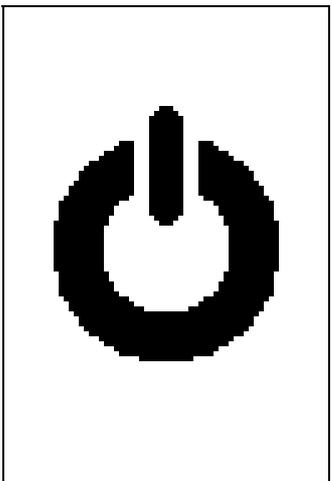
### Deleting Coordinates of Destination Screen

	Explanation
	<ol style="list-style-type: none"><li data-bbox="614 257 1380 336">1. This screen shows GD-101 is deleting the coordinates of the destination.</li><li data-bbox="614 347 1380 392">2. It will return to navigation screen after 1 second.</li></ol>

### 3-3 Adjusting E-Compass

	<p style="text-align: center;">Explanation</p> <ol style="list-style-type: none"> <li>GD-101 will display the magnetic northern direction after entering the adjusting electronic compass mode.</li> <li>GD-101 will show the coordinates after getting a GPS fix.</li> </ol>
	<p style="text-align: center;">Adjusting the Electronic Compass</p> <ol style="list-style-type: none"> <li>You could adjust electronic compass in this screen.</li> <li>In order to avoid the magnetic interference from other objects, please adjust the compass outdoors. Place the GD-101 on flat surface and rotate clockwise 360 degrees, twice.</li> <li>GD-101 will automatically return to navigation screen.</li> </ol>

### 3-4 Turning Off GD-101

	<p style="text-align: center;">Explanation</p> <ol style="list-style-type: none"> <li>In the direction navigation screen, long click power button to turn off GD-101.</li> <li>GD-101 will be turned off 2 seconds after seeing this screen.</li> </ol>
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# Chapter 4: Troubleshooting

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When GD-101 can not be turned on or does not work properly,  
Please check if the battery is installed correctly.

	It requires more time to get GPS fix while GD-101 is moving. Please keep GD-101 stationary when powering on GD-101. This will shorten the time to get a GPS fix.
	Keep GD-101 away from excessive moisture and extreme temperatures. Do not leave it in the closed vehicles or put it under direct sunlight for extended periods of time. Excessive moisture and extreme temperatures may damage the GD-101.
	If the date and time is not correct, please select the local time zone in the time zone setting. Ie PST GMT -8 / Taiwan GMT +8
	Do not put GD-101 near the magnetic objects like electric appliances or magnets. The magnetic objects may cause the GD-101 point to wrong direction.
	If the pointed direction is not accurate, please adjusting the electronic compass.

## Appendix 1 : World Time Zone Table

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<b>Time Code</b>	<b>Description</b>	<b>Region</b>	<b>Time Zone</b>
<i>ACDT</i>	Australian Central Daylight Time	Australia	+10:30
<i>ACST</i>	Australian Central Standard Time	Australia	+ 9:30
<i>ADT</i>	Atlantic Daylight Time	North America	- 3:00
<i>AEDT</i>	Australian Eastern Daylight Time	Australia	+ 11:00
<i>AEST</i>	Australian Eastern Standard Time	Australia	+ 10:00
<i>AKDT</i>	Alaska Daylight Time	North America	- 8:00
<i>AKST</i>	Alaska Standard Time	North America	- 9:00
<i>AST</i>	Atlantic Standard Time	North America	- 4:00
<i>AWDT</i>	Australian Western Daylight Time	Australia	+ 9:00
<i>AWST</i>	Australian Western Standard Time	Australia	+ 8:00
<i>BST</i>	British Summer Time	Europe	+ 1:00
<i>CDT</i>	Central Daylight Time	Australia	+10:30
<i>CDT</i>	Central Daylight Time	North America	- 5:00
<i>CEDT</i>	Central European Daylight Time	Europe	+ 2:00
<i>CEST</i>	Central European Summer Time	Europe	+ 2:00
<i>CET</i>	Central European Time	Europe	+ 1:00
<i>CST</i>	Central Summer Time	Australia	+ 10:30
<i>CST</i>	Central Standard Time	Australia	+ 9:30
<i>CST</i>	Central Standard Time	North America	- 6:00
<i>CXT</i>	Christmas Island Time	Australia	+ 7:00
<i>EDT</i>	Eastern Daylight Time	Australia	+ 11:00
<i>EDT</i>	Eastern Daylight Time	North America	- 4:00
<i>EEDT</i>	Eastern European Daylight Time	Europe	+ 3:00
<i>EEST</i>	Eastern European Summer Time	Europe	+ 3:00
<i>EET</i>	Eastern European Time	Europe	+ 2:00
<i>EST</i>	Eastern Summer Time	Australia	+ 11:00
<i>EST</i>	Eastern Standard Time	Australia	+ 10:00
<i>EST</i>	Eastern Standard Time	North America	- 5:00
<i>GMT</i>	Greenwich Mean Time	Europe	0:00
<i>HAA</i>	Heure Avancée de l'Atlantique	North America	- 3:00
<i>HAC</i>	Heure Avancée du Centre	North America	- 5:00
<i>HADT</i>	Hawaii-Aleutian Daylight Time	North America	- 9:00
<i>HAE</i>	Heure Avancée de l'Est	North America	- 4:00
<i>HAP</i>	Heure Avancée du Pacifique	North America	- 7:00

<i>HAR</i>	Heure Avancée des Rocheuses	North America	- 6:00
<i>HAST</i>	Hawaii-Aleutian Standard Time	North America	- 10:00
<i>HAT</i>	Heure Avancée de Terre-Neuve	North America	-2:30
<i>HAY</i>	Heure Avancée du Yukon	North America	- 8:00
<i>HNA</i>	Heure Normale de l'Atlantique	North America	- 4:00
<i>HNC</i>	Heure Normale du Centre	North America	- 6:00
<i>HNE</i>	Heure Normale de l'Est	North America	- 5:00
<i>HNP</i>	Heure Normale du Pacifique	North America	- 8:00
<i>HNR</i>	Heure Normale des Rocheuses	North America	- 7:00
<i>HNT</i>	Heure Normale de Terre-Neuve	North America	- 3:30
<i>HNY</i>	Heure Normale du Yukon	North America	- 9:00
<i>IST</i>	Irish Summer Time	Europe	+ 1:00
<i>MDT</i>	Mountain Daylight Time	North America	- 6:00
<i>MESZ</i>	Mitteleuroäische Sommerzeit	Europe	+ 2:00
<i>MEZ</i>	Mitteleuropäische Zeit	Europe	+ 1:00
<i>MSD</i>	Moscow Daylight Time	Europe	+ 4:00
<i>MSK</i>	Moscow Standard Time	Europe	+ 3:00
<i>MST</i>	Mountain Standard Time	North America	- 7:00
<i>NDT</i>	Newfoundland Daylight Time	North America	- 2:30
<i>NFT</i>	Norfolk (Island) Time	Australia	+ 11:30
<i>NST</i>	Newfoundland Standard Time	North America	- 3:30
<i>PDT</i>	Pacific Daylight Time	North America	- 7:00
<i>PST</i>	Pacific Standard Time	North America	- 8:00
<i>UTC</i>	Coordinated Universal Time	Europe	0:00
<i>WDT</i>	Western Daylight Time	Australia	+ 9:00
<i>WEDT</i>	Western European Daylight Time	Europe	+ 1:00
<i>WEST</i>	Western European Summer Time	Europe	+ 1:00
<i>WET</i>	Western European Time	Europe	0:00
<i>WST</i>	Western Summer Time	Australia	+ 9:00
<i>WST</i>	Western Standard Time	Australia	+ 8:00

## Appendix 2 : FCC Notices

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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.

FCC RF Exposure requirements:

This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.