



T18 Series GIS Handheld Quick Start Guide

V1.0

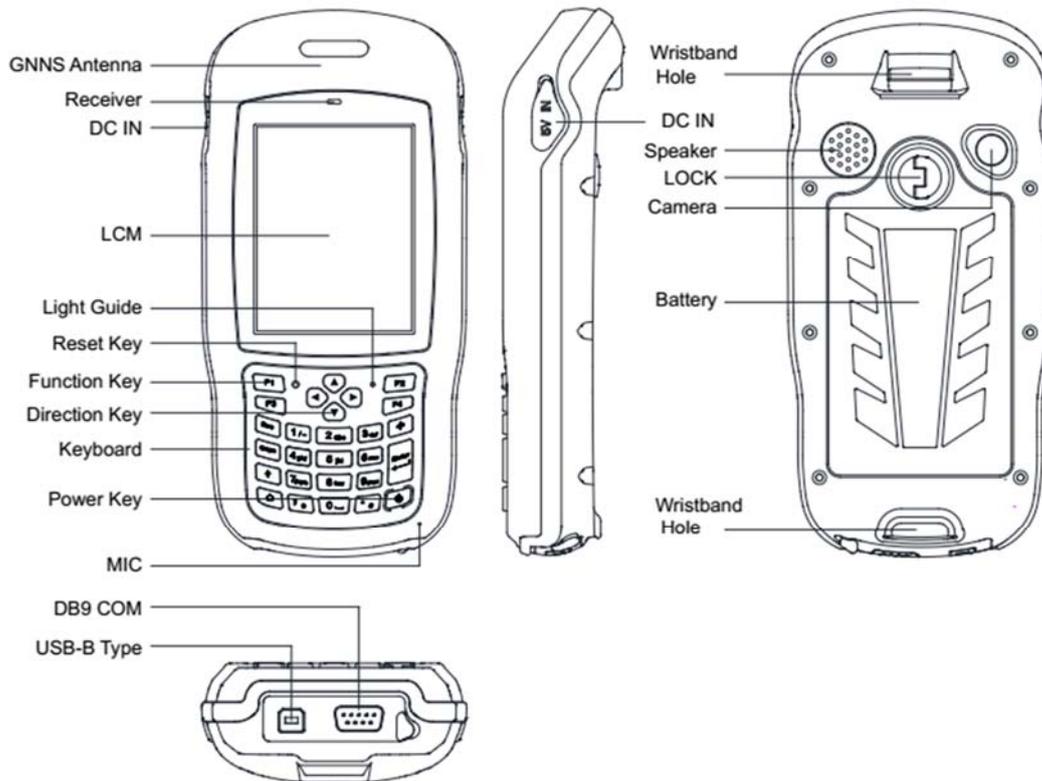
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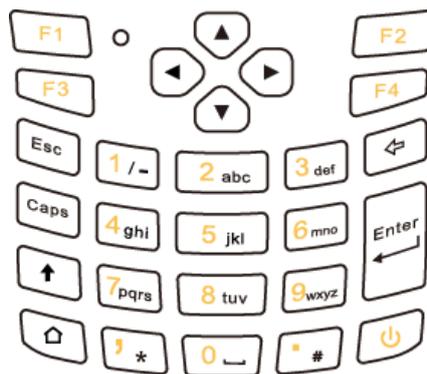
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1. Appearance

1.1. General diagram



1.2. Keyboard



The yellow section are the system defaults, and the functions of the 4 hotkeys are below:

- F1: Start menu.
- F2: Off.
- F3: Camera.
- F4: System main interface.

The other keyboard operation:

System Default	System defaults to the digital input method
	 ,
	 .
Press↑ (shift)	Lowercase letters
	 Switch between / and -
	 *
	 #
	Press↑(shift) again, it will be digital input method
Press Caps	Capital letters
	 Switch between / and -
	 *
	 #
	Press the Caps button again for lowercase letters

1.3. LED

Operation	Power off	Screen off	Charging	Full of charge	Using
Light Status	Off	Blue light on	Red light on	Off	Off

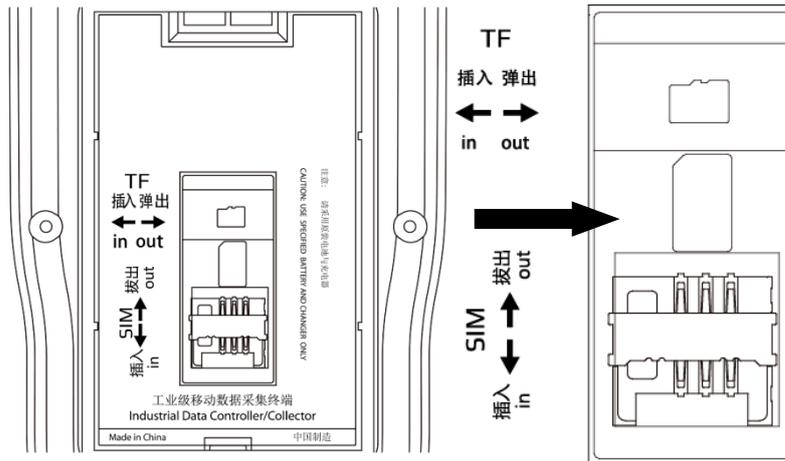
2. Operating Instructions

2.1. Installing the TF card/SIM card/Battery

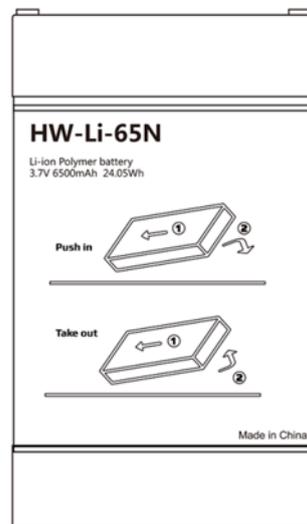
- a) Turn the back cover screw to the open position according to the instructions on a label in the box and take off the back cover.



- b) Insert the SIM card and TF card according to the instructions in the battery cabin.



- c) Insert the battery according the instructions on the battery label.



- d) Close the back cover and turn the back cover screw to the lock position.

2.2. Charging

- DC adapter: Open the DC IN cover on the right side, and charge with a specialized DC adapter. Charging current can reach 2A.
- USB cable: A USB cable can also be used to charge the device, and current is limited to 500mA.

2.3. Turning the collector on/off

- Make sure the battery has enough power, or connect the T18toa DC adaptor.
- Press power button for 3~5 seconds to turn on (until the boot screen appears).
- Press the power button for 3~5 seconds, and confirm to power off.

NOTE: If there are abnormal situations, such as the T18 cannot operate normally, use the tip of

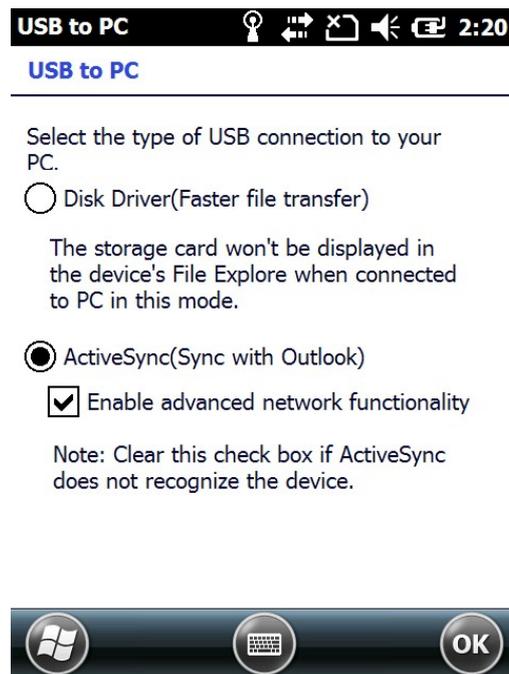
the stylus to press the reset key to restart the T18.

2.4. Synchronization Function

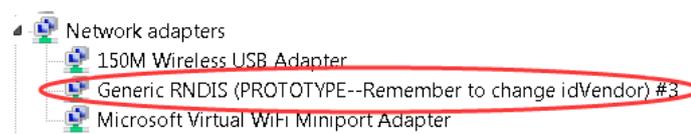
- a) Make sure Windows Media Device Center (WMDC) has been already installed in PC, formerly activesync for Windows XP. If not, please download from this link below and install it.

<https://www.microsoft.com/en-US/download/details.aspx?id=3182>

- b) Choose 'Enable advanced network functionality' by clicking Setting->Connections->USB to PC.



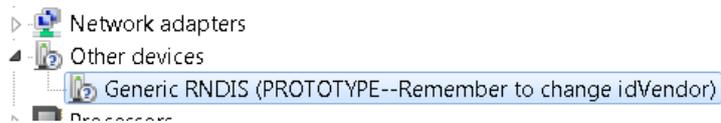
- c) Connect T18 to a PC with USB cable.
d) PC will search an appropriate driver for T18 and install automatically. A similar device will be shown in Device Manager



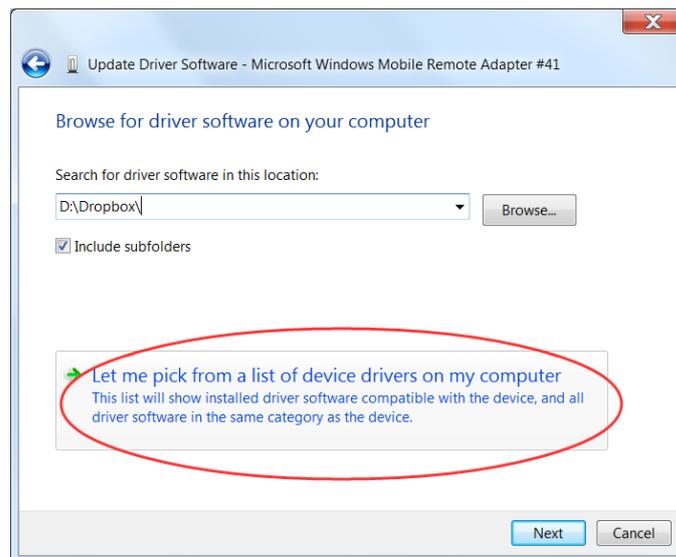
- e) The  icon will appear in the tool bar of PC then ActiveSync/WMDC will launch as follows,



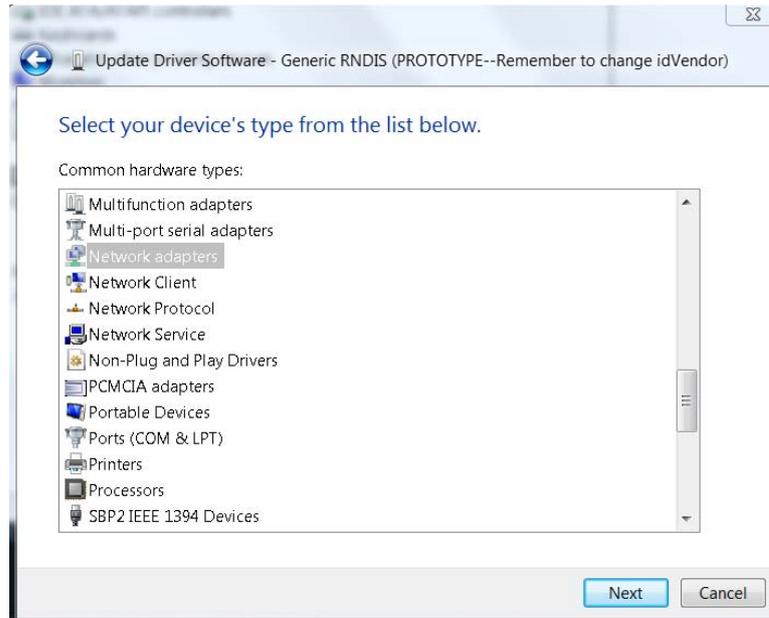
- f) If WMDC doesn't connect, follow the steps below to check its driver first.
- Check whether a suitable driver of T18 has been installed or not by PC Device Manger. If not, unrecognized device will be present in 'Device Manager'



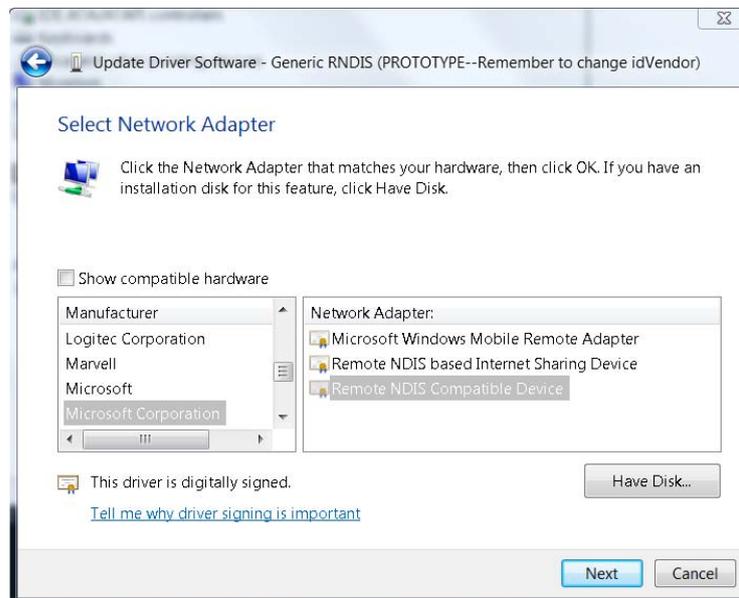
- Click on the 'unrecognized device', choose 'update driver software', then click 'Let me pick from a list of device drivers.....' on the Dialog box.



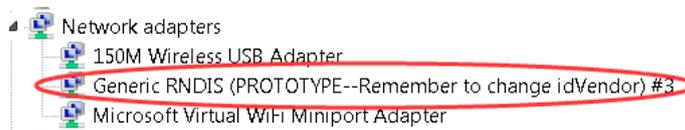
- Choose 'Network adapter' as the figures shows,



iv) Choose 'Remote NDIS Compatible Device' , click Next as below,



v) The driver will be installed successfully. A RNDIS device like below figure will be shown in PC Device Manger



g) If the above RNDIS device has been already shown in Device Manager, WMDC doesn't launch successfully yet, especially for Win10 operating system. Please run a utility called "HWSyncTools.exe" provided by vendor.



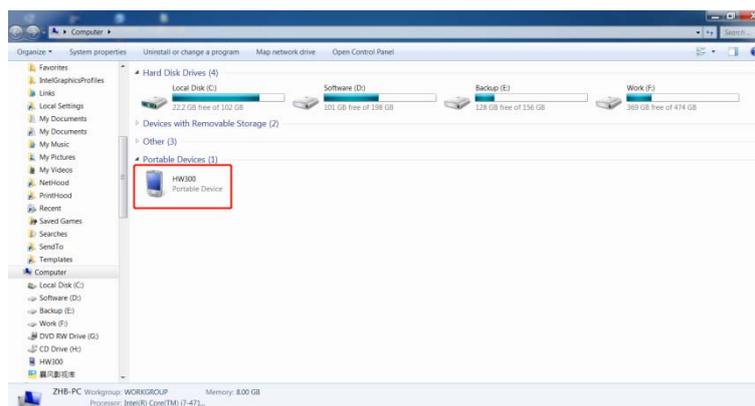
HWSyncTools_NoLogo.exe

- h) If WMDC connection is instability, please turn off firewall of PC. If you don't want to turn off the firewall, please set the firewall configuration according to the document "T18 RNDIS Firewall Settings". This document can be get from your vendor.

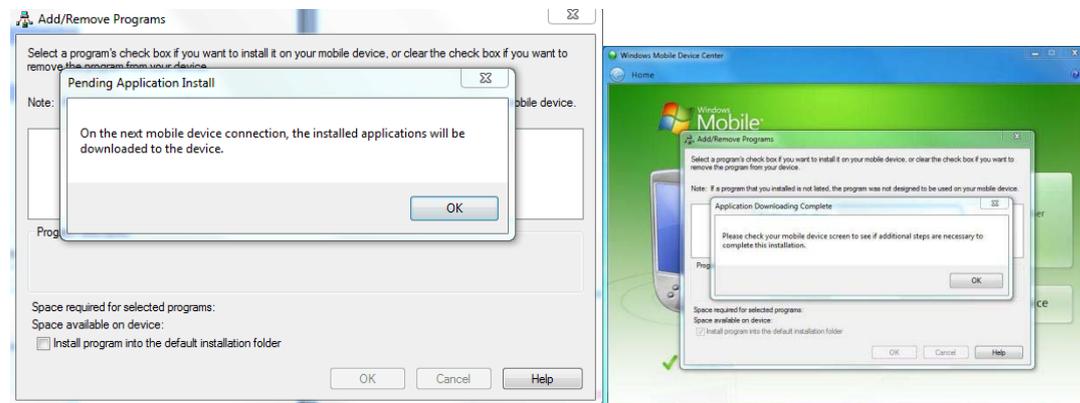
2.5. Installing Applications

2.5.1. Installing Applications via ActiveSync or WMDC

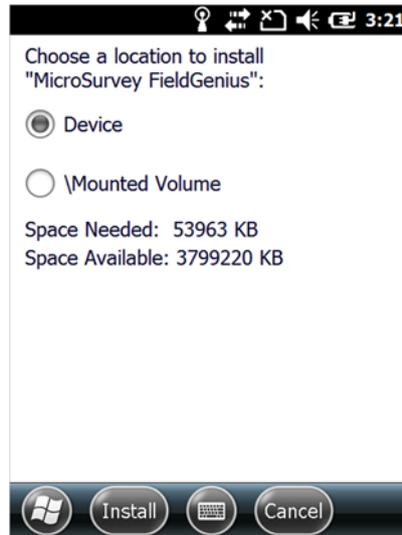
- a) Make sure T18 is connected with your PC via ActiveSync or WMDC.



- b) Click the installation file on your PC to start the installation of an application.



- c) Select an installation directory in the T18 ('Flash Storage' is suggested), Click 'install'.



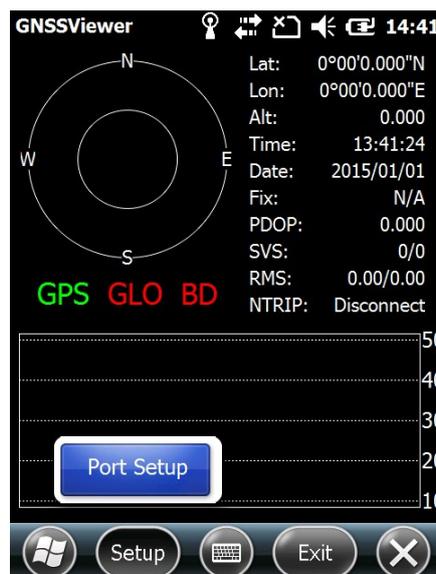
NOTE: We suggest installing the application in 'Flash Storage', and saving your data to a TF card.

2.5.2. Directly Installing Applications

If the installation file is compatible on mobile devices, copy the file into the T18 and click to directly start the installation.

2.6. GNSS status

- a) Go to \My Device\GNSSViewer and run GNSSViewer.exe or go to Start menu and find the shortcut of 'GNSSViewer'
- b) T18 supports COM3 as a GNSS port and its Baud Rate is 9600.



- c) Click 'OK'

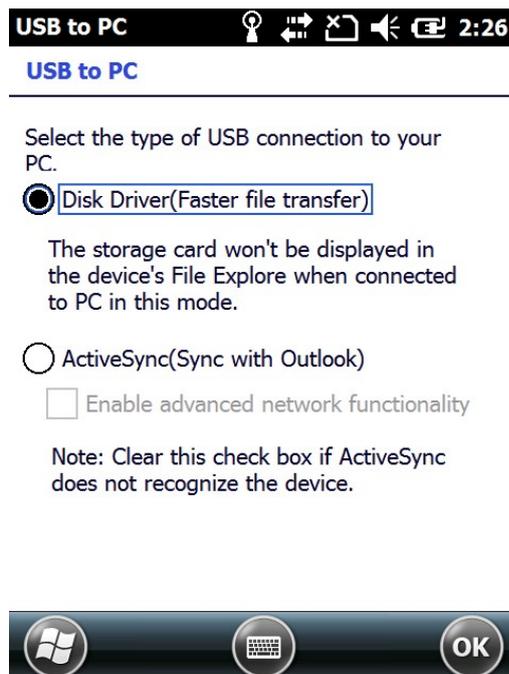


2.7. Camera

- Select 'Start->Picture & Video', select 'Camera' or the 'camera' key icon to take photos.
- Press the camera key(F3) to take photos.
- Click screen and select 'OK' to exit.

2.8. USB Mass Storage

- Insert a TF card to TF card slot of the device
- Choose 'Disk Driver' from 'Start->Settings->System->USB to PC'



- c) Plug a USB cable to connect the device and PC
- d) PC will search an appropriate driver and automatically install it. Then there is a new device called "USB mass storage device" in PC Device Manager



- e) A new drive shows in PC Disk Volume



2.9. User Serial Port

The user serial port is COM2. Transfer data between T18 and other devices using a DB9 serial Cable.

NOTE: This user serial port is at the bottom of T18.

2.10. Wireless Connection (Bluetooth/GPRS/WIFI)

2.10.1. Standard Bluetooth

- a) Select 'Start->Settings->Connections->Wireless Management', click the icon to activate the Bluetooth device.



- b) Select 'Start-> Settings-> Bluetooth', click 'Add new device...'. Follow the tips shown on the screen to finish the operation of pairing the other BT Device.

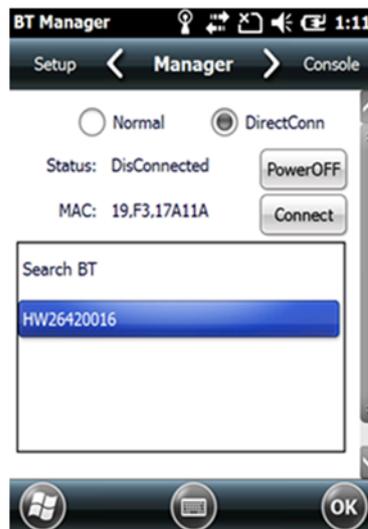
NOTE: The standard Bluetooth virtual ports are COM7 and COM9.

2.10.2. Long Range Bluetooth(Optional)

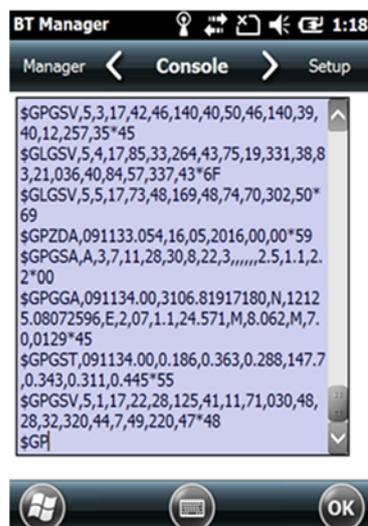
- a) Select 'Start->Settings->System->', click 'BT Manage'



- b) Chose the module of 'DirectConn', and press 'Power On'.
 c) Click 'Search BT' to start searching for BT devices.
 d) After all BT devices have been found, select a device.
 e) Click 'Connect' to pair with a BT device of your choice. Your screen will display "Connect the BT device successfully" after BT pairs successfully.



- f) Click 'Console' to check the status of Bluetooth, as shown below.



- g) Click 'Setup' to setup this Bluetooth, as shown below.



- h) The default baud rate is 38400.
- i) The 'PIN' code refers to the pairing PIN code of the BT device which T18 wants to pair with.
- j) If you check 'Auto Conn', T18 will automatically connect to the last pairing BT device when powered up.

NOTE: Long Range Bluetooth port is COM2 which is the same as user serial port. If Long Range Bluetooth has been used, user serial port is disabled.

2.10.3. Wi-Fi

- a) Select 'Start->Settings->Connections->Wi-Fi'.
- b) Click 'Search for Networks', select a network listed. Follow the installation guide to input a password and confirm connection to Wi-Fi.

2.10.4. GPRS/3G Data connection

- a) Make sure there's a SIM card in the T18.
- b) Select 'Start->Settings->Connections->Connections'.
- c) Click 'Add a new modem connection'.
- d) Input connection name, select 'Cellular Line (GPRS)', click 'Next'.
- e) Input 'Access point name', click 'Next'.
- f) Click 'Finish' and add new connection successfully.
- g) Click 'Manage existing connections'.
- h) Click and hold on "new connection" and select 'Connect'.
- i) If there is the identifier on the signal icon in the top right corner, this indicates a successful connection.

3. Useful Functions

3.1. Screen response

Select 'Start->Settings->System->Screen', click the 'Align Screen' icon and follow the guide to

align the screen.



3.2. Adjusting the backlight

Select 'Start->Settings->System->Backlight' to adjust backlight according to the guide.



3.3. Removing programs

Select 'Start->Settings->System->Remove Programs', select the programs you wish to remove in the list and click 'OK' to remove.



3.4. Auto power off*

(*NOTE: The device does not support the Auto power off function, instead use Go-to-sleep mode.)

Select 'Start-> Settings-> System-> Power-> Advanced', set the power off time in different conditions. Backlight will be off according to selected settings.



3.5. Clean Boot

Select 'Start-> Settings-> System-> Clean Boot', to restore factory default settings according to the guide.



NOTE: The password is '1234'. Restoring factory settings will clear the system configuration, please be cautious.

3.6. PW Config

Select 'Start-> Settings-> System->pwconfig'.

NOTE: While on "Sleep" mode, the device will go to hibernate.



4. Accessories

4.1. Standard Accessories

Item	Name	Description	Quantity
1	DC Adapter	220V/DC5V/2A	1
2	USB cable	USB to B-TYPE USB cable	1
3	Serial cable	DB9 serial cable	1
4	Li-ion Battery	3.7V/6500mAh	1
5	Strap	Black, 180*12mm	1
6	Stylus	Black, 127mm	1
7	Screen protection film	57*76mm, 3H & Screen Microfiber Cloth	2
8	User guide	Digital version	1

4.2. Optional Accessories

Item	Name	Description	Quantity
1	TF card	Memory Capacity: 8G	1
2	External battery charger	5V/2A	1
3	Mounting bracket and Pole (Claw) Clamp	HW-02	1
4	External GNSS antenna	TNC Connector	1
5	External antenna cable	Fischer to TNC cable	1
6	Centering rod	Centering rod	1

5. Environmental Specifications

- a) Operating temperature: -20°C ~+60°C
- b) Storage temperature: -30°C ~+70°C
- c) Drop: 1.5m drop tested on all surfaces
- d) Casing: Dustproof and resistant to heavy wind driven rain per IP65 standard
- e) Humidity: 5% ~ 95% (non-condensing)

6. Warranty Terms

HowayGIST18 Series are guaranteed against defective material and workmanship under normal use and application consistent with this Guide. The equipment is guaranteed for the period indicated, on the warranty card accompanying the product, starting from the date that the product is sold to the original purchaser by HowayGIS' Authorized Dealers.

During the warranty period, HowayGIS will, at its option, repair or replace this product at no additional charge. Repair parts and replacement products will be furnished on an exchange basis and will be either reconditioned or new. This limited warranty does not include service to repair damage to the product resulting from an accident, disaster, misuses, abuse or modification of the product.

Warranty service may be obtained from an authorized HowayGIS warranty service dealer. If this product is delivered by mail, purchaser agrees to insure the product or assume the risk of loss or damage in transit, to prepay shipping charges to the warranty service location and to use the original shipping container or equivalent. A letter should accompany the package furnishing a description of the problem and/ or defect.

The purchaser's sole remedy shall be replacement as provided above. In no event shall HowayGIS

be liable for any damages or other claim including any claim for lost profits, lost savings or other incidental or consequential damages arising out of the use of, or inability to use, the product.

NOTE: Please use the original factory parts.

7. Contact information

HowayGIS Infotech Co, Shanghai, China

Address: Room 230, Focus Building, Lane No.1985, Chunshen Road, Minhang District, Shanghai 201102 China

Telephone: +86-21-56383139

Email: supports@howaygis.com

8. Appendix– Product Safety Warnings

Safety and compliance information

- Use responsibly –Read all instructions and safety information before use to avoid injury.

Battery safety

- Charge battery only in temperature ranging from 32°F to 140°F (0°C to 50°C)
- CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type of battery recommended by the manufacturer.
- The maximum operating ambient temperature of the switching power supply declared by the manufacturer is 50°C.
- Dispose of used batteries according to battery manufacturer's instructions.

Wi-Fi safety

- Turn Wi-Fi off in areas where Wi-Fi use is prohibited or when it may cause interference or danger, such as in airplanes while flying.

Care and maintenance

T18 is an electronic product and should be treated with care. to reduce the risk of fire, electronic shock, or product damage take the following advice:

- Do not expose this device to rain, moisture, or any type of liquid that corrodes electronic circuits. If your device gets wet, immediately turn the power off. Allow the device to dry completely before using it again.
- Clean the display with a soft cloth, and be careful not to wipe the display with anything abrasive.
- Do not expose your device to extreme heat (60°C) or cold (-20°C). For example, do not leave it in the trunk of your car in high heat conditions.
- Do not attempt to open the device other than as instructed in this manual.
- Rough handling can break internal circuitry.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the device.
- Use only the recommended accessories.

CAUTION!

**CONNECTION TO A USB INTERFACE MUST BE LIMITED TO
USB 2.0 VERSION OR HIGHER
CONNECTION TO "POWER USE" MODE IS PROHIBITED.**