

GPS Watch

KW621

User's Manual



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Chapter I Preface

I. General

KW621 represents the perfect combination of GSM and GPS technologies. These models, with its precise dimensions and compact appearance, expresses the advanced workmanship in the GSM and GPS field. It is a typical design combining communication products and GPS services.

As a professional company, we will provide you with more and better products and services. Before using the watch, please spend several minutes reading this user's manual in order to get to know about operation details and obtain better services.

II. Notices

1. Please read this user's manual carefully and always use correct operation methods to prevent any possible errors.
2. This user's manual is for reference only. If some contents and operation steps are inconsistent with those for the actual product, the latter will prevail.
3. The defaulted password is four zero: **0000**.

Chapter II about the Device

1. Appearance



Before using , please install SIM card as following:



Choose SIM card:

- ☐ The type of the SIM card is GSM card
- ☐ Ensure sufficient money is within the SIM card in order to pay the communication fee.
- ☐ Prepare a SIM card for mobile phone, make sure that the card has opened such functions of Caller ID and sending and receiving SMS. If service platform real-time tracking is in need, then GPRS function should be open.

2 Product Features

- Built in GPS Module
- Internet positioning service center, used to receive and send positioning information.
- GSM /GPRS modem supports Quad frequency bands, i.e. 850/900/1800/1900 MHz
- High-sensitivity and the most advanced GPS chip
- Can work effectively in limited space such as urban canyon
- Low energy consumption
- Fast signal acquisition
- Supports single positioning and continuous tracking;
- Supports alarming and remote monitoring
- Supports the location information inquiry by SMS and Internet
- Can monitor without disturbing the tracked person and realizes real-time tracking;
- Can position the holder by call or SMS
- In emergency, press the SOS button to have an accurate positioning

3 Product Specifications

(1). Technical Specifications

GSM module	GSM 850/900/1800/1900 MHz Quad frequency
GPS sensitivity	-159dBm
GPS center frequency	L1, 1575.42MHz
GPS positioning accuracy	5-25m
GSM positioning accuracy	100-500m
Speed accuracy	0.1 m/s
Time accuracy	Synchronous with GPS
GPS Datum	WGS-84
Hot start	< 1s
Warm start	< 38s
Max. altitude	18000m
Max. speed	515m/s
Gravitational acceleration	< 4g

(2). Others

Operating temperature	-20---65℃
Humidity	5%---95%
Dimensions	65mm×45.5mm×18 mm (main unit)
Weight	59 g without battery
Battery	3.7V 500 mAh

Chapter III Operation Method of Basic Functions

1. SMS positioning operation

Create 666 + password command (defaulted password as 0000) via mobile phone and send it to the student terminal mobile phone number; after successful sending, the guardian's mobile phone will receive a piece of word message. See the flow as follows:



By the same means, send the command 987 + password to the terminal, then the terminal will return one piece of website message. The guardian may inquire the location information of the ward attached with local map through this website message.

Valid data sample:

Lon:E114.09715

Lat:N22.53839

Speed: 0.12KM/H

Direction: 69.50

Date: 2010-08-20

Time: 09:39:45

BS: 27970eb3

FIX.: A (note: A means data is Acceptable, V means data is invalid)

ID: 123456789012345

STATE: SMS

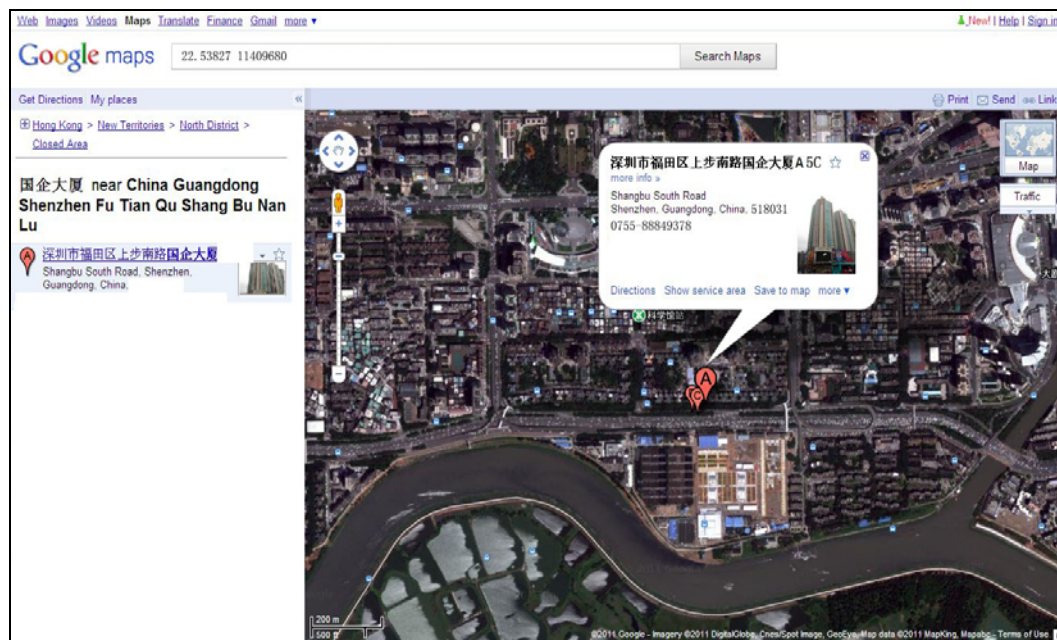
2. View the position on website

Step1: Type link into the IE : <http://maps.google.com>,

Step2: Enter the latitude and longitude of the upper left corner:

For example: 22.538N, 114.096E

(Note: If the format is the degree of minutes, degrees and minutes to a space between the delimited)



3. Platform Inquiry

Step 1: Log into the platform, on the website : <http://www.kingelect.com>.

(For details of platform services, please contact with locate distributor .)

Then, input the account and password.

Step 2: Click the terminal of the car, then the map will display the location of the car.



Double-click the selection of specific terminal, the terminal location on the map displayed directly.



Click position on the map, the current position informations will be display.

Click the playback icon, it will play the history records by time.



4. Function of Changing Password

Send the SMS “#770# User new password # User old password ##” by mobile phone to the terminal number, after successful sending, the mobile phone with such setup will receive one piece of ‘&770&successful setting&&’ response information or ‘&770&PASSWORD ER&&’ if the password is wrong, as shown in the following picture:



- (1) Send command to the terminal.
- (2) The terminal return confirmation message to the mobile phone.

5. Set User name Command

SMS Command Format: #801#4~20-digit letters or numbers #4-digit password ##

Example: #801#13900139000#0000##

Notes: After executing this command, the user name of the terminal on GPRS mode is required to be set up according to actual demand. After the setup is successful, the terminal will send reply with '&801&successful setting&&' or '&801&PASSWORD ER&&' if the password is wrong.

6. Set APN Command

Create the SMS “802#APN letters or digits, 4-20 bits # Log user name letters or digits 4-20 bits in # Log password letter or digits 4-20 bits in # terminal password 4 bits ##” and send it to the terminal; after executing this command, the terminal will automatically restart and connect to GPRS with APN set.

Command example 1: #802#cmnet###0000###

Command example 2: #802#PCCHK#GUEST#123456#0000##

After this command is executed, APN will be PCCHK; the login user name is GUEST and login password is 123456.

Note: The default APN of this product is CMNET.

7. Setup of Server Address

Command Format: #803# Fixed IP address# port number#4-digit password##

This command is used to set GPRS center server address, which could be fixed IP number, like IP1, IP2, IP3, IP4.....as well as domain name with the length less than 64. After the setup is successful, the module will send a reply with '&803&successful setting&&' or '&803&PASSWORD ER&&' if the password is wrong.

Example: #803#116.255.137.131#9876#0000##

Setup via domain name:

Example: #803#gps.kingelect.com#9876#0000##

8. Electronic Fence Function

(1) GPS Fence Function

The guardian could get the center spot of a fence through Google map or single inquiry.

Set Fence Format: # command number (751) # fence radius # sampling interval # longitude # latitude # user password ##.

Example: #751#500#5#22.538N#114.097E#0000##

After the setup is successful, the mobile phone will receive a piece of '&751&succeful

setting&&'. Then, each time when the ward leaves this area, the terminal will send the alarming information of being out of the fence to the center number.

(2) Fence Reading Function

Send commands to the terminal: # command number (752) # user password 4 digits ##; after the command is set successfully, the terminal will read the data of the module fence working status and return message to the sending mobile phone, or PASSWORD ER if the password is wrong.

Example: #752#0000##

Return:#open:1#lat:22.538390#lng:114.097150#distance:500#time:5#status:2

lat: N22.538390, latitude;

lng: E114.097150; longitude;

distance: 500; fence radius;

time: 5 sampling interval, 5 seconds ;

status: 2, terminal has obtained valid satellite data, fence works normally;

status: 1, fence open, but there are no valid satellite data have been received;

status: 0, no electronic fence is set.

(3) Function of Canceling Fence

Command name: # command number (760) # user password 4-digits ##

Example: #760#0000##

After the terminal receiving this command, all fence settings will be cancelled.

Advice: Do not set GSM fence and GPS fence at the same time.

9. Auxiliary Function

(1) #901## Command of inquiring machine parameters

(2) #902## Command of inquiring GPRS parameters

(3) #904## GPRS connection command

(4) #905## GPRS disconnection command

Chapter IV Instruction Set

STEP	Function	Command	SMS Example
	Location Inquiry	988+ password (Default password is 0000)	9880000
	latitude and longitude	666+ password	6660000
	Montior function	555+password	5550000
	SOS Function	The terminal will send a piece of message to the pre-saved 3 numbers	
	Low-Voltage alarm function	The terminal will send low-voltage alarming to the center number	
4	Setup of Center Number	#710# center number # user password ##	#710#13712345678# 0000 ##
5	Alarm number setting function	#711# Call 1# Call 2 # Call 3 # 0000##	#711#13912345678#13812345678 #13712345678 # 0000##
2	Regular Upload Interval Setup	# command number 730#Sampling interval # Pieces of uploads # User password ##	#730#180#1#0000##
	Function of Changing Password	#770# User new password # User old password ##	#770#1234#0000##
	Set user name	#801# 4-20 Four letters or Numbers #password##	#801#13900139000#0000##
	Set APN Command	802#APN letters or digits, 4-20 bits # Log user name letters or digits 4-20 bits in # Log password letter or digits 4-20 bits in # terminal password 4-digits ##	#802#PCCHK#GUEST#123456# 0000##
	Fence Reading Function	# command number (752) # user password 4-digits ##	#752#0000##
	Server center address	#803#server address # port# password 4-digits ##	#803#121.9.206.148#3000#0000#
1	Function of Canceling Fence	# command number (760) # user password 4-digits ##	#760#0000##
3	Set time zone	806xxxDnn	8060000E08
	Command of reading user parameters	#901##	#901##
	Command of reading GPS Fence Function GPRS parameters	#902## #command number (751) # fence radius#sampling interval # longitude # latitude # user password ##	#902## #751#500#5#22.5442N#113.91E# 0000##
	GPRS connection command	#904##	#904##



	GPRS command	disconnection	#905##	#905##
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Notices

1. This device is of non-waterproof design.
2. This device must work with the cooperation of GSM/GPRS network.
3. Make sure that the SIM card has sufficient balance in order to avoid inconvenience in use.
4. This device will not be able to work in case of power-off and out of the service area, even if you are a registered user.
5. This device supports the dual positioning mode of GPS and GSM/GPRS.
6. Please use this device in a legal area, any illegal consequence will be borne by the user.

**Notes: due to the high sensitivity of the GPS module adopted by this product,
it is normal to be drifting with weak GPS signal.**

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