IP Downloader II (GPRS)

User Manual

This manual is only adapted to IP Downloader -GPRS

Summary

Patrol data is read out from readers and stored in IP Downloader , then transferred to appointed server through GPRS.these data is received and analyzed by corresponding software and generated into patrol report

Features

- **No need computer**

  Patrol data is downloaded into IP downloader then is transferred to server by GPRS.

- **Operate easily**

  Operator just needs insert reader into IP Downloader(or use USB cable to connect them), IP Downloader reads patrol records automatically and transfers patrol data to the server, if meet the server is busy or broken, IP Downloader will detect the server in constant interval actively, patrol data will be upload automatically without any operating once it is successfully connect the server again.

- **No Maintenance**

  IP Downloader uses embedded design, so hardware program won't be affected virus like PC.

- **Reliable storage**

  IP Downloader uses Flash memory, so the patrol data can be kept more than 10 years after power off.

- **Download patrol data portably**

  If IP Downloader uses standard mobile power , it can download and upload patrol data movably.

- **Update firmware remotely**

- **Recognize reader automatically**

  IP Downloader can recognize V1/V1+, V5, V51, V8 model readers, and downloads patrol data automatically.

- **48 groups alarm clock**

- **Read ibutton, RFID tag function**

Technical parameter

i. **Mechanical characteristic:**

Size: 100*100*30 (mm)

Weight: 160g

Outer shell material: ABS

ii. **Electric characteristic:**

Power: DC5V-2000mA power adapter

Storage: 16Mbit Flash

Light indication: red and green color, LED indicator

iii. **Using environment:**

Operating temperature range: 0°C~40°C

Storage temperature range: -30°C~85°C

Working humidity:10%~-90%

iv. **Communication mode:**

Server

Port: GPRS

Agreement: TCP/IP

Reader

Port: Infrared/ port of reader

Speed: 57600bps/19200bps

Computer

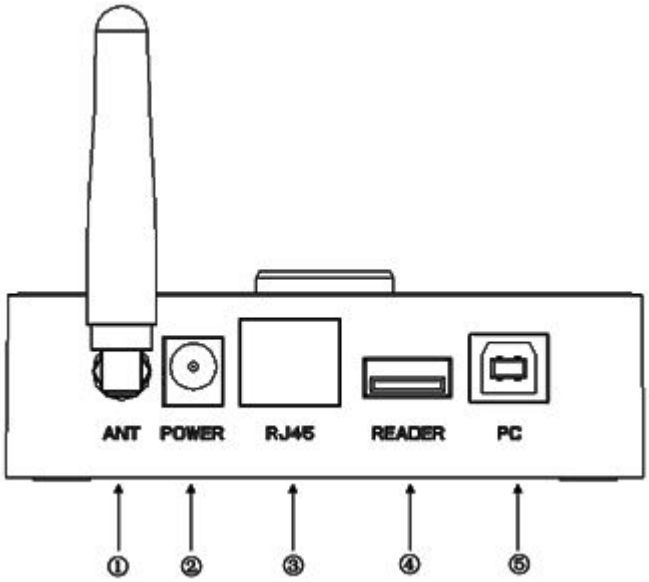
Port: USB

Agreement: USB2.0

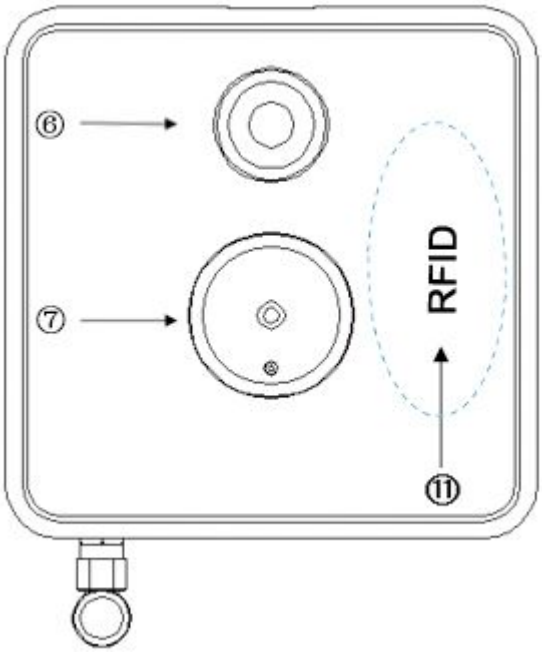
Instructions of component and port

1. ANT antenna
2. DC5V-2A power port (picture 1)
3. RJ45 port (picture 1)
4. V1/V1+ communication port(picture 1)
5. USB communication port, connect to PC communication port (picture 1)
6. Tag reader head and indicator, used for stoping alarm clocks and entry ibutton tag (picture 2)
7. Guard tour reader port, v5/V51 communication port (picture 2)
8. V8 Infrared communication port (picture 3)

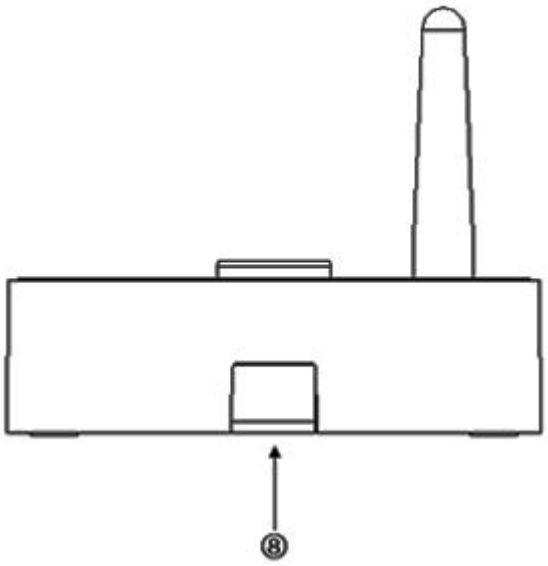
9. IP Downloader's fixed holes of back cover, 56mm between two fixed holes (picture 4)
10. SIM card back cover (picture 4)
11. Read RFID card /tag region, used for stoping alarm clocks and entry RFID tag (picture 2)



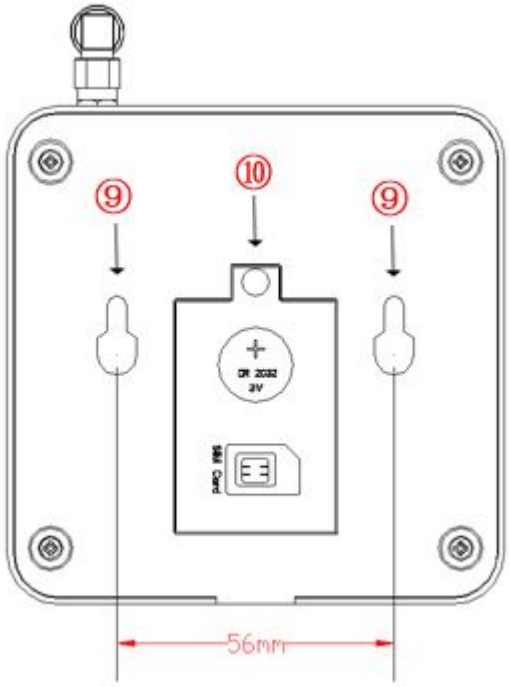
Picture 1 **Side Part Appearance A**



Picture 2 **Front view B**



Picture 3 **Side Patel Appearance C**



Picture 4 **Back Cover Appearance D**

- **Power and power cable (**DC5V-2000mA power adapter)

- **Communication USB Cable**

● Using ways

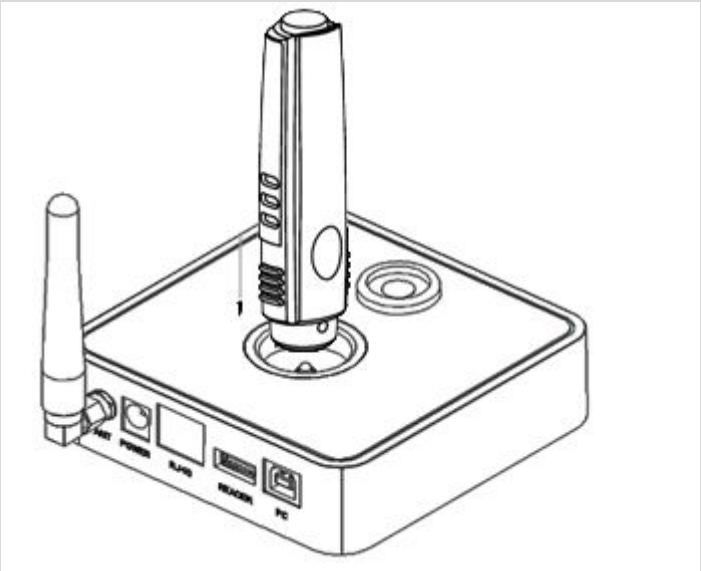
1. Connect power

Connect power adapter's power output with IP Downloader's POWER port, red and green light flash alternately (in the initialization) after "beep" sound. There's another "beep" after 10 seconds, green light flashes slowly, the initialization is completed, IP Downloader can work.

☞Using IP Downloader for the first time, insert SIM card, and setup parameter through computer, please refer to " IP Downloader parameter setting"

2. Download patrol data from readers

● Communicatie with V5/V51reader



Operating ways:

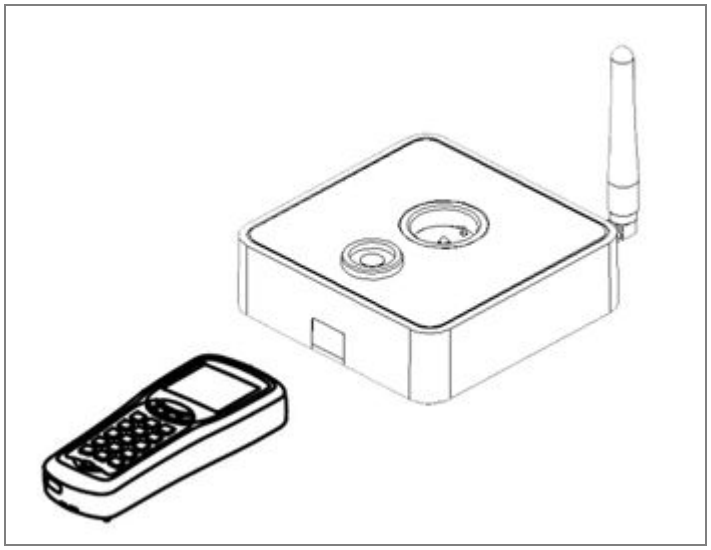
insert V5/V51 into guard tour reader port (as shown above), then the blue light of guard tour reader flashes, the green light of IP Downloader flashes quickly, the buzzer " beep" one time when transferring is finished, that means it reads V5/V51 patrol data successfully and deletes the patrol data in guard tour reader, and blue light of reader off.now please take V5/V51 readers away from downloader or it will beep one time every five second to remind you to take readers away.

IP downloader starts to upload data remotely immediately once reading

out patrol data from reader, IP Downloader beeps one time to remind you that transfer patrol data successfully and green light turns to flash slowly.

Sound indication: beep one time indicates IP Downloader reads or transfers patrol data successfully Beep three times indicates IP Downloader reads or transfers patrol data faithfully.

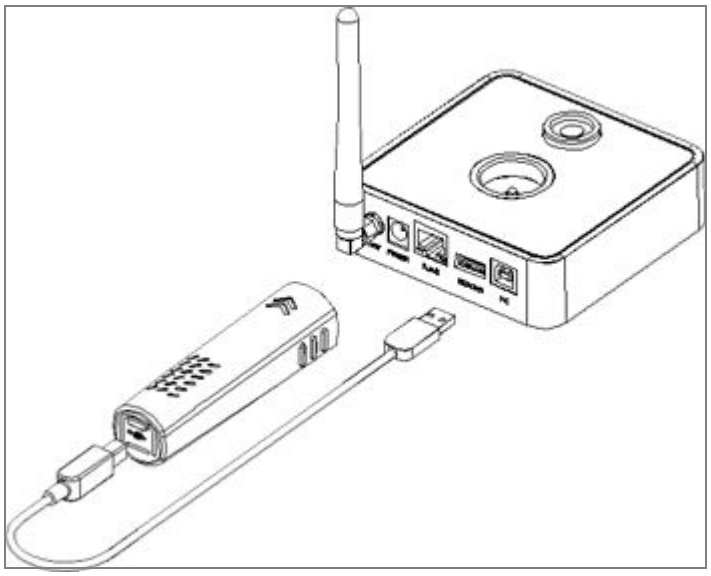
- **Communicating with V8**



Operating ways: let V8 reader's infrared communication port aim at IP Downloader's infrared communication port(as shown above), turn on V8 reader and enter into communication with computer mode, IP Downloader reads V8's patrol data automatically and transfer data to server through GPRS. After reading patrol data, IP Downloader beep one time and now V8 could be took away

Sound indication: read or transfer successfully, the buzzer beep one time.

- **Communicating with V1/V1+**



Operating ways: connect V1/V1+ with IP Downloader by USB cable (show as above), USB cable insert into " READER" port, IP Downloader read put patrol data from V1/V1+ automatically and transfer data to server via GPRS. IP Downloader beep one time after reading patrol data is finished,then reader could be removed.

It will be charged for V1/V1+ reader by IP Downloader. if don't remove the reader.

Sound indication: read or transfer successfully, the buzzer beeps one time.

read or transfer faithfully, the buzzer beeps three times.

● The type of SIM card and how to setup

1. The type of SIM

Attention:

1) IP Downloader uses 2G SIM card of GSM. Please confirm before setup.

IP Downloader can not use 3G SIM Cards below:

- WCDMA（China Unicom 3G）
- CDMA2000（China Telecom 3G）
- TD-CDMA（China Mobile 3G）

2) It's necessary to have GPRS function for SIM card.

2. How to setup SIM card

1) Screw out the screw of back cover, open back cover of SIM card carefully

2) Insert SIM card, attention directions and fasten SIM card.

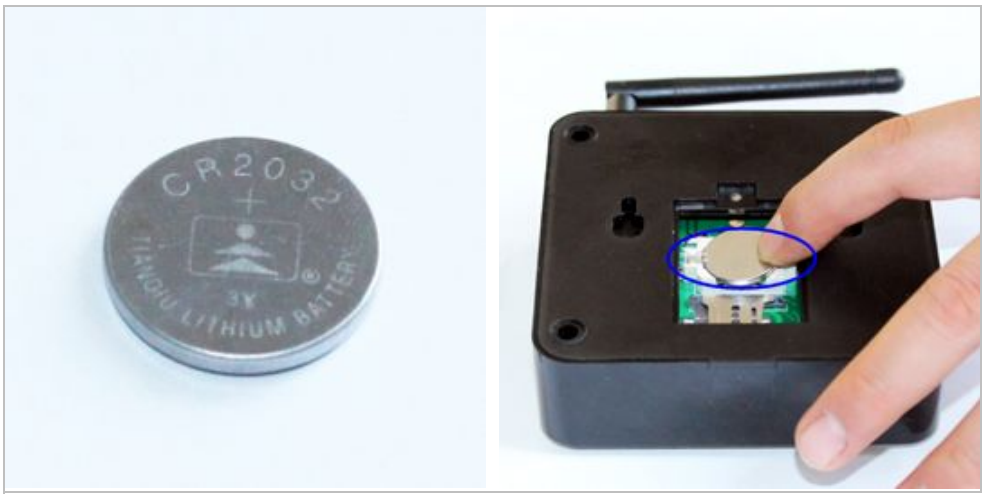
3）install back cover of SIM card.

- install or change CR2032 battery

☞CR2032 lithium battery is used for keeping internal clock of IP Downloader.

1) Screw out the screw of back cover, open back cover of SIM card carefully

1) Setup CR2032 battery



2) Setup back cover of SIM card

☞Setup or reset battery, IP Downloader can work after correcting time.

- **How to set parameter of IP Downloader**

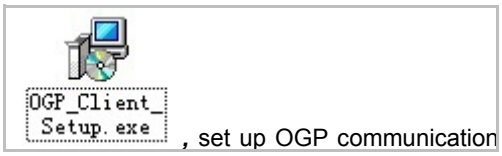
Operating methods: Connect IP Downloader with computer by included USB cable, setup "*OGP communication client*", and choose " IP DL- II" in software , enter into " IP Downloader II parameter settings".

★Special instruction about " Company name"★

1. If you use online guard patrol software, must set "the company name" parameter for IP Downloader, this name is used for registering Online guard patrol software .it is used as this company's identification, it must be set correctly,otherwise patrol data will not be transferred to server successfully.

1. How to setup OGP communication client

Attention: Do not connect IP downlaoder with PC before setup OGP software because it will install driver program during setting up . If already connected, please remove off

1) Click ***OGP_Client_Setup.exe*** in the CD, 

, set up OGP communication client.

Setup - OGP communication Client V1.3
Welcome to the OGP communication Client V1.3 Setup Wizard
This will install OGP communication Client V1.3 version 1.30 on your computer.
It is recommended that you close all other applications before continuing.
Click Next to continue, or Cancel to exit Setup.
Next >
Cancel

2) Click " Next" until finish setup, then click " finish".

2. How to setup parameter of IP Downloader

1) **After install OGP communication client, connect included USB cable, system will inspect automatically and load driver when connects IP Downloader for first time.**

☞It's unnecessary to insert USB cable of power during communication.

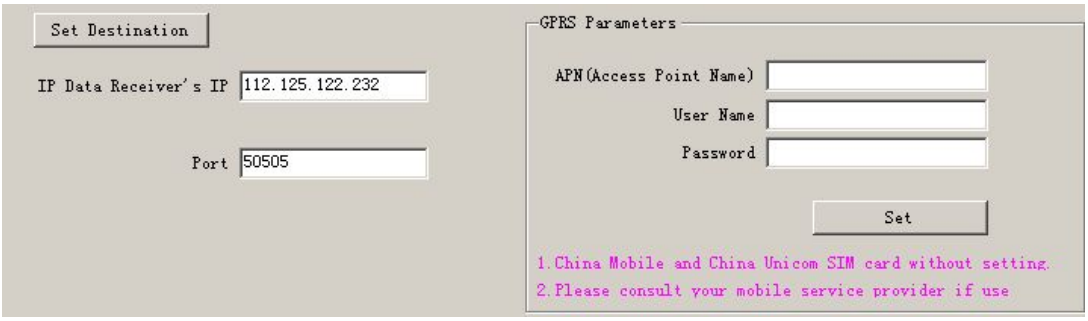
2) Double-click OGP communication client,

, run this software, main page is as belove:

3) Click main page Change Scanner, choose model: IPDL-II, click completed to return main page.

4) Click Diagnose , enter into set parameter of page.

■ Main parameter



Target domain name or IP: the Computer's (server) IP or domain name of IP data receiver.

Port: the monitoring port of IP data receiver.

☞How to use online guard patrol software:

IP address : 112.125.122.232

Port: 50505

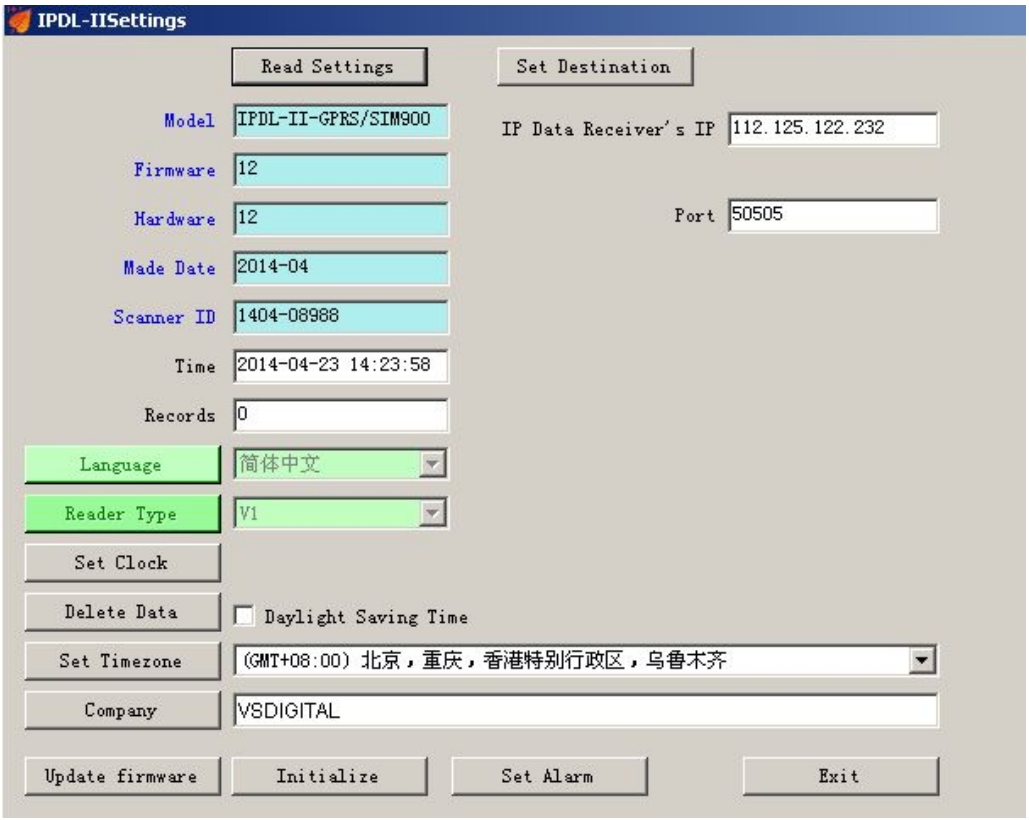
GPRS parameter: If you use GSM card of China Mobile or China Unicom, no need to setup parameter, If other countries, please contact local mobile operator.

Other countries or districts' APN, please reference" Global APN access point name list" .

★ About IP data receiver's detail instruction, please refer to file "OGP client & IP Downloader user manual".

IP_DataReceiver.exe (the icon of IP Data Receiver)

■ Other parameters



Timing: correct IP Downloader's time based on the local computer time.

Time zone: IP Downloader must set time zone. Set local time zone for IP Downloader, or the time of IP Downloader is wrong. IP Downloader supports day-light saving time, it can adjust clock automatically when meet day-ling saving time after setting time zone for IP downloader

Read records: read out how many records in the current device.

Delete records: delete all records in the reader.

Company name: Company name must be the same as registration name on online guard patrol software or OGP software.

Update firmware: update firmware directly via USB cable.

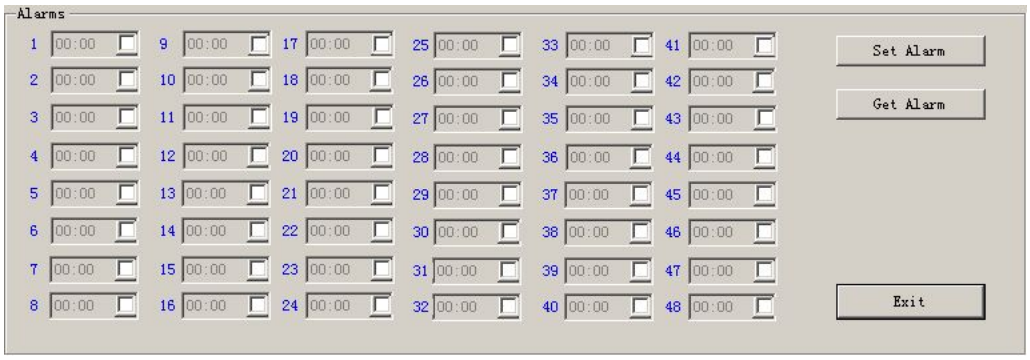
Attention: firmware program must be provided by manufacturer.

Remarks: IP Downloader has remote online upgrade function, please refer to file

" IP Downloader & OGP client user manual".

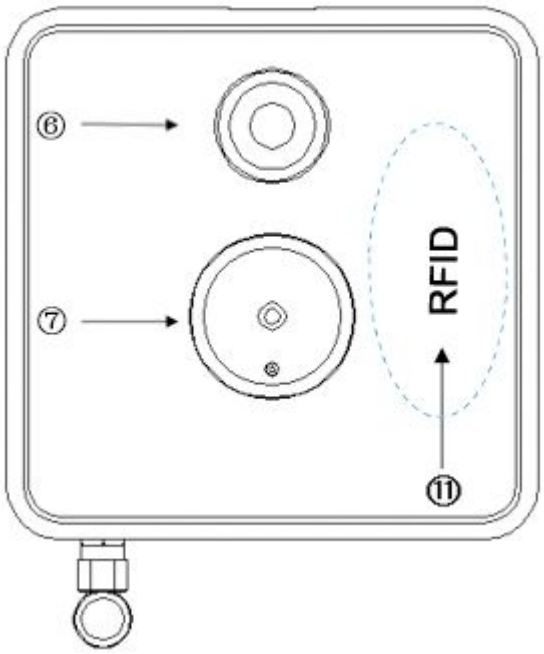
Initialization: Back to the factory defaults, IP Downloader should be set parameter again, as target IP, port and time zone main parameters after initialization.

■ How to set alarm clock



Tips: IP Downloader has 48 groups alarm clock, the buzzer rings rapidly at the first 10 minutes, the buzzer rings slowly after 10 minutes, the ring will stop after scan or touch IP downloader by tags.

（see the below picture）If not reading tags, rings cab last one hour.



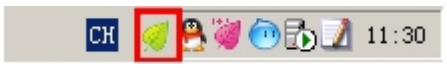
● Indication Information

No.	Indicator light	Buzzer	Meaning	Remarks
E01	Red light	A long sound, a short sound, repeat three times	No SIM card	Insert SIM card
E02	Red light	A long sound, two times short sound, repeat three times	Signal is not good enough	Change place,connect power again
E03	Red light	A long sound, three times short sound, repeat three times	GPRS module has problem	Advice to return company
E04	Red light	A long sound, four times short sound, repeat three times	GPRS module can not start	Advice to return company
E05	Red light	A long sound, five times short sound, repeat three times	Alarm clock is wrong	Correct clock of IP Downloader 1.connect USB, correct through computer. 2.correct through remote server communication. 3. CR2032 battery is loose or no power.
E06	Red light	A long sound, eight times short sound, continue	Hardware is wrong	suggest to return manufacture

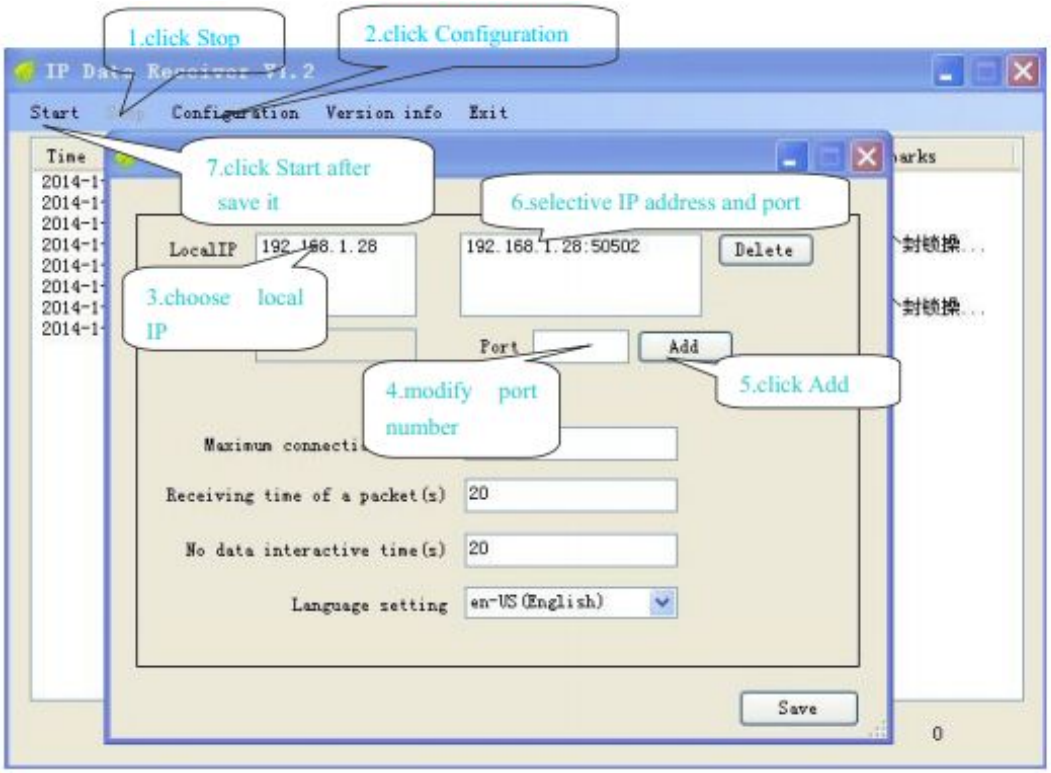
- **IP Downloader & OGP user manual**

1. Parameter

- IP data receiver: receive the data of IP Downloader, OGP communication client and V6GPRS.
- Install OGP software and Click in the pallet

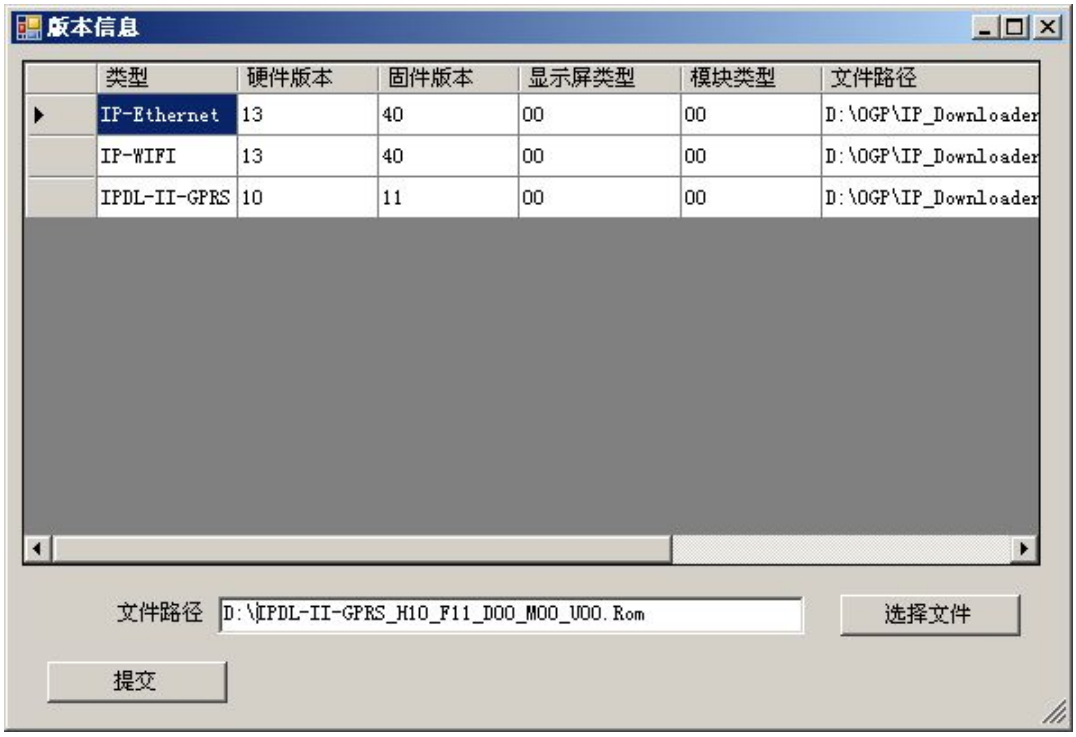


- Click IP data receiver V1.x, revise parameter(default port is 50502). The way is as below:



2. Remote online upgrade function

Click "*version information*" at main menu of *IP Data receiver V1.x*,show this page (show as below) ,choose firmware update program file, click " submit" then done.software can judge whether this firmware program is need to be upgraded or not automatically no need any operation



Attention: firmware program is provided by manufacturer.