

# **QNAP Mobile NAS**

## **User Manual**

### **(Version: 1.2)**

This manual is applicable to the following Mobile NAS models: QG-103N

© 2014 QNAP Systems, Inc. All Rights Reserved.

# Table of Contents

<b>1. How to use</b> .....	<b>7</b>
1.1 Read this first .....	8
1.2 Product overview .....	8
1.2.1 What you can do with QGenie.....	9
1.2.2 Supported devices .....	10
1.2.3 Appearance .....	12
1.3 Getting started .....	15
1.3.1 Bundled items .....	15
1.3.2 Charging QGenie.....	15
1.3.3 Turning the power on/off.....	18
1.3.4 Setting up an Android device.....	18
1.3.5 Setting up an iOS device.....	20
1.3.6 Connecting a device via wireless LAN .....	21
1.4 Getting started using a PC .....	23
1.4.1 Install Qfinder .....	23
1.4.2 Connecting PCs to QGenie.....	27
1.5 Setup/use QGenie with Qfile .....	29
1.5.1 Login from Qfile.....	30
1.5.2 Home Screen.....	31
1.5.3 Setup QGenie.....	32
1.5.4 Access and manage files (Basic).....	42

1.5.5 Access and manage files (Advance).....	46
1.5.6 Backup & restore phonebooks to/from QGenie.....	49
1.5.7 Setup Qfile .....	51
1.6 Setup/use QGenie with Qfinder	57
1.6.1 Login from Web Interface.....	57
1.6.2 Use My Network Places (Samba) to access QGenie content.....	59
1.6.3 Checking QGenie's Network Details .....	62
1.7 Setup/use QGenie with a Web Browser	63
1.7.1 Setting Page.....	63
1.7.2 Setup QGenie's Internet connection.....	68
1.7.3 Access QGenie's contents.....	70
1.8 myQNAPcloud service	71
1.9 Precautions	74
1.9.1 General use.....	74
1.9.2 Maintenance.....	75
1.9.3 Notes on external storage.....	75
1.10 Specifications	75
1.11 Recovery Mode	78
<b>2. Troubleshooting .....</b>	<b>79</b>
2.1 Main unit	79
2.1.1 QGenie does not turn on.....	79
2.1.2 The battery life is shorter than expected. ....	79

2.1.3	<i>The battery discharges very quickly, even when QGenie is off.....</i>	80
2.1.4	<i>The battery does not charge from a computer.....</i>	80
2.1.5	<i>The battery indicator icon does not appear as charging.....</i>	80
2.1.6	<i>It takes a long time to charge the battery.....</i>	80
2.1.7	<i>QGenie does not supply power to other devices.....</i>	80
2.2	Heat	80
2.2.1	<i>This unit becomes warm.....</i>	80
2.3	Charging	80
2.3.1	<i>The battery does not charge from a computer.....</i>	81
2.3.2	<i>The battery indicator lamp does not light while charging.....</i>	81
2.3.3	<i>The battery indicator lamp blinks while charging.....</i>	81
2.3.4	<i>It takes a long time to charge the battery.....</i>	81
2.3.5	<i>The wireless LAN function cannot be used while charging.....</i>	81
2.4	Power bank	81
2.4.1	<i>QGenie does not supply power to other devices.....</i>	81
2.5	Wireless LAN connection	82
2.5.1	<i>A Wireless LAN connection to a mobile device or computer cannot be established,..... or it is an unstable connection, and/or it takes a long time to connect.</i>	82
2.5.2	<i>I found two wireless names (SSIDs), both of which start with "QG" and I cannot..... determine which one should be used.</i>	82
2.5.3	<i>The wireless LAN connection has stopped.....</i>	83
2.6	Internet connection	83
2.6.1	<i>An Internet connection cannot be established.....</i>	83

2.7 Other	83
.....	
2.7.1 How many wireless networks (SSIDs) can be registered as external access points.....	83
for the Internet connection?	
2.7.2 How many users can connect to QGenie at the same time?.....	83
2.8 File operation	84
.....	
2.8.1 Data playback/display .....	84
2.8.1.1 Data cannot be played back or displayed.....	84
2.8.1.2 It takes time to play back or display data. ....	84
2.8.1.3 What file formats are supported by Qfile? .....	84
2.8.1.4 Files cannot be edited by Qfile .....	84
2.8.1.5 The Camera Roll cannot be accessed (iOS devices).....	84
2.8.2 Copying and deleting data.....	84
2.8.2.1 It takes too long to copy data.....	85
2.8.2.2 Data cannot be copied to external storage (SD card, USB storage, mobile devices).....	85
2.8.2.3 Data on external storage (SD card, USB storage, mobile devices) cannot be deleted.....	85
2.9 USB connection to a computer	85
.....	
2.9.1 QGenie is connected to a computer with the USB cable but is not recognized.....	85
2.9.2 The battery light is orange.....	85
2.9.3 The wireless LAN connection has stopped after connect to PC.....	85
2.10 Qfile	86
.....	
2.10.1 Qfile cannot be installed.....	86
2.10.2 What file formats are supported by "Qfile"?.....	86

2.10.3 Files cannot be edited using Qfile.....	86
2.10.4 How can I check the version of Qfile?.....	86
2.10.5 I can not login QGenie by Qfile.....	87
2.11 myQNAPcloud.....	87
2.11.1 I can not register my QGenie to myQNAPcloud.....	87
2.12 Additional Information.....	87
2.12.1 Resetting.....	87
2.12.2 Security settings for QGenie's wireless LAN.....	87
2.12.2.1 Are wireless security settings really necessary?.....	87
2.12.2.2 What wireless security settings are available for QGenie?.....	87
2.12.2.3 I have forgotten the password.....	87
2.13 System software update.....	88
2.13.1 About updating QGenie's software.....	88
2.13.2 If QGenie fails to update its firmware.....	88
2.14 USB cable.....	88
2.14.1 The USB cable cannot be connected to QGenie.....	88
<b>3. Customer Support.....</b>	<b>88</b>
<b>4. GNU GENERAL PUBLIC LICENSE.....</b>	<b>89</b>

## **1. How to use**

### **[Read this first](#)**

Disclaimer, copyright notices, and other important information about QGenie.

### **[Product overview](#)**

Overview of the functions provided by QGenie and supported products.

### **[Getting started](#)**

How to get started using mobile devices.

### **[Getting started using a PC](#)**

How to get started using a PC or Mac.

### **[Setup/use QGenie with Qfile](#)**

How to use Qfile on mobile devices to access and setup QGenie

### **[Setup/use QGenie with Qfinder](#)**

How to use Qsync on PC to access contents on QGenie.

### **[Setup/use QGenie with Web Browser](#)**

How to use a web browser to setup and access QGenie.

### **[myQNAPcloud service](#)**

How to register QGenie with myQNAPcloud

### **[Precautions](#)**

Precautions when using QGenie.

### **[Specifications](#)**

QGenie's hardware and software specifications.

### **[Recovery mode](#)**

How to recover QGenie if it fails to start or upgrade.

## 1.1 Read this first



### **Battery capacity-related precautions**

This device contains a rechargeable battery. If you are copying files and the battery runs out, the file-copying procedure will fail. If the battery fails when writing to the device, it may cause data corruption.

### **Disclaimer of guarantee of content**

QNAP bears absolutely no responsibility of compensating for content nor responsibility for any related damages caused by data stored on this device being lost due to device damage, defects or other hardware or software malfunction. Also, QNAP will not recover, restore, duplicate (etc) any of the content on this device in any situation.

### **Regarding usage of external storage devices (SD card, USB drive, etc)**

If the battery runs out or the external device is removed while it is being accessed, then data stored on the external device may be damaged.

## 1.2 Product overview

### **[What you can do with QGenie](#)**

Introduction to the main features.



## Supported devices

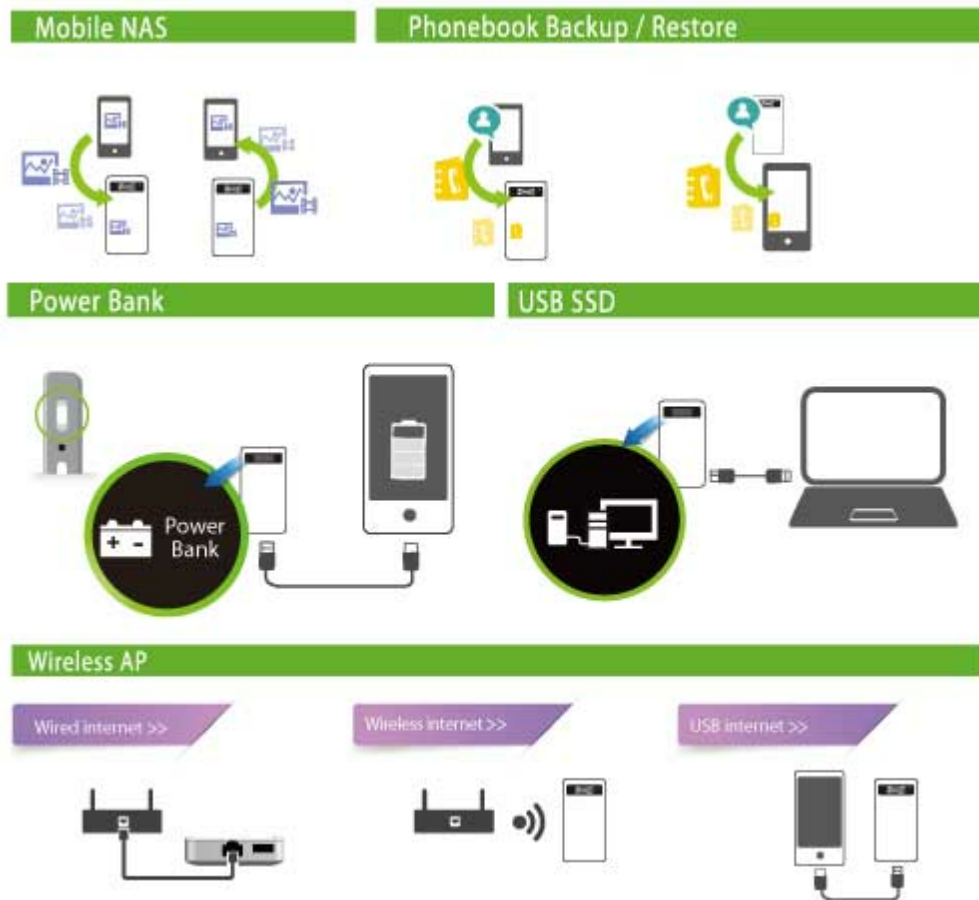
Required specifications and operating environment for devices to be used with QGenie.

## Appearance

How to turn on/off QGenie. What is the meaning of LED indicator and OLED screen.

### **1.2.1 What you can do with QGenie**

QGenie is an innovative mobile NAS designed for file storage, backup and sharing on the go. QGenie can also act as a wireless sharing router for internet access and as a power bank for charging mobile devices. QGenie provides a hassle-free solution to backup/restore phonebook from Android and iOS devices at any time. Also featured is USB 3.0 connectivity, which allows the QGenie to act as a portable SSD when connected to a PC.



### **Mobile NAS**

- Innovative mobile data center. Users can enjoy the benefit by NAS without complicated settings. Easy installation of "Qfile." Use QGenie in 2 steps.
  1. Connect wireless network on your mobile device to QGenie.
  2. Open Qfile.
- Easy file management.
- Automatically upload photos and videos taken with mobile devices to QGenie.
- Supports external multimedia players accessing the contents on QGenie.
- Lightweight (only 112g/4oz).
- Use Qsync on a PC to transfer files to a QNAP Turbo NAS.

### **Wireless Access Point / Wi-Fi hotspot**

- Supports up to 20 devices.
- Maximum wireless range of up to 50m/164 feet.
- Share network access during travel and in office. ([How?](#))
- Create a Wi-Fi hotspot from wired Internet. ([How?](#))
- Create a Wi-Fi hotspot from 3G/4G USB modems. ([How?](#))
- Connect Android or iOS for tethering. ([How?](#))

### **Power bank**

- Provides 7 measures to protect your mobile devices from damage when using as a power bank.
  - Overcharge protection
  - Over-discharge protection
  - Over Temperature protection
  - Short Circuit protection
  - Over-Voltage protection
  - Over-Current protection
  - Advanced SDP/DCP support
- Supports serial charging. Charge your devices even when QGenie is being charged.
- Supports 1.5A/5V output. Able to charge iPad devices.
- Highly-efficiency 90% power conversion rate.

### **Personal cloud**

- When QGenie is nearby  
Mobile devices and PCs can simultaneously access content stored on QGenie and even share files with each other.
- When QGenie is far away/on Internet  
QGenie contents can be accessed using the myQNAPcloud service.

### **Phonebook backup and recovery**

- 4 simple steps to backup/recover phonebooks from mobile devices. ([How?](#))
- Able to recover phonebooks to/from different platforms such as iOS or Android.
- Provides scheduled backup for greater efficiency.

### **Portable multimedia server**

- Can play music stored on QGenie.
- Qfile can play a wide range of video formats (including mp4, mkv, and rmvb).
- Multiple devices can simultaneously access different media files.

### **USB SSD super speed storage devices**

- When connected to a PC via USB 3.0, QGenie will become a portable SSD.
- Up to 120MB/s read and 40MB/s write speeds.
- Connect QGenie to a Smart TV to directly browse photos and videos.

### **High expandability**

- Supports SDXC SD cards up to 128GB. ([Go check compatibility list](#))
- Supports USB drives up to 2TB. ([Go check compatibility list](#))

### **OLED screen**

Provides a clear view of current system status.

#### **1.2.2 Supported devices**

##### **Android**

Android 2.3

Android 4.0 (or later)

**Windows PC**

Windows XP (with SP3)

Windows Vista (with SP2)

Windows 7 (with SP1)

Windows 8

**iOS**

iOS 5.0 (or later)

**Mac**

Mac OS X 10.6 (or later)

***Compatible SD cards***

SD card

SDHC card

SDXC card

microSD card (needs converter)

microSDHC card (needs converter)

microSDXC card (needs converter)

[Full compatibility list](#)

***Compatible USB devices***

USB flash drive

USB hard drive

Smartphone (for charge and tethering)

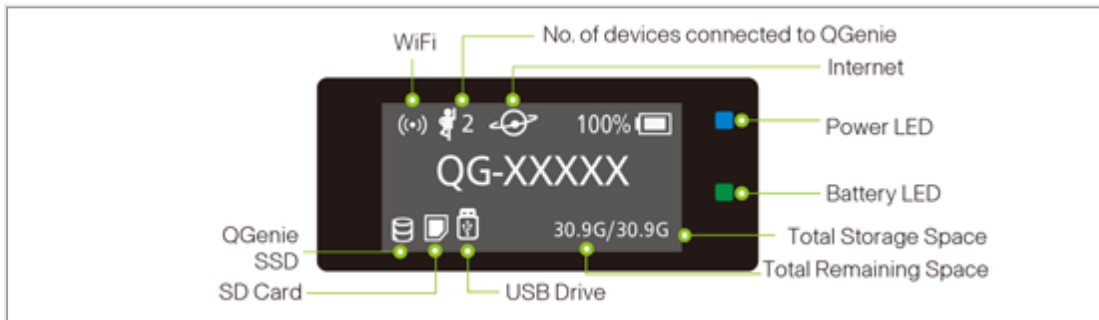
[Full compatibility list](#)

### 1.2.3 Appearance

#### Product Picture



#### OLED



#### Power LED

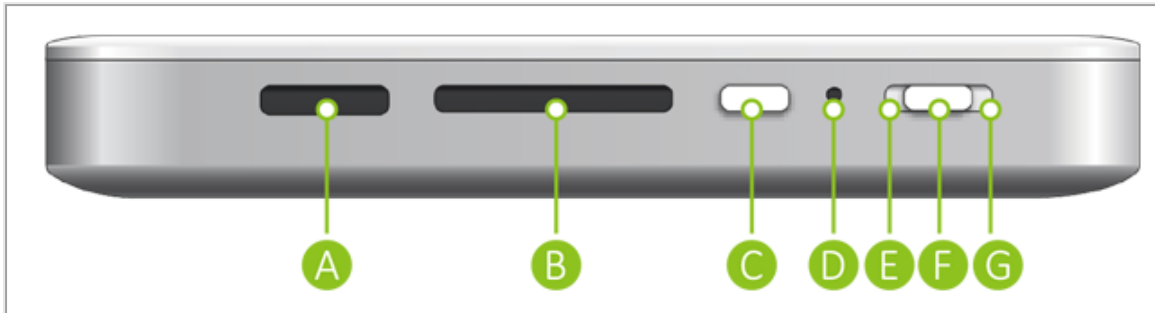
Color	Status	Description
Blue	Blinking	System starting
Blue	On	Wi-Fi sharing ready

#### Battery LED

Color	Status	Description
Green	On	Full battery
Red	Blinking	Low battery

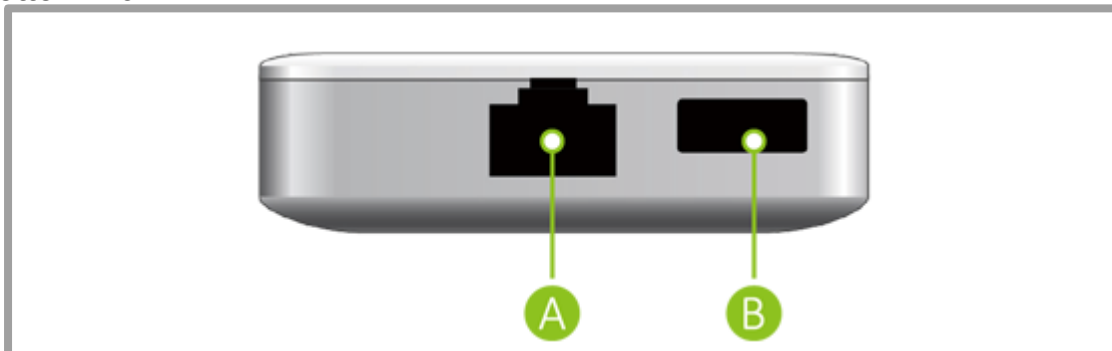
Orange	On	Charging battery
--------	----	------------------

**Side view**



Ports/Switch	Icon	Description
A		USB to PC/Charge
B		SD Card Slot
C		Information Button
D	X	Reset Button
E	OFF	Off Mode
F		Power Bank Mode
G		Wi-Fi Sharing Mode

**Bottom view**



Ports	Description
A	Wired Internet
B	USB 3.0 Port

**Hardware installation**

	<b>NOTE</b>
Please ensure you insert the SD card/USB device correctly, as forcing it into place may damage	

QGenie.

### ***Insert SD card***

Insert the SD card with its **front side facing up**.



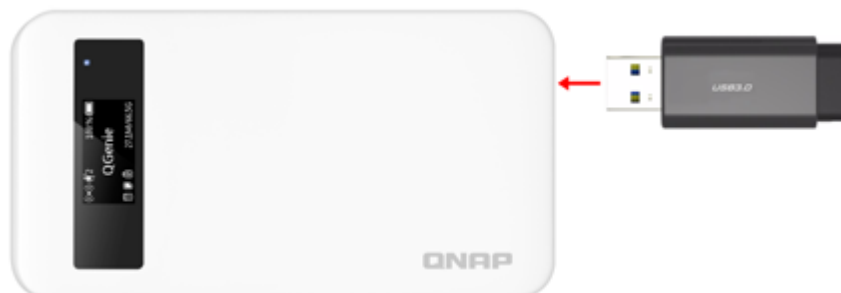
If an SD card is correctly inserted, the QGenie OLED screen will show an SD icon on the storage indicator.

Users can access the data on the SD card after SD icon appears.

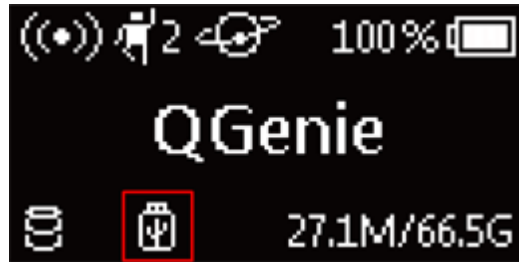


### ***Insert USB storage***

Insert USB storage to the bottom USB port.



If the USB storage is correctly inserted, the QGenie OLED screen will show the USB icon on the storage indicator. Users can access the data on the USB storage after USB icon appears.



## 1.3 Getting started

### Bundled items

List of items included with QGenie.

### Charging QGenie

You can charge QGenie from a computer connected via a USB cable or from a USB AC adaptor.

### Turning the power on/off

You can turn on/off the power by sliding the power switch.

### Setting up an Android device

Download and install Qfile from Google Play.

### Setting up an iOS device

Download and install Qfile from the App Store.

### Connecting a device via wireless LAN

Connect your mobile device to QGenie using the wireless connection.

#### **1.3.1 Bundled items**

Make sure that you have received these items. If any are missing, contact your seller.

1. QGenie (QG-103N)
2. USB 3.0 cable
3. Quick installation guide

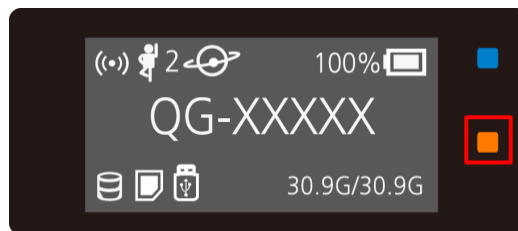
#### **1.3.2 Charging QGenie**

##### **Charging with a USB AC adaptor**

1. Connect the USB AC adaptor to the QGenie's "USB to PC/Charger" port. Connect AC adaptor to a power outlet.



2. Battery LED indicator will display the orange on.



3. The OLED battery indicator will show 100% when QGenie is fully charged.



4. When charging is complete, disconnect the USB AC adaptor from QGenie.

5. The approximate charging time is 3 hours.

**i NOTE**

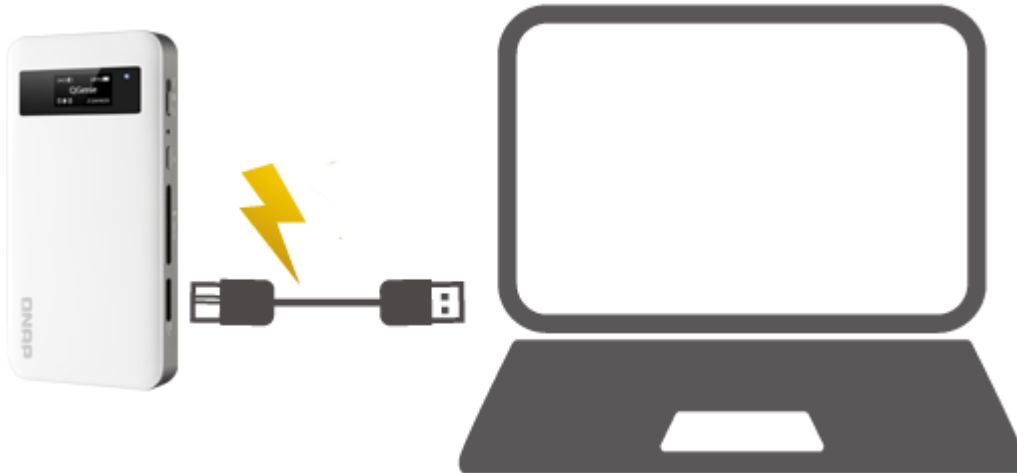
- Be sure to insert the cable correctly. Pushing the cable forcibly into the port may damage the port.
- For optimum performance of the rechargeable lithium-ion battery, it is recommended to charge in an ambient temperature between 10 °C – 35 °C (50 °F - 95 °F).



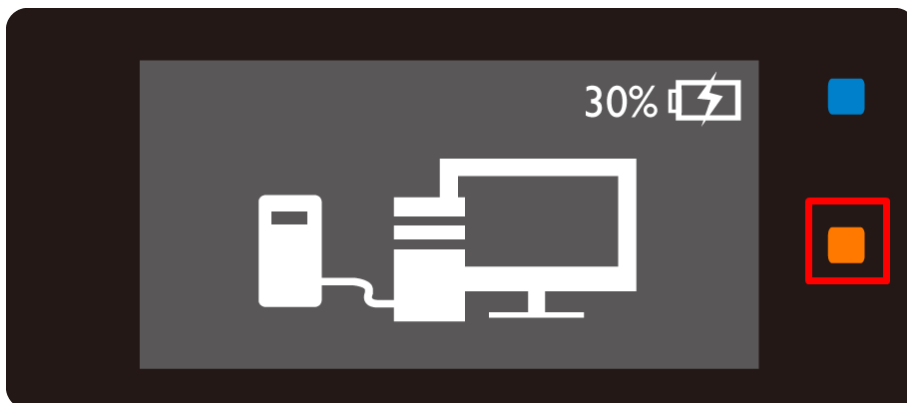
- If an abnormality (increased temperature, insufficient power supply, etc) occurs while charging, the OLED screen may show an error, the battery LED will blink orange, and charging may stop. If this occurs when QGenie is on, please turn it off or try with a different USB adaptor.

### **Charging with a PC**

1. Connect QGenie to a computer using a USB cable.



2. Battery LED indicator will display the orange on.



3. The OLED battery indicator will show 100% when QGenie is fully charged.



4. When charging is complete, disconnect the USB cable from QGenie and the computer.

#### **i NOTE**

- QGenie cannot be charged when the PC is turned off or in sleep mode.
- QGenie will be recognized as USB storage when connected to a PC.
- Be sure to insert the cable correctly. Pushing the cable forcibly into the port may damage the

port and result in malfunction.

- For optimum performance of the rechargeable lithium-ion battery, it is recommended to charge in an ambient temperature between 10 °C – 35 °C (50 °F - 95 °F).
- If an abnormality (increased temperature, insufficient power supply, etc) occurs while charging, the OLED screen may show an error, the battery LED will blink orange, and charging may stop. Please try other ports of PC to continue charging.

### 1.3.3 Turning the power on/off

#### Turning the power on

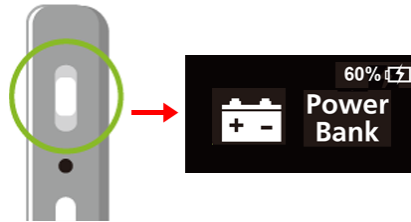
To start QGenie in Wi-Fi sharing mode:

Slide the power switch to the top, and wait until the screen shows “QG-XXXXXX”



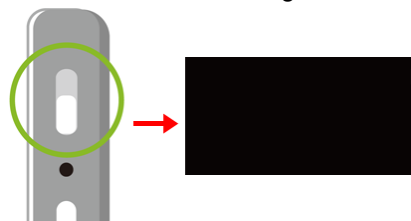
To start QGenie in Power bank mode:

Slide the power switch to the middle, and the screen will show “Power Bank.”



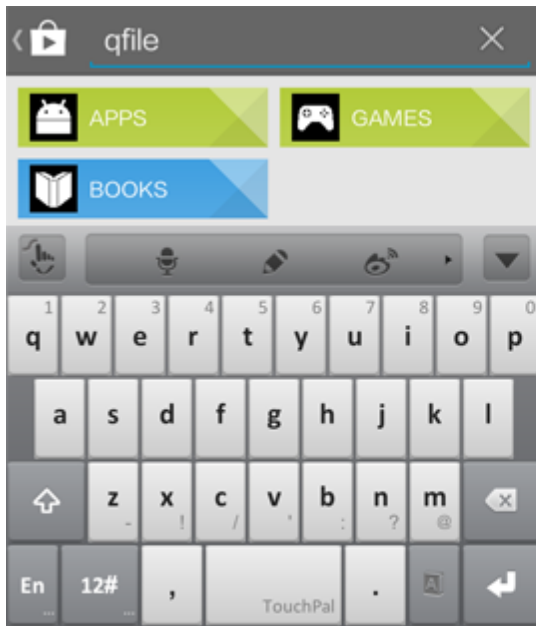
#### Turning the power off

Slide the power switch to the bottom and the screen will go blank.



### 1.3.4 Setting up an Android device

1. Open the Google Play Store and search for “Qfile,” or scan the below QR code.



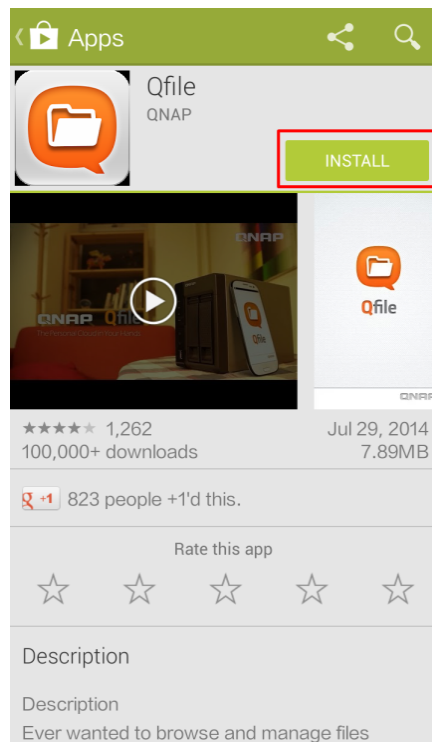
Google Play

OR

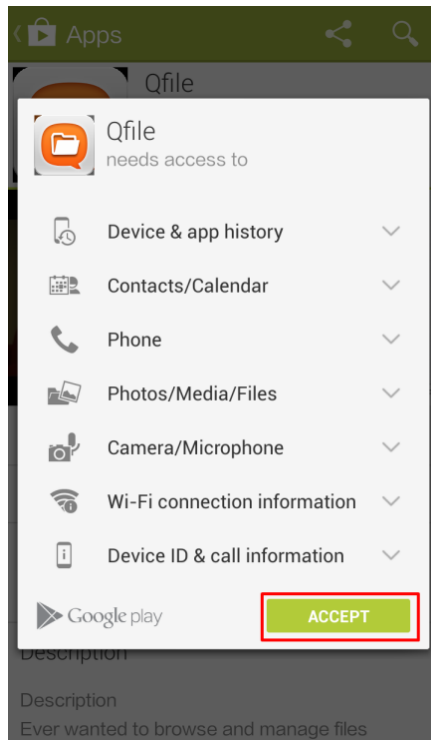


QR Code

2. Select Qfile, and tap the [INSTALL] button.

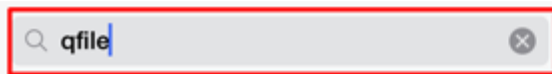


3. Check the required permissions, and press [ACCEPT] to install Qfile to your device.



### 1.3.5 Setting up an iOS device

1. Open the App Store and search for “Qfile,” or scan the below QR code.



qfile



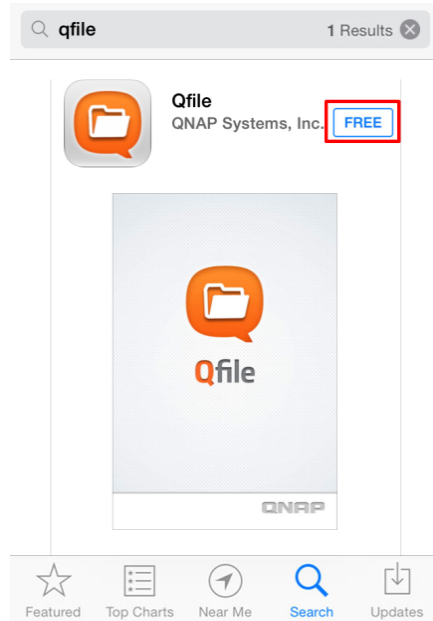
App Store

OR

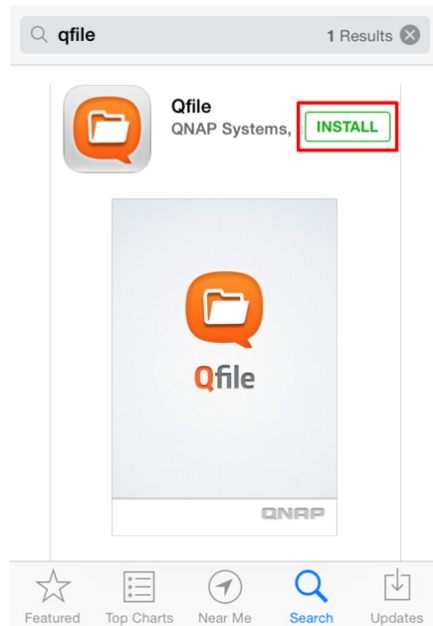


QR Code

2. Locate and select Qfile. Tap the [FREE] button.



3. After selecting [FREE], the blue button will turn to green and change to [INSTALL]. Tap this button again to install "Qfile."

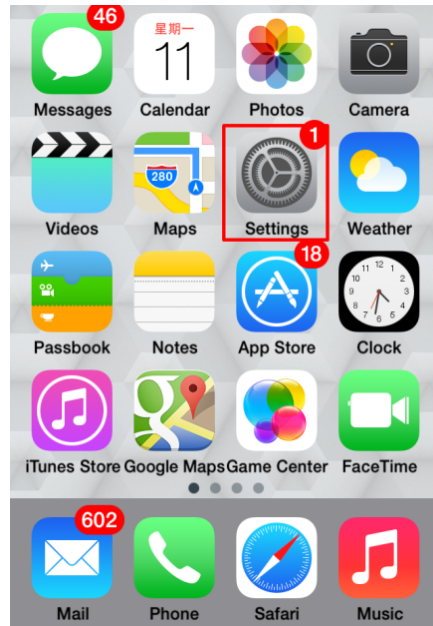


### **1.3.6 Connecting a device via wireless LAN**

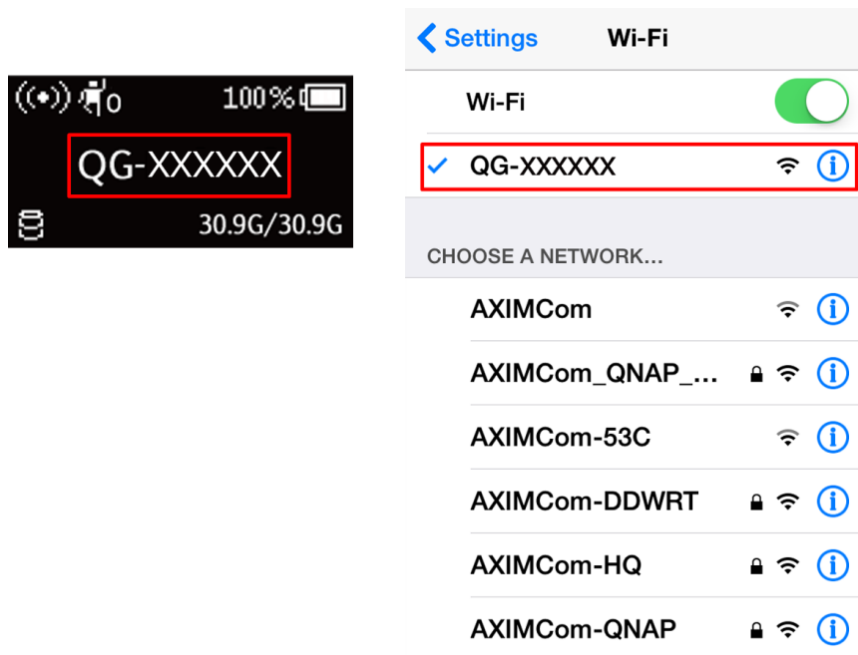
1. Turn on QGenie by sliding its power switch to the top and wait until the progress bar disappears.



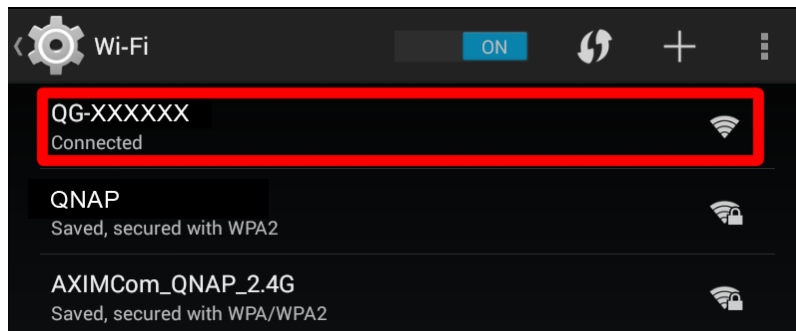
2. Go to the [Settings] of your mobile device (the below example uses an iPhone).



3. QGenie's wireless name (SSID) is the same as the name on QGenie's OLED screen. Find it and connect to it.



(iOS)



(Android)

**i NOTE**

- iOS devices will still show the “3G/4G” icon when connected to QGenie without an Internet connection. This is normal, as the device will connect to Wi-Fi (QGenie) and 3G/4G at the same time.

## 1.4 Getting started using a PC

### [Install Qfinder](#)

How to install Qfinder on your PC.

### [Connecting PCs to QGenie](#)

Connecting a PC or Mac to QGenie using a wireless connection.

#### **1.4.1 Install Qfinder**

1. Go to <http://www.qnap.com/> and then “Support”> “Download”> “Utilities”.



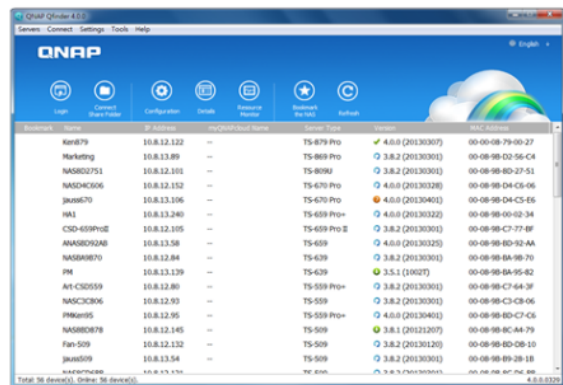
2. Download Qfinder based on what operating system you are using.

Qfinder



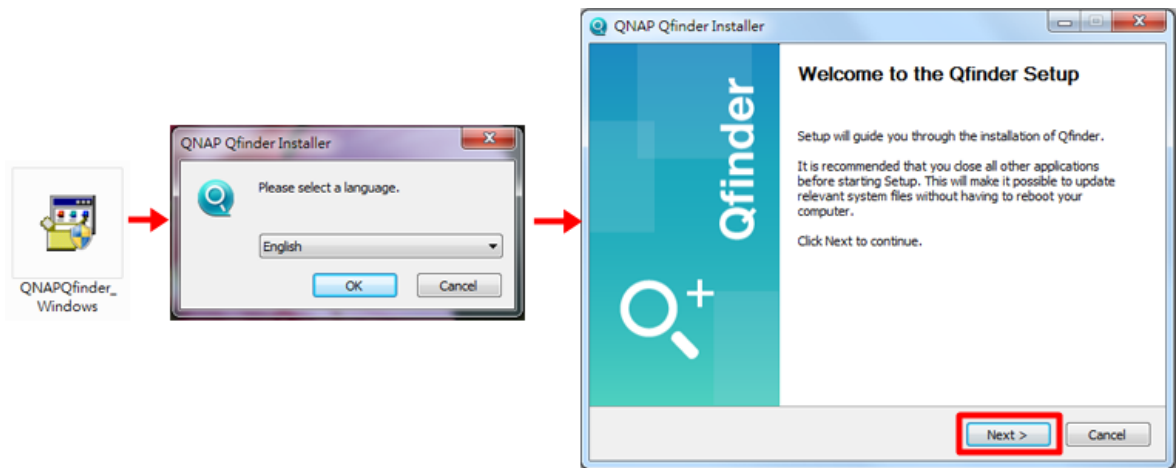
Connect and set up NAS easily

Qfinder is a utility, available for Windows, Mac, and Linux, to quickly find and access the Turbo NAS over the LAN. Install the Finder on your computer, open it, and double click your Turbo NAS name, and the login page is ready for you.

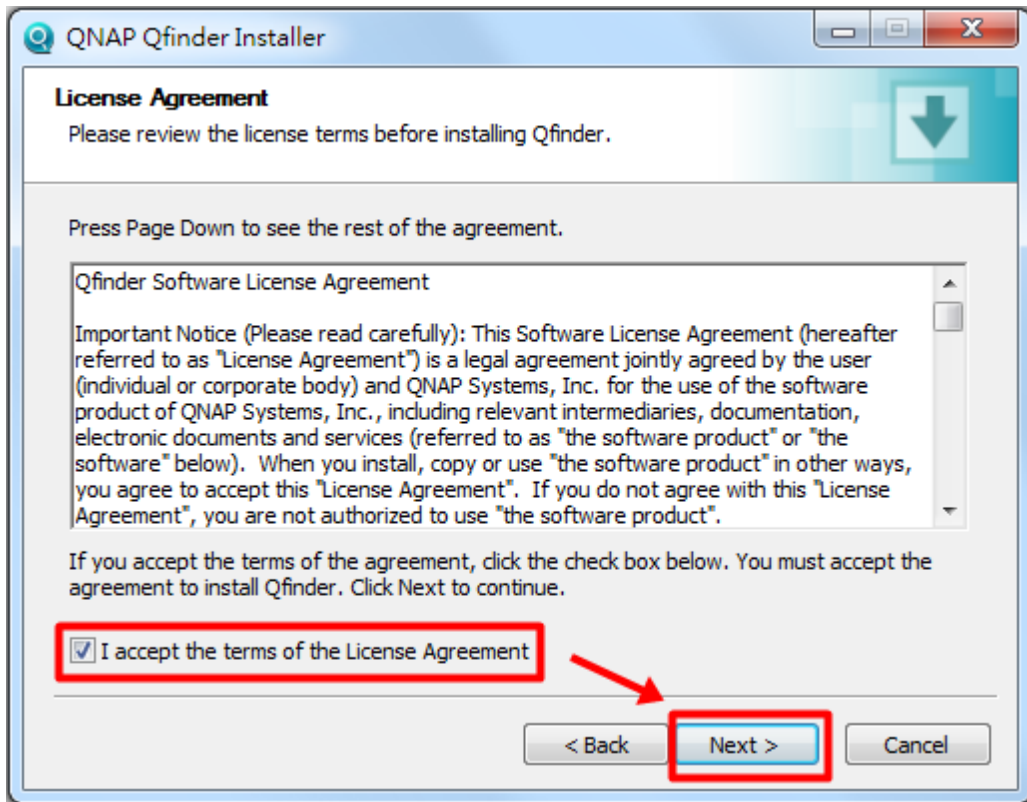


3. Run the Qfinder installation program.

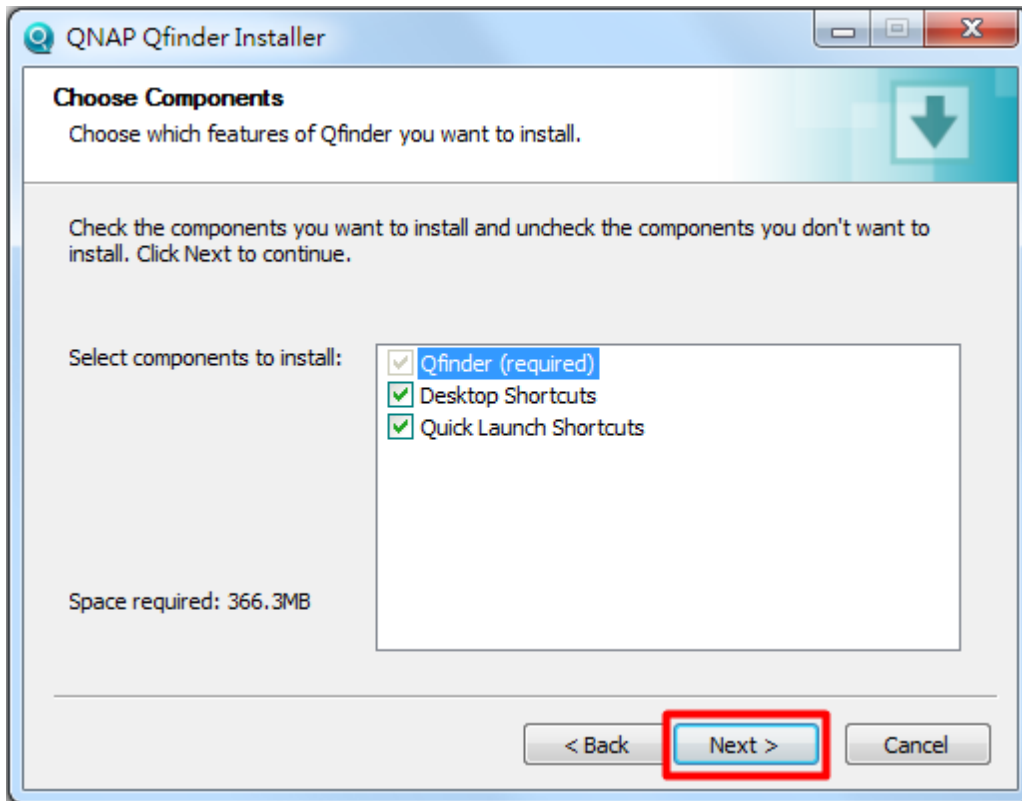




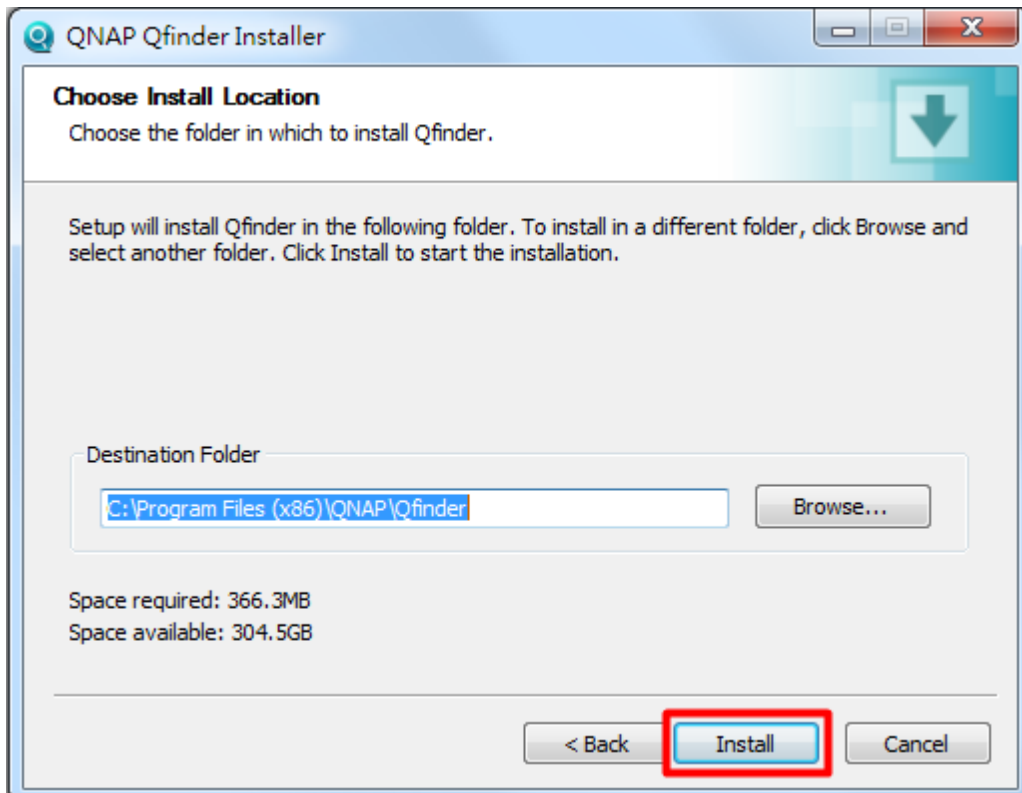
4. Read the license agreement, check [I accept the terms of the License Agreement], and click [Next].



5. Select what components you want to install and click [Next].



6. Choose where to install Qfinder, and click [Install].



## 1.4.2 Connecting PCs to QGenie

### Connecting to QGenie with Windows

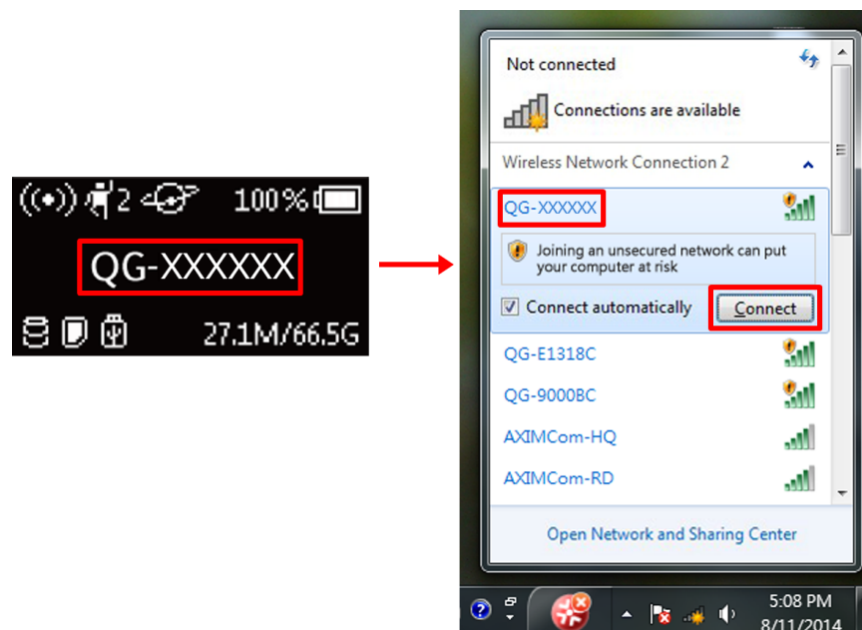
1. Turn on QGenie by sliding its power switch to the top and wait until the progress bar disappears.



2. Go to your list of available network connections (in Windows 7, by clicking on the icon on the taskbar).



3. QGenie's wireless name (SSID) is the same as the name on QGenie's OLED screen. Find it and connect to it.





**i** NOTE

Internet connections will be temporarily interrupted after connecting to QGenie. Please refer to below sections for how to configure an outbound network.

- [Setup QGenie's Internet connection](#)

### Connecting to QGenie with Mac

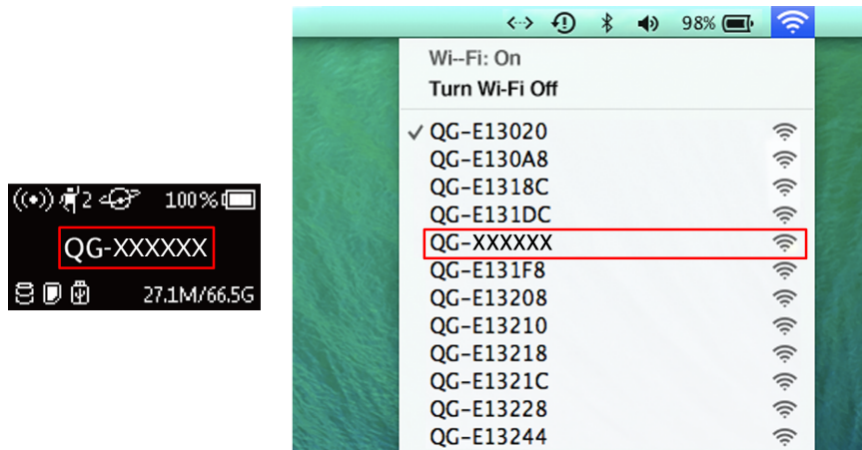
1. Turn on QGenie by sliding its power switch to the top and wait until the progress bar disappears.



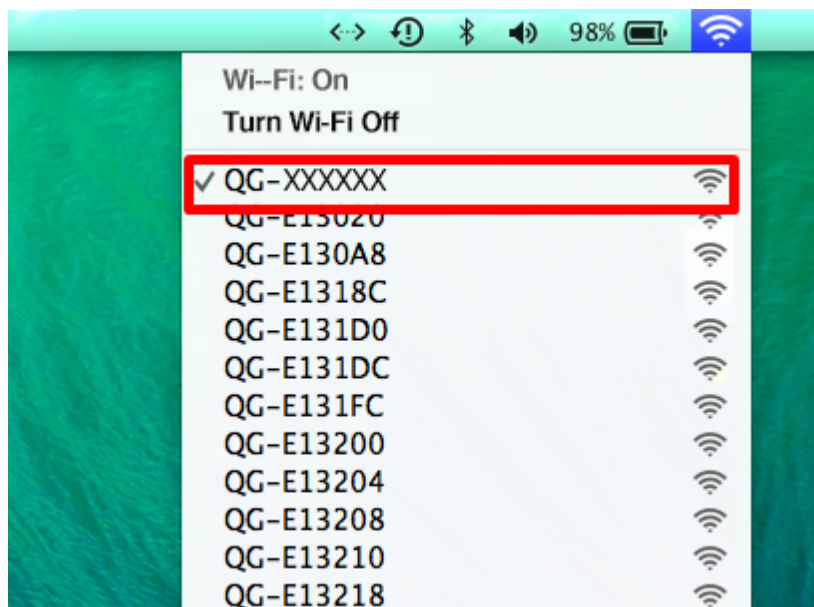
2. Go to your list of available network connections by clicking the icon in the menu bar.



3. QGenie's wireless name (SSID) is the same as the name on QGenie's OLED screen. Find it and connect to it.



4. Click the Wi-Fi icon to check if the Mac is already connected to QGenie.



## 1.5 Setup/use QGenie with Qfile

### [Login from Qfile](#)

Use Qfile from mobile devices to access QGenie

### [Home Screen](#)

How to use Qfile after connecting to QGenie.

### [Setup QGenie](#)

Check and set QGenie's settings: Device name, wireless security, admin password, how QGenie connects to the Internet, and how to update QGenie's firmware.

### [Access and manage files \(Basic\)](#)

Use Qfile to copy, move, delete, or download files on QGenie.

### [Access and manage files \(Advanced\)](#)

Use Qfile to check detailed information of each file, and perform sharing actions.

## [Backup & restore phonebooks to/from QGenie](#)

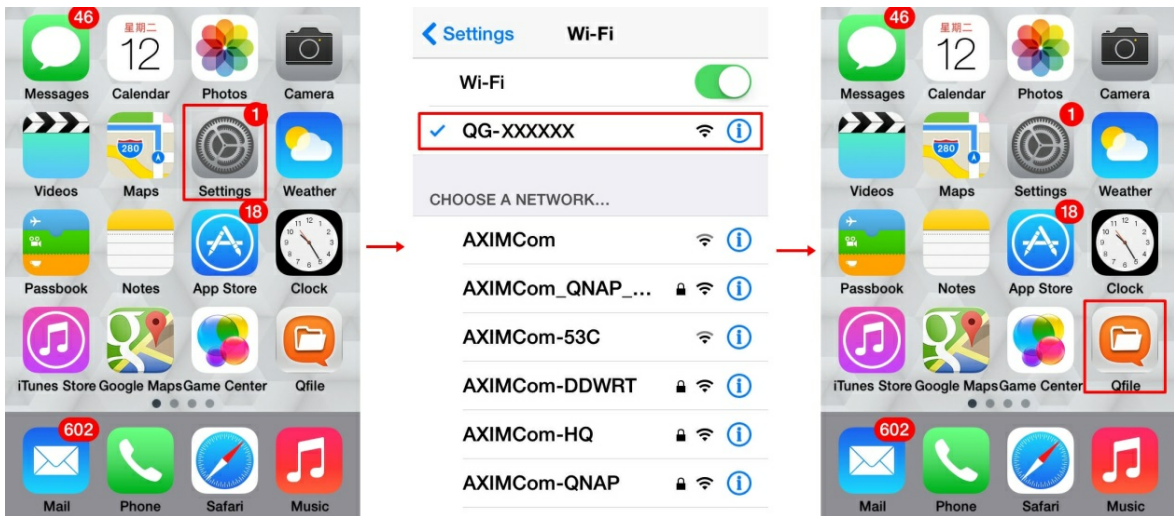
How to back up and restore contacts by Qfile

### [Setup Qfile](#)

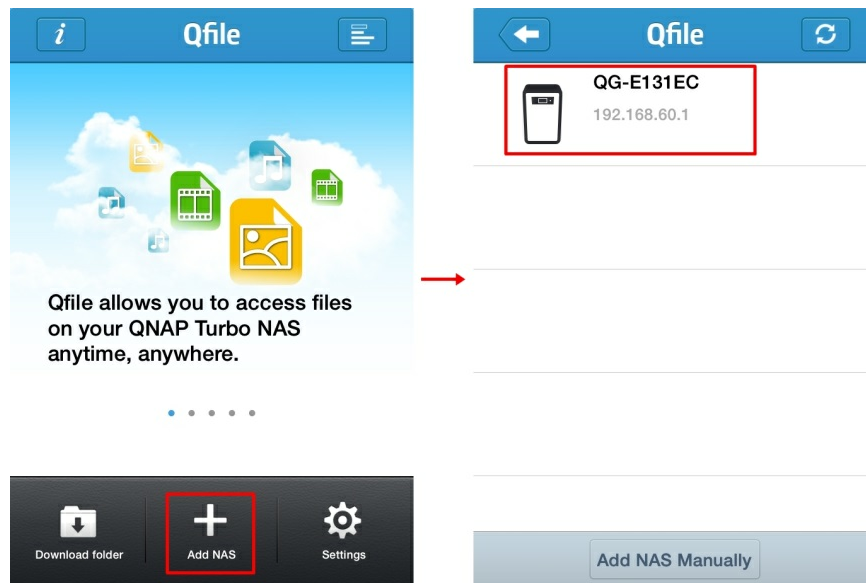
Settings to configure Qfile: Cache size, auto upload, and auto login policy.

#### **1.5.1 Login from Qfile**

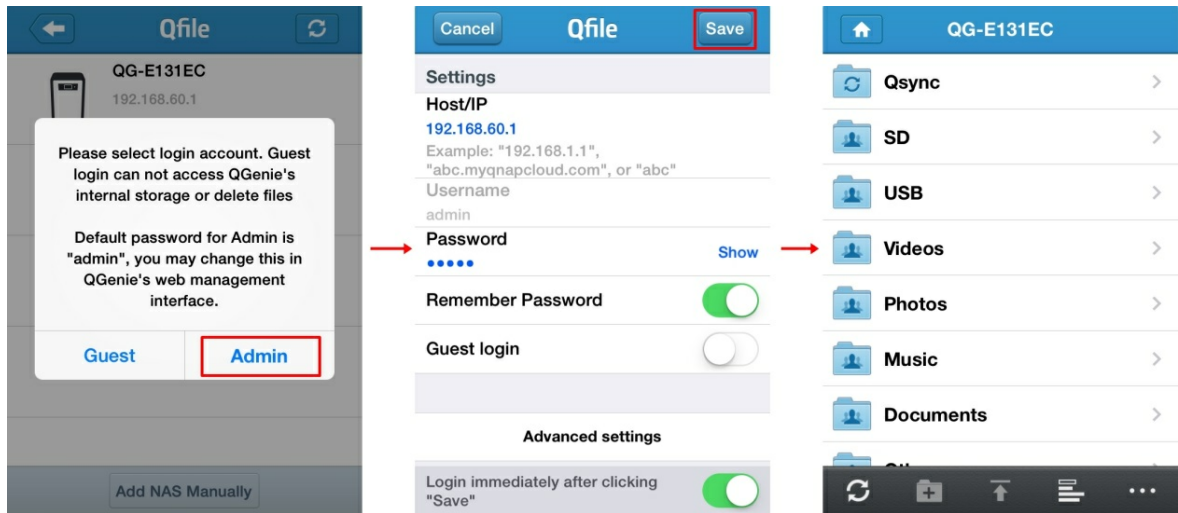
1. Turn on QGenie in Wi-Fi sharing mode, connect to it using your mobile device and launch [Qfile] once connected.



2. After connecting, tap [Add NAS] and find QGenie.




3. After selecting QGenie, choose [Admin] to log into QGenie.



### 1.5.2 Home Screen


Icon	Description
	QG-E131EC
	Qsync
	SD
	Videos
	Photos
	Music
	Documents
	Others
	Browse QGenie's downloaded files
	QGenie's settings
	Phonebook restore and backup
	Qfile settings
	Refresh
	Add a folder
	Upload files from the mobile device to QGenie

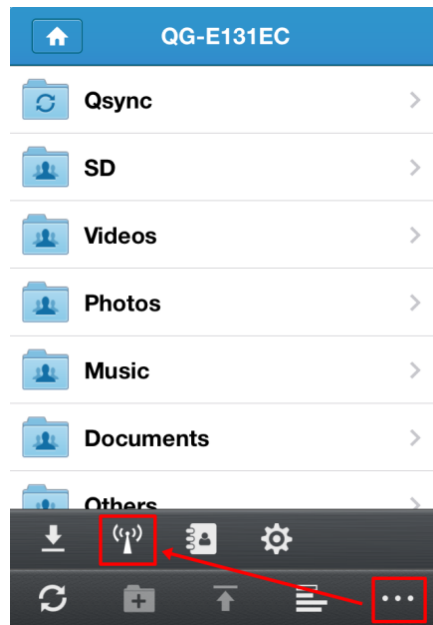
	Show the current file transfer status
---	---------------------------------------

### 1.5.3 Setup QGenie

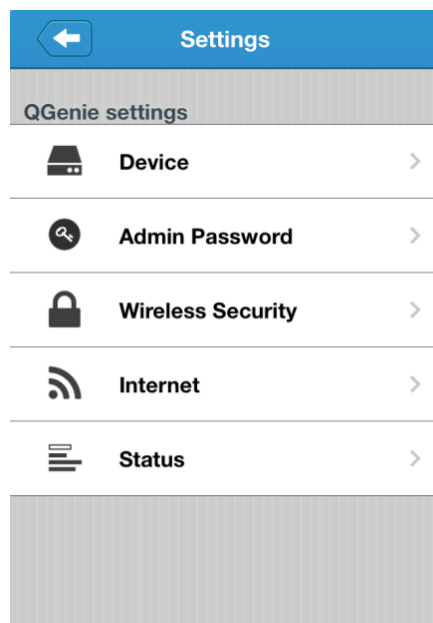
After logging in to QGenie using the Admin account, Qfile can configure QGenie's settings.

1. Turn on QGenie in Wi-Fi sharing mode and launch [Qfile].

2. After the mobile device has connected to QGenie, select [ ... ] and choose [  ]



3. The following QGenie settings can be configured.

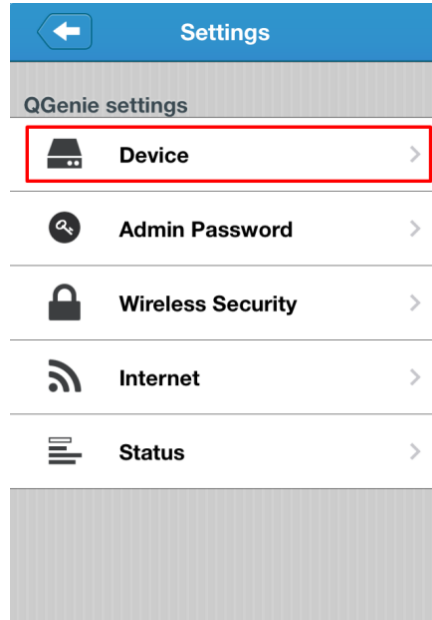




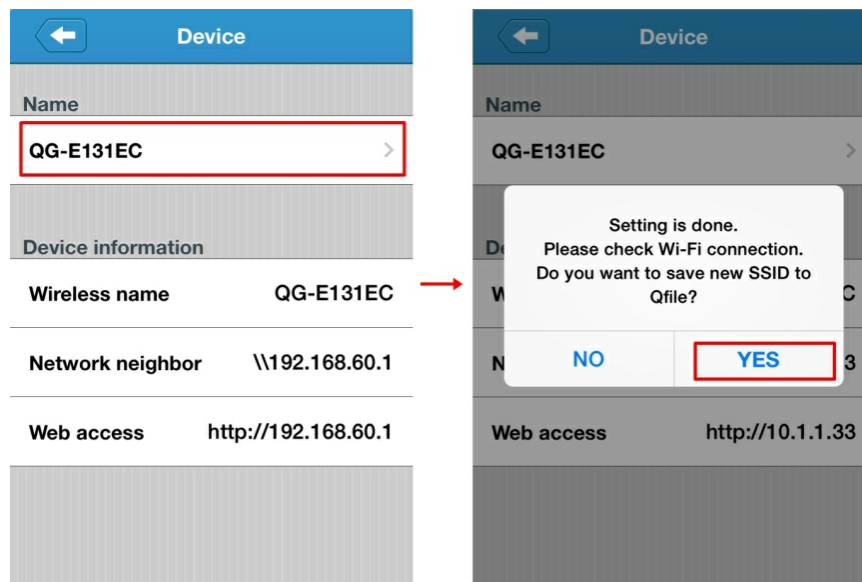
## Setup QGenie's Name

QGenie's Name (also used as its SSID) can be changed by using Qfile. Please refer to the below instructions (using the iOS app as an example).

1. Choose [Device]



2. Select [Name], enter a new name, and select [YES] to confirm the change.



### NOTE

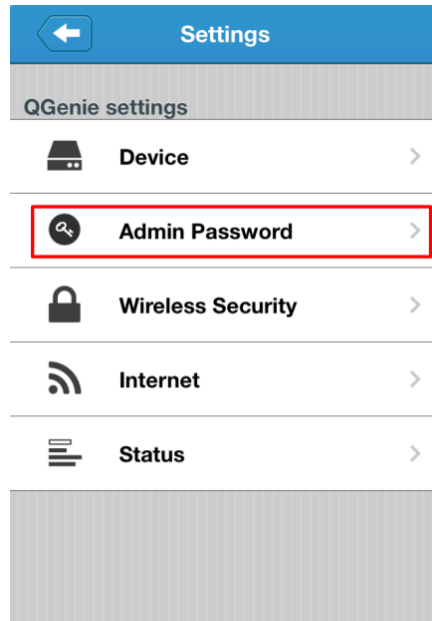
Changing QGenie's name will also change the Wireless name (SSID). You will need to reconnect to it using the new network SSID and then reopen Qfile.

## Setup QGenie's Admin Password

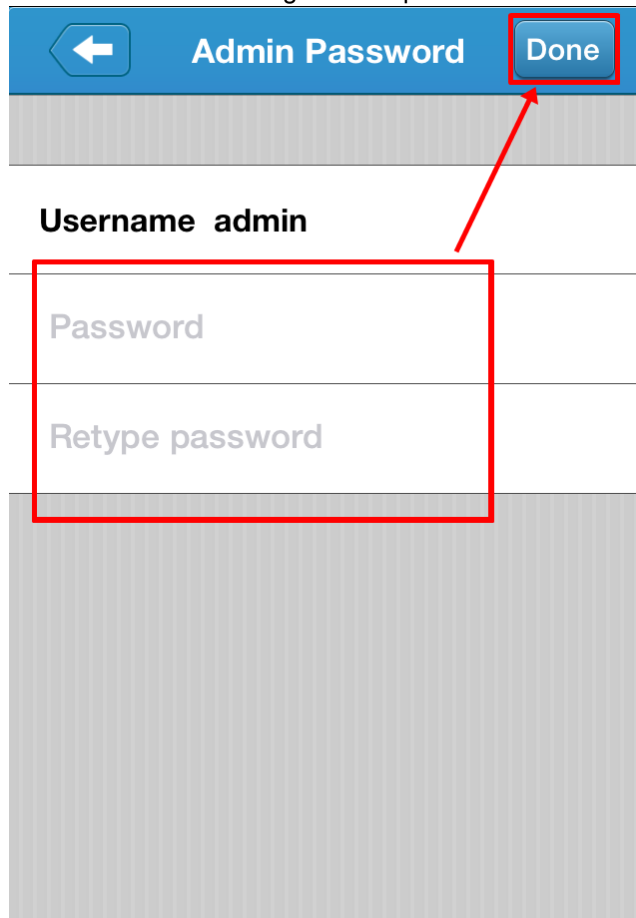
**IMPORTANT**

Change your password IMMEDIATELY upon using QGenie for the first time, and also change it periodically.

1. Choose [Admin Password]



2. Enter and confirm the new admin password.
3. Select [Done] and reconnect to QGenie using the new password.



**i NOTE**

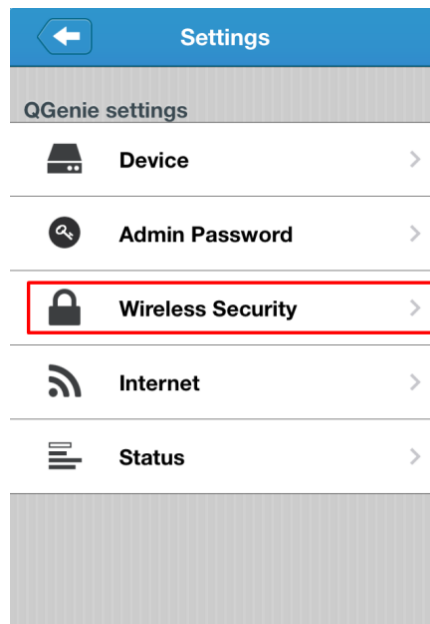
Please reset QGenie if you have forgotten your password.

### **Setup QGenie's Wireless security**

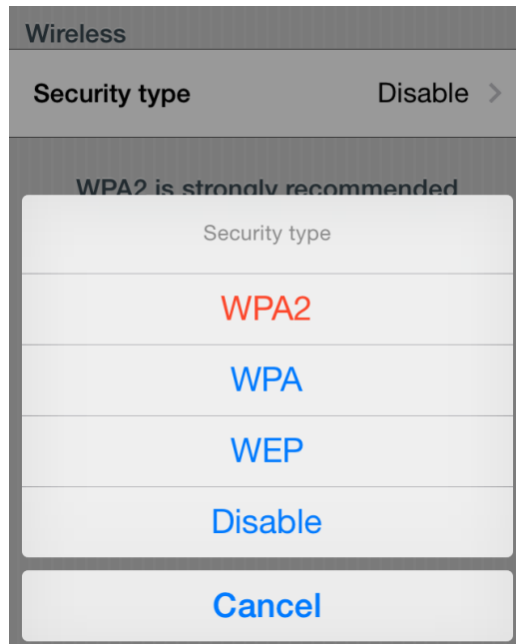
**IMPORTANT**

To prevent unauthorized access, please set up adequate wireless security.

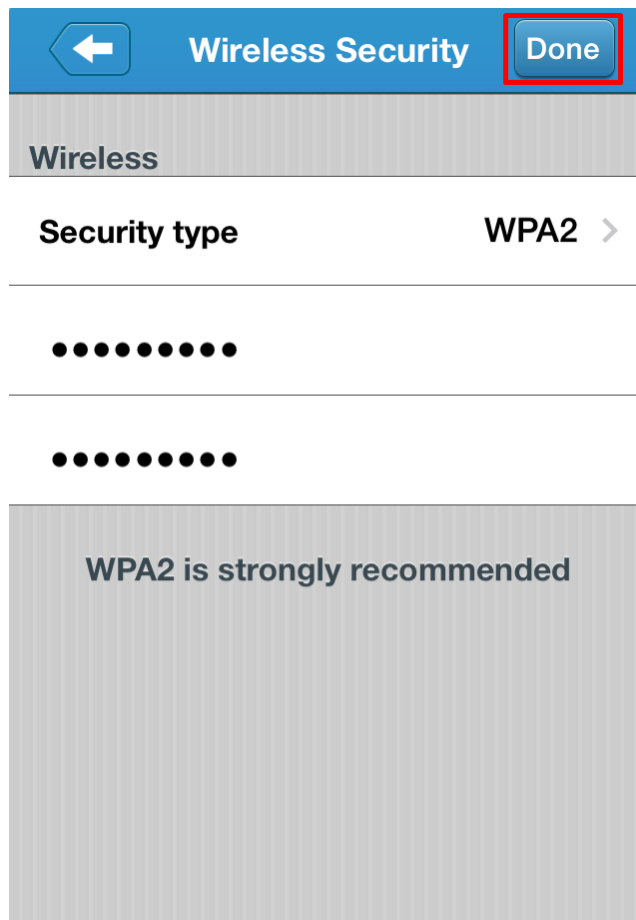
1. Choose [Wireless Security]




2. Select the security type (WEP/WPA/WPA2) to be used. It is recommended to use **WPA2** as it is more secure.



3. Enter and confirm the wireless password.
4. After the new password has been set, you will need to reconnect to QGenie's wireless LAN using the new password.



 **NOTE**

- If “Disable” is selected, the wireless LAN will have no password protection.
- After changing QGenie's wireless security settings, users must reconnect to QGenie using the new wireless password.
- If you forget the password, please reset QGenie.
- The valid password length for WPA/WPA2 is 8-63 characters long.
- The valid password length for WEP is either 5 or 13 characters long.

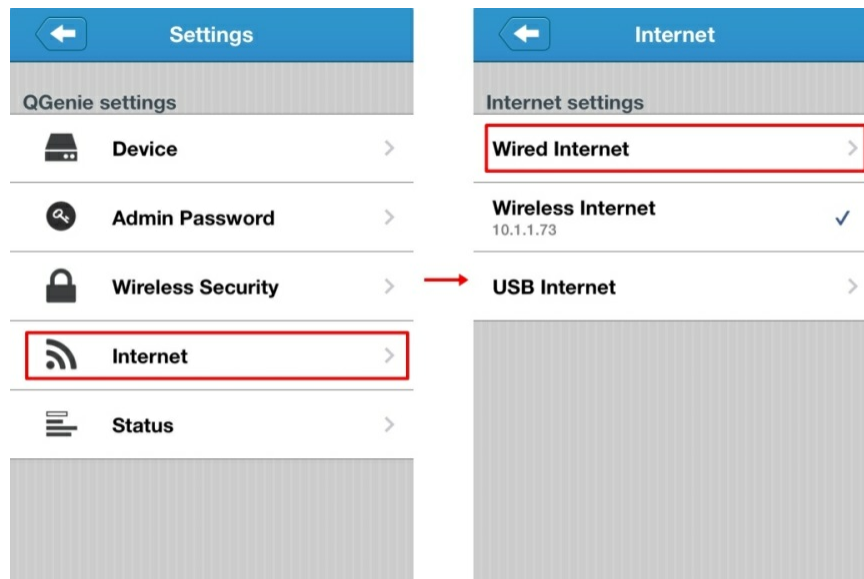
## Setup QGenie's Internet connection

QGenie supports 3 methods to connect to Internet:

1. Wired Internet  
Connect an Ethernet cable to QGenie.
2. Wireless Internet  
QGenie connects to an existing Wi-Fi connection..
3. USB Internet  
QGenie connects using (1) internet tethering (iPhone/Android), or (2) a 3G/4G USB dongle.

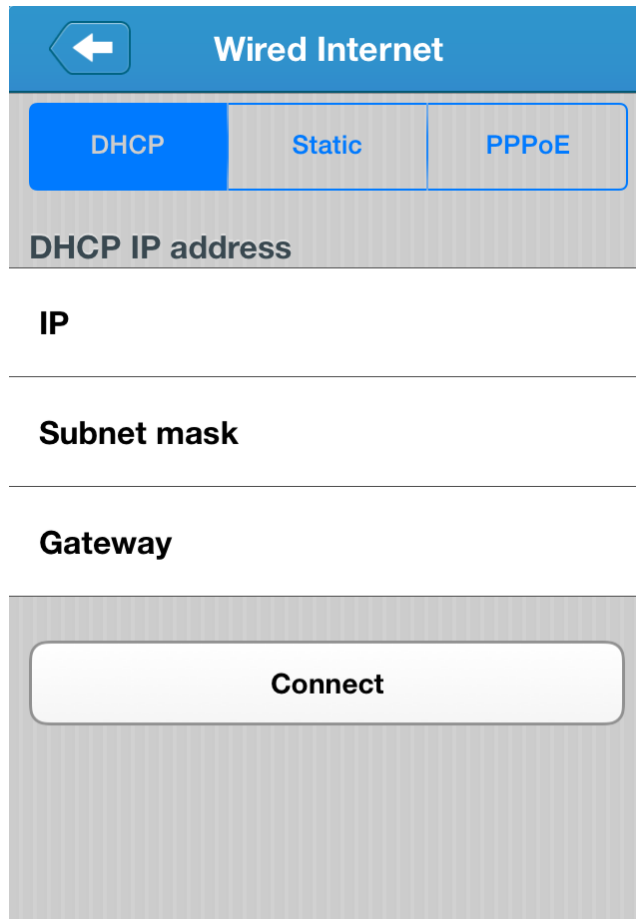
### Setup Wired Internet

1. Choose [Internet] ' [Wired Internet]



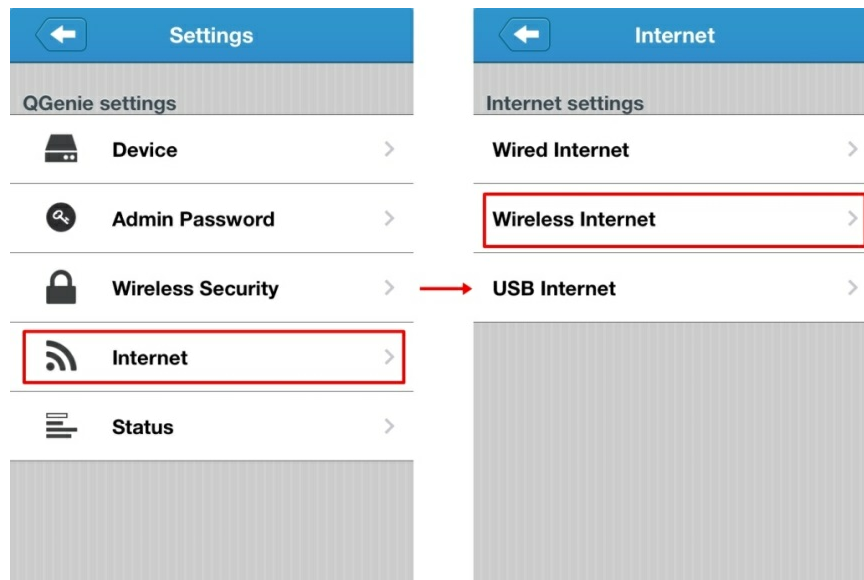
2. Select the proper type of wired connection.
  - DHCP: The most common method, choose this if you connect QGenie to a router.
  - Static IP: Similar with DHCP, but you are required to manually input proper IP settings.
  - PPPoE: If you connect QGenie to an ADSL/VDSL modem and need a username and password.

*\*If you don't know what type of connection to use, please contact your network administrator or internet service provider.*
3. Press [Connect] to apply the settings.

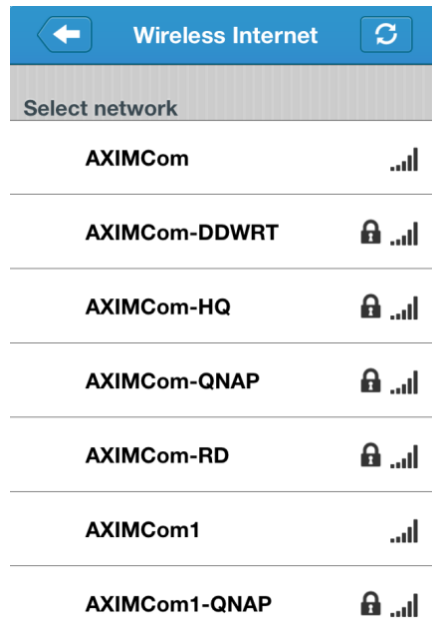


### Setup Wireless Internet

1. Choose [Internet] ' [Wireless Internet]

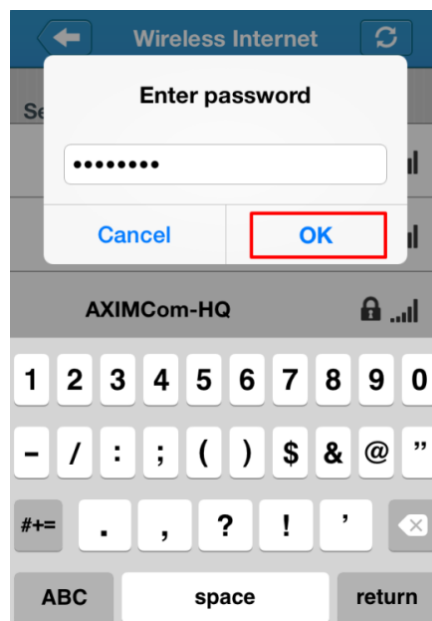


2. QGenie will scan nearby wireless networks and display them in a list.



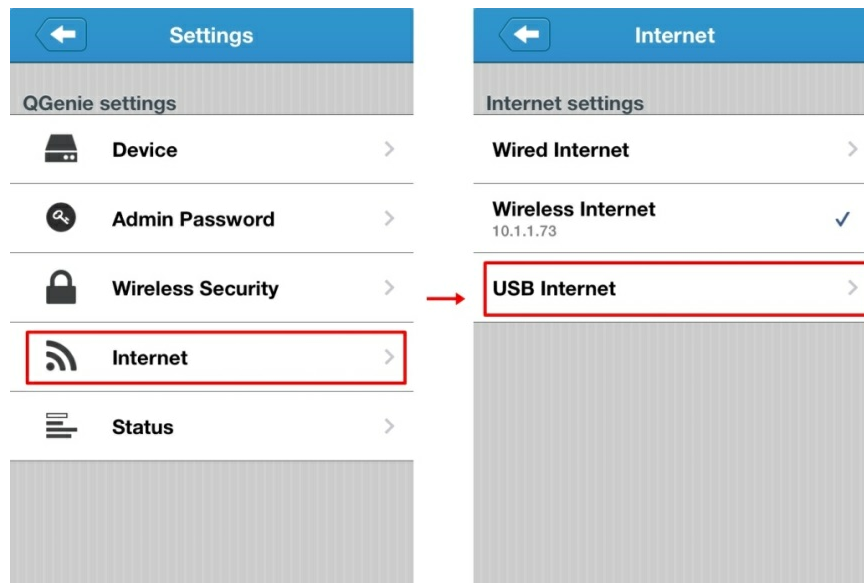
3. Select the wireless network you want to use and enter the password if necessary. Settings will be applied to QGenie once you select [OK].

Please note: QGenie cannot connect to wireless networks that use "WPA-Enterprise" or "WPA2-Enterprise" password protection.

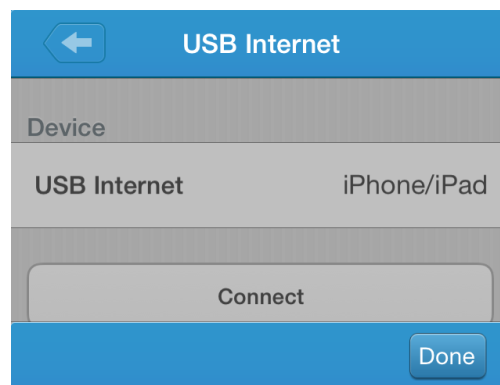


### **Setup USB Internet**

1. Turn on QGenie and connect it to a USB Internet device (3G/4G dongle, smartphone, etc).
2. Choose [Internet] ' [USB Internet]



3. Select the type of USB device, and select connect.



iPhone/iPad



Android

3G/4G USB

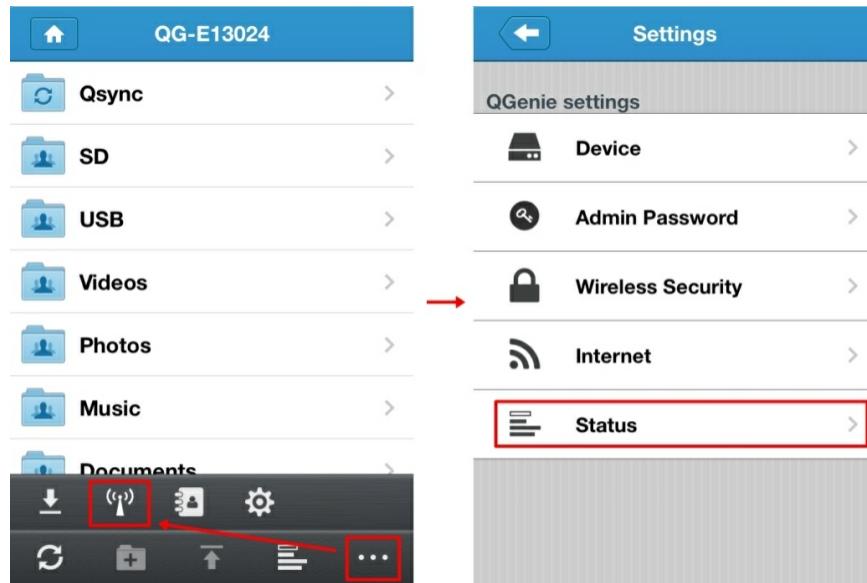
You will need to reconnect your device to QGenie once these settings are changed.

### ***Upgrade the Firmware***

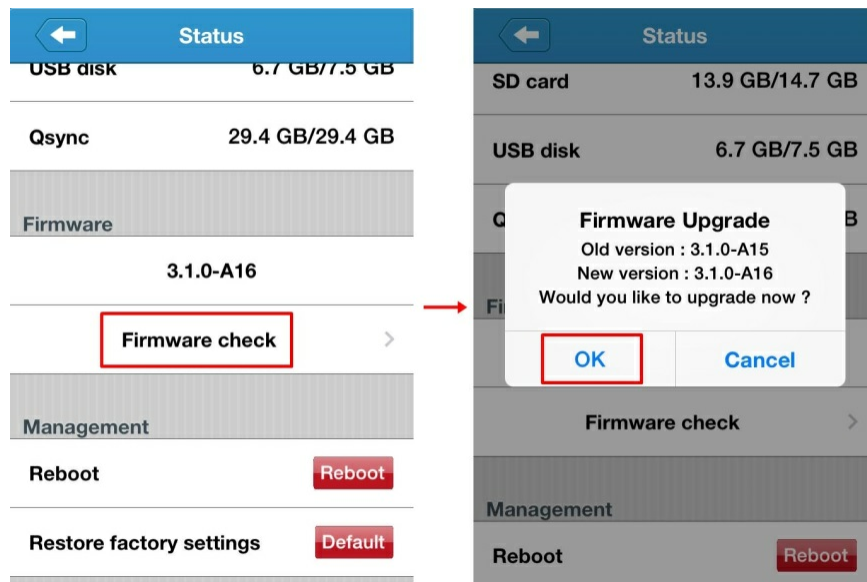
It is strongly recommended to keep QGenie's firmware up-to-date as new updates may contain security fixes.

1. Turn on QGenie. Connect the mobile device to QGenie's wireless LAN.
2. Open Qfile and connect to QGenie
3. Select [  ] [  ] [Status]

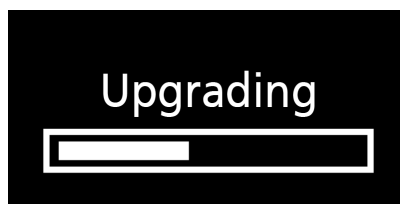




4. Select [Firmware check] and [OK]. The QGenie will begin updating the firmware. If QGenie's firmware is up to date, Qfile will show "The current firmware is latest."




5. The QGenie OLED screen will display "Upgrading" and indicate its progress.

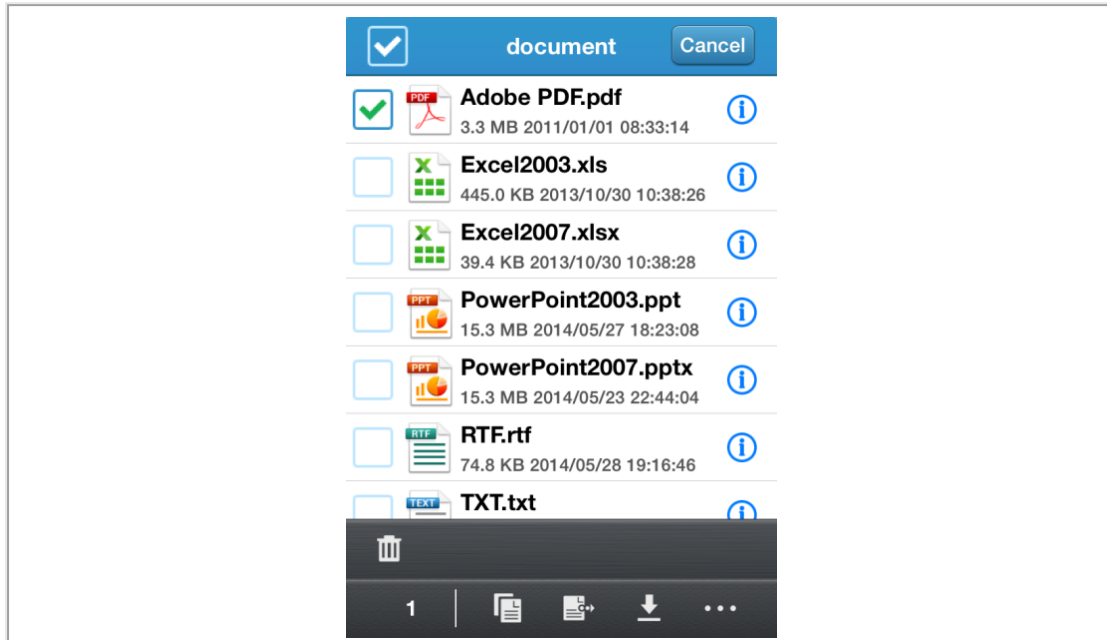






6. QGenie will restart once the procedure is finish.

### 1.5.4 Access and manage files (Basic)



#### Home page

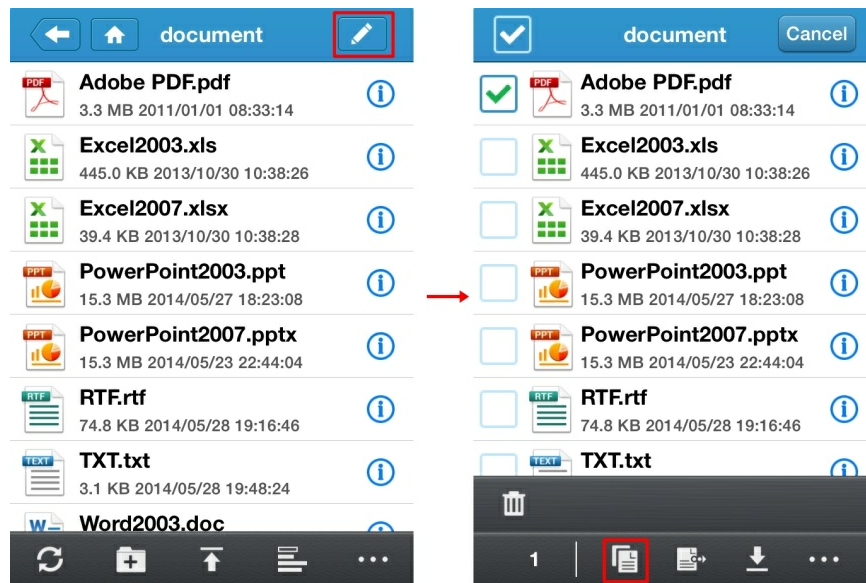
The edit menu will appear when you tap the  icon.



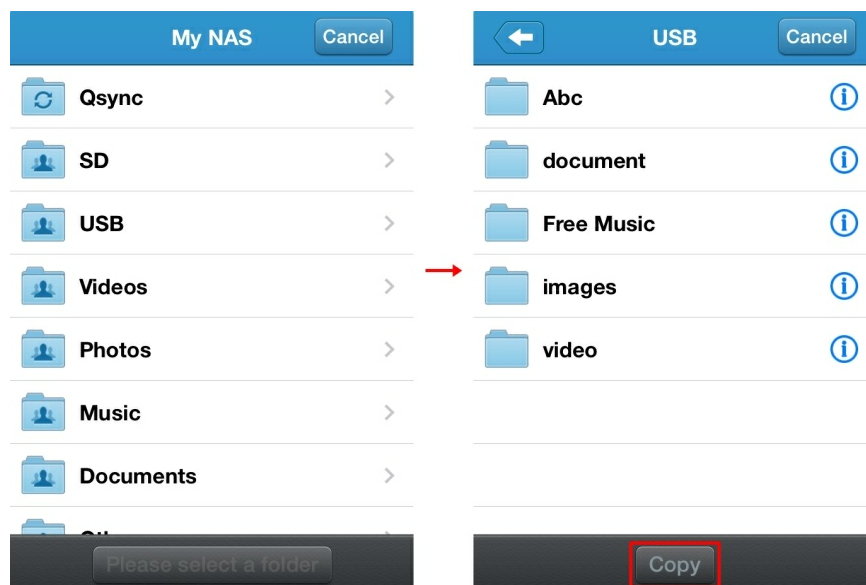
Icon	Description
	Copy the selected file(s) or folder(s).
	Move the selected file(s) or folder(s).
	Download the selected file(s). Please note: Subfolders will not be downloaded.
	Delete the selected file(s) or folder(s) (you can also swipe a file to delete it).
1	Show the file(s) has selected currently

#### Copying file/folder



1. Click , select the items you want to be copied and then tap .

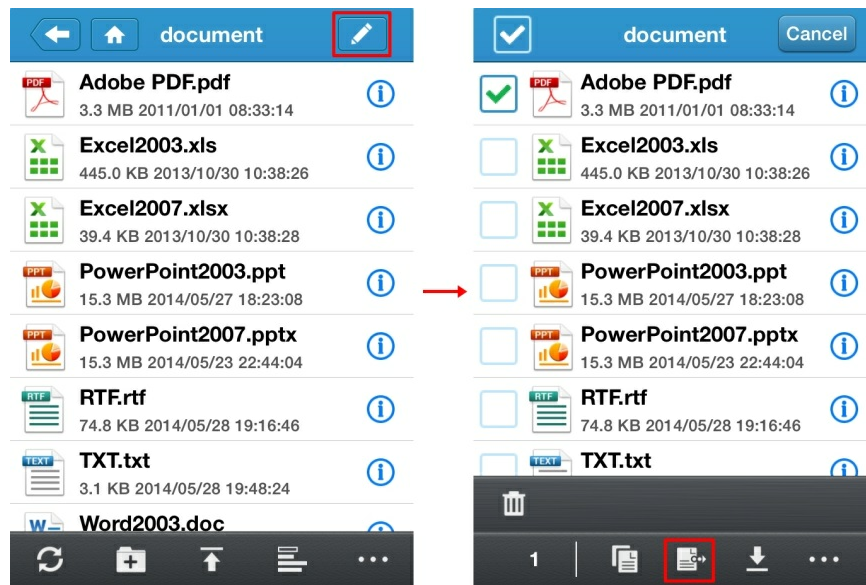


2. Select the destination folder then tap [Copy]

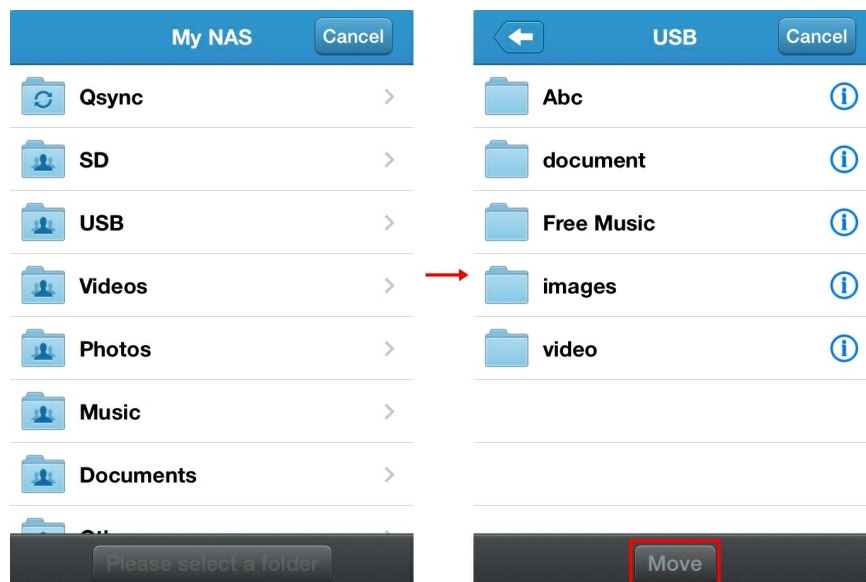


### Move files/folders



1. Click [  ] select the items you want to move and then tap [  ].

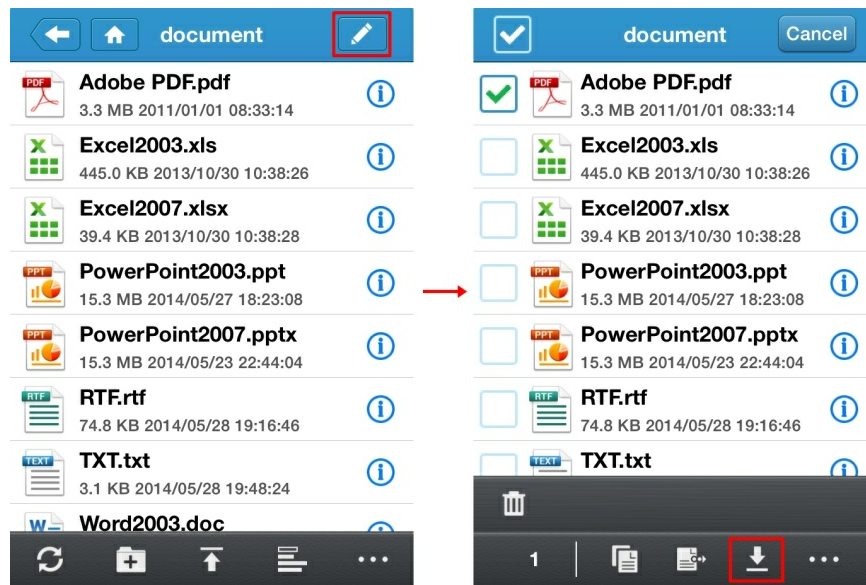


2. Select the destination folder then tap [Move]

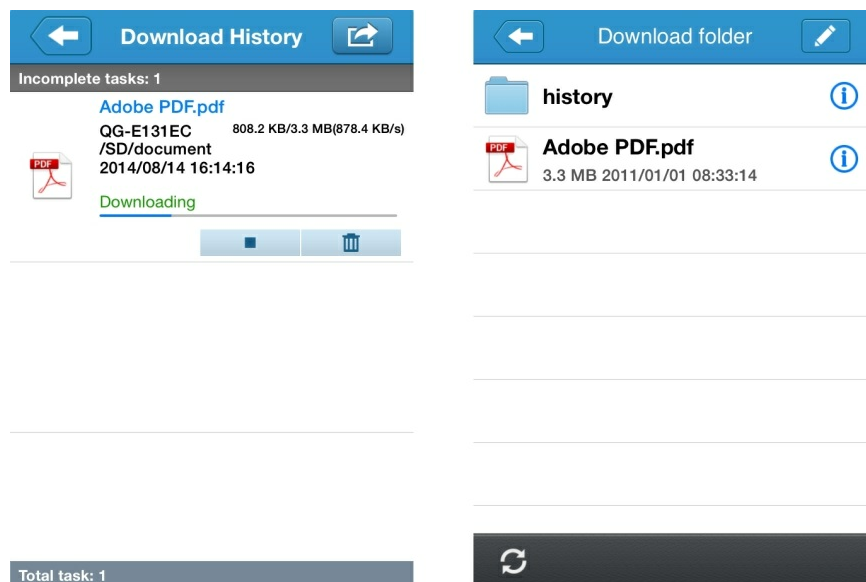


### ***Download files/folders to local folder***



1. Click the [  ], select the files you want to download and then tap [  ].

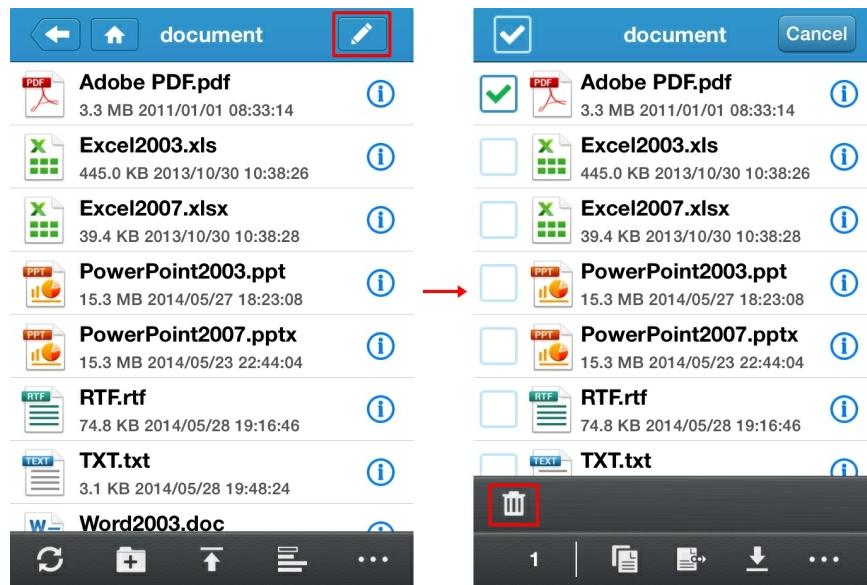


2. After downloading is completed, the files will appear in the [Download folder].

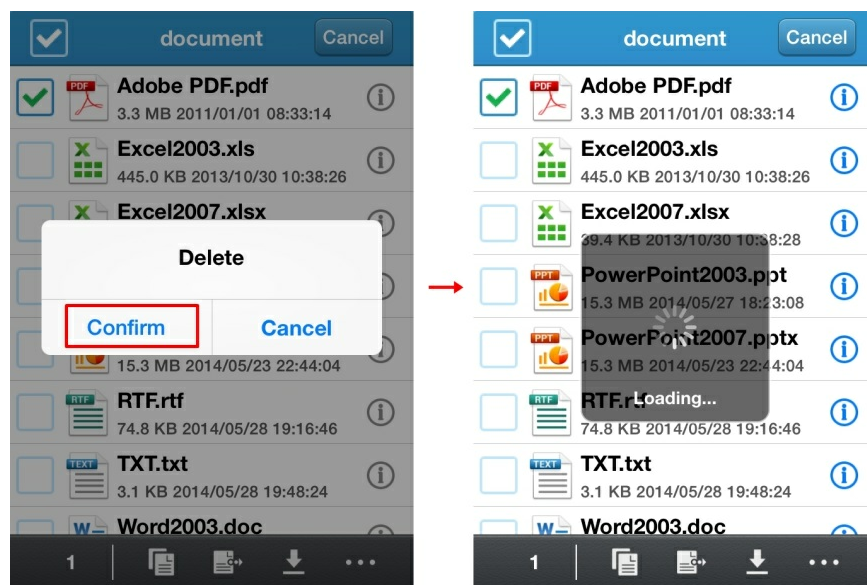


### Delete files/folders

1. Click [  ], select the items you want to delete and then tap [  ].




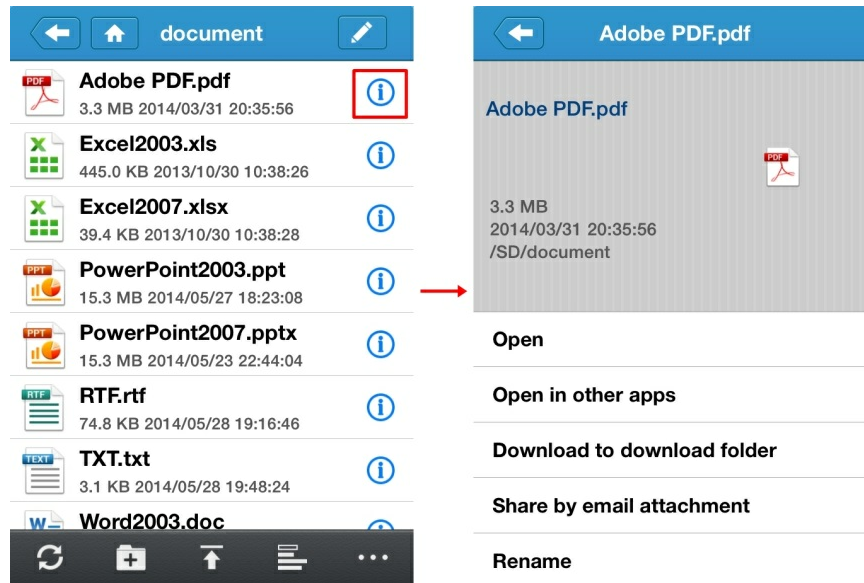
2. Deleted files/folders cannot be recovered, so to prevent accidental deletion you will need to confirm this action.



### 1.5.5 Access and manage files (Advance)

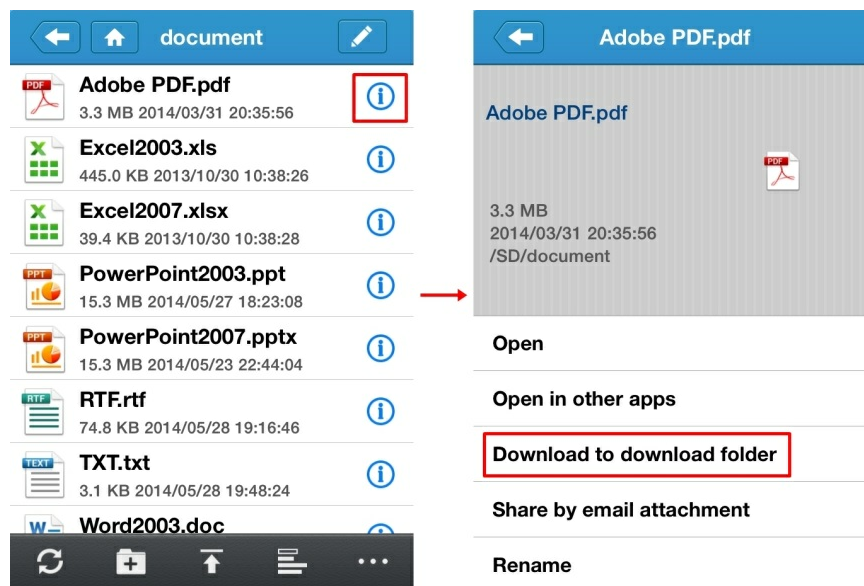
#### Checking the file information

Tap [  ] next to a file/folder and its information will be displayed.

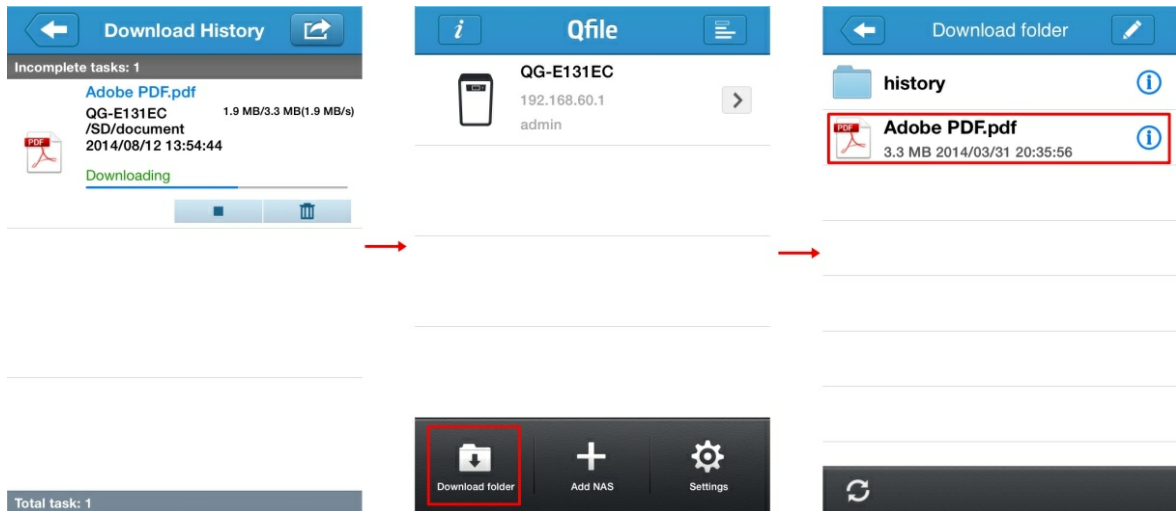


### **Download files/folders to local folder**


1. Tap [  ] next to the file you want to download and then select [Download to download folder].

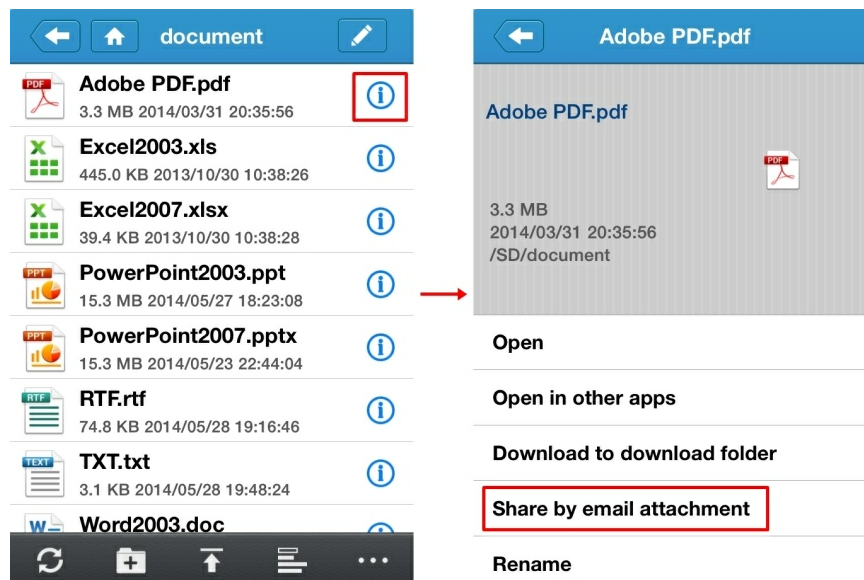


2. Downloaded files will appear in the [Download folder].



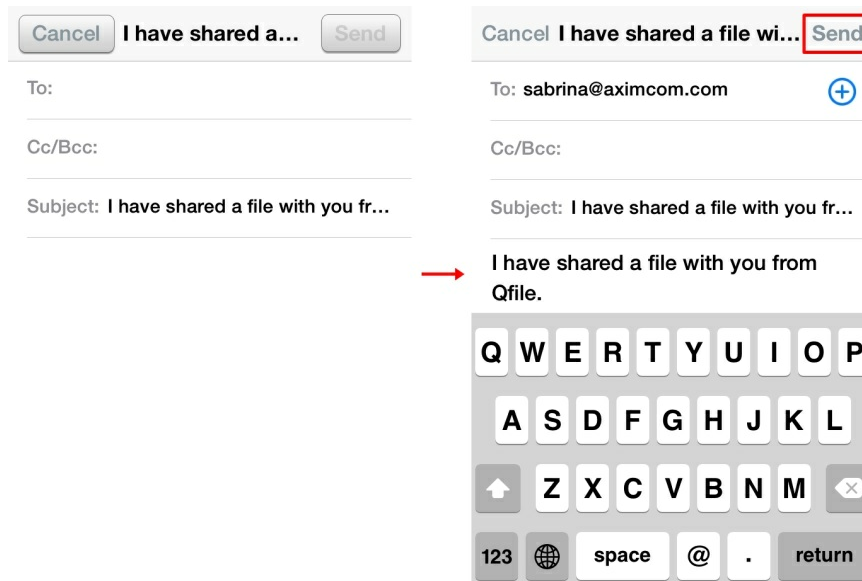
## Share a file via email attachment

1. Tap [  ] next to the file you want to email, then select [Share by email attachment].



2. Enter the contact details of the recipients, modify the subject and body text if necessary and select [Send].

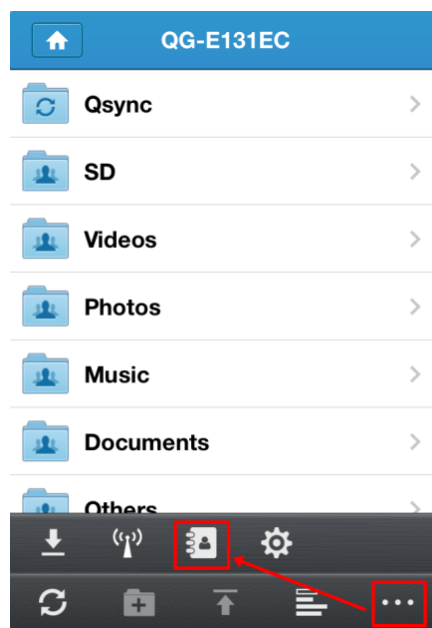




Please note: Files must be smaller than 20MB in size.

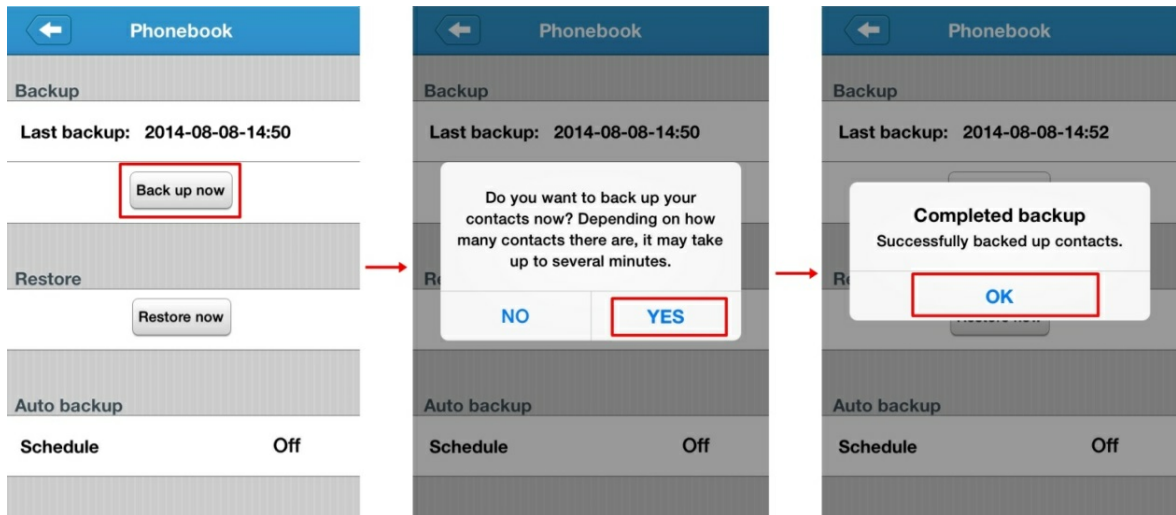
### 1.5.6 Backup & restore phonebooks to/from QGenie

1. Turn on QGenie and connect your mobile device to QGenie's wireless LAN.
2. Open Qfile and connect to QGenie
3. Select [⋮] [👤]



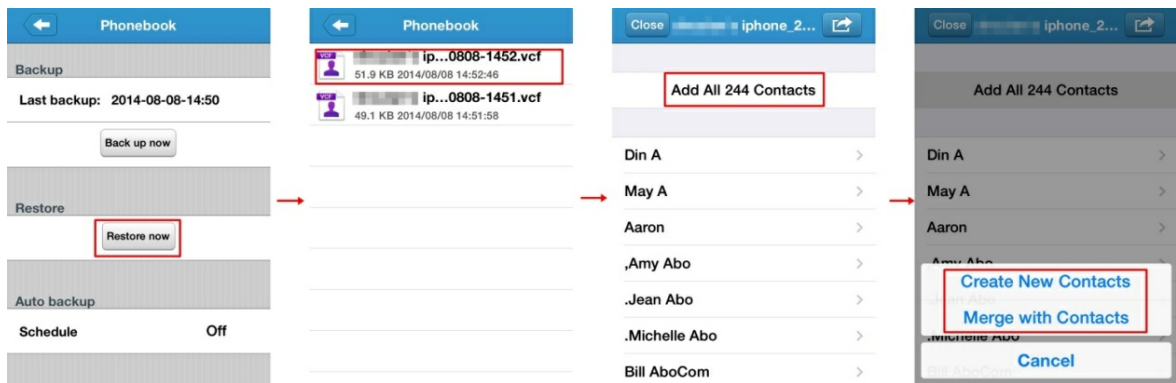
#### Phonebook backup

Select [Back up now] and all of the contacts on phone/tablet will be saved to QGenie.



### Phonebook restore

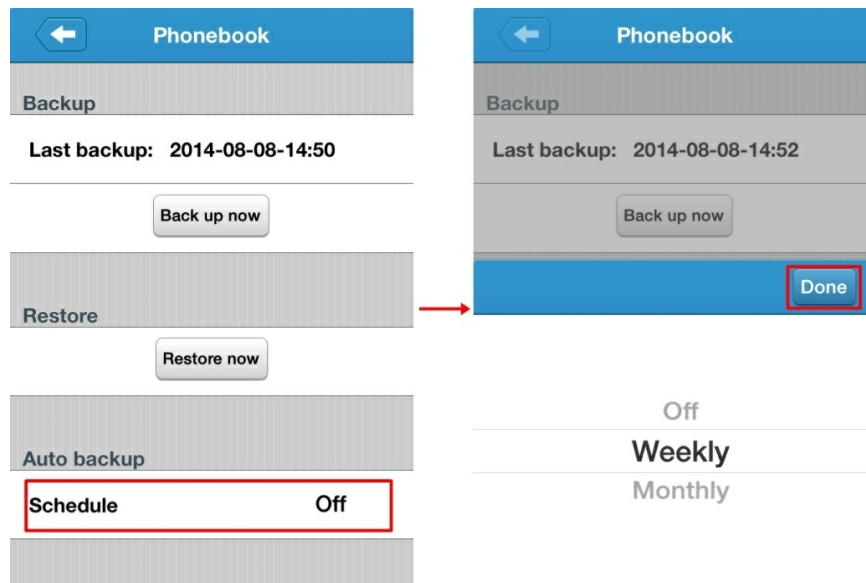
Select [Restore now] and select the phonebook backup file that want to restore then choose [Create New Contacts] or [Merge with Contacts].



**i NOTE**  
Qfile will not import duplicate contacts.

### Phonebook auto backup

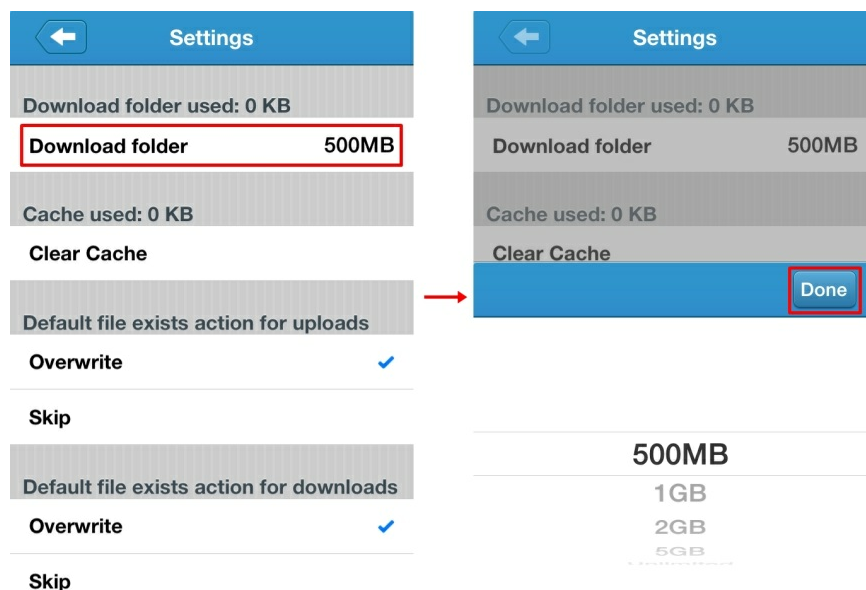
You can set QGenie to automatically backup contacts [Weekly] or [Monthly]. The backup files will be stored in \Qsync\Phonebook\



### 1.5.7 Setup Qfile

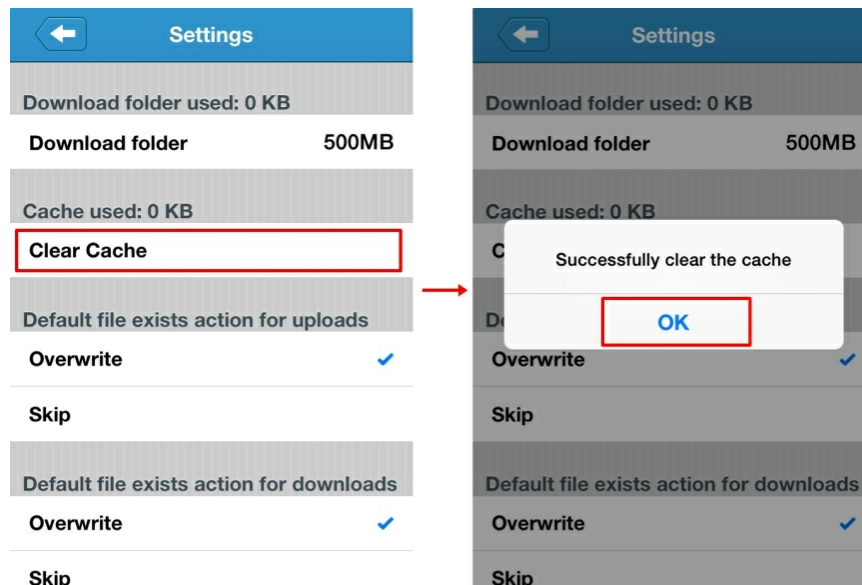
#### Local Storage

Specify the storage space that can be used by Qfile on phone/tablet. This includes the total size of the Local Folder and cache.



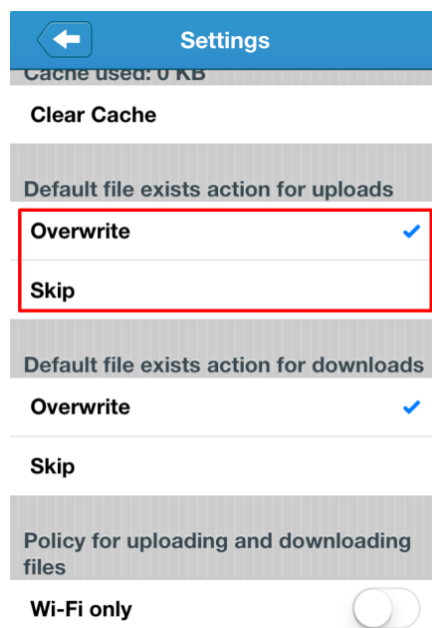
#### Clear Cache

Previewed files are cached in the Local Folder. Tap [Clear Cache] to clear the temporary data from the Local Folder.

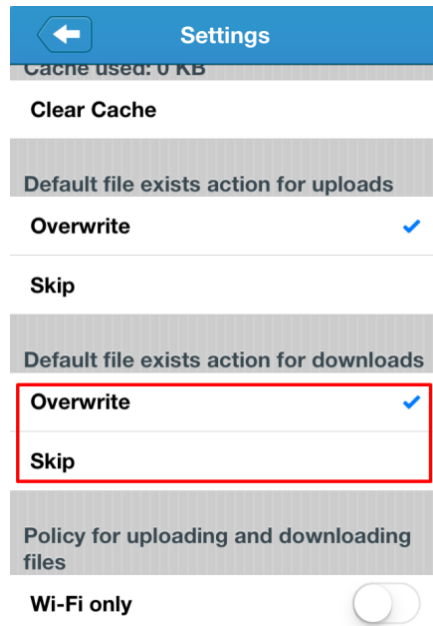


### ***Default action for file conflicts when uploading/downloading***

You can select whether to [Overwrite] a file or to [Skip] it if a file already exists in the destination.

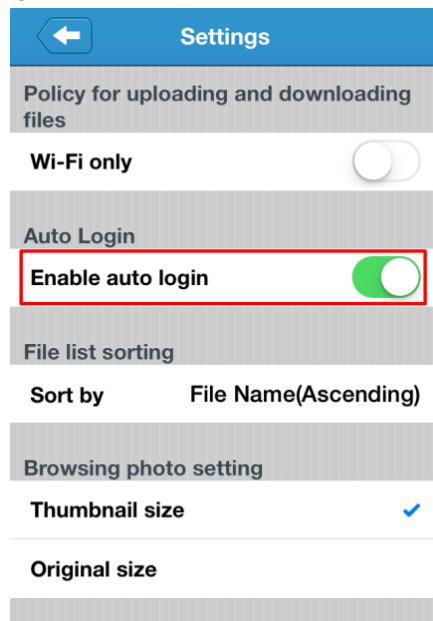


Default file exists action for downloads:  
Select to [Overwrite] a file or [Skip] downloading if a file already exists on phone/tablet.



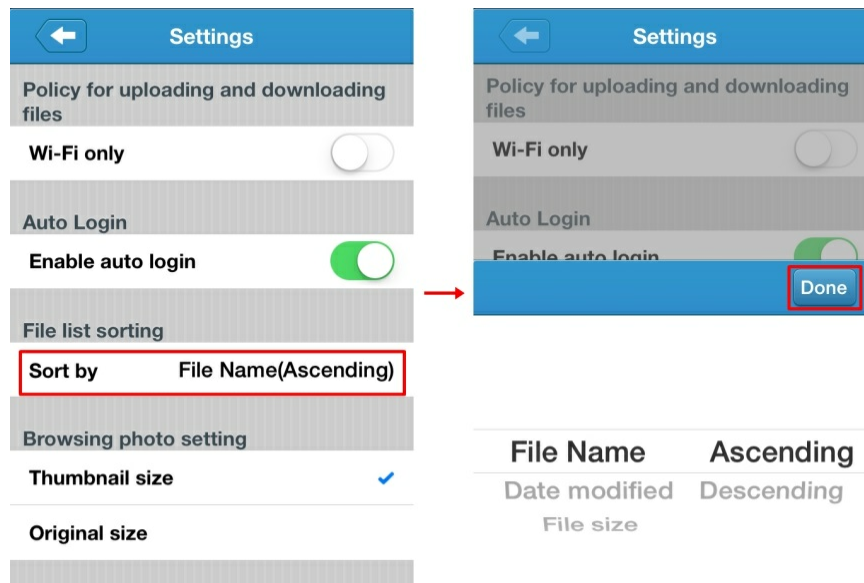
### **Auto Login**

Enable automatic login to QGenie.



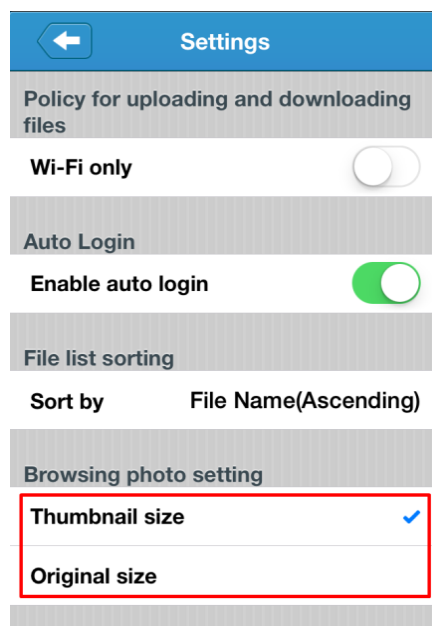
### **File list sorting**

Select to sort files by [File Name], [Data modified], [File size].



### ***Browsing photo setting***

Select whether to browse photos using [Thumbnail size] or [Original size].

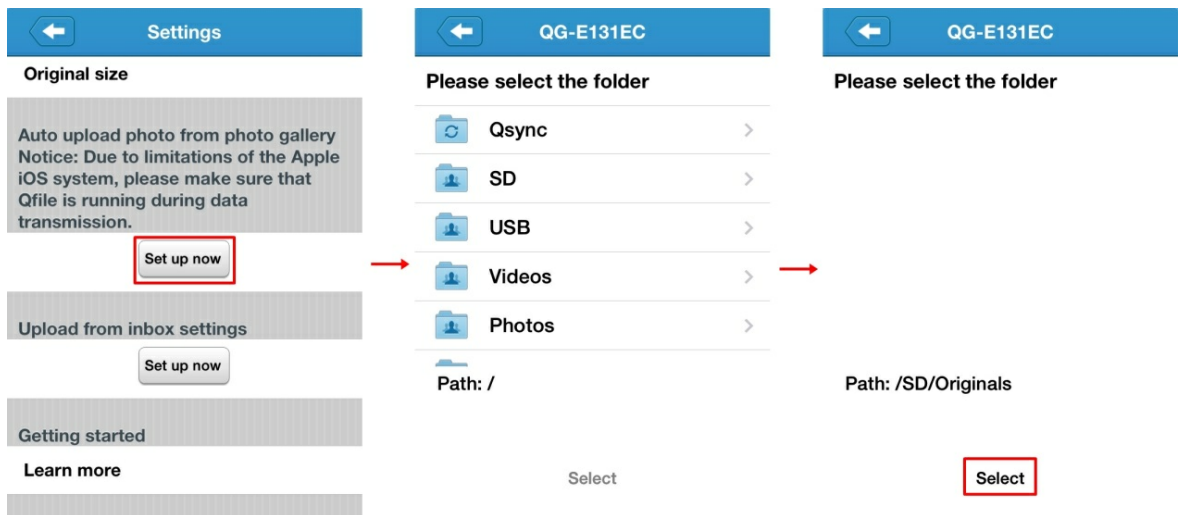


### ***Automatically upload photos***

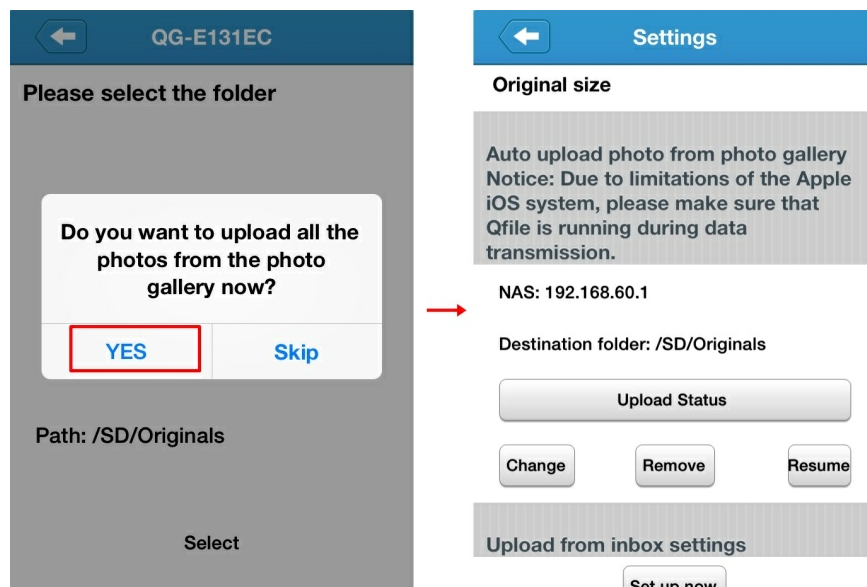
Upload the photo library from your mobile device to QGenie.

#### ***Set up auto upload photo***

1. Select [Set up now], select the photo upload destination and then tap [Select]

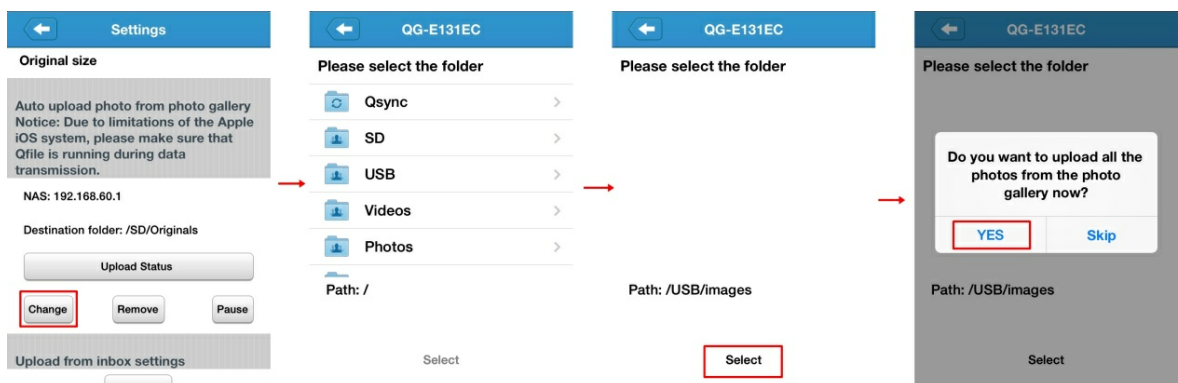


2. Tap [Yes] to upload all of the photos on your mobile device. Choose [Skip] to upload all future photos.

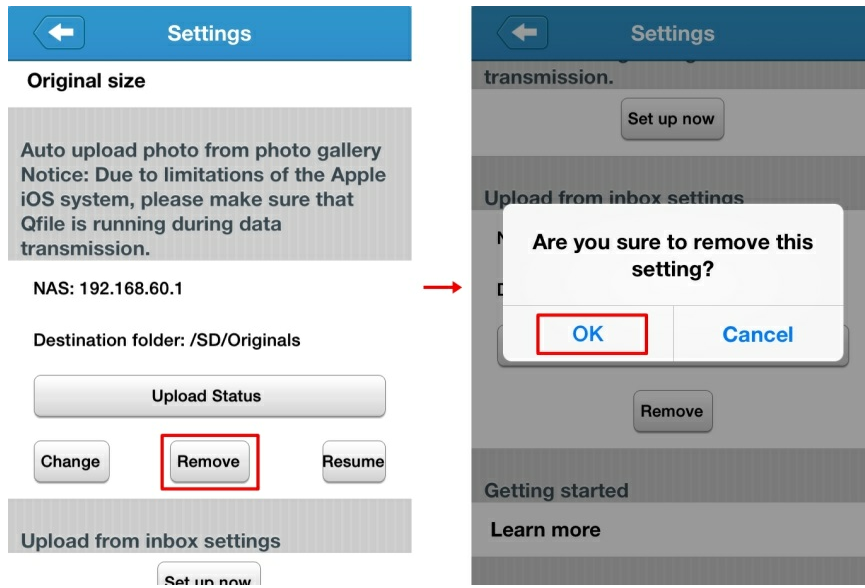


### **Change/Remove auto upload photo**

To change the destination, select [Change], choose the new destination folder, tap [Select] and tap [Yes] to confirm the change.



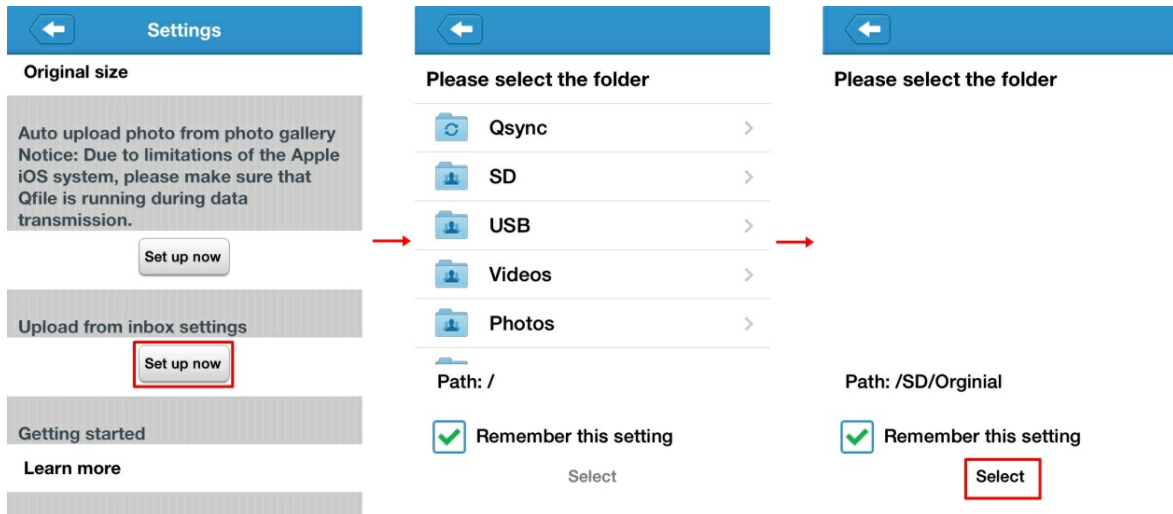
To remove this setting, select [Remove] and tap [OK] to remove the auto upload photo setting..



### Upload from inbox settings

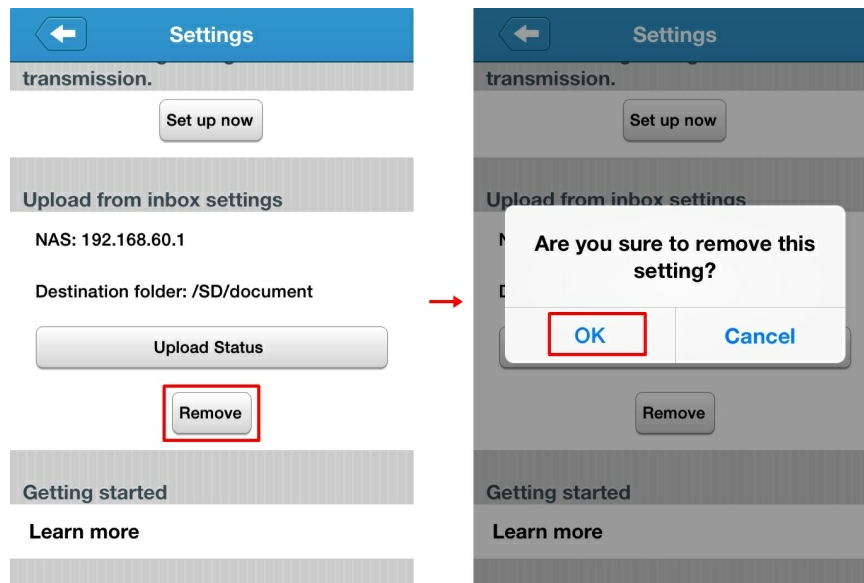
Upload the mail inbox from your mobile device to QGenie.

To setup the upload folder, select [Set up now], select the upload destination and then tap [Select]



To remove the upload folder, tap [Remove] and select [OK].





## 1.6 Setup/use QGenie with Qfinder

QGenie supports Qfinder for users to access files and to check QGenie's status.

### [Login from Web Interface](#)

Locate QGenie and access the login page using a web browser.

### [Use My Network Places \(Samba\) to access QGenie content](#)

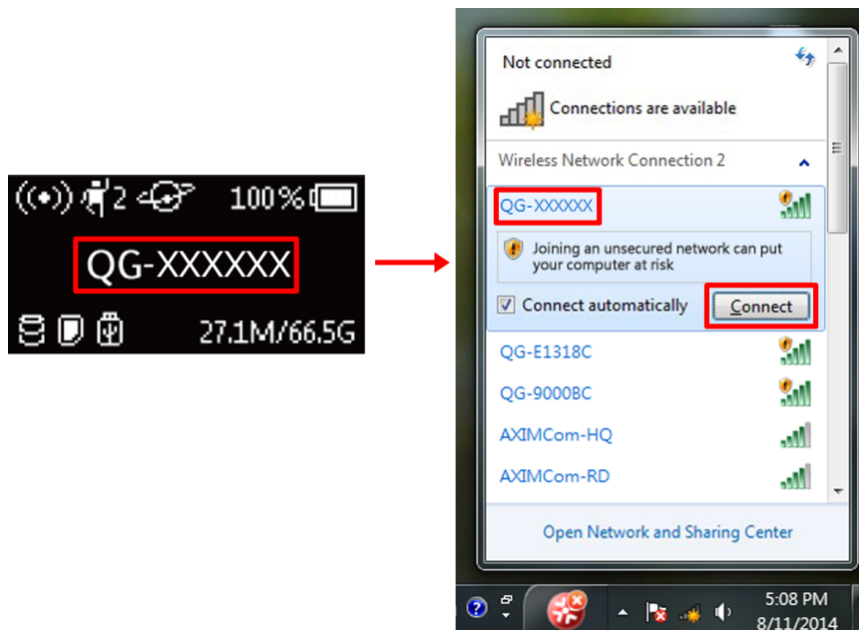
Locate QGenie using My Network Places.

### [Checking QGenie's Network Details](#)

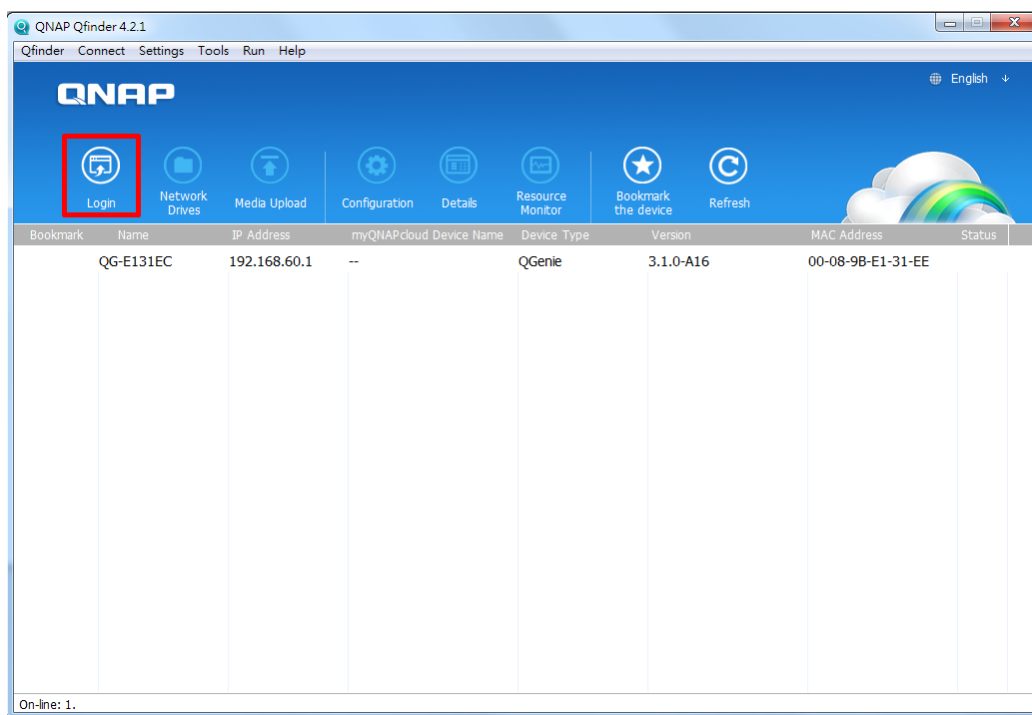
Use Qfinder to check QGenie's properties.

#### 1.6.1 Login from Web Interface

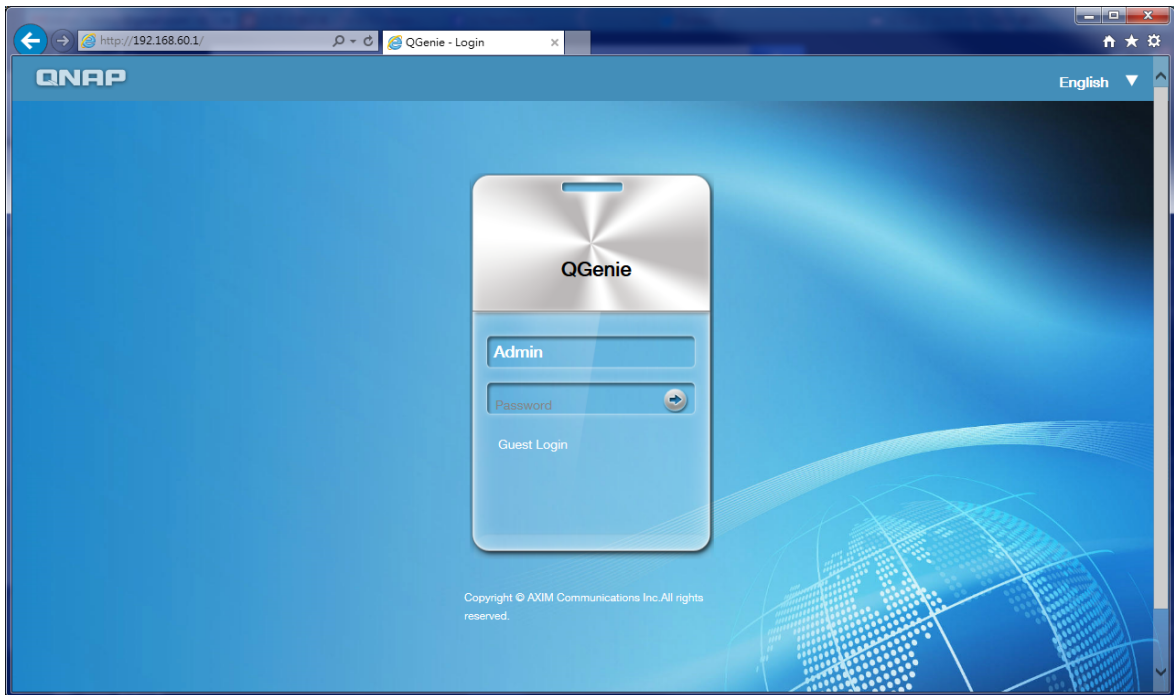
1. Connect the PC to QGenie's wireless LAN. If you are unsure how to do this, refer to previous sections of this document.



2. Go to Qfinder and choose [Login].



3. It will open your web browser to <http://192.168.60.1/>. You will see a welcome page as seen below.



4. Users can log in with the Admin account or a Guest account. The differences are listed below:

	Admin Account	Guest Account
Password Required	Yes	No
Account permission	Change QGenie setting	Only view the current status of QGenie
Folder access	Qsync/SD card/USB	SD card/USB

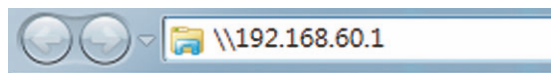
Please note: The Guest Account is disabled by default. You can enable the Guest Account in the Setting page.

### **1.6.2 Use My Network Places (Samba) to access QGenie content**

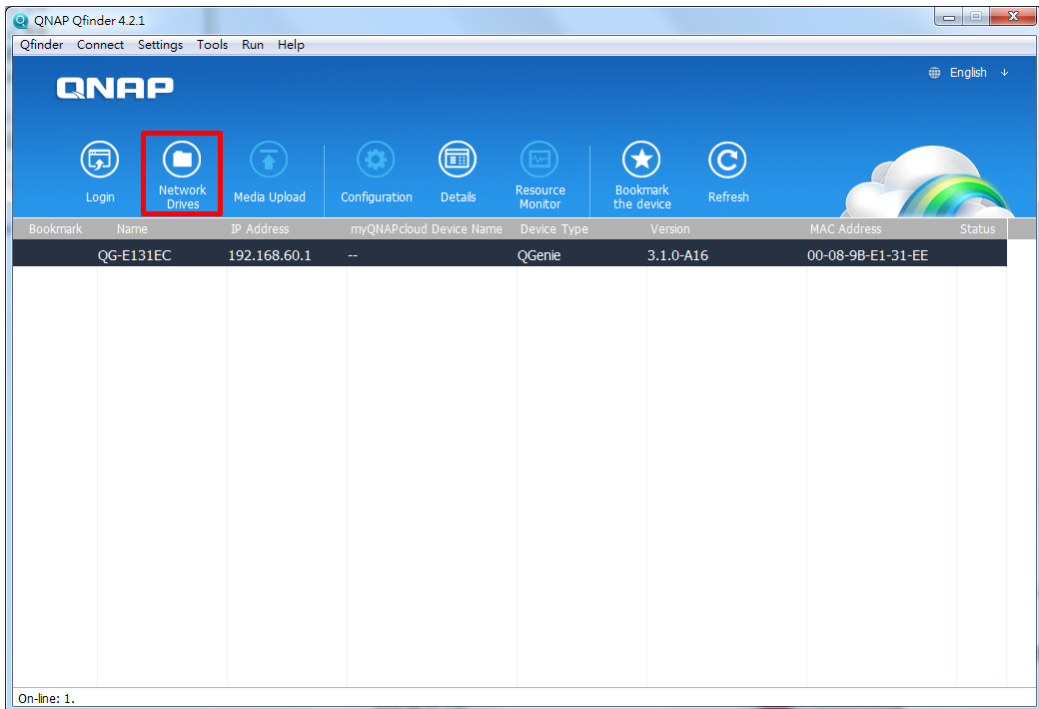
#### **Use a Windows PC to access QGenie**

1. Connect QGenie to the PC via wireless LAN.
2. For Windows operating systems, there are two methods to access QGenie contents

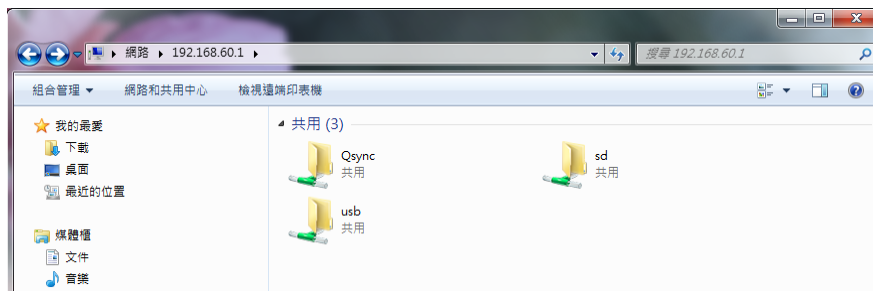
**Method 1:** Open Windows Explorer and type “ \\192.168.60.1” in the address bar.



**Method 2:** Launch Qfinder and select [Network Drives].



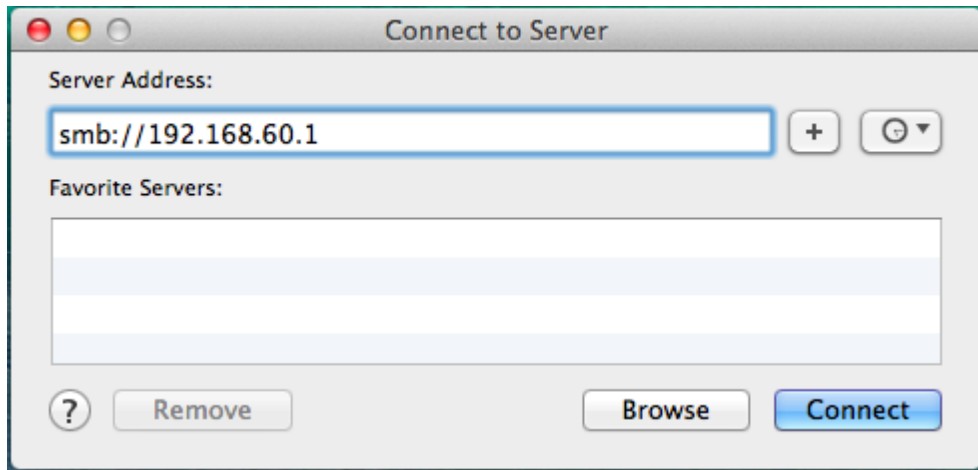
3. Choose Qsync, SD or USB and access the stored content.



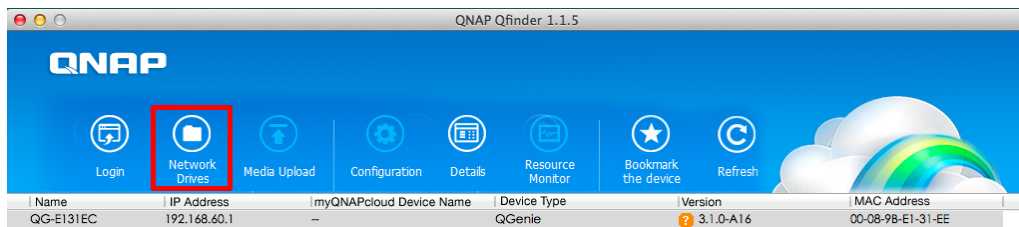
### ***Use a Mac to access QGenie's content***

1. Connect QGenie to the Mac via wireless LAN.
2. There are two methods to access QGenie's content using a Mac.

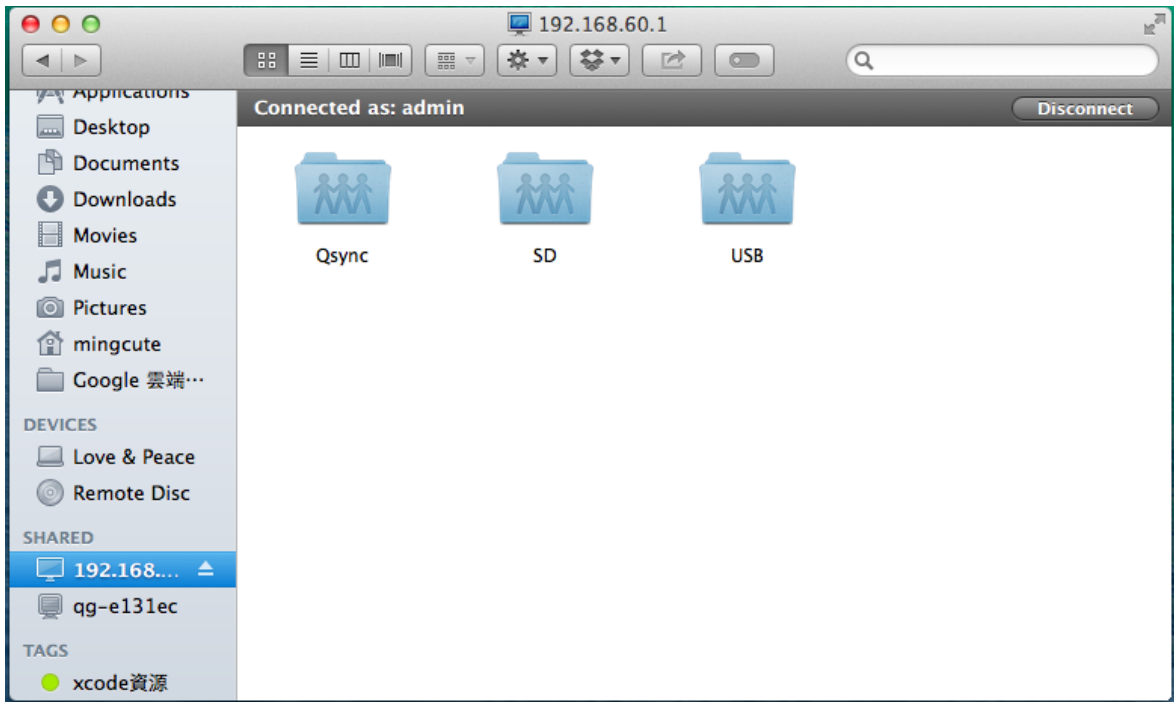
**Method 1:** [Go] ' [Connect to Server] and enter "smb://192.168.60.1".



**Method 2:** Launch Qfinder and tap [Network Drive].



3. Choose Qsync, SD or USB and access the stored content.

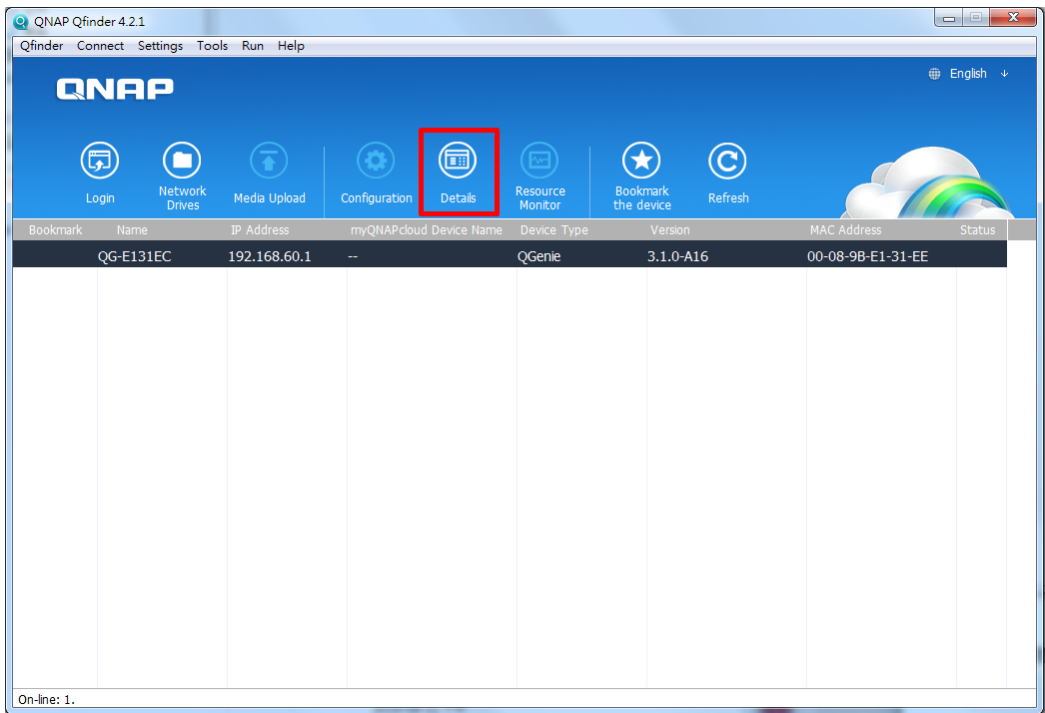


**i NOTE**

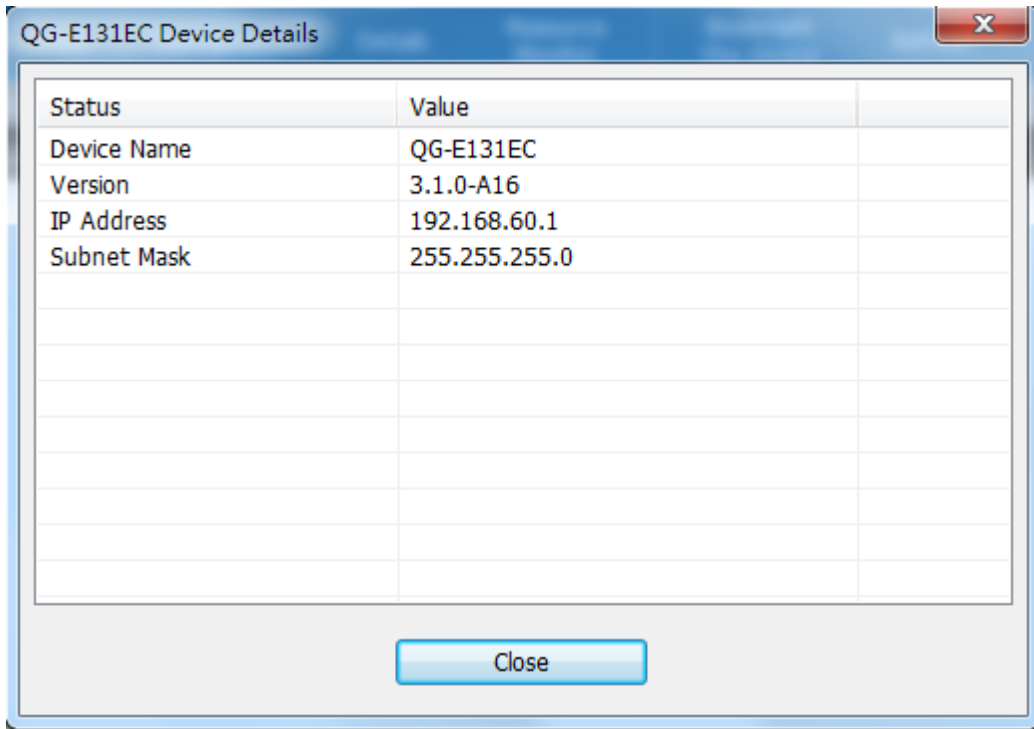
Unconnected devices will appear in the list, but they will be inaccessible.  
 Guests cannot access the "Qsync" folder.

### 1.6.3 Checking QGenie's Network Details

1. Connect QGenie to a PC via wireless LAN.
2. Launch Qfinder and tap [Details].



3. QGenie's network details will be displayed.



The screenshot shows a window titled "QG-E131EC Device Details" with a close button in the top right corner. The window contains a table with two columns: "Status" and "Value". The table lists the following information:

Status	Value
Device Name	QG-E131EC
Version	3.1.0-A16
IP Address	192.168.60.1
Subnet Mask	255.255.255.0

At the bottom center of the window is a "Close" button.

## 1.7 Setup/use QGenie with a Web Browser

QGenie provides a web interface for users to setup basic functions, allowing users to use a web browser to change its settings.

### [Setting Page](#)

Use browser to configure QGenie's security settings, name, or admin password.

### [Setup QGenie's Internet connection](#)

Use browser to establish wired, wireless, or USB Internet connection from QGenie.

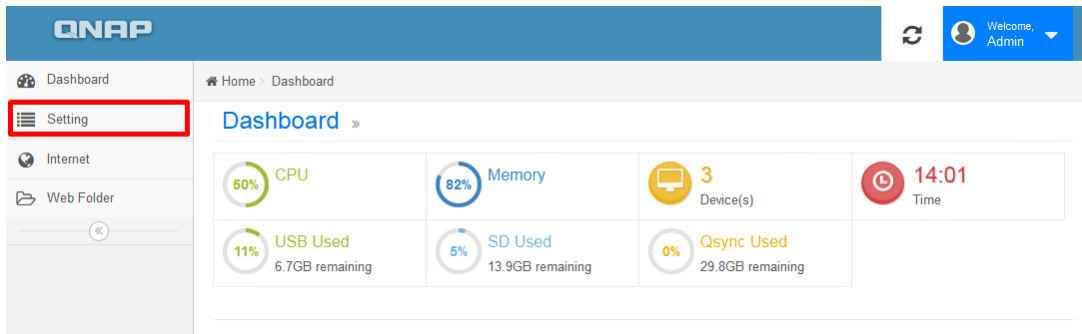
### [Access QGenie's contents](#)

Access files and folders stored on QGenie.

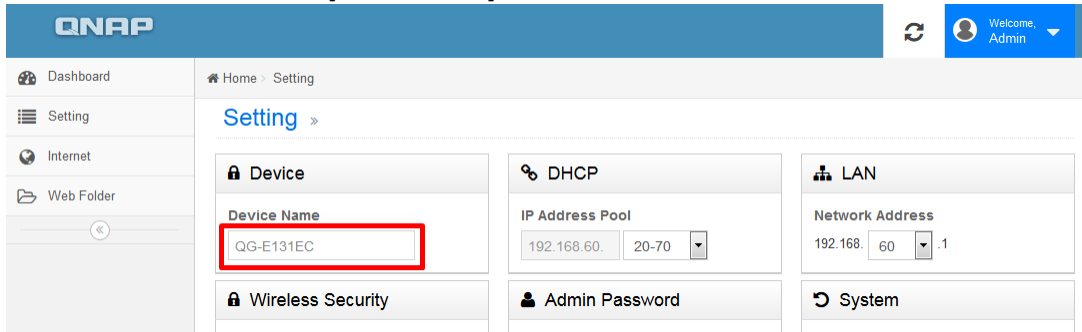
#### **1.7.1 Setting Page**

##### **Setup Device Name with Web Interface**


1. Login to the Web Interface using the Admin account.
2. Select [Setting] from the navigation panel.



3. Enter a new name on the [Device Name] field.

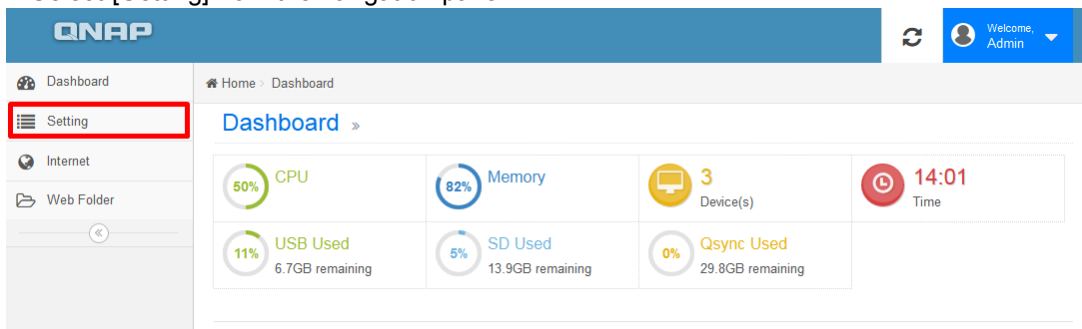


4. Select [Save] to apply new Device name and QGenie will restart with a new Device Name.

 <b>NOTE</b>
<p>After change device name, please reconnect to the QGenie's Wireless LAN by using the new Device Name.</p>

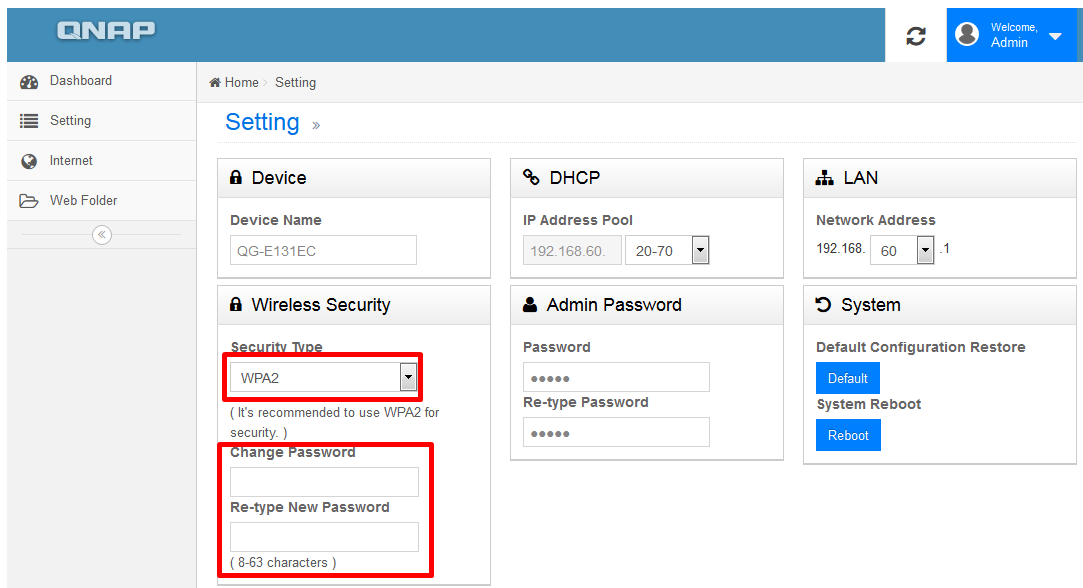
### Setup Wireless Security with Web Interface

1. Login to the Web Interface using the Admin account.
2. Select [Setting] from the navigation panel.



3. Select [Security Type] in Wireless Security. For the best level of security, it is recommended to use WPA2.





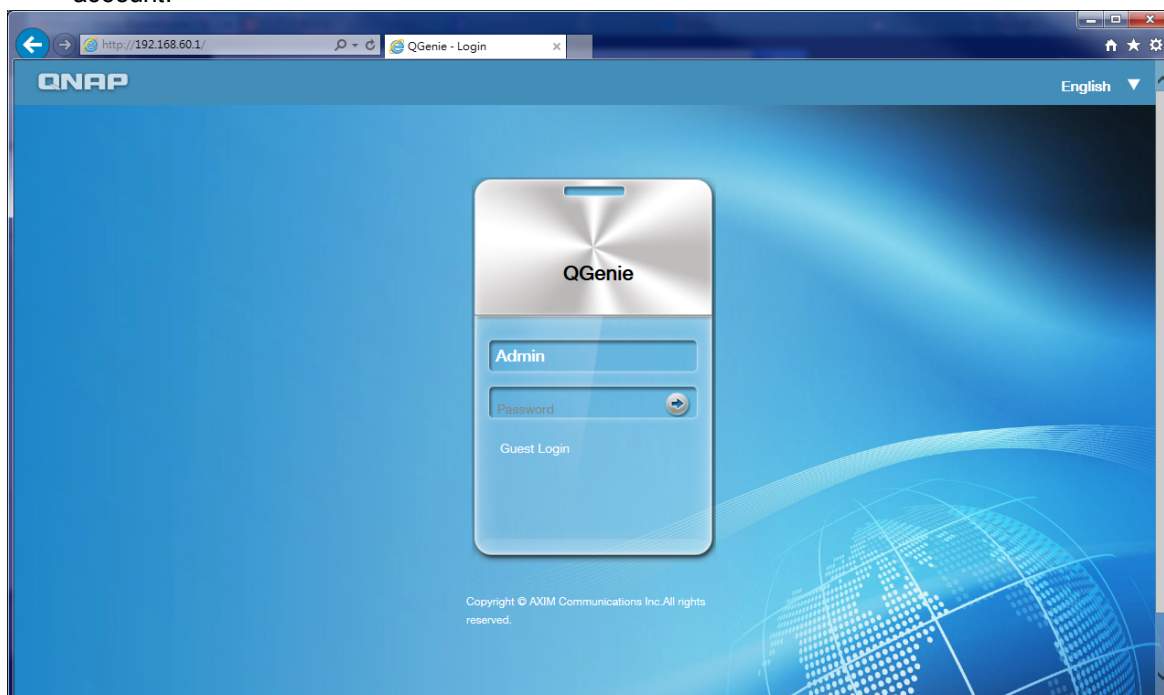
4. After entering the password twice, select [Save] to apply new security settings.

**NOTE**

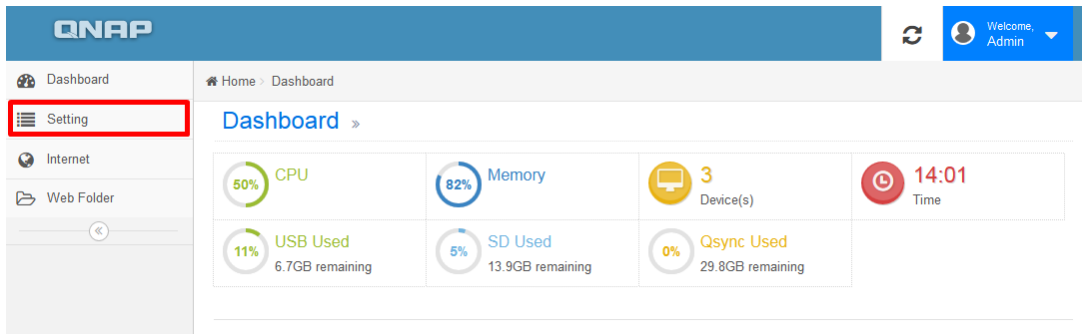
- After change Wireless security, please reconnect to the QGenie by using the new password.
- WPA/WPA2, the valid password length is between 8 ~ 63 characters long.
- WEP, the valid password length is between 5 or 13 characters long.

### ***Firmware upgrade with Web Interface***

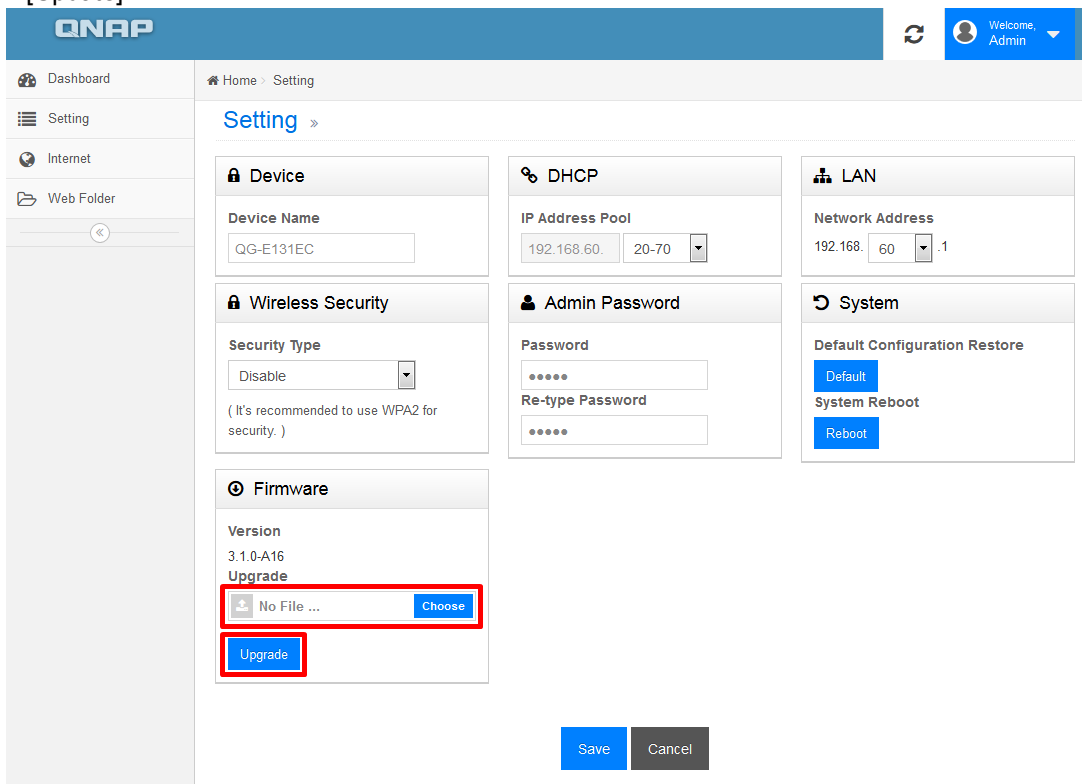
1. Turn on QGenie. Connect the PC to QGenie's Wireless LAN.
2. Open browser and go to <http://192.168.60.1/>. Login to the Web Interface using the Admin account.



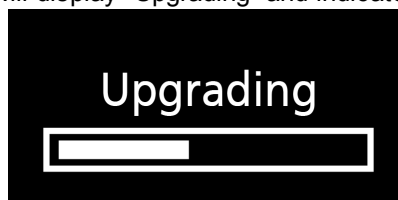
3. Select [Setting] from the navigation panel.



4. [Firmware] will show in the settings page. Choose the firmware to apply from PC, and select [Update].

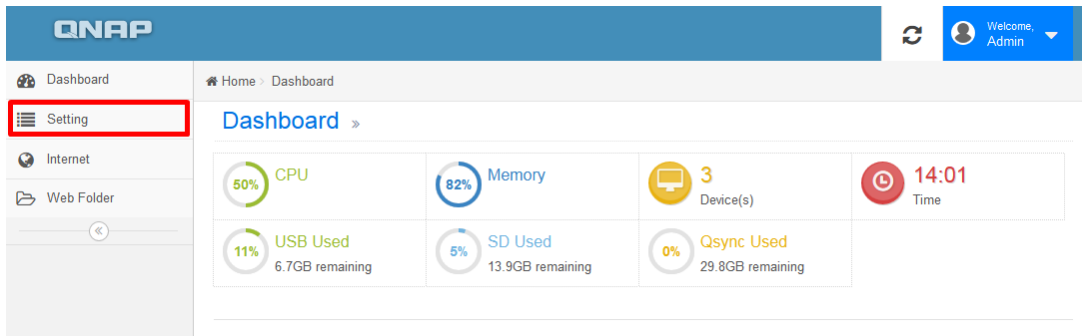


5. The QGenie OLED screen will display “Upgrading” and indicate its progress.

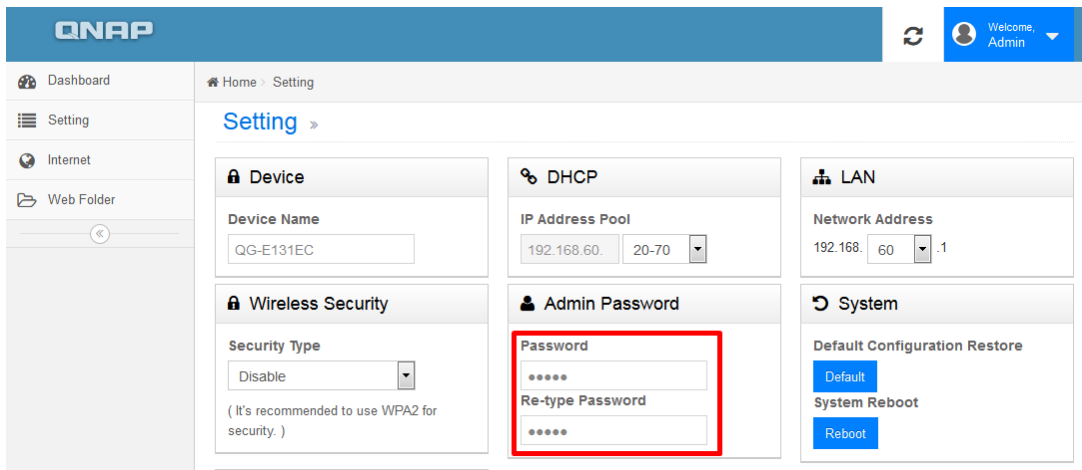


### Setup an Admin Password with Web Interface

1. Login to the Web Interface using the Admin account and select [Setting] from the navigation panel.



2. Go to [Admin Password] and after entering your new password twice, select [Save].

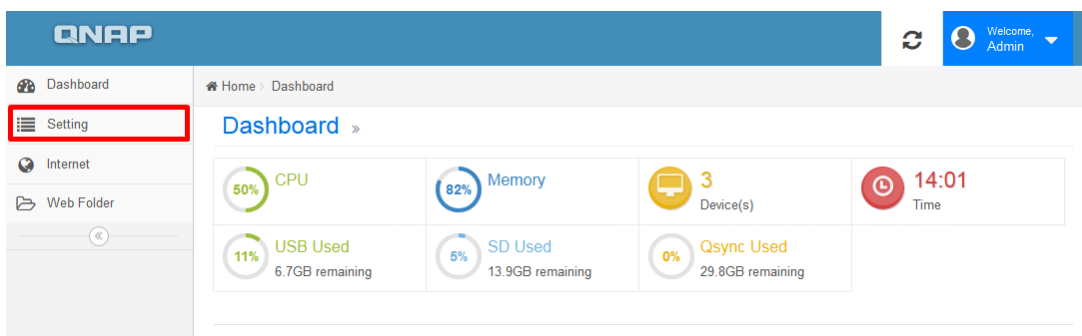


**NOTE**  
After changing the Admin Password, you will need to log in with new password.

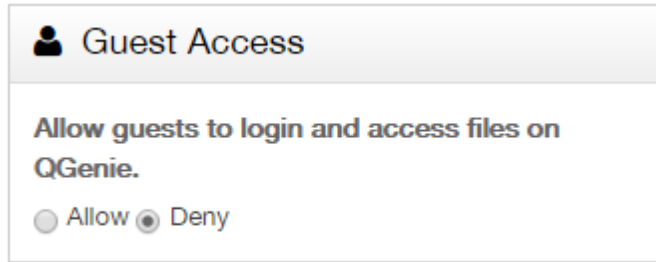
### ***Allow or Deny guest access***

(Available in firmware version 3.1.1 or later)

1. Login to the Web Interface using the Admin account and select [Setting] from the navigation panel.



2. [Guest Access] will show in the Setting page. The default setting is "Deny."



3. Set to "Allow" to accept guest account logins from My Network Places (Samba), Web File Manager, and Qfile.

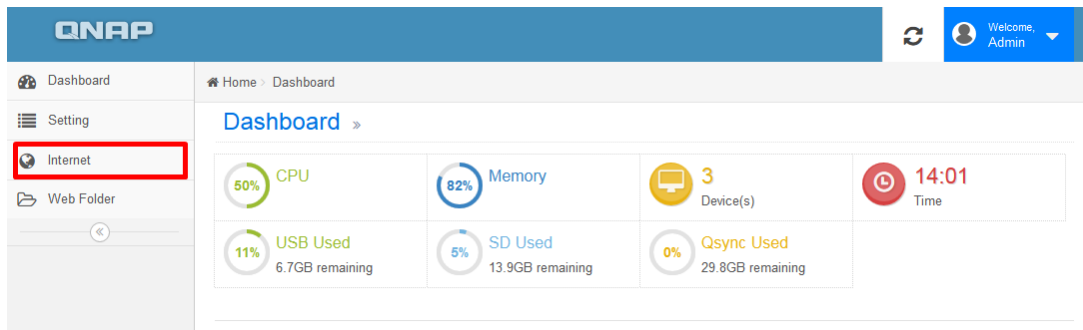
### 1.7.2 Setup QGenie's Internet connection

QGenie supports 3 methods to connect to Internet:

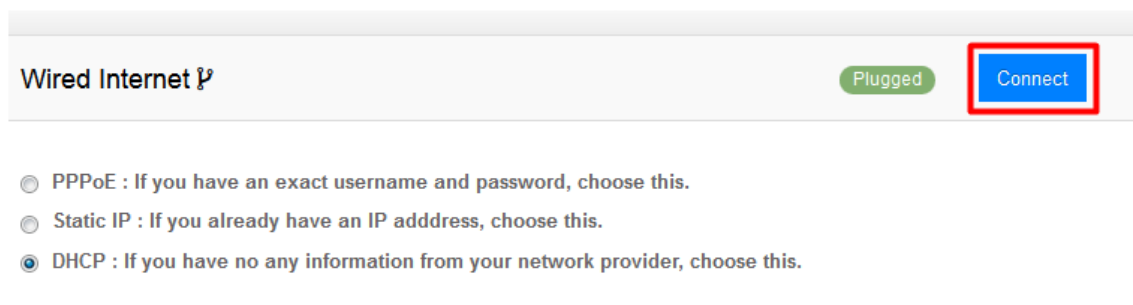
1. Wired Internet  
Plug an Ethernet cable to QGenie and use Ethernet internet connection.
2. Wireless Internet  
QGenie connect to an existing wireless internet connection.
3. USB Internet  
QGenie can work with (1) internet tethering (iPhone/Android), or (2) 3G/4G USB dongle.

### Setup Wired Internet

1. Login to the Web Interface using the Admin account.
2. Select [Internet] from the navigation panel.



3. Select wired connection type from [Wired Internet] and press [Connect]

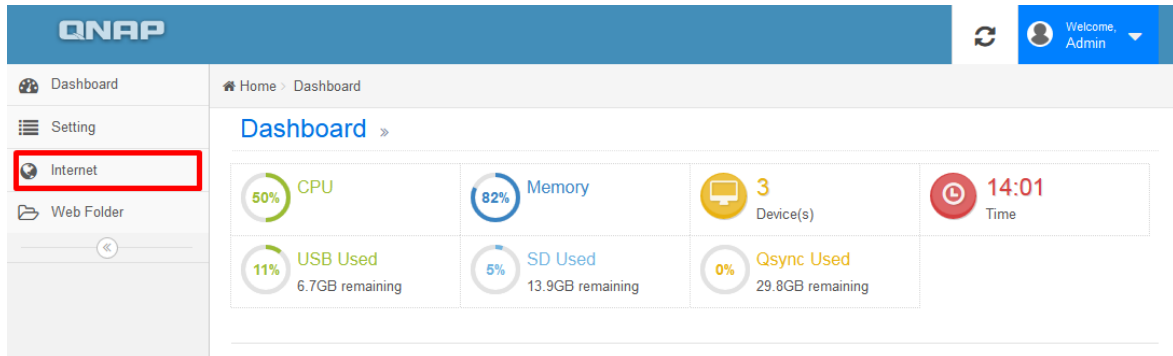


- DHCP: The most common method, choose this if connect the cable to a home router.
- Static IP: Similar with DHCP, but required to manually input proper IP settings.
- PPPoE: If plug QGenie directly to an ADSL/VDSL modem and need to enter a username and password.

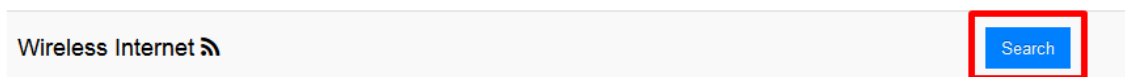
\* If doesn't know kind of connection type are using, please contact the network administrator or internet service provider for assistance.

## Setup Wireless Internet

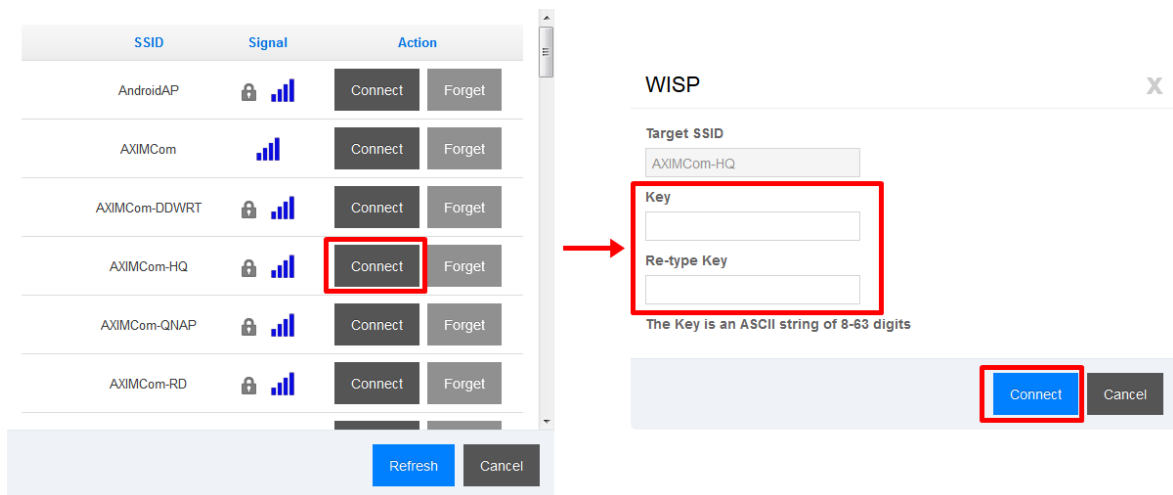
1. Login to the Web Interface with Admin account.
2. Select [Internet] from the navigation panel.



3. Select [Search] next to Wireless connection



4. Select the target Wireless network to connect, and enter the password if necessary.



After these settings are applied, QGenie will restart. Please reconnect to QGenie manually.

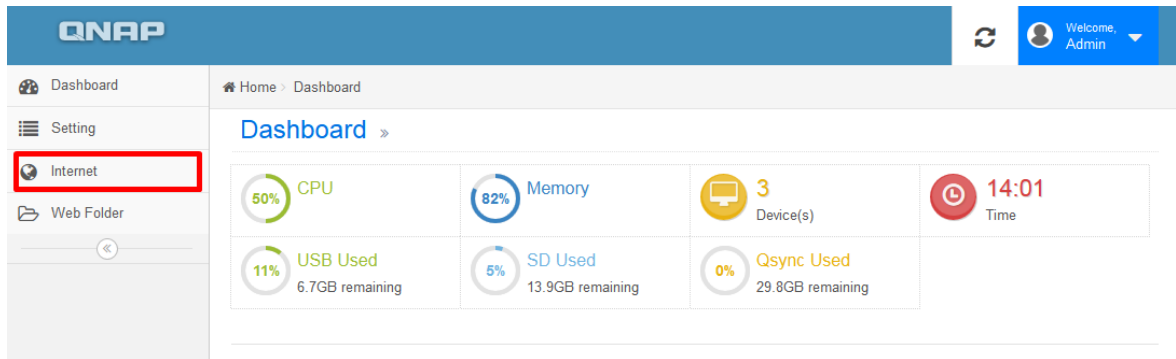
### NOTE

QGenie will remember the previous six successful wireless internet connections including passwords and will attempt to automatically connect to them if start QGenie with Wireless Internet settings.

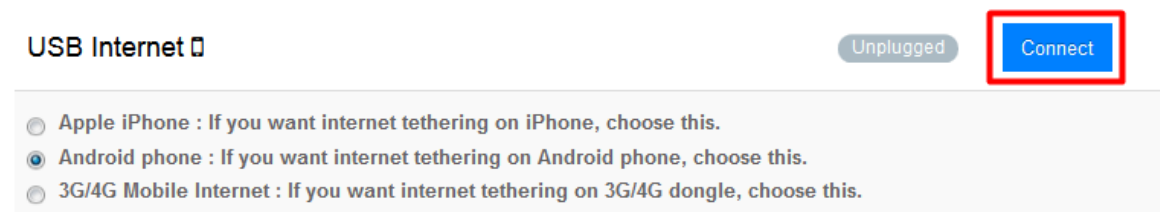
## Setup USB Internet

1. Login to the Web Interface with Admin account.

2. Select [Internet] from the navigation panel.

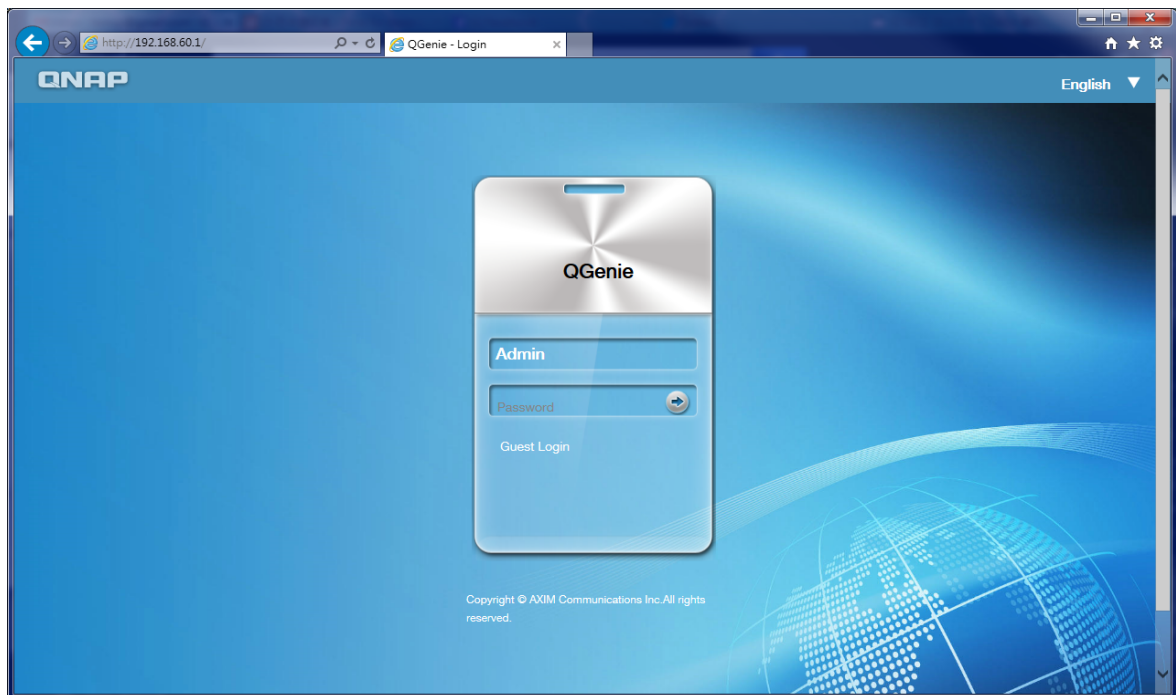


3. Select the type of USB device, and press [Connect].

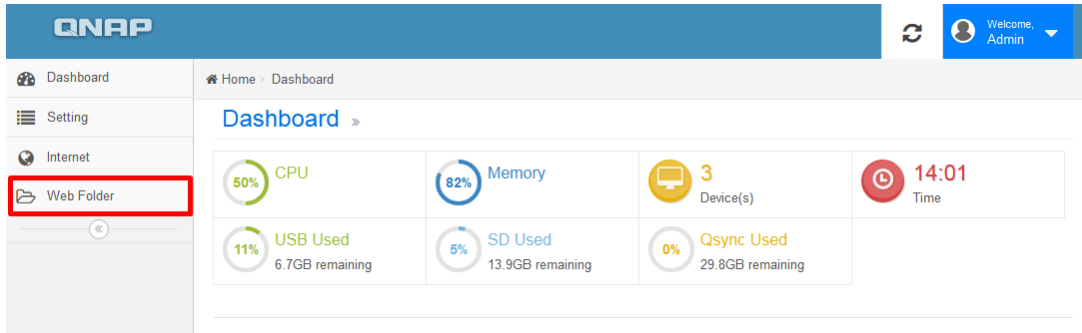


### 1.7.3 Access QGenie's contents

1. Connect the PC to QGenie's Wireless LAN, open your browser and go to <http://192.168.60.1/>. Log in to the Web Interface using the Admin or Guest account.



2. Select [Web Folder] to browse files on the SD card and/or USB storage device.



4. Begin browsing files on SD card and USB storage device.

**Index of /**

Name	Last Modified	Size	Type
Parent Directory/		-	Directory
Documents/	2011-Jan-01 00:00:08	-	Directory
Music/	2011-Jan-01 00:00:08	-	Directory
Others/	2011-Jan-01 00:00:08	-	Directory
Photos/	2014-Aug-08 05:03:04	-	Directory
Qsync/	1970-Jan-01 00:00:00	-	Directory
SD/	2014-Aug-14 04:52:16	-	Directory
USB/	1970-Jan-01 00:00:00	-	Directory
Videos/	2014-Aug-08 05:01:16	-	Directory

QGenie

**i NOTE**

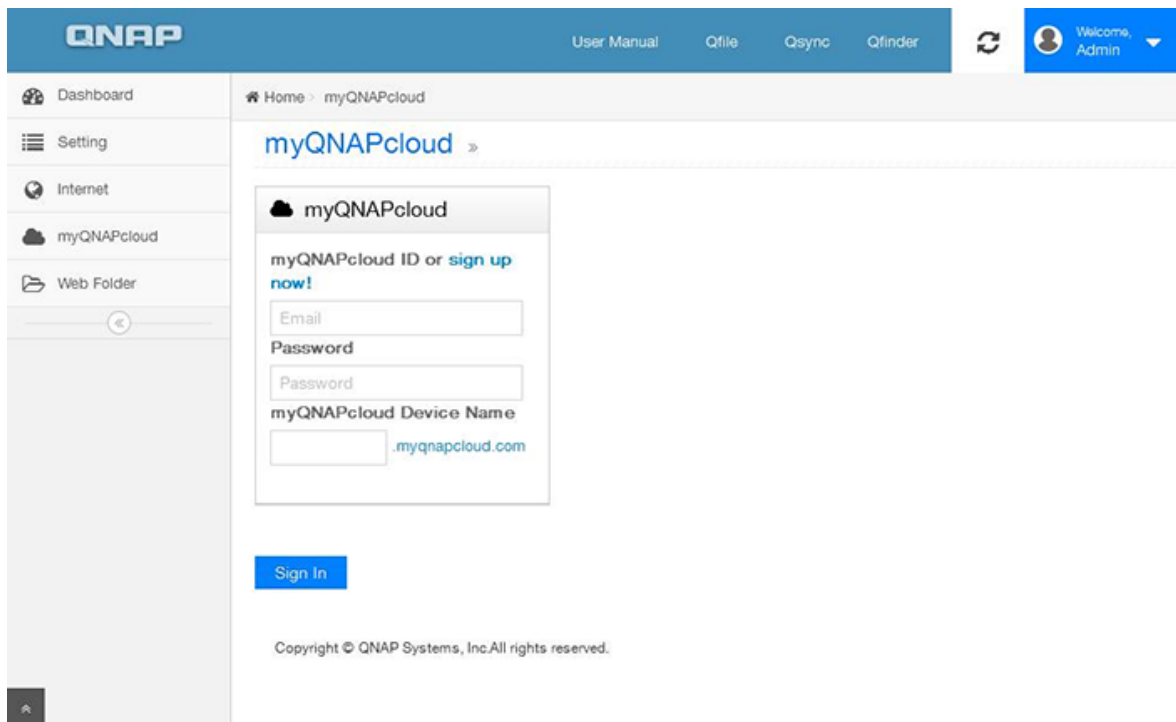
If the Web Folder does not appear in the Web Interface, please ensure that the storage device is properly connected.

## 1.8 myQNAPcloud service

(Available on QGenie with firmware 3.1.1+)

The myQNAPcloud service provides host name registration, mapping of a dynamic NAS IP to a domain name, and auto port mapping of a UPnP router on the local network. Use myQNAPcloud to register a unique host name for QGenie, configure automatic port forwarding on the UPnP router, and publish QGenie services for remote access from the Internet.

To use the myQNAPcloud service, make sure QGenie has been connected to an UPnP router and is accessible from the Internet. Go to myQNAPcloud on the QGenie dashboard.



## Create a myQNAPcloud ID

This step can be skipped if you already have a myQNAPcloud ID.


Click [[sign up now!](#)] and complete the required fields to create a myQNAPcloud ID.

## Register QGenie to myQNAPcloud

Enter your myQNAPcloud ID, password, and device name to register the QGenie to myQNAPcloud.



## myQNAPcloud »

 myQNAPcloud

myQNAPcloud ID or [sign up now!](#)


**Password**

**myQNAPcloud Device Name**

 [.myqnapcloud.com](#)

[Sign In](#)


Please note: Registering and configuring the router's UPnP may take several minutes. Please wait after selecting [Sign In]

 myQNAPcloud

**myQNAPcloud ID (QID)**

**myQNAPcloud Device Name**

[UPnP Test](#)

Status : Signed In  
Last Update Status :  OK

[Sign Out](#)

[Manage myQNAPcloud Account](#)

After registering, the QGenie will appear in your [myQNAPcloud portal](#).

## Remove QGenie from myQNAPcloud

Click [Sign Out], and QGenie will be removed from myQNAPcloud.

Please note that the device name from removed devices will be available for others to use.

### 1.9 Precautions

#### General use

Things need to pay attention when using QGenie.

#### Maintenance

Cleaning instructions.

#### Notes on external storage

##### 1.9.1 General use

1. To avoid malfunctions and hardware failure: QGenie should not be dropped, have heavy objects placed on it, hit with a strong force or put physical pressure on.
  2. Do not leave QGenie in the following places:
    - Very hot places (including under direct sunlight, beside a heater, on a car dashboard, in a car with windows closed during summer, etc). This can lead to product discoloration, physical deformation or hardware failure.
    - In environments with lots of dust or vibration.
    - On an unstable or inclined surface.
    - In a humid environment.
    - Near magnets or beside a device that creates a magnetic signal.
  3. If you hear static on the radio or TV, turn off the power to QGenie and move it away from the radio or TV.
  4. To avoid physical damage to QGenie, avoid following situations:
    - Do not sit down after putting QGenie in back pocket.
    - When a USB device/cable is attached to QGenie, avoid putting QGenie in a bag or impacting QGenie with a strong force.
  5. QGenie is not waterproof. Be careful when using QGenie in situations where QGenie can get wet and do not expose QGenie to rain, moisture or humid environments.
  6. Be wary of rapid temperature changes, as temperature can create condensation on the surface or inside QGenie. If condensation is happen on QGenie, do not turn QGenie on until the condensation goes away otherwise condensation may lead to hardware failure.
  7. QGenie transmits data by using 2.4GHz radio waves. If other nearby devices use the same frequency, interference may prevent QGenie from functioning correctly.
  8. Battery may be unable to fully charged when do not use QGenie for a long time. To fix this: charge and drain the battery for 2-3 cycles.
  9. Store QGenie in safe place and disconnect all attached USB cables/devices if do not use QGenie for a long period.
  10. Before using QGenie as a power bank for other devices, please check the user manual of those other devices before doing so to ensure compatibility and correct charging procedures.
  11. Before using QGenie to supply power to another device, check the power requirements of the device. QGenie's USB port supports a maximum output of 1500mA and will limit output to this level for safety.
  12. When powering a device from QGenie, the charging time will differ based on the remaining battery charge.
- If a USB hub or extension cable is used, QGenie may not operate correctly.

### 1.9.2 Maintenance

Clean QGenie using a soft cloth that is free of any cleansers or product. Take care if using water to clean its appearance.

### 1.9.3 Notes on external storage

1. Do not remove SD cards or other storage devices when being accessed by QGenie as this may result in data corruption or loss.
2. Data can be corrupted or lost if QGenie loses power when accessing external storage or if QGenie is used in an environment with significant electromagnetic interference.
3. Do not touch the USB port or SD card slot with hand or metal objects.
4. Using excessive force to insert an SD card into QGenie may damage both devices.
5. QGenie cannot access data that uses copyright protection technology.
6. The maximum single file size of an SD/SDHC memory card is 4GB due to the FAT file system. Please reformat SD/SDHC card with exFAT or NTFS if need to store large files.

## 1.10 Specifications

### Hardware

CPU	MIPS 24KEc 600MHz
Dram	64MB RAM
Flash Memory	16MB
Internal SSD	32GB
WiFi	802.11n 1T1R 150Mbps
LAN Port	1 x 100Megabit RJ-45 Ethernet port
OLED Display	Yes
LED Indicators	Power, Battery
USB	1 x USB 3.0 port
SD Card Slot	1 x SDXC
Buttons	Info, Reset
Mode Switch	WiFi Sharing/Power Bank/Off
Dimensions	115 (H) x 58.5 (W) x 17.5 (D) mm
Weight	122 g
Power Consumption (W)	0.8w

Operating temperatures	<ul style="list-style-type: none"> <li>▪ 0 °C to 45 °C (32 °F to 112 °F) (During normal operation)</li> <li>▪ 0 °C to 45 °C (32 °F to 112 °F) (When charging the built-in battery)</li> </ul>
------------------------	---

## Software

Supported Client OS	<ul style="list-style-type: none"> <li>▪ Windows XP, Vista, Windows 7 (32/64-bit), Windows 8 (32/64-bit), Windows Server 2003/2008 R2/2012</li> <li>▪ Apple Mac OS X</li> <li>▪ Linux &amp; UNIX</li> </ul>
Wired Internet Sharing	<ul style="list-style-type: none"> <li>▪ ADSL/VDSL (PPPoE)</li> <li>▪ Cable Modem (DHCP)</li> <li>▪ Hotel/Office LAN (DHCP)</li> <li>▪ User Defined Network (Static)</li> </ul>
Supported Browsers	<ul style="list-style-type: none"> <li>▪ Microsoft Internet Explorer 10+</li> <li>▪ Mozilla Firefox 8+</li> <li>▪ Apple Safari 4+</li> <li>▪ Google Chrome</li> </ul>
Apps/Utilities	<ul style="list-style-type: none"> <li>▪ Qfile (iOS/Android)</li> <li>▪ Qsync (Windows)</li> <li>▪ Qfinder (Windows)</li> </ul>

Access Right Management	<ul style="list-style-type: none"> <li>▪ Guest/Admin Mode</li> <li>▪ Access Password Protection</li> </ul>
Multimedia Formats (**)	<ul style="list-style-type: none"> <li>▪ Photos: JPG, GIF, PNG, TIFF, BMP</li> <li>▪ Documents: DOC, DOCX, PPT, PPTX, XLS, XLSX, KEY, NUMBERS, PAGES, TXT, RTF, PDF</li> <li>▪ Audio: MP3, AAC, M4A, AIF, WAV, WMA, OGG, APE, FLAC</li> <li>▪ Video: WMV, AVI, MKV, RM, RMVB, XVID, MP4, MOV, 3GP, MPG, M4V</li> </ul> <p><i>(**) The support of all formats comes from the mobile devices or 3rd party software. QGenie and Qfile don't encode/decode the multimedia data.</i></p>
File System	FAT32, NTFS, exFAT, HFS+, ext2, ext3, ext4 (up to 2TB)
File Access Discovery Protocols	<ul style="list-style-type: none"> <li>▪ Qfile API</li> <li>▪ WebDAV</li> <li>▪ Network Neighborhood (CIFS/Samba)</li> <li>▪ UPnP Discovery</li> <li>▪ Bonjour Discovery</li> </ul>

USB Internet Sharing	<ul style="list-style-type: none"> <li>▪ iPhone Tethering (iOS 6, iOS7)</li> <li>▪ Android Tethering (4.0/4.1/4.2/4.3/4.4)</li> <li>▪ 4G/3G/LTE USB Modem</li> </ul>
Multilingual Support	English/Chinese
Management	<ul style="list-style-type: none"> <li>▪ Firmware Upgrade</li> <li>▪ Factory Default</li> <li>▪ Dashboard-based Resource Monitor</li> </ul>

### 1.11 Recovery Mode

QGenie will enter recovery mode if it fails to start due to system errors or an incorrect firmware update.

In recovery mode, user can load emergency firmware to recover QGenie.

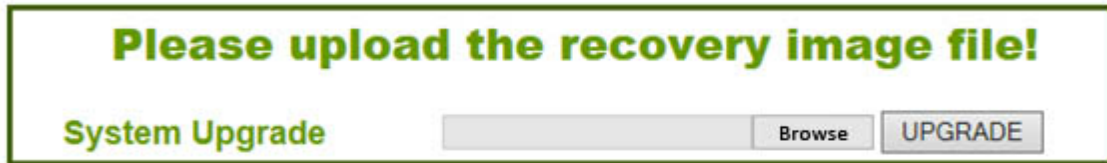
1. Download the recovery image file from the product website.
2. Connect an Ethernet cable directly from QGenie to a PC.
3. Manually setup PC's IP to 192.168.60.2 , Net mask 255.255.255.0, and Gateway 192.168.60.1
4. Carry out the above steps to reset all QGenie settings. Open browser and go to <http://192.168.60.1/> .



Hold reset and move slide to Wi-Fi sharing mode



5. Select "Browse" and select the recovery image file, and select "UPGRADE" to start.



6. QGenie will restart after this process is completed. Please disconnect the Ethernet cable between QGenie and PC.

7. After reboots, please [download and install the latest firmware](#) to QGenie.

#### NOTE

- This should only be performed when the system is unable to start correctly.
- Please make sure that QGenie has enough battery power, otherwise the recovery may fail.
- The recovery image file will only enable basic functions. Please install proper firmware after this process is complete to regain full functionality.

## 2. Troubleshooting

### 2.1 Main unit

[QGenie does not turn on.](#)

[The battery life is shorter than expected.](#)

[The battery discharges very quickly, even when QGenie is off.](#)

[The battery does not charge from a computer.](#)

[The battery indicator icon does not appear as charging.](#)

[It takes a long time to charge the battery.](#)

[QGenie does not supply power to other devices.](#)

#### **2.1.1 QGenie does not turn on.**

- QGenie's battery may be running out. Please charge it using a PC or USB AC adaptor.

#### **2.1.2 The battery life is shorter than expected.**

- The usage time will vary depending on different circumstances.
- The usage time detailed in this Help Guide is approximate. Battery life may be shorter depending on usage conditions.
- The battery discharges at a very low rate, even when this unit is left turned off. Recharge the battery sufficiently beforehand if this unit has not been used for a long time.
- If battery life is considerably short, even when the battery is fully charged, it may have reached the end of its life. The lifespan of the battery varies depending on usage conditions.
- If this unit is left unused for more than a year, the battery may have deteriorated (depending on the usage environment ).

- When the air temperature is below 5 °C, the battery may be discharged quickly. This is a characteristic of the battery and is not a malfunction.

### **2.1.3 The battery discharges very quickly, even when QGenie is off.**

- If QGenie has not been used in a long time, please recharge the battery sufficiently for optimum use.
- If the battery life is noticeably short, even with a full charge, it may have reached the end of its life.
- If QGenie is left unused for over a year, the battery may have deteriorated.
- Due to the nature of lithium-ion batteries, it may discharge quickly if the air temperature is below 5 °C (41 °F).

### **2.1.4 The battery does not charge from a computer.**

- If a USB hub or extension cable is used, QGenie may not charge correctly.
- QGenie cannot be charged when the PC is turned off or in sleep mode.
- Try disconnecting and reconnecting QGenie, or using another USB port.
- Make sure that computer meets QGenie's requirements.

### **2.1.5 The battery indicator icon does not appear as charging.**

- Ensure that the USB cable is correctly connected.
- For optimum performance of the rechargeable lithium-ion battery, it is recommended to charge between 10 °C to 35 °C (50 °F - 95 °F).
- Maybe using an incompatible USB AC adaptor. Please try with another adaptor.
- If charging from a completely discharged battery, it may take a while until the OLED indicator appears.

### **2.1.6 It takes a long time to charge the battery.**

- The charging time will vary depending on different circumstances.
- If QGenie is charged with power turned on and with other USB devices attached, the time to fully charge the other devices may change.

### **2.1.7 QGenie does not supply power to other devices.**

- Make sure that the device cable is connected correctly.
- QGenie's battery may be too low to supply power to other devices.
- Check the user manual of the other device to ensure compatibility and correct charging procedures.
- Check the power requirements of the other device. QGenie's USB port supports a maximum output of 1500mA and will limit output to this level for safety.
- If a USB hub or extension cable is used, QGenie may not charge correctly.

## **2.2 Heat**

### **[This unit becomes warm.](#)**

#### **2.2.1 This unit becomes warm.**

- This unit may become warm during use, including charging or while it supplies power to other devices. This is not a malfunction. Stop using the unit and allow it to cool down.
- Do not use this unit at a location where heat can accumulate.

## **2.3 Charging**

### **[The battery does not charge from a computer.](#)**



[The battery indicator lamp does not light while charging.](#)

[The battery indicator lamp blinks while charging.](#)

[It takes a long time to charge the battery.](#)

[The wireless LAN function cannot be used while charging.](#)

#### **2.3.1 The battery does not charge from a computer.**

- Use the supplied USB cable to charge this unit.
- Correct operation is not assured if a USB hub or USB extension is used. Use the supplied USB cable only to connect this unit to a computer or USB AC adaptor.
- Make sure that the computer is turned on and not in standby mode or sleep mode. This unit cannot be charged from a computer that is not turned on or in standby/sleep mode.
- Disconnect this unit from the computer, then connect again.
- Make sure that your computer meets the requirements for this unit.

#### **2.3.2 The battery indicator lamp does not light while charging.**

- Make sure that the USB cable is connected correctly.
- Charge this unit in an air temperature within this limit.
- For optimum performance of the rechargeable lithium-ion battery, it is recommended to charge between 10 °C to 30 °C (50 °F - 86 °F).
- The USB AC adaptor being used may be an unsupported model. Please try with another USB AC adaptor.
- When the battery is completely discharged, recharging starts immediately; however, it may take a while until the battery indicator lamp lights.

#### **2.3.3 The battery indicator lamp blinks while charging.**

- If an abnormality (e.g. increased unit temperature, or insufficient power input) occurs while charging, the battery indicator lamp may blink orange, and charging may stop. Please try with another USB AC adaptor, or change another port when charge with PC.

#### **2.3.4 It takes a long time to charge the battery.**

- The charge time detailed in this Help Guide is approximate. Charge time may be long depending on usage conditions.
- Charge by PC may take longer time than using USB AC adapter.

#### **2.3.5 The wireless LAN function cannot be used while charging.**

- While charging from a computer, the wireless LAN function turns off automatically.

### **2.4 Power bank**

[This unit does not supply power to other devices.](#)

#### **2.4.1 QGenie does not supply power to other devices.**

- Make sure that the USB cable is connected correctly.
- Use QGenie within its operating temperature range.
- The remaining battery charge of QGenie may be low. Charge QGenie to at least 60% capacity and try again.
- The device to be supplied power is not ready for charging. For details on how to charge the

device, refer to its instruction manual.

- The maximum output current of QGenie's USB port is 1.5A. If the supply output current exceeds 1.5A, the power is stopped for safety.
- Before supplying power to another device, be sure to check the voltage and current ratings of the device.
- If battery life is considerably short, even when the battery is fully charged, the battery may have reached the end of its lifespan.

## 2.5 Wireless LAN connection

**A Wireless LAN connection to a mobile device or computer cannot be established, or it is an unstable connection, and/or it takes a long time to connect.**

**I found two wireless names (SSIDs), both of which start with "QG" and I cannot determine which one should be used.**

**The wireless LAN connection has stopped.**

**The wireless LAN connection between this unit and a smartphone, tablet or computer is unstable.**

**It takes a long time to establish a wireless LAN connection between this unit and a smartphone, tablet or computer.**

### **2.5.1 A Wireless LAN connection to a mobile device or computer cannot be established, or it is an unstable connection, and/or it takes a long time to connect.**

- Make sure that QGenie and your device are turned on and the wireless LAN function of your device is enabled.
- Ambient conditions (obstacles between QGenie and your device including conflicting 2.4 GHz signals, solid walls and interference) may adversely affect the wireless communication range. Change QGenie's location, or move the involved devices closer together. If the problem is not resolved, restart QGenie or press the Reset switch to restore it to factory default settings. \*
- Your device and QGenie may be too far away from each other. Move them closer together.
- The wireless LAN QGenie is connected to may have a problem. Consult the network administrator.
- The number of users connected to QGenie may have reached the maximum limit (20).
- When you are using a password to secure connection between QGenie and your device, make sure that you are entering the correct password. If you have forgotten the password, restore the factory default settings by pressing RESET switch (\*).
- The wireless LAN function cannot be used while connecting QGenie to a computer using a USB cable.
- While connecting QGenie to a USB AC adaptor, the inserted SD card can be read or written via the wireless LAN function; however, the connected USB device cannot be accessed.

\* As all of QGenie's settings will be reset, we recommend that you take notes of settings before restoring the factory defaults.

### **2.5.2 I found two wireless names (SSIDs), both of which start with "QG" and I cannot determine which one should be used.**

- Another person may be using their QGenie nearby. Press the information button and check the wireless name shown on OLED screen. Select that wireless network.

### **2.5.3 The wireless LAN connection has stopped.**

- If QGenie is connected to a computer with the USB cable, the wireless connection will be stopped and a USB connection will be established.
- When changing from a wireless LAN connection to USB connection, make sure that data is not being copied via wireless LAN. If you change to a USB connection while data is being copied via wireless LAN, data may be damaged.
- Mobile devices need their settings changed if you alter QGenie's name or the wireless security settings.

## **2.6 Internet connection**

### **Internet connection cannot be established.**

#### **2.6.1 An Internet connection cannot be established.**

- Double check that your network equipment is enabled and free of faults in software, hardware and cabling. Make sure that QGenie's wireless LAN is enabled and that you are using correct usernames and passwords.
- Ambient conditions (obstacles between QGenie and your device including conflicting 2.4 GHz signals, solid walls and interference) may adversely affect the wireless communication range. Change QGenie's location, or move the involved devices closer together. If the problem is not resolved, restart QGenie or press the Reset switch to restore it to factory default settings. \*
- The wireless LAN that QGenie is connected to may have a problem. Consult the network administrator.
- QGenie cannot access wireless connections with a hidden SSID.
- QGenie cannot connect to wireless network using WPA-Enterprise or WPA2-Enterprise encryption.
- Some public wireless LANs require a login ID and password to be input via a web browser to access the provided wireless connection. Please follow the onscreen instructions or contact the hotspot's service provider.

\*As all of QGenie's settings will be reset, we recommend that you take notes of settings before restoring the factory defaults.

## **2.7 Other**

### **How many wireless networks (SSIDs) can be registered as the external access points for the Internet connection?**

### **How many users can connect to this unit at the same time?**

#### **2.7.1 How many wireless networks (SSIDs) can be registered as external access points for the Internet connection?**

- Up to 6 SSIDs are automatically registered as external access points.
- The least-used wireless network will be deleted when connecting to the seventh wireless network.

#### **2.7.2 How many users can connect to QGenie at the same time?**

- Up to 20 users can simultaneously connect to a QGenie.

## 2.8 File operation

### Data playback/display

#### Copying and deleting data

##### 2.8.1 Data playback/display

Data cannot be played back or displayed.

It takes time to play back or display data.

What file formats are supported by "Qfile"?

Files cannot be edited by "Qfile."

The Camera Roll cannot be accessed (iOS device).

##### 2.8.1.1 Data cannot be played back or displayed.

- Check that the SD card/USB storage is functioning normally and is correctly connected to QGenie.
- When connecting via wireless LAN, check whether QGenie's wireless LAN indicator lamp is blue.
- When using Qfile, check whether the format of the file you want to access is supported by QGenie. Even though a file format is supported, some files cannot be accessed depending on the device you use.
- When an Android device is connected to QGenie via USB, its storage cannot be accessed.
- Files that use Digital Rights Management (DRM) are not supported.

##### 2.8.1.2 It takes time to play back or display data.

- Ambient conditions (obstacles between QGenie and your device including conflicting 2.4 GHz signals, solid walls and interference) may adversely affect the wireless communication range. Change QGenie's location, or move the involved devices closer together.

##### 2.8.1.3 What file formats are supported by Qfile?

- Please refer to [\[Specifications\]](#) -> [\[Software\]](#) -> [\[Multimedia Formats\]](#) in this manual.

##### 2.8.1.4 Files cannot be edited by Qfile

- Qfile does not support file editing. However, you can change folder names and file names.

##### 2.8.1.5 The Camera Roll cannot be accessed (iOS devices).

- Go to [Settings] – [Privacy] – [Photos] and check if access from Qfile is allowed.
- In iOS 5 go to [Settings] – [Location Services] instead.

##### 2.8.2 Copying and deleting data

It takes too long to copy data.

Data cannot be copied to external storage (SD card, USB storage, mobile devices).

Data on external storage (SD card, USB storage, mobile devices) cannot be deleted.

### **2.8.2.1 It takes too long to copy data.**

- Ambient conditions (obstacles between QGenie and your device including conflicting 2.4 GHz signals, solid walls and interference) may adversely affect the wireless communication range. Change QGenie's location, or move the involved devices closer together.

### **2.8.2.2 Data cannot be copied to external storage (SD card, USB storage, mobile devices)**

- Check to see if your external storage is write-protected. If you disable this, then you can copy to it.
- There may not be enough free space on your external storage. Delete unnecessary data and then try again.
- In Android 4.4, copying files to external SD cards is prohibited.
- On iOS devices, check the following settings:
  - iOS 5: Settings - Location services, and check if Qfile is permitted.
  - iOS 6 (and later): Settings - Privacy - Photos, and check if access from Qfile is permitted.

### **2.8.2.3 Data on external storage (SD card, USB storage, mobile devices) cannot be deleted**

- You cannot recover deleted files. Do not delete important or valuable files without ensuring they are backed up.
- Check to see if your external storage is write-protected. If you disable this, then you can delete its content.
- In Android 4.4, delete files to external SD card are prohibited.
- On iOS devices, the Camera Roll contents cannot be deleted using Qfile. Delete them from the Camera Roll.

## **2.9 USB connection to a computer**

### **QGenie is connected to a computer with the USB cable but is not recognized.**

#### **The battery indicator lamp lights orange.**

#### **The wireless LAN connection has stopped after connect to PC**

### **2.9.1 QGenie is connected to a computer with the USB cable but is not recognized.**

- Check to see if the USB cable is connected properly, and only use the supplied USB cable.
- Correct operation is not guaranteed if you use a USB hub or extension cable.

### **2.9.2 The battery light is orange.**

- When QGenie is connected to a computer via USB, the battery will be charged and the light will turn orange.
- When charging is complete, the light will turn green.

### **2.9.3 The wireless LAN connection has stopped after connect to PC**

- If QGenie is connected to a computer via USB, the wireless connection will be stopped and the USB connection will be established.
- When changing from a wireless LAN connection to USB connection, make sure that data is not being copied via wireless LAN. If you change to a USB connection while data is being copied via wireless LAN, data may be damaged.

## 2.10 Qfile

[Qfile cannot be installed.](#)

[What file formats are supported by Qfile?](#)

[Files cannot be edited using Qfile.](#)

[How can I check the version of "Qfile"?](#)

[I can not login QGenie by Qfile](#)

### **2.10.1 Qfile cannot be installed.**

- Check the free space on your device as it may not be enough.

### **2.10.2 What file formats are supported by "Qfile"?**

- Please refer to [\[Specifications\]](#) -> [\[Software\]](#) -> [\[Multimedia Formats\]](#) in this manual.

### **2.10.3 Files cannot be edited using Qfile.**

- Qfile does not support file editing outside of changing folder and file names.

### **2.10.4 How can I check the version of Qfile?**

- Select (i) in the top left corner in Qfile's server list menu.



### **2.10.5 I can not login QGenie by Qfile**

Please check that:

1. Your admin password is correct. You can reset QGenie's settings if you forget the password.
2. Guest login is allowed. The Guest account can be enabled in "Setting."

### **2.11 myQNAPcloud**

#### **[I cannot register my QGenie to myQNAPcloud](#)**

##### **2.11.1 I can not register my QGenie to myQNAPcloud**

Please confirm if:

1. QGenie is connected to Internet.
2. The myQNAPcloud ID and password are correct.
3. The device name is already used by others.
4. The router supports UPNP service.

### **2.12 Additional Information**

#### **[Resetting](#)**

How to reset QGenie.

#### **[Security settings for QGenie's wireless LAN](#)**

The suggestions of setup a proper wireless security.

##### **2.12.1 Resetting**

###### ***How do I use the Reset switch?***

- To restore the factory default settings, press and hold the switch for more than 3 seconds (this can only be performed when QGenie is in Wi-Fi sharing mode).

##### **2.12.2 Security settings for QGenie's wireless LAN**

###### **[Are wireless security settings really necessary?](#)**

###### **[What security settings are available for wireless LAN of this unit?](#)**

###### **[I have forgotten the password.](#)**

###### **2.12.2.1 Are wireless security settings really necessary?**

- Security for wireless devices is incredibly important. Without adequate security, QGenie's contents and services may be openly accessed by anyone. QNAP fully recommends that you set adequate security settings.

###### **2.12.2.2 What wireless security settings are available for QGenie?**

- WEP, WPA, or WPA2 can be selected, with WPA2 being strongly recommended due to its higher security level.

###### **2.12.2.3 I have forgotten the password.**

- Follow the above instructions for "[How do I use the Reset Switch?](#)"

## 2.13 System software update

### [About update of the system software of this unit](#)

Where to download firmware.

### [If QGenie fails to update its firmware.](#)

Things to check when failed to apply updates.

#### **2.13.1 About updating QGenie's software.**

- It is recommended to apply new updates as they are available as some may contain important security fixes.
- You can find the latest system software and firmware on the [QNAP website](#).
- Periodically check the status of your apps to make sure you are using the latest version.
- Qfile will check the firmware version when connect to QGenie.

#### **2.13.2 If QGenie fails to update its firmware.**

- QGenie's battery must be above 60% to update the firmware (press the information button on QGenie to display the current power level).
- Do not press the Reset switch or slide the Power switch while updating.
- Do not do the following while updating.
  - Insert or remove an SD card or USB device
  - Connect to a computer via USB
  - Connect or disconnect the USB AC adaptor
  - Allow access from other users
- The screen will show the current update progress.
- Only update the firmware when you have a dependable network environment.
- If QGenie fails to start, please use [recovery mode](#).

## 2.14 USB cable

### [The USB cable cannot be connected to QGenie.](#)

#### **2.14.1 The USB cable cannot be connected to QGenie.**

- Please note the different plugs on both ends of the USB cable, and connect the proper plug to each port.
- Only use the USB cable supplied with QGenie.
- When connecting iOS devices, use the dedicated cable included with your device.

## 3. Customer Support

Should you encounter any errors or issues when using QGenie, please do the following:

1. Read the [User Manual & Quick Installation Guide](#). Double check the connections of cables and attached devices and the product settings.
2. [Download](#) the latest firmware for your QGenie and try again.
3. You may find a solution to your problem on the [Troubleshooting](#) section of the QNAP website,.
4. Check the [QNAP Forum](#) for any solutions or answers. You may also post your questions on the forum.
5. Report your questions by the [Online Support Form](#) on the QNAP website.
6. If there is a hardware defect, if it is within warranty you can return it to where you bought it and ask for a replacement or repair service.



If your problems cannot be solved using these steps, please contact QNAP for immediate assistance.

Please submit an online support request from the [QNAP Helpdesk](#). We will get back to you as soon as we can.

## **USA & Canada**

Tech Support Service Hours: 07:00–18:00 (Pacific Time), Mon. - Fri.  
Service Hotline: +1-909-595-2782

To contact our storage product specialists, please call 909-595-2782

## **Taiwan (Headquarters)**

09:30–18:30 Mon. - Fri.  
Service Hotline: +886-2-2641 2000 ext. 6

## **China**

09:30–18:30 Mon. - Fri.  
Service Hotline: +86-10-62682131

## **Germany**

09:00–17:00 Mon. - Fri.  
Service Hotline: +49-89-381562991

## **Netherlands**

08:30–17:30 Mon. - Fri.  
Service Hotline: +31(0)107600830

## **UK**

08:30–16:30 Mon. - Fri.  
Service Hotline: +44(0)2036-081-969

## **Russia**

9:00-18:00 (Moscow Time)  
Service Hotline: +7 (495) 587 76 20

## **4. GNU GENERAL PUBLIC LICENSE**

### **GNU GENERAL PUBLIC LICENSE**

Version 3, 29 June 2007

Copyright © 2007 Free Software Foundation, Inc. <<http://fsf.org/>>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it

is not allowed.

#### Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program—to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

#### TERMS AND CONDITIONS

##### 0. Definitions.

“This License” refers to version 3 of the GNU General Public License.

“Copyright” also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

“The Program” refers to any copyrightable work licensed under this License. Each licensee is

addressed as “you”. “Licensees” and “recipients” may be individuals or organizations.

To “modify” a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a “modified version” of the earlier work or a work “based on” the earlier work.

A “covered work” means either the unmodified Program or a work based on the Program.

To “propagate” a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To “convey” a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays “Appropriate Legal Notices” to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

#### 1. Source Code.

The “source code” for a work means the preferred form of the work for making modifications to it. “Object code” means any non-source form of a work.

A “Standard Interface” means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The “System Libraries” of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A “Major Component”, in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The “Corresponding Source” for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work’s System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

#### 2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are

irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

### 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

### 4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

### 5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
- d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the

compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

#### 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor

any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

#### 7. Additional Terms.

“Additional permissions” are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
- b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
- c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
- d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
- e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
- f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

#### 8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

#### 9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

#### 10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An “entity transaction” is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

#### 11. Patents.

A “contributor” is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's “contributor version”.

A contributor's “essential patent claims” are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, “control” includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

#### 12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

#### 13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.



14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS