

**Adaptateur LAN / WIFI
LAN / WIFI Adapter**

Tension d'alimentation Supply voltage	100 - 240 V~ 50/60 Hz
Courant consommé Current consumed	0,3 A
Puissance d'émission Transmitting power	100 mW
Plage de fréquence Frequency Range	2.4 - 2.485 GHz
Transfert sans fil Wireless Transfer Rates	300 Mbps
Normes Complies with standards	IEEE 802.11n/g/b
Prend en charge le routeur, le répéteur, le mode AP Supports Router, Repeater, AP mode	

Equipement de classe II / Class II equipment

Courant alternatif ou tension alternative / Alternating current or voltage

Par la présente Hager Controls déclare que l'appareil TKH181 est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 2014/53/UE. La déclaration CE peut être consultée sur le site : www.hagergroup.com

Hager Controls hereby declares that the TKH181 device complies with the essential requirements and other relevant provisions of Directive 2014/53/UE. The CE declaration is available on the site : www.hagergroup.com



6L003097C

Open Source Code

This product includes software codes developed by third parties. These software codes are subject to either the GNU General Public License (GPL), Version 2, June 1991 or the GNU Lesser General Public License (LGPL), Version 2.1, February 1999. You can copy, distribute, and/or modify in accordance with the terms and conditions of GPL or LGPL.

The source code should be complete, if you want us to provide any additional source code files under GNU General Public License (GPL), please contact us. We are committed to meeting the requirements of the GNU General Public License (GPL). You are welcome to contact us local office to get the corresponding software and licenses. Please inform us your contact details (full address) and the product code. We will send you a CD with the software and license for free.

Please refer to the GNU GPL Web site for further information. <http://www.gnu.org/licenses/licenses.en.html>.

Introduction:

The Device is mainly used for providing free Wi-Fi service in big area such as factory, community, street or etc. The Device can take an existing 802.11n wireless signal, repeat and extend it to a longer range where it is too far away for the router or access point to reach. The device supports 2.4G wireless network connection, and it can supports 2.4G transmission speeds of up to 300Mbps. It has 2xAntennas providing even better wireless performance, transmission rates, stability technology automatically avoids channel conflicts using its channel selection feature.

Package Contents

Before you starting to use this router, please check if there's anything missing in the package, and contact your dealer of purchase to claim for missing items:

- 1 x Wi-Fi AP/Router (the Device)
- 1 x Quick Installation Guide
- 1 x RJ45 Cable (Optional)

Hardware Overview

Default Parameters

Default IP: 192.168.10.1 URL: <http://ap.setup>
Login Password: admin
Wi-Fi SSID: Wireless-N Wi-Fi key: no



WPS Button: Press 1-2 Seconds, Waiting your device Connection, Press 6 Seconds, Connect to your AP/Router
Reset Button: Press 3 Seconds Reset the Device.

LED indicators

POWER	ON: The Device is power on OFF: The Device is not receiving electrical power.
WPS	Slow Flashing: The Device WPS Waiting Client connection Fast Flashing: The Device Connecting to your AP/Router
LAN WAN/LAN	ON: The Ethernet port is connected. OFF: The Ethernet port is disconnected. Flashing: Data Transferring
Wi-Fi	AP Mode: Wi-Fi LED ON/OFF Repeater Mode: Connected is ON, Disconnected is Flashing

Getting Started

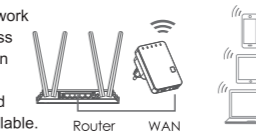
Setting up a Wireless Infrastructure Network

For a typical wireless setup at home (as shown below), please do the following:

Wireless AP Mode

The Device is connected to a wired network then transforms the wired Internet access into wireless so that multiple devices can share the Internet.

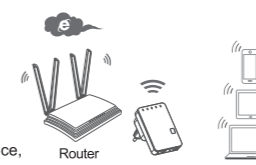
So this mode is fit for office, home and places where only wired network is available.



Wireless Repeater Mode

The Device is copies and reinforces the existing wireless signal to extend the coverage of the signal. This mode is especially useful for a large space to eliminate signal-blind corners.

So this mode is fit for large house, office, warehouse or other spaces where the existing signal is weak.



Router Mode

The Device is connected to a DSL or cable modem and works as a regular wireless router.

So this mode is fit for the environment which Internet access from DSL or cable modem is available for one user but more users need to share the Internet.



Configure the Wi-Fi Repeater Mode

Configure the Wi-Fi Repeater Mode with WPS Button.

This is the easiest way to configure the Device. First, check whether your wireless router supports WPS. For further details, please read the operating instructions for your wireless router.



Tips: If you want to keep the stable connection between your router and our repeater at REPEATER mode, Please install our Repeater at a suitable position. You can check the suitable position as the followings: You can check the Wi-Fi signal on your smartphone, if the signal is below 2 levels, we suggest to change the location of our repeater.

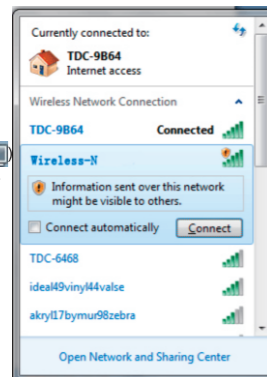
- 1.Plug the Device into a wall socket.
- 2.Press the WPS button on the Device for 6 seconds. The WPS LED fast flashing for approx. 2 minutes.
- 3.Within these 2 minutes, please Press the WPS button of your Wireless Router directly for 2 - 3 seconds. (For further details, please read the operating instructions for your wireless router.)

The Device then automatically connect to your wireless router and copies wireless key of the settings. The device Wi-Fi Password same your AP/Router. After the reboot has been completed, please go to your device WLAN setting, connect to new SSID.

You can configure the Wi-Fi Repeater Mode by connecting it with your computer/laptop with enclosed RJ45 cable or wirelessly.

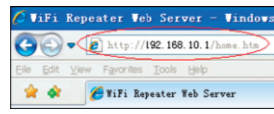
A. Configure the Wi-Fi Repeater Mode wirelessly.

A1. Plug the device into a wall socket.



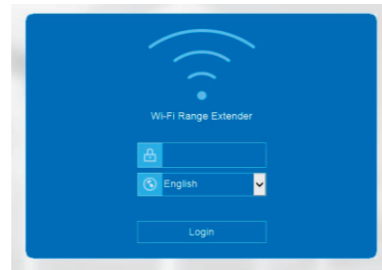
A2. Click on the network icon () or () on the right bottom of your desktop. You will find the signal from the **Wireless-N**. Click on **'Connect'** then wait for a few seconds.

A3. Open web browser and type <http://192.168.10.1> or <http://ap.setup> in the browser address box. This number is the default IP address for this device.



Note: Please check whether the Device accord with factory default settings once you can't entered <http://192.168.10.1> or <http://ap.setup>. If you are still not sure what reasons, you can reset the Device, just need to press the **reset** button for 3 seconds, then try again.

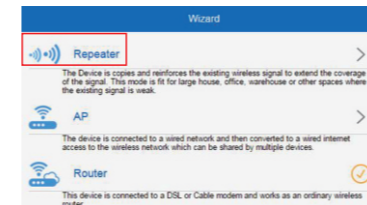
A4.The login screen below will appear. Enter the Password then click **"Login"** to login. The default Password is **"admin"**.



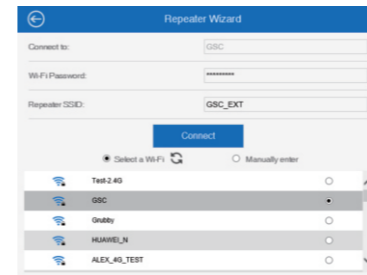
A5. After logging in, you will see the web page below, click on the **Wizard**



A6. Click on the **Repeater**.



A7. From the list, select a Wi-Fi SSID. After having selected a Wi-Fi SSID, you must then specify the password of your wireless router.



Completing the entry, click on the **"Connect"** button. After the reboot has been completed, please go to your device WLAN setting, connect to new Wi-Fi SSID.

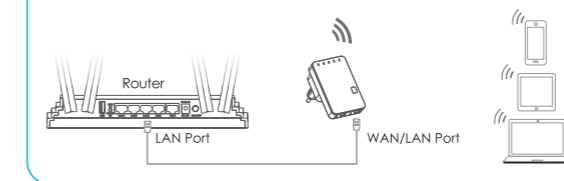
B. Configure the Wi-Fi Repeater Mode with RJ45 Cable.

- 1.Plug the Device into a wall socket. Connect your computer / laptop with the Device with RJ45 Cable.
- 2.Follow process **A3** to **A7** to configure the Device.

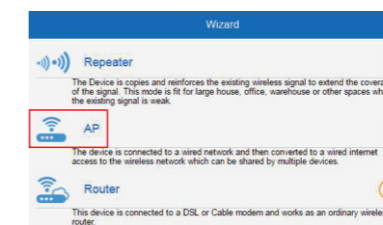
Configure the Wi-Fi AP Mode

Use the AP Mode to obtain a "wireless access point". The wireless end devices will connect to the Device in this mode. You can also use this mode, for example, to make a formerly non-wireless-enabled router wireless-enabled.

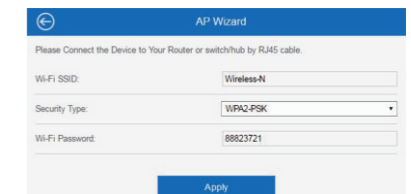
Note: For AP Mode, please connect the Device (WAN/LAN port) to your Router(LAN port) as shown in the drawing below. The LAN port of the Device is for the wired connection to your computer.



- 1.Plug the Device into a wall socket.
- 2.Follow process **A2** to **A5**.
- 3.Click on the **AP** button



The following message will be displayed on your web browser:



SSID	Wireless SSID of the Device
Security type	Setup the wireless security and encryption to prevent from unauthorized access and monitoring. Supports WPA, WPA2, WPA/WPA2 encryption methods.
Security key	The "Wi-Fi Password" of the Device

Click on **'Apply'** button, The Device will restart.

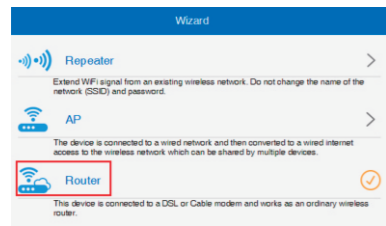
After the reboot has been completed, please go to your device WLAN setting, connect to new Wi-Fi SSID.

Configure the Wi-Fi Router Mode

The Device is connected to a DSL or cable modem and works as a regular wireless router.
Internet access from DSL or cable modem is available for one user but more users need to share the Internet.



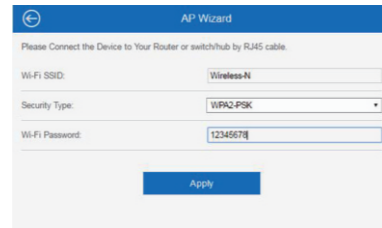
- 1.Plug the Device into a wall socket
- 2.Connect your DSL Modem with the Device with RJ45 Cable
- 3.Follow process **A3** to **A5**.
- 4.Click on the **Router** button



10

Choose your WAN Connection Type.

If PPPoE (ADSL Dial-up) is selected, please enter the **User Name** and **Password** from your ISP, These fields are case-sensitive.



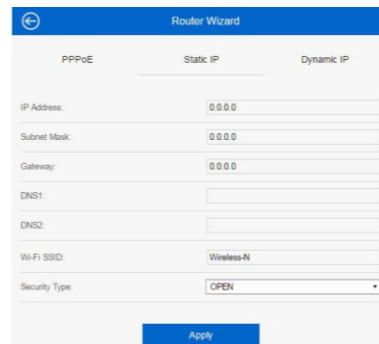
Enter the Device wireless parameter. It's recommended that you rename an **SSID**, choose a **Security Mode** and enter a **Wi-Fi Password**.

SSID	The " SSID " of the Device
Channel	Auto (recommend)
Security type	Setup the wireless security and encryption to prevent from unauthorized access and monitoring. Supports WPA, WPA2, WPA/WPA2 encryption methods.
Security key	The " Wi-Fi Password " of the Device

Click '**Apply**' button, It will restart.
Wait for a few seconds the Device is ready for use.

11

If **Static IP** is selected, please enter the **IP Address**, **Subnet Mask**, **Default Gateway**, etc.

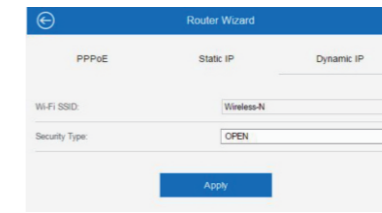


Enter the Device wireless parameter. It's recommended that you rename an **SSID**, choose a **Security Mode** and enter a **Wi-Fi Password**.

Click '**Apply**' button, It will restart.
Wait for a few seconds the Device is ready for use.

12

If **Dynamic IP** is selected, the Device gets the IP address automatically from your Router or ISP DHCP serve. No configuration should be set and you can go on with the wireless configuration.



Enter the Device wireless parameter. It's recommended that you rename an **SSID**, choose a **Security Mode** and enter a **Wi-Fi Password**.

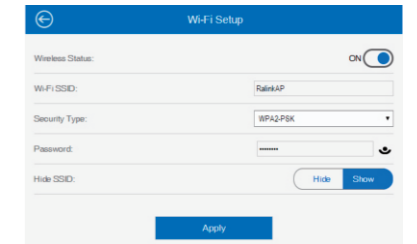
Click '**Apply**' button, It will restart.
Wait for a few seconds the Device is ready for use.

Management via Web Browser

Wireless Base Configuration

Please follow the following instructions: Click "**Wi-Fi -> Wi-Fi Setup**" located at the web management interface, the following message will be displayed on your web browser:

You could configure the basic setting of Wireless settings for communication, such as Network Name (**SSID**) and Channel. The Access Point can be set simply with only the minimum setting items.



Wireless Status	Wireless On/Off
SSID	Wireless SSID of the Device
Security type	Setup the Wireless security and encryption to prevent from unauthorized access and monitoring. Supports WPA, WPA2, WPA/WPA2 encryption methods.
Security key	The " Password " of the Device.

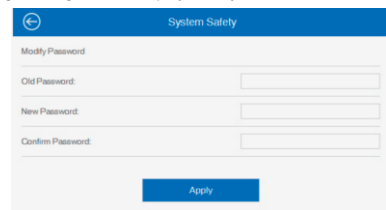
Click '**Apply**' button, The Device will restart.

14

Change Management password

Default password of the device is "**admin**", and it's displayed on the login prompt when accessed from web browser. There's a security risk if you don't change the default password, since everyone can see it. This is very important when you have wireless function enabled.

To change password, please follow the following instructions:
Please click "**Setup-> System Safety**" menu on the web management interface, the following message will be displayed on your web browser:



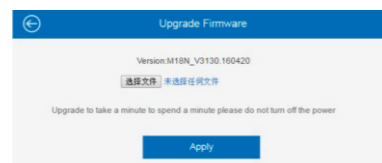
Click '**Apply**' button, The Device will log off.

15

Firmware Upgrade

The system software used by this router is called "**firmware**", just like any applications on your computer, when you replace the old application with a new one, your computer will be equipped with new function. You can also use this firmware upgrade function to add new functions to your router, even fix the bugs of this router.

Please click '**Setup-> Upgrade Firmware**' located at the web management interface, and then the following message will be displayed on your web browser:



Click '**Browse...**' or '**Choose File**' button first; you'll be prompted to provide the filename of firmware upgrade file. Please download the latest firmware file from our website, and use it to upgrade your router.

After a firmware upgrade file is selected, click '**Apply**' button, and the device will start firmware upgrade procedure automatically.
The procedure may take several minutes, please be patient.

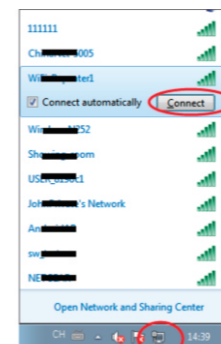
NOTE: Never interrupt the upgrade procedure by closing the web browser or physically disconnect your computer from the device. If the firmware you uploaded is interrupt, the firmware upgrade will fail, and you may have to return the device to the dealer of purchase to ask for help.

Warranty voids if you interrupted the upgrade procedure.

16

How to connect your computer/laptop with the Device

- 1.Log on to the computer.
- 2.Open Connect to a Network by right-clicking the network icon (or) in the notification area.
- 3.Choose the wireless network from the list that appears, and then click **Connect**.
- 4.Type the network security key or passphrase if you are asked to do so, and then click **OK**. You'll see a confirmation message when you are connected to the network.



- 5.To confirm that you added the computer, do the following:
Open Network by clicking the **Start** button , and then clicking **Control Panel**. In the search box, type **network**, and then, under Network and Sharing Center, click **View network computers and devices**. You should see icons for the computer you added and for the other computers and devices that are part of the network.

Note: If you don't see icons in the Network folder, then network discovery and file sharing might be turned off.

17

Adding a Wireless computers to the Device with WPS Button

This is the easiest way to establish a connection to the AP. First, check whether your end device supports WPS. For further details, please read the operating instructions for your end device.

- 1.Log on to the computer.
 - 2.Press the WPS button on the device for **2** seconds. The WPS LED now flashes for approx. 2 minutes.
 - 3.Within these 2 minutes, please press the connection button (WPS) on your end device. (For further details, please read the operating instructions for your end device.)
- Your end device then automatically connects to the Device and applies all of the settings. You should see icons for the computer you added and for the other computers and devices that are part of the network.

Adding a wired (Ethernet) computer to the Device

- 1.Plug the device to a socket. Connect your computer / laptop with the device with enclosed RJ45 Cable.
- 2.To Confirm that you added the computer, do the following:
Open Network by clicking the **Start** button , and then clicking **Control Panel**. In the search box, type **network**, and then, under Network and Sharing Center, click **View network computers and devices**. You should see icons for the computer you added and for the other computers and devices that are part of the network.

For more information:
<http://windows.microsoft.com/en-US/windows7/Add-a-device-or-computer-to-a-network>
<http://windows.microsoft.com/en-US/windows7/Setting-up-a-wireless-network>
<http://windows.microsoft.com/en-US/windows-vista/Setting-up-a-wireless-network>

18

WEEE Directive & Product Disposal
 At the end of its serviceable life, this product should not be treated as household or general waste. It should be handed over to the applicable collection point for the recycling of electrical and electronic equipment, or returned to the supplier for disposal.

19