



Thanks for your purchase from AppLamp!

With at least 80% energy saving compared to a traditional light bulb, you have made an environmentally conscious purchase!

In line with that, we provide this manual digitally instead of printed on paper. We also recommend using rechargeable batteries for the remote controls.

For that reason, we don't include ordinary batteries.

We hope you appreciate our environmentally friendly choices and they do not cause you any inconvenience. This manual describes all aspects of the AppLamp system, including parts that you may not have purchased. If you want to expand your AppLamp system later, you already have all the information you need in this manual.

Enjoy your AppLamp products!

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1 Introduction

With AppLamp you can control **Dual White** or **Full Color LED bulbs / LED strips**, each with its own specific remote. The remote with the Color Touch wheel controls the **Full Color LED bulbs**. The other controls the **Dual White LED bulbs** up to four different zones. It controls the intensity and color temperature in all groups.

In combination with the **Wifi Box**, you can also control the lights via wifi with an application on your smartphone or tablet. If we refer to the 'APP' we mean the application on your smartphone or tablet. The APP has two main screens with similar layout as the regular remote controls described above. The APP and the remotes are identical in functions and operation.

When you see an image in this manual of the remote control with a description of the basic functions, then you can assume that it can be used in the same way via the smartphone or tablet application, and vice versa.

In this manual you will learn about:

- The basic functions of the remote controls / APP.
- Linking new lights to the remote / APP.
- Grouping multiple lights
- Connecting the Wifi Box directly for use with the APP ("adhoc configuration").
- For the advanced user: configuring the Wifi Box in a home network environment ("Infrastructure configuration").

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2 Basic control functions

Full Color control functions:



Dual White control functions:



TIPS:

- To dim all White Dual lamps at once or changing the color temperature, first press "1" / "Master ON". To do this with individual lights, first press "1" / "Zone ON". Secondly, set the adjustment for color temperature or brightness.
- To turn on the night light mode of a single (Dual White) light, press and hold the "0" / "Zone OFF" from one of the 4 zones. To turn on all the lights in night light mode, press and hold "0" / "Master OFF". The lights now consume only 0.4 watts.

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3 Linking and grouping lights

To your requirement, you can group and link the lights to one or more remotes or Wifi Boxes. You can undo this operation for each individual light (Unlinking). The steps described for linking or unlinking are identical for both the remote and the APP. To do this with the APP, it must already be connected and configured (see section 4.)

3.1 Linking Full Color lights (or LED strip receiver)

- 1. 1. Switch off the 220V mains supply of the light with the mains switch or pull the plug from the socket.
- Now switch on the light again and <u>within 3 seconds</u> shortly press the "Speed +" button on the Color touch remote control or the APP:



3. When this link operation is successful, the light slowly blinks 3 times on and off.

3.2 Unlinking Full Color lights

- 1. Switch off the 220V mains supply of the light with the mains switch or pull the plug from the socket.
- 2. Now switch on the light again and <u>within 3 seconds</u> press and hold the "**Speed +**" button for at least two seconds on the Color touch remote control or the APP:



3. When this unlink operation is successful, the light quickly blinks 10 times on and off.

3.3 Linking Full Color Led strips

See section 3.1 "Linking Full Color lights"

3.4 Unlinking Full Color LED strips

See section 3.2 "Unlinking Full Color lights"

3.5 Linking Dual White lights to zone 1 tot 4

1. Choose to which zone you want to assign the light (1 to 4)



- 2. Switch <u>off</u> the 220V mains supply of the light in the selected zone with the mains switch or pull the plug from the socket.
- 3. Now switch <u>on</u> the light again and <u>within 3 seconds shortly press on one of</u> the "**Zone ON**" buttons on the Dual White remote controller or the APP.

With this button we add a light to zone 3



4. When this link operation is successful, the light slowly blinks 3 times on and off.

3.6 Unlinking Dual White lights

- 1. Check via the Dual White remote control or on the APP which zone (1 to 4) is linked to a light.
- 2. Switch <u>off</u> the 220V mains supply of the light with the mains switch or pull the plug from the socket.
- 3. Now switch <u>on</u> the light again and <u>within 3 seconds press 5 times quick and</u> <u>shorlty on one of the "**Zone ON**" buttons</u> on the Dual White remote controller or APP.

With this button we unlink zone 3



3.7 Grouping of several Dual White lights

You can add an endless number of AppLamps to a zone on the 4 channel remote or APP. This way you are completely flexible in creating different group combinations. Below you see some grouping examples.



Good to know is that one Dual White light can connect with up to four different remote controllers, that is 16 unique zones!

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4 Using the APP and Wifi Box

4.1 Download and installing the APP

Download and install the APP "Wifi Controller 2.0" on your smartphone or tablet. The APP is available for Android and iOS. The download links are on the AppLamp website. You can also find the APP on iTunes or the Google Play store, look for the application named: "Wifi Controller 2.0".

4.2 Installing the Wifi Box



- 1. Connect the WiFi Control Box to the 5 volt adapter with the included USB cable.
- 2. Plug the adapter into the wall power outlet. The POWER indicator will flash now.
- Go to the Wifi setting of your Android or Apple iOS smartphone/ tablet, and connect with the AppLamp Wifi Box..
 The standard (SSID) network name of the AppLamp Wifi Box is "wifi_socket". *Apple iOS and Android wifi settings for the Wifi Box:*



4. The LNK (wifi link) indicator on your AppLamp Wifi Box lights up when a successful Wifi connection is made.



5. Open the "Wifi Controller"



- Optionally you can give the Wifi box another name, next to **Name** In this example we use the chosen name "**wifibox**"

- Next to **IpAdress** you carefully type over this adress: **192.168.1.**<u>100</u>

(!) Attention for users with Apple devices:

The last 3 digits of the **IpAdress** are in some cases by default set to 192.168.1.<u>101</u> This must be set to 192.168.1.<u>100</u>

- The **Port** number must be set to **50000**

- If you want to change any of these settings later, you can click on the blue arrow next to the name of the Wifi box.

€	
wifibox	
	$\mathbf{>}$
Add	

If you want to change the default WIFI network name "wifi_socket" or set up a more secured WIFI connection, you can continue to the next chapter.
 From now on you can link and control your lights (see section 2. and 3.)



4.3 Security and network name of the Wifi Control Box (optional)

In this chapter we change the default network name "wifi_socket" of the Wifi Box and make the wifi connection secured. To avoid confusion: the adjusted settings and network names that we use here are entirely separate from your WiFi home network / router. We establish a direct (adhoc) wifi connection from your device to the AppLamp WiFi Box.

If you are a more advanced user, you can also integrate the AppLamp Wifi Box in your home network (infrastructure) while maintaining a wifi internet connection on your device (see section 4.4)

If you make a configuration error in the following steps and the wifi connection fails, you can always reset to the default factory settings.

Use a thin object to reach the RST reset button on the right side of the Wifi Box, press and hold for 5 seconds (*see Figure 4.2*)

- 1. Connect your device to the AppLamp Wifi Box as described in section 4.2
- 2. Open a web browser on your device and enter the following page address: http://192.168.1.100
- 3. You will be prompted for a username and password. Log in with the default data:
 - Username: admin and
 - Password: 000000 (six times zero)

Sign in to 192.168.1.100		
Name		
admin		
Password		
000000		
Canaal	Cian in	
Cancel	Sign In	



4. You are now logged in on the AppLamp wifi box and looking at the basic settings. We can now adjust the wifi settings.

Bas	sic	(default)	Ba	^{sic} (reconfigured)
	Wireless Settin	igs		Wireless Settings
Work Type : SSID :	AP vifi_socket		Work Type : SSID :	AP applamp_home
Encryption: Key Format:	Disable ASCII		Encryption : Key Format :	WEP128
Key Index :	0 1 0 2 0 3	• 4 IIII	Key Index :	1 2 3 4 4
Encryption Key :	0		Encryption Key :	password12345
				Save

The SSID network name in this case is completely separate from your WiFi home network / router!

- 5. Set **Work Type** to **AP** (Access Point)
- 6. Change the default SSID network name "wifi_socket" in a new network name of your choice. Do not use spaces and only use the following characters: a to z, A to Z, 0 to 9, or _ In the example we use a custom network name: applamp_home
- 7. Always set Encryption WEP128, Key Format to ASCII and Key Index to 1
- For Encryption key, choose your own password of 13 characters without spaces: a to z, A to Z, 0 to 9, or _ In the example for the Encryption key, we use *password12345*
- 9. Click on Save
- 10. In the left menu go to **System** and click **Restart System**, now wait a few seconds before continuing.
- 11. Now you can connect your tablet or smartphone through Wifi to the AppLamp Wifi Box with the newly created network name applamp_home. We now have WEP security encryption and password protection. After connecting, the LNK (link Wifi) indicator on your AppLamp Wifi Box lights up. You can now launch and use the APP on your device.

Instellingen Wi-Fi-netwerken	
Wi-Fi	
Kies een netwerk	
✓ applamp_home	? ()





4.4 Integrating the Wifi Box in your home network (optional,advanced)

In this chapter we setup the Wifi Box to become part of your home wifi network (infrastructure). The advantage over the direct connection to the wifi Wifi Box is that you retain internet access on your smartphone or tablet because it remains connected with the home network.

Configuring the following steps requires some network knowledge. If you do not orhardly have this knowledge, we help you get started. You will then need the documentation provided with your router..

If you make a configuration error in the following steps and connecting the Wifi Box failed (LNK LED does not light up or the Wifi Box does not respond to the APP caused by incorrect IP settings), you can always reset to the default factory settings. Use a thin object to reach the RST reset button on the right side of the Wifi Box, press and hold for 5 seconds (see Figure 4.2)

- 1. Establish a connection with your tablet or smartphone via the wifi settings to the AppLamp Wifi Box as described in section $\frac{4.2}{2}$
- 2. Open a web browser on your device and type in page address: http://192.168.1.100
- 3. You will be prompted for a username and password. Log in with the default data:
 - Username: admin and
 - Password: 000000 (six times zero)

Sign in to 192.168.1.100		
Name admin		
Password 000000		
Cancel	Sign in	



4. You are now logged in on the AppLamp wifi box and looking at the basic settings. We can now adjust the wifi settings to match those of your wifi home network / router:

Bas	sic	
Wireless Settings		
Work Type:	Sta 🔻	
SSID :	HomeNetwork	(example)
Encryption :	WPA2-PSK(TKIP) 🔻	(or WPA / WEP)
Key Format :	ASCII 💌	(or HEX)
Key Index:	◎ 1 ○ 2 ○ 3 ○ 4	(only for WEP)
Encryption Key :	WifiPassword	(example)
	Save	I

- Set Work Type to STA (station)
- Change **SSID** to the exact network name of your Wifi home network / router. This name can not contain spaces or strange characters. In the example we use a home wifi network with an SSID named as HomeNetwork.
- **Encryption** must be set to the same type of security settings on your WiFi home network / router. A modern router often uses WPA2-PSK (TKIP)
- **Key Format** from your password depends on your router settings, this must be **ASCII** or **HEX**.
- **Key Index** is only relevant if your encryption type is set to **WEP**, usually it has the be set to **1**. You can skip this step for Encryption types **WPA** or **WPA2**.
- **Encryption key** is is the password of your WiFi home network / router. Do not use spaces or strange characters here either. In the example we use a home wifi network with a password named *WifiPassword*



5. Click on **Save** under the custom made **Wireless Settings** and proceed to the **Network Settings**

Basic	:	
· · · · · · · · · · · · · · · · · · ·	Wireless Setting	zs
Ν	Network Setting	S
	DHCP Enable	
Fixed IP Address :	192.168.2.100	
Subnet Mask :	255.255.255.0	(example)
Gateway Address:	192.168.2.1	
DNS Address:	192.168.2.1	
DNS Name(AP):		
Save		

- 6. Nu Under network setting we can now assign an IP address to the wifi box, so that it can be approached via the WiFi home network. Copy all network settings of your wifi router and assign a unique Fixed IP Address to the Wifi Box. You have to use this fixed IP address in the wifi setting of your APP:
- Disable the check box next to **DHCP enable**
- To construct the Fixed IP adress, as a starting point use the IP address of your router and adapt it as described below (look this up in the documentation of your router). From this IP address you now change the last digits in 100 (or another free number within your network). In this example we use a router with IP address 192.168.2.1. We change it to 192.168.2.100. However, depending on your router this could also be: 192.168.0.100, 192.168.1.100, 123.123.123.100, 10.10.10.100,
- **The Subnet mask** usually is **255.255.255.0**, but in exceptional cases it can be different.
- **The Gateway Address** and **DNS address** are the same as the IP address of your wifi router In the example we assume a wifi router is set to **192.168.2.1**



- 7. Click on **Save** under the adjusted **Network Settings**
- 8. Go to **System** in the left menu and click **Restart System**, now wait a few seconds before continuing.
- 9. If the wifi connection is configured properly, the **LNK** (wifi link) indicator lights up on the on the AppLamp Wifi Box.

TIP:

When you reboot the Wifi box and the LNK indicator does not light up after a few seconds, there is a configuration error in the WIFI settings. Make sure there are only alphanumeric characters in the SSID network name and password. If you're using WPA or WPA2 encryption, you could try another type from these. It makes no sense to try other IP settings before the LNK indicator is lit. Reset the box and try again.

 Based on the new Fixed IP Address, you can now use the APP on your tablet or smartphone. If your router on this IP is different from the default factory IP (192.168.1.100), then you need to set the new IP address in the settings of the APP.

TIP:

The default name "Username" in the APP refers to a Wifi Control Box with a specific IP (default: 192.168.1.100). You can change the "Username" for your needs. You may want to add multiple "users" or Wifi Boxes by creating different profiles with other names and (fixed) IP adresses.



