

# ***Plknight***



## ***wifi-dmx EasyNode box-512***

User Manual

**Introduction:** Congratulations and thank you for purchasing the Pknight WiFi-DMX EasyNode box-512. The box is a wireless or wired bridge between your WiFi device and all lighting products equipped with DMX512.

## **Customer Support:**

Pknight provides a toll free customer support, to provide set up help and to answer any question should you encounter problems during your set-up or initial operations. You may also visit us on the web at [www.Pknightpro.com](http://www.Pknightpro.com) for any comments or suggestions.

E-mail : [info@pknightpro.com](mailto:info@pknightpro.com)

We will contact you within 24 hours

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### **\*FACTORY SETTING\***

**Wireless network settings:**

**Default IP Address:192.168.4.1**

**Default Hotspot Password:PKNIGHT.WIFI**

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**Wired network settings:**

**Default IP Address:192.168.1.x**

(x can be any number between 2-254)

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## The app we can use:

APP	iOS	iPad	Android	Mac	Windows
WIFI-DMX PRO	✓	✓	✓	own production free app	
Luminair 4	✓	✓			
Stellar	✓	✓	✓		
Photon		✓			
StageLight		✓			
Blackout Lighting Console		✓			
vibrio		✓	✓		
LightRider		✓			
FreeStyle					✓
QLC+				✓	✓
Lightkey				✓	
LXConsole				✓	
Madrix				✓	✓
Chameleon				✓	
LightFactory					✓
arkaosmediamaster				✓	✓
Lightforge					✓
TOUCHDESIGNER				✓	✓
Jinx!LED Matrix Control					✓

\*note\* There are many other apps not on the list





## 1 DMX Input Port

When there is an external DMX signal input, the DMX signal will be converted to artnet or sACN signal

## 2 DMX Output Port

The artnet or sACN signal is converted to DMX signal to control our dmx fixtures

## 3 Power Port (5V DC)

#### 4 Reset Button

- Short press this button, and the controller will change the WiFi frequency. \*Refer to page 5\*
- Restore factory setting: turn off the power, then press and hold the "RESET" button, turn on the power, and wait for 5 seconds the box will restore the **factory setting** \*Refer to page 1\*

#### 5 Wireless Signal Channel Indicator

#### 6 Antenna for **wireless mode**

#### 7 RJ45 Port for **wired mode**

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### How to restore the factory setting



SCAN ME

Video Tutorial

# led indicator diagram



## \*note\*

- **Only Wireless signal indicator blinks fast.**

1 .The box is working *in the wireless mode* or

2.*In the wired mode*, this box is converting the DMX signal to the artnet or sACN signal

- **Both indicators blink fast**

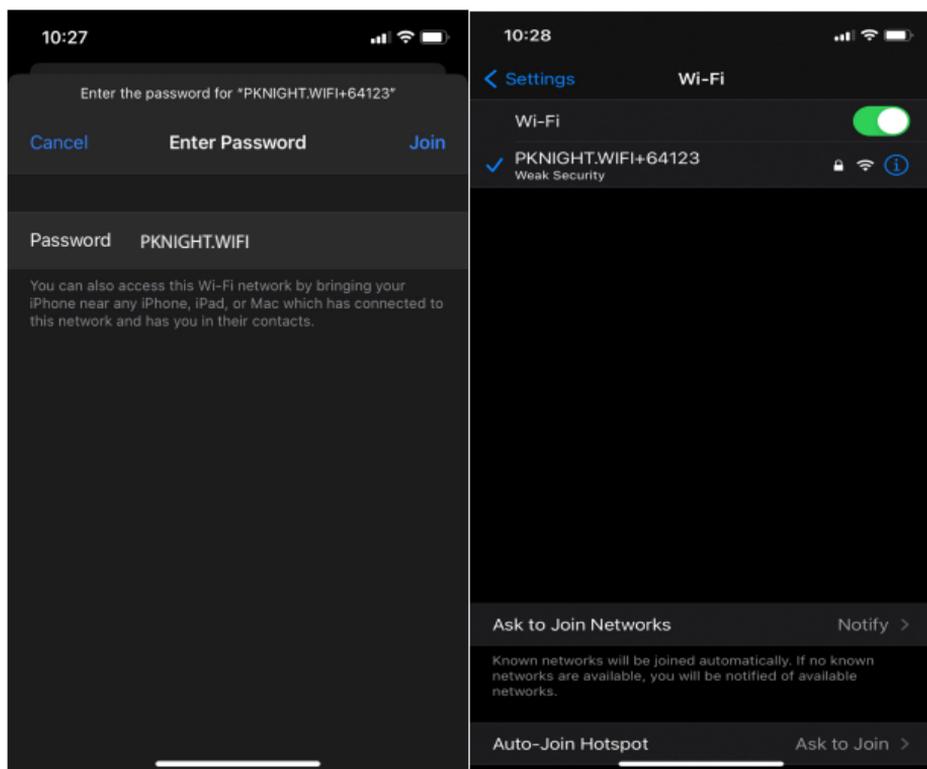
*In the wired mode*, this box is converting the artnet or sACN signal to DMX signal

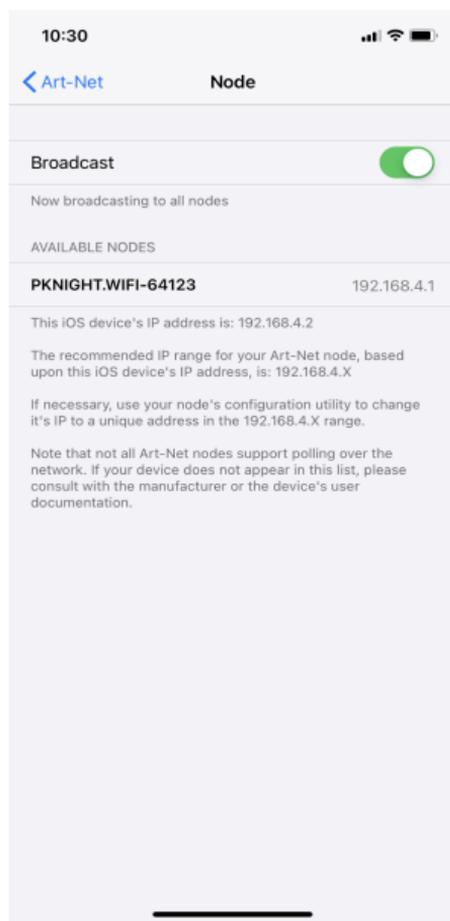
- **Both indicators blink slowly**

*Standby mode*

## Wireless mode

Turned on the Pknight® WIFI-DMX EasyNode Box-512, you should be able to find the “PKNIGHT.WIFI.64123” network using the Wi-Fi settings on your mobile network equipment. (\*note\*The red number 64123 is the unique identification of this controller) The default password to join is “PKNIGHT.WIFI”.After joining the network you can start the DMX app. The figure below is the interface of luminair.





Here we have completed the work of signal connection, if you want to change this controller WiFi name and password, open the web browser of your device and enter 192.168.4.1, a view will appear similar to the following figure.

**\*note\*** It is recommended that you change the name or password or both for the security of your lighting system.

## WiFi SETTING

AA192.168.4.1↻

**WiFi-DMX ArtNet & sACNtoDMX & RDM**

(DEVICE STATUS)	(WiFi)	(IP & NAME)
(PORT) A	(SCENES)	(FIRMWARE)
(REBOOT)		

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### (WiFi Settings)

Save Changes

**(MAC Address):**  
94:B9:7E:87:F6:7C

**(Wifi SSID):**

**(Password):**

**(Hotspot SSID):**  
PKNIGHT.WIFI+64123

**(Password):**  
PKNIGHT.WIFI

**(Start Delay):**  
 (seconds)

**(Stand Alone):**

*(In normal mode, the hotspot will start after delay seconds if the main WiFi won't connect. If no users connect, the device will reset and attempt the main WiFi again. This feature is purely for changing settings and ArtNet data is ignored.)*

- ① If you want to connect an external router, you need to enter the router's WiFi name and password, and not only that, you need to make sure the checkbox( ④ ) is not checked if you want to make this connection take effect.
- ② Here is the controller itself WiFi or hotspot information, it can be customized, The network name can be 1-32 characters in length and the password can be 8-16 characters in length. Only alphanumeric characters or space characters are allowed.  
**If you forget the WiFi password, you can go back to page 4 and restore factory settings.**
- ③ If the wifi of the external router cannot be connected, the hotspot will start after a delay of 25 seconds. It can also be customized.
- ④ Check the independent mode to disable the router's WiFi connection and allow data to be received through its own hotspot. Usually, we use it as a switch to disconnect the router's WiFi and use its own hotspot to connect with other devices.

**Turn off the power and then turn it back on for the changes to take effect.**

## Wired mode

The Pknight® WIFI-DMX EasyNode Box-512 is factory configured to be a bi-directional device in the wired mode, It also can be set as a DHCP node, so you can plug it into your existing router, and it's good to go.

Pknight provides a free application (available for Windows) called **EasyNode Box Configurator**, which will find the EasyNode Box-512 on your network and display its IP address.

The EasyNode Box-512 also can be configured and controlled through a web browser, running on a computer system, located on the same Local Area Network. Any modern web browser, such as Chrome, Firefox, Internet Explorer, Safari or Opera, running under any operating system, including Mac OS X ,Windows 7/8, or Linux can be used.

It is recommended to use the application (**EasyNode Box Configurator**) to set it up.

With this application, users can modify the IP address or set the DHCP option or use it as a simple dmx console. The incredible thing is that our device supports RDM<sup>\*beta</sup>, you can remotely modify the dmx settings of our fixtures.



download the  
**EasyNode Box Configurator**



ONLY FOR WINDOWS

**A** SCAN ME

## What can we do with EasyNode Box Configurator

### • **Bidirectional Artnet/sACN-DMX Controller**

*Supports artnet and sACN protocols for bidirectional transmission, supports custom static ip, supports custom universe, supports enabling DHCP options*

### • **RDM** <sup>Beta</sup>

*Supports Remote Device Management (RDM) protocols to Configure the properties of fixture.it will be very fast.*

**This feature is still under beta testing**, we do not guarantee that all manufacturers's fixtures can be set up successfully.

### • **DMX Console**

*After configuration, you can use this feature to Check whether the configuration is successful.*

### • **DMX Live View**

*Detection of the values of all DMX channels*

## Bidirectional Artnet/SACN-DMX Controller

Artnet-DMX V1.0.33

Find Node Discover FDM Delete

Network: 192.168.1.255

NIGHT WIFI by Pknight-13593MAC:E8:31:CD:8E:3E:2C

Art-Net RDM DMX VIEW

MAC: device-1-E8:31:CD:8E:3E:2C

IP Type: Static IP

IP: 192.168.1.25

Mask: 255.255.255.0

Gateway: 0.0.0.0

Universe: Read Write

Read IP Write IP

1	0	2	0	3	0	4	0
5	4	6	5	7	6	8	7

Read Write

```

4P 192 168 1 25 OpPknight PRODUKT WRT by Pknight-13593MAC:E8:31:CD:8E:3E:2C
Q 192 168 1 25 OpPknight WRT by Pknight-13593MAC:E8:31:CD:8E:3E:2C
Find node...
4P 192 168 1 25 Artnet FullLength: 18
4P 192 168 1 25 OpPknight PRODUKT WRT by Pknight-13593MAC:E8:31:CD:8E:3E:2C
4P 192 168 1 25 Artnet OpPknig Length: 4
4P 192 168 1 25 OpPknight WRT by Pknight-13593MAC:E8:31:CD:8E:3E:2C
4P 192 168 1 25 OpPknight WRT by Pknight-13593MAC:E8:31:CD:8E:3E:2C
  
```

The screenshot displays the RDM Beta software interface. At the top, the title bar reads "ARDM-DMX V1.0.33". The main menu includes "Find Node", "Discover RDM", and "Delete". A "Network:" dropdown is set to "192.168.1.255". A green status message at the top right says "Device has 1 response for RDM by Pknight EasyNode".

The central panel shows device details for "device 1 UID:0x515275647112 Uni:0":

- UID: device 1 UID:0x515275647112 Uni:0
- Device Name: Par
- Device MODEL: 826
- Manufacturer: ZCX
- Category: Dimmer
- DMX Footprint: 16
- Personality: Mode 2
- DMX Address: 1

At the bottom, there are "Read" and "Write" buttons. A "Cancel" button is located at the bottom right. A terminal window at the bottom shows the following command responses:

```
>>> 192.168.1.255  
>>> GET E120_DEVICE_LABEL.  
<<< 192.168.1.255 RDM_GET_COMMAND_RESPONSE PRO 0x0002  
address 10x515275647112 Uni:0  
>>> 192.168.1.255  
>>> GET E120_MAKER_FACTURER_LABEL  
<<< 192.168.1.255 RDM_GET_COMMAND_RESPONSE PRO 0x0007  
address 10x515275647112 Uni:0  
>>> 192.168.1.255  
>>> GET E120_DEVICE_MODEL_DESCRIPTION  
<<< 192.168.1.255 RDM_GET_COMMAND_RESPONSE PRO 0x0006
```

# RDM \*Beta\*

## DMX Console

ArtNet-DMX V1.0.33

Find Node Discover RDM Delete

Art-Net RDM DMX VIEW

Network: 192.168.1.255

119 69 173 97 192 136 179 162 203 0 0 0

Fade ms: 1000  
Hold ms: 1000

Se... fade hold  
Sen... 1000 1000  
Sen... 1000 1000

1 2 3 4 5 6 7 8 9 10 11 12

Universe: 0 clean Add minus Run

```

->IP 192.168.1.255
->GET 2120, DEVICE_LABEL
->IP 192.168.1.255 RDM_GET_COMMAND_RESPONSE PRO-00000
-Response 1.0x192.168.1.112 1x0
->IP 192.168.1.255
->GET 2120, MANUFACTURER_LABEL
->IP 192.168.1.255 RDM_GET_COMMAND_RESPONSE PRO-00000
-Response 1.0x192.168.1.112 1x0
->IP 192.168.1.255
->GET 2120, DEVICE_MODEL_DESCRIPTION
->IP 192.168.1.255 RDM_GET_COMMAND_RESPONSE PRO-00000
  
```

## DMX Live View

ArtNet-DMX V1.0.33

Find Node Discover RDM Delete

Art-Net RDM DMX VIEW

Network: 192.168.1.255

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ARTNET ETHERNET

Universe: 0

```

->IP 192.168.1.255
->GET 2120, DEVICE_MODEL_DESCRIPTION
->IP 192.168.1.255 RDM_GET_COMMAND_RESPONSE PRO-00000
->IP 192.168.1.5 OpDmx 120
RDM
->IP 192.168.1.5 OpDmx 100
RDM
Device 0
RDM
Device 0
RDM
Device 0
RDM
Device 1
  
```

# Tutorial for using the application

