

## LED TV backlight user manual



## About

Use this manual as a guide for application. The photographs, graphics, charts and illustrations and other information are only for the purpose of interpretation and illustration. If there is difference, please refer to the actual product.

Due to product version upgrade or other needs, we may update this manual. If the

latest version manual is needed, please contact our aftersales service.

#### Declaration of liability

To the fullest extent permitted by law, the products described in this manual(including their hardware, software, firmware, etc.) are provided as the product. We make no warranties of any kind/express or implied, including but not limited to warranties of merchantability, satisfactory quality, fitness for a particular purpose, non-infringement of third party rights, etc.; nor shall it be liable for any special ,incidental, incidental or consequential damages arising out of the use of our products, including, but not limited to, damages arising for loss of business profits, loss of data or documentation.

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conjunction with an illegal product or for other improper purposes such as infringing the rights of third parties.

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## Overview

"Urquhart box" aims to provide a set-top box colored light bar capable of independent integrated control to solve the problems introduced in the background of the related technology. With the development of science and technology, people's requirements for material life become higher and higher, especially electronic products can facilitate people's life and improve the quality of entertainment and cultural life. Of course, the prices of electronic products vary according to their different functions and quality. In order to improve the visual

experience, colored light bars are installed on the television bodies of some branded televisions, the colored light bars are connected with control units of the television bodies, and the video display effect is improved through HDMI output so as to set off the atmosphere. However, in order to save production costs, colored light bars are not installed on relatively cheap televisions. According to the existing technology, colored light bars independently controlled by independent control units can hardly be used to match video display, the effect of setting off perfect atmosphere cannot be achieved, and the use requirements of users cannot be met. Therefore the set-top box colored light bar capable of independent integrated control is designed and produced so as to solve the above problems.

#### Features

- 1, Immersive entertainment experience : When you are playing a game on TV , the ambient lighting reacts to the content onscreen in real time, Bringing you a perfect immersion home entertainment experience, you can use as living room decor/gaming room decor to enhance your gaming experience or party ambience.
2. Smart dynamic light effect : The LED light strip consisting of RGBIC light beads. The smart chip in the sync box will recognize the colors on your TV screen, then accurately reflected in your TV's surround lighting , and track the content changes onscreen in real time, to bring you an immersive visual enjoyment and a fancy lighting experience.
3. Easy to install and use : We have 3 sizes of strip light versions , to meet different TV sizes. Light strips with adhesive can be quickly and firmly installed on all four sides

of the behind of your TV , and no camera and no calibration required,the whole installation process takes no more than 10 minutes.On the sync box we have 2 physical buttons for your basic functions,or use the app to get more.

4. High Compatibility:The sync box works with your gaming consoles/set-top boxes/streaming dongles or other HDMI devices such as ps5 or ps4, xbox, switch,n64, wii,Amazon Fire Stick, Apple TV,etc. .And have 3 hdmi inputs ,can access 3 hdmi devices at the same time,then use the app to switch the devices instead of plugging and unplugging frequently.Additionally, an hdmi splitter is included in the package to help solve possible problems with the audio/video output.

5. Personalized APP settings:The Urquhart+ app links with Urquhart box by wifi. Though the app , you can adjust the position of the color pickup onscreen to better suit different TV images , Except for the video mode, It also provide 6 ambience modes to customize colors, brightness, and flashing patterns , helping create the different ambience

# Composition



# Specification

| Model     | Item             | Size ( unit : mm )       |
|-----------|------------------|--------------------------|
| Project X | LED TV backlight | 109 (L) ×102 (W) ×19 (H) |

# Scenarios

This product could be used in living room, bedroom and gaming room

# Performance

|              |          |                  |
|--------------|----------|------------------|
| Product Name |          | LED TV backlight |
| Model        |          | Project X        |
| Interface    | HDMI Out | Video Output     |

|                                  |                          |                                                                                                                                                                                                           |
|----------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                  | Audio Interface          | Audio Output                                                                                                                                                                                              |
|                                  | Light Strip Interface 1  | Connect the RGB LED light bar                                                                                                                                                                             |
|                                  | Type-C Interface         | Communication interface (for program updates)                                                                                                                                                             |
|                                  | Power Connector          | DC 12v/2A                                                                                                                                                                                                 |
|                                  | Light Strip Interface 2  | Connect the RGB LED light bar                                                                                                                                                                             |
|                                  | HDMI In 1                | HD audio and video input 1                                                                                                                                                                                |
|                                  | HDMI In 2                | HD audio and video input 2                                                                                                                                                                                |
|                                  | HDMI In 3                | HD audio and video input 3                                                                                                                                                                                |
| Light strip                      | Light Strip Model        | 01.08.1405                                                                                                                                                                                                |
|                                  | Light bead type          | 02-SK6812-001                                                                                                                                                                                             |
|                                  | Video Decoding           | 5V                                                                                                                                                                                                        |
|                                  | Maximum power            | 24W                                                                                                                                                                                                       |
|                                  | Applicable TV size       | 65”                                                                                                                                                                                                       |
| Audio and video codec parameters | Video output resolution  | HEVC MP 1080p@30fps<br>H.264 Baseline 1080p@30fps<br>H.264 MP/HP1080p@30fps<br>H.263 1080P@30fps<br>MPEG-4 SP/ASP 1080P@30fps<br>DIVX 3/4/5/6/HD, XVID 1080p@30fps<br>VP8 1080P@30fps<br>VC-1 1080P@30fps |
|                                  | 2-channel video decoding | Support, One channel 1080P@30fps and one channel 720P@30fps                                                                                                                                               |
|                                  | 3D Video                 | Support                                                                                                                                                                                                   |
|                                  | Video Encoding           | H.264 HP 1080P@30fps                                                                                                                                                                                      |
| Box                              | Size                     | L: 109 mm, W: 102 mm, H: 19 mm                                                                                                                                                                            |
|                                  | Net weight               | 122g                                                                                                                                                                                                      |
| Other parameters                 | Input Voltage            | AC 100—240V, 50Hz/60Hz                                                                                                                                                                                    |
|                                  | Power consumption        | Average working power consumption≤5W<br>Standby power consumption≤2W                                                                                                                                      |
|                                  | Environment              | 0 ~40 ° C                                                                                                                                                                                                 |



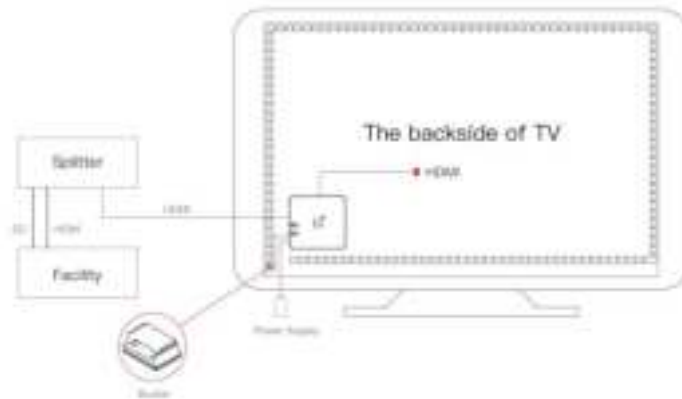
|  |                      |      |
|--|----------------------|------|
|  | Temperature          |      |
|  | Environment Humidity | <95% |

# Instructions

## 1.Device Connection

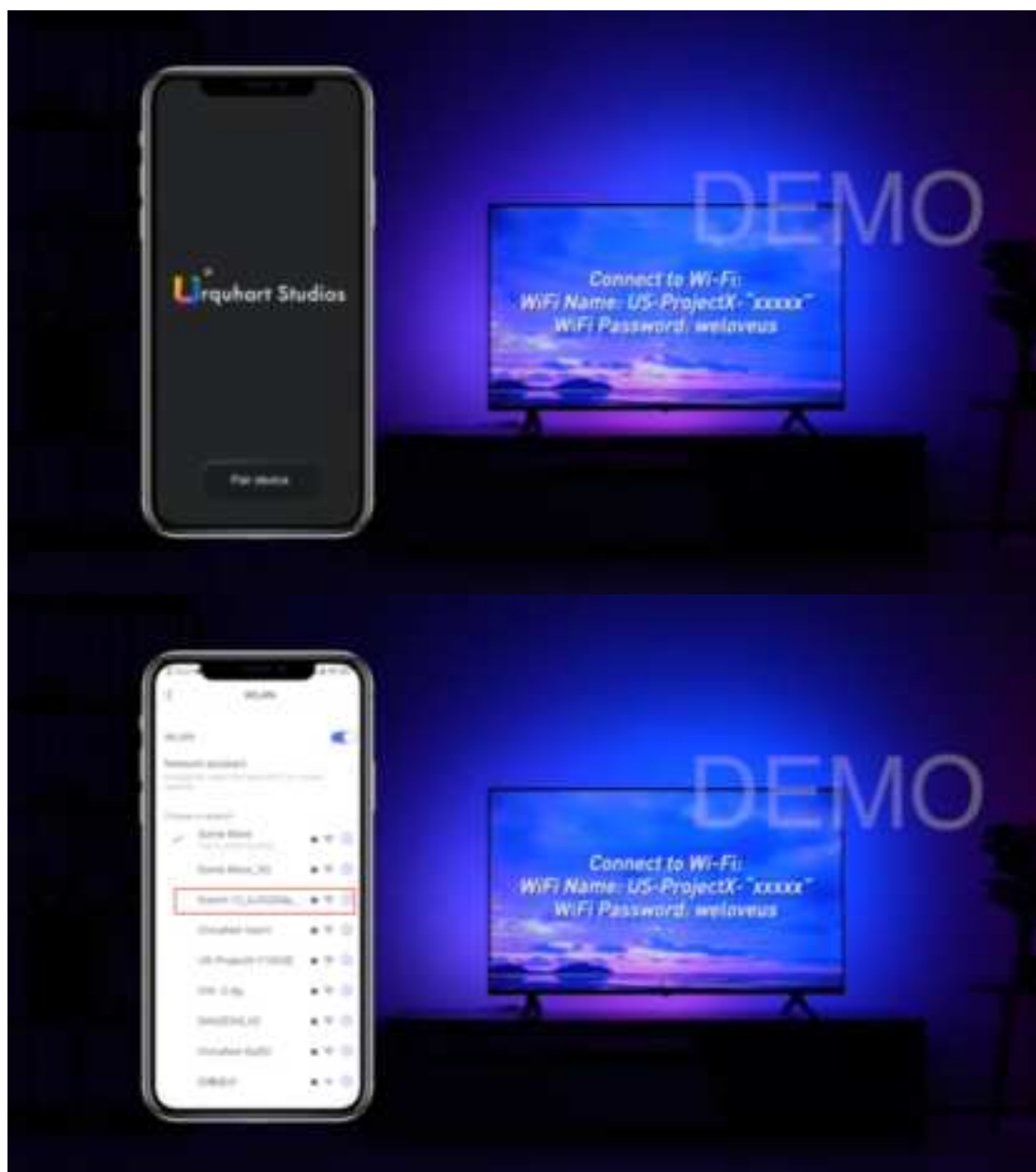
- ① **Preparation Before Installing:**  
Unbox and check all items listed above.

- ② **Installing Steps:**
  - a. Wipe the installation surface to ensure it is dry and clean.
  - b. Stick the Led strips to the backside of the TV on a proper position and press them firmly.
  - c. Use 3M sticker to stick the box in the lower left corner of the TV and connect the Led strip to the box.
  - d. Device connect



## 2.APP instructions

- a) Connect to Wi-Fi



b) Select TV Size



c) 6 Ambient Mode



d) Custom Color



e) Brightness Adjustment



f) Switch Back to Video Mode



g) Adjust color picking postion



h) HDMI Channels Swtiching



### **Cautions**

1. If the lighting color is displayed incorrectly or not aligned to the screen, you can try :
  - a. Reset the TV size setting.
  - b. Click the reset frame button.
2. If the lighting color synchronization becomes obviously delayed, try restarting the box to release the cache.
3. Can not always shine white light, will lead to excessive current, triggering overload protection mechanism.
4. The first time you use it, you need to set the TV size, the box will restart after setting, the TV will lose the signal and then reconnect.

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## **FCC Requirement**

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.