Sauna LED Lightbar System Installation Manual

White LED Lightbar

LED Lightbar Package Contents:

RF Driver / Receiver
(qty. 1)

Power Supply
(qty. 1)

Dimming Remote
(qty. 1)

2-Pin 4-Way Cable
(qty. 1)

2-Pin 30' Cable
(qty. 1)

AC Power Cable
(qty. 1)

Adjustable Mounting Clips
(qty. 3)

Stationary Mounting Clips
(qty. 3)

White Led Light Bar
(qty. 1)

Installation Recommendations

Please read this manual in its entirety prior to installation.

IMPORTANT The RF Driver and Power Supply may be installed outdoors but must be protected from rain and snow. RF Driver and Power Supply should be installed in a waterproof electrical enclosure.

IMPORTANT When installing the RF Driver and Power Supply inside the sauna, **maintain a minimum distance of 20" from heat source and a maximum height of 20" off floor or in path of fan.**

IMPORTANT If installed inside the sauna, the RF Control must be mounted **no higher than 3' off the finished floor and a minimum of 2' away from heat source.**

IMPORTANT Consider light placement carefully. Each fixture should be placed to avoid direct contact with the bathers eyes.

Electrical Requirements

- A 120V AC electrical outlet is needed to power the lighting system.

- Your electrician will determine the type of electrical outlet, box, and piping to be used.

- All wiring must be done in accordance with national electric code and local building codes by a certified electrician.

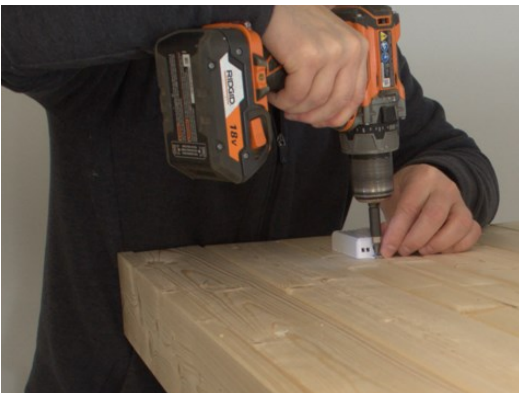- Improper voltage or connections will damage the components and void warranty.

STEP 1.

Mount RF Driver / Receiver

Using 2 screws mount RF driver to desired surface. Driver should be mounted in a dry accessible location for service.

Note: Do not install within 20" of sauna heater and a maximum of 20" off floor.

Connect 2-Pin 4-Way Cable

Locate 2-Pin 4-way cable and connect single end to 2-Pin Pigtail of Driver.

STEP 3.

Run 2-Pin 30' Cable

Run 2-Pin 30' light cable from Driver to LED light bar. At Driver connect to one of the 4 leads on 2-Pin 4-Way cable

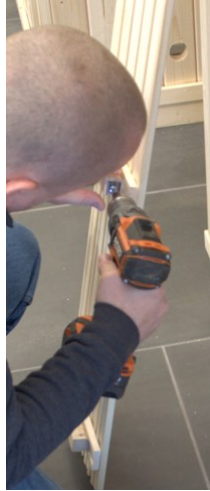**Note:** Repeat this step if installing more than one light.

STEP 4.

Install Mounting Brackets & LED Light Bar

Determine the location where LED light will be installed. Screw Mounting Clips to surface ensuring even coverage of light fixture. Carefully snap LED light bar into each clip.

Backrest installation shown in images below using stationary clips.

STEP 5.

Connect 2-Pin 30' Cable to Light Bar

Connect light cable end to lead off light bar.

Note: Repeat this step if installing more than one light.

Install Power Supply

Connect AC power cord cable to power supply block. Place power supply near RF driver. Connect DC cable end from power supply and connect into RF driver DC IN port.
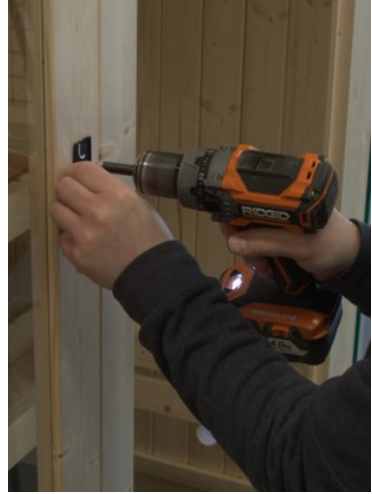
Dimming Control Installation

RF Remote includes a wall mount holder for storing. Take holder and separate back mounting plate from holder. At mounting location screw mounting plate to surface. Slide holder from top down onto mounting the plate.

STEP 8.

Startup & Testing

- Verify that all connections are secure and complete before proceeding.
- Ensure DC-out end of Power Supply is plugged into DC-in of the Driver.
- Plug AC power cable from the Power Supply into a 120V AC electrical outlet.
- Verify that the Driver powers on. The indicator light will flash purple rapidly for approximately 20 seconds.

STEP 9.
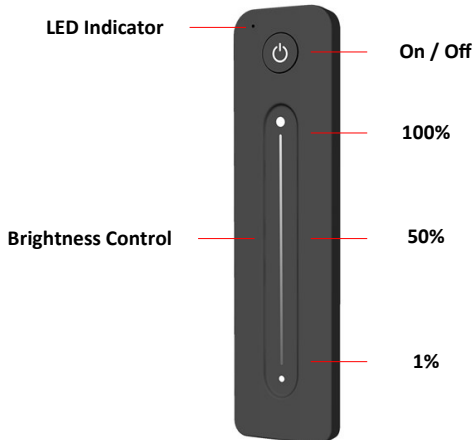
RF Driver & Dimming Remote Programming

Note: RF Driver is preprogrammed. Follow steps below if programming is needed.

1) Press and hold the Match button until the Run Indicator light changes to white. **Note:** The Run indicator will turn off, then rapidly flash purple. White run indicator will be after Blue.
2) Release the Match button, then short press once to save programming.
3) Grab remote then on Driver press match button once then quickly press the power button on remote.

   Note: If you encounter any issues during startup and testing proceed to trouble-shooting steps.

Control Operation

Follow the steps below for control operation. After 30 seconds of inactivity the remote will enter sleep mode. To wake up the control, press any button.

LED Indicator

On / Off

100%
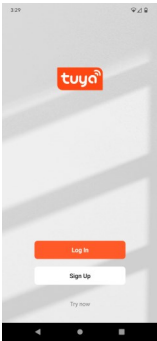
Brightness Control

50%

1%

Wi-Fi Setup

On IOS or Android download the Tuya Smart App

To set up Wi-Fi operation follow the steps below
Note: Wi-Fi Driver supports 802.11 b / g / n 2.4 GHz Wi-Fi standard. The Wi-Fi Driver will not connect with 5 GHz network
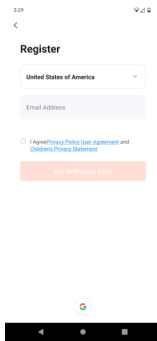
Step 1
Open Tuya app and press Sign Up to create an account.

Step 2
Enter an email address to register an account
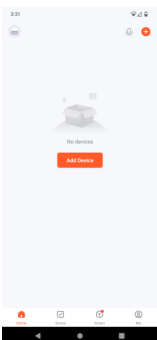
Step 3
Check email and enter verification code
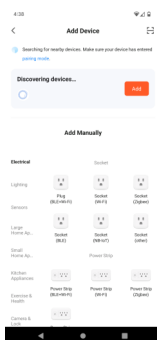
Step 4
Create a password

Step 5
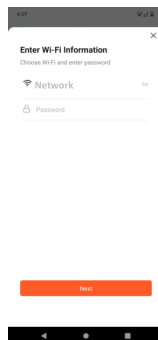Main screen press *Add Device*

Step 6
Press *Add* next to Discovering Devices

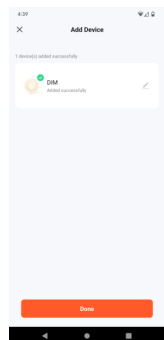### Step 7
Select your Wi-Fi network

Step 9
Device added successfully, press done to complete setup

Specifications

RF Driver/Receiver

Operating Voltage:	24V DC
Rated Out Current:	5CH, 3A/CH
Output Voltage:	12-24V DC
Max Output Power:	5Ch X 72W
Operating Temp:	-22°F - 131°F
Dimensions:	4.48"L x 1.49"W x .78"H
Light Capacity:	4 Lights / 20' (per Driver)
IP Rating:	IP20
Certifications:	CE. EMC, LVD, RED

Power Supply

Input Voltage:	120VA C
Output Voltage:	24V DC
Rated Power:	120W
AC Current:	1.4A
DC Current:	5A
Operating Temp:	-22°F - 158°F
IP Rating:	IP20
Certifications:	UL, CE, FCC

RF Remote Single-Zone Dimming

Output Signal:	RF (2.4GHz)
Operating Voltage:	3V DC (CR2032)
Power Consumption:	5mA
Dimming Range:	1% - 100%
Signal Distance:	98FT
Dimensions:	5.47"L x 1.41"W x .43"H
Operating Temp:	-22°F - 131°F
Zones:	1 Zone Single Color
IP Rating:	IP20
Certifications:	CE, EMC, LVD, RED

LED Light Bar Specifications

Kelvin: 3500k	Operating Temp: -10°F to 194°F	Max Run: 4 Light Bars / 20 Linear Feet	IP Rating: IP67

PART NUMBER	Operating Voltage (VDC)	Max Wattage	Lumens	Dimensions (with flush clips)	Dimensions (with adjustable clips)
BP031085 LED White	24V DC	11.32W	1,246	3/4W x 9/16H x 48L	3/4W x 1-1/4H x 48L
BP031086 LED White	24V DC	14.27W	1,571	3/4W x 9/16H x 60L	3/4W x 1-1/4H x 60L

Troubleshooting

No Power
- Verify that the electrical outlet has voltage.
- Check that connections on Power Supply are securely connected.
- Check that the DC barrel plug on the Power Supply is securely connected.

Power but lights not turning on
- Check that the Pigtail cable from the Driver is securely connected and that wiring is correct (see step #1).
- Check that 4-way light cable is secure and connected.
- Check that all 30' cables to lights are securely connected.
- Verify each light functions by testing them directly to the Driver independently.

Note: To test individual light, disconnect 4-way light cable and connect 30' cable directly to Pigtail lead off Driver, or connect light directly Pigtail.
- Verify that RF Remote is paired with Driver, see page #7.

Lights on no function from Control
- Verify battery is inserted correctly.
- Low battery, replace with new battery.
- Check DC power cable from Driver to Control is securely connected.
- Ensure that the distance from the Remote to the Driver is not more than 98 feet. If so, relocate Driver closer to room.

Resetting Driver
The Driver should not need to be reset in normal conditions. If a reset is needed, follow the steps below.
- Verify power to Driver
- Press and hold the Match button for 10-15 seconds until the blue LED indicator flashes rapidly.
  Note: Resetting Driver will clear any paired remotes and require repairing.

Replacement Parts

Description	Part Number
Driver	BP031108
Power Supply/90W	BP031137
RF Control Single-Zone	BP031111
4-Way IP67 2-PIN Splitter	BP031075
2-PIN IP67 Pigtail	BP031073
48" White Light Bar	BP031085
60" White Light Bar	BP031086

Notes:

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Technical Support
(224) 253-5909

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