

# PINNACLE

 Submersible RGBW Tape Light

TL100

## INSTALLING SUBMERISBLE IP69 TAPE LIGHT

### IMPORTANT



**NOT CUTTABLE – IP69 SUBMERSIBLE**  
ANY CUTS MADE ON THE TAPE LIGHT VOID ALL WARRANTY AND WILL NOT BE ELIGIBLE FOR RETURN OR CREDIT.



**Certified to standard UL676**  
Underwater Luminaires and Submersible

## INSTALLATION & WARRANTY NOTICE

The TL100 tape light is a sealed, factory-assembled product and is not field cuttable or modifiable under any circumstances. Any cutting, alteration, modification, or penetration of the product will:

- Immediately void all warranties, expressed or implied
- Compromise the product's ingress protection rating
- Release the manufacturer from any and all liability associated with product performance, failure, damage, or injury

Improper installation, modification, or use inconsistent with the manufacturer's published installation instructions and applicable electrical codes voids the warranty in its entirety. The manufacturer shall not be liable for any direct, indirect, incidental, consequential, or special damages arising from improper installation, misuse, alteration, or unauthorized modification of this product.

## GENERAL INFORMATION

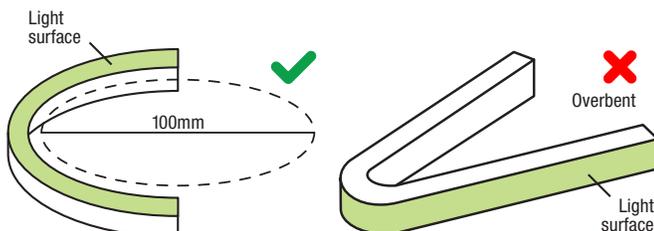
**\*Ensure all wiring connections are tightly sealed and protected inside a weatherproof junction box.**

The tape light come with a 20FT wire lead with an in-line water-block barrier. It is not recommended to cut the 20FT wire lead down to length as this would eliminate the water-block barrier. Ensure to properly secure and tie off the excess wire lead to avoid the wire from being caught, pulled or tripped on. The water-block barrier is a fail safe to protect the wiring compartment from any moisture or water than could get behind the wiring protective jacket.



Submersible TL100 tape light should be installed with provided vertical or horizontal spring steel mounting clips. Ensure to not damage the PVC protective jacket during installation.

Do not overbend the tape light during handling or final installation. Always maintain a bending radius of approx. 4" (10cm). Overbending the tape could cause the PVC jacket to crack during colder months when the PVC becomes more rigid and fragile.



Do not twist the tape light to achieve tighter turns around corners or curves. Always bend the tape along the designed bending axis and maintain a safe bending radius.



**Tape Light must be installed in temperatures above freezing (32°F/0°C).** Installing the tape light in below freezing temperatures can damage/crack the PVC jacket as it will become hard and fragile in these lower temperatures.

When installing the tape light on docks and piles where salt water tides rise and fall, it is important to not install the tape light below the water level at low tide. While the tape light can be submersed and operate below the water line at high tide, it is always recommended to install the tape light above the water level at low tide to avoid barnacle formation and deterioration of the PVC jacket of the tape light over time. **The TL100 tape light can be installed in a submersed application up to 6.5 FT (2m)**

**Annual light maintenance to remove any barnacles that may have formed on the tape light will help reduce the risk of damage and extend the lifetime of the product.**

Tape light must be installed with 24V DC power supply ONLY (sold separately). Recommended to use with the Pinnacle Series MINI driver (TLD24V-MINI-60W or TLD24V-MINI-96). **\*If a weatherproof junction box is not available to protect the driver, you can use any of the 24V wet location drivers (TLD24V-30W, TLD24V-60W, TLD24V-96W, TLD24V-192W or TLD24V-288W**

All color tuning and dimming should be done with the WiFi + RF Controller (TL-WIFI-CTLR). Controller pairs directly to mobile phone app, Smart Life and can be grouped in multiple locations for simultaneous tuning. **\*THE TL-WIFI-CTLR MUST BE INSTALLED AND PROTECTED IN A WEATHERPROOF JUNCTION BOX.**

# WIFI CONTROLLER INSTALLATION GUIDE

FOR ALL WIFI Controller wiring and Smart Life or RF remote pairing to the product, refer to the TL-WIFI-CTLR Instruction Manual on the [ndrlighting.com](http://ndrlighting.com) website.

Scan QR code to download the TL-WIFI-CTLR Instruction Manual

## WARNING

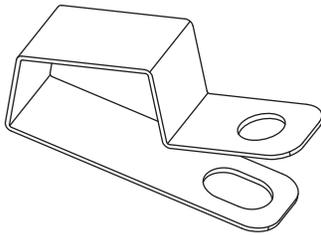
Read and follow instructions to avoid electric shock and achieve a proper installation. Save these instructions for future reference. It is recommended to consult your electrician for all high voltage wiring to the LED Class 2 drivers and connecting all 24V low voltage LED tape light.



## MAINTENANCE & CARE

1. Ensure that the power is disconnected prior to servicing.
2. To keep the finish of this product, wipe with soft cloth periodically.
3. Do not use harsh chemical solvents as it may discolor or damage the finish or lens.
4. Annual light maintenance to remove any barnacles that may have formed on the tape light will help reduce the risk of damage and extend the lifetime of the product.

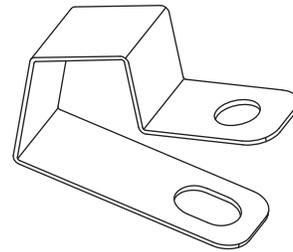
Vertical mounting clip – For up/down lighting (ie around dock pilings)



## BEFORE INSTALLATION

1. Read these instructions carefully before attempting to install this product.
2. Disconnect electrical power before installing or servicing any part of this fixture.

Horizontal mounting clip – For shine out lighting (ie dock edge, swimming pool perimeter, waterfall, etc.)



## DRIVER

24V tape light must always be used in conjunction with a Class 2 rated LED driver. Never connect the tape light directly to high voltage power. Bypassing the driver will damage and burn out the LEDs.

For full range dimmability, we recommend using the NDR LED Class 2 mini drivers (TLD24V-MINI-60W or TLD24V-MINI-96W). The mini drivers must be installed in a weatherproof junction box.

**\*If a weatherproof junction box is not available, use any of the NDR wet location 24V LED drivers (TLD24V-30W, TLD24V-60W, TLD24V-MINI-60W, TLD24V-96W, TLD24V-MINI-96W, TLD24V-192W or TLD24V-288W).**

All dimming for the tape light models connected to the TL-WIFI-CTLR should be done directly through the mobile phone Smart Life app  or with the corresponding RF remote.

The NDR LED drivers are rated for 120-277V input/ 24V output. Ensure to connect the source wires to the input side of the driver and the supply wires powering the WiFi controller to the output side of the driver.

When installing in a wet location, ensure to use proper wet location rated knockout connectors. Failure to use proper connectors can cause damage to wiring compartment and/or to the LEDs on the tape light.

### Cold Weather Tape Maintenance

When installing the tape light on docks in colder climates, ensure to remove the dock from the water to avoid the tape light being frozen in the ice over the winter months. Ensure the dock is stored in a secure location and away from any risk of damage to the tape light during storage.

### RGB Dock Lighting Precaution

This product is decorative lighting only and is not designed, certified, or approved for use as a navigational light or marine signal device.

Red and green light output may be associated with marine navigation markers. Prolonged or improper use of these colors may create confusion for vessel operators and increase the risk of collision or property damage.

Do not use this product to mark channels, hazards, port/starboard locations, or any navigational boundaries. The owner/operator is solely responsible for ensuring compliance with all applicable marine safety regulations.

**Limited Warranty**

The warranty applies to the product from the original date of purchase for five (5) years against manufacturing defects. The owner must provide a copy of the original proof of purchase. The manufacturer's obligation under this warranty is limited to repairing or replacing the component. It is not related in any way to the cost of the connection, the installation of the replacement parts or cost of transport. For all claims, please contact our customer service department at 1-855-739-8228 or e-mail us at [sales@ndrlighting.com](mailto:sales@ndrlighting.com)

**Important Safety Information**

Before installing your light fixture, thoroughly review enclosed installation manual. Check all connections to be sure they are tight and correct. This fixture is not serviceable. Any attempt to disassemble this fixture may cause damage to the product and will void warranty. This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved. If you are unsure about the wiring, installation, or maintenance of this fixture, consult a qualified electrician or local electrical inspector, and check your local electrical code.

**WARNING**

Risk of electrical shock. Turn off the main power at fuse or circuit breaker before wiring the fixture to the power supply.

**CAUTION**

Risk of injury. Some parts of this fixture may have sharp edges. To prevent cuts and scrapes, wear gloves when handling the parts. Account for small parts and destroy packing material, as these may be hazardous to children.

**CAUTION**

Risk of fire. Use only on 120-277 volt 60Hz circuits and connected to 24V Pinnacle Series LED drivers.