



LumaNumbers™ Install Manual



### **House Number Materials Included:**

- 1 x House Number
- 1 x House Number Paper Template
- 2 x ¼" Spacers
- 2 x ½" Spacers
- 2 x Threaded Studs
- 2 x Twist-On Wire Terminals
- 2 x Phillips Screws

### **Mounting plate Materials Included:**

- 1 x Mounting Plate
- 4 x Mounting Screws
- 4 x Plastic Caps (to cover screw holes)

### **Materials/Tools Needed:**

- Marker or Pencil
- Masking Tape
- Drill with 7/32" bit (5/32" bit for installing numbers flush to mounting surface)
- Phillips Screwdriver
- Power Source
- Leveler or Tape Measure (optional)
- Wire Cutter/Stripper (optional)
- Anchor Bolts (optional - may need depending on mounting surface)
- Block of Wood and Rubber Mallet (optional for installing flush to mounting surface)



# INSTRUCTIONS

## 1. Unbox Number

Carefully remove package contents and place numbers on a cloth or towel to prevent scratching during setup.

## 2. Clean Mounting Surface

Clean and prep mounting surface before starting your install.



## 3. Position and Secure Template

Position paper number templates flat against mounting plate/surface then secure with masking tape.

Confirm numbers are properly spaced and leveled.

## 4. Mark Drill Holes

Use a marker or pencil to mark the holes indicated on the template on mounting plate/surface, being sure to penetrate through the paper so that marks are visible on the mounting plate after removing the templates.

*If installing flush to building, skip to step #6.*

## 5. For Installation with Mounting Plate

### a. Drill Holes into Mounting Plate

Drill  $7/32$ " holes as indicated by marks made in previous step for each number on the mounting plate.

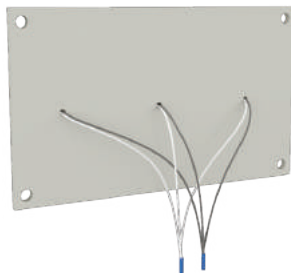


### b. Insert Phillips Screws and Spacers

Turn the Phillips screws [2] through the top and bottom drill holes behind the mounting plate. Determine how much light spread you would like behind numbers then slide the appropriate spacers over the top and bottom screws on the front of the mounting plate until spacers are flush with the plate.

*Note: The  $1/2$ " spacers will emit a broader soft white glow, while the  $1/4$ " spacers will give off a tighter halo effect. Mounting the numbers flush to the mounting plate (without spacers) will create a crisp line around each number.*

## 5. For Installation with Mounting Plate



### c. Mount Number to Mounting Plate

Hold the first number up in front of the mounting plate where you just inserted the threaded studs and spacers and carefully thread the middle wiring through to the back of the wire hole. Then, turn the Phillips screws into the top and bottom holes on the back of the number until spacers rest flush against both the number and mounting plate. Repeat steps 5-7 for each number.

*Do not over-tighten the screws, as this may damage the numbers. Use just enough force to secure the numbers.*

## 6. For Installation Directly to Building



### a. Drill Mounting Holes into Wall

Drill 5/32" holes through the marked top and bottom holes for each number on the mounting surface.



### b. Drill Wiring Hole

If wiring will go through to the other side of the mounting surface, drill a 7/32" hole through the marked wire hole on the mounting surface. This will be the largest hole in the center of the number.

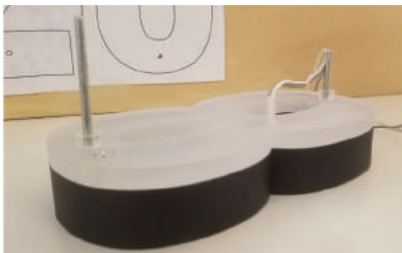
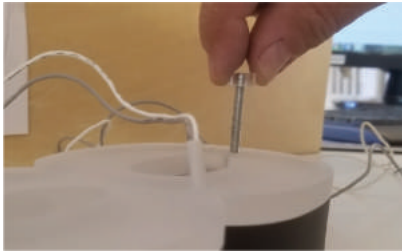
*Note: If the wiring will be routed in the front of the mounting surface, skip this step.*

## 6. For Installation Directly to Building



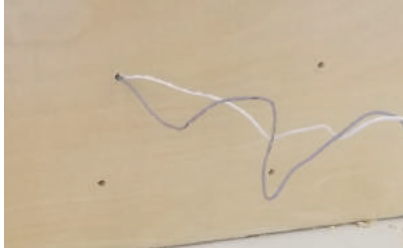
### c. Insert Spacers and Threaded Studs

Determine how much light spread you would like behind numbers. The  $\frac{1}{2}$ " spacers will emit a broader soft white glow, while the  $\frac{1}{4}$ " spacers will give off a tighter halo effect. Mounting the numbers flush to the mounting surface (without spacers) will create a crisp line around each number. For  $\frac{1}{4}$ " or  $\frac{1}{2}$ " space, place the corresponding spacers provided against the top and bottom holes on the back of the number until it rests against the back of the number. Screw the threaded studs [2] through the spacer and into the top and bottom holes on the back of each number. For mounting flush to surface, screw threaded studs directly into number without spacer.



*Do not over-tighten the studs, as this may damage the numbers. Use just enough force to secure the numbers.*

## 6. For Installation Directly to Building



### d. Mount Number

Hold the first number up to the drilled holes and carefully thread the middle wiring through the wire hole. Gently press the threaded studs on the back of the number into the wall anchors until spacers rest flush against the mounting surface (for flush mounting, tap until number is flush to mounting surface).

*Tip: Use a wood block with a smooth surface and a rubber mallet to gently tap into place to avoid damaging number.*



Repeat steps 5-8 for each number.





## 7. Connect Wires to Power Source (Grey Wire to +12VDC)

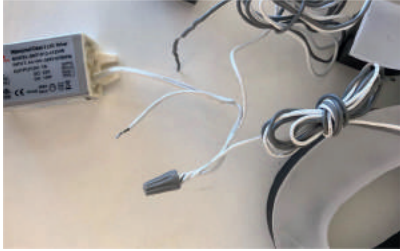


Once all numbers are secured against the mounting plate/surface, gather the grey wire from each number and cut to desired length ensuring wires are long enough to connect together and to power source. Strip grey wire covers  $\frac{1}{2}$ " then twist the wires together. Join the twisted number wires with the end of the wire marked with +12VDC of the power source and slide the wire cap onto the wires and twist clockwise to secure the wires together.

*Note: With some drivers, the +12 is marked with red and the -12 is marked with black but some drivers only state + and -12.*

*If you are using an existing power source from a doorbell or light fixture to power the numbers, check voltage to ensure it is in the correct range. If you are unfamiliar with the electrical wiring of the building, contact a licensed electrician for assistance.*

## 8. Connect Wires to Power Source (White Wire to -12VDC)



Repeat step 8 for the white wires behind each number – cut and strip each white wire then twist stripped ends together. Join the end of the wire marked with -12VDC of the power source with the joined white wires and slide the wire terminal cap over all of the wires and twist clockwise to secure these wires.



*If installing with mounting plate, follow steps #9-11.*

## 9. Drill Holes in Mounting Wall

Hold mounting plate up against the mounting surface. Confirm plate is properly spaced and leveled then use a marker or pencil to mark the four corner holes on the mounting plate on mounting wall. Remove mounting plate and use your drill to drill 5/32" holes through the four marked corner holes.

*Note: It may be preferable to use anchor bolts (not included) set into the wall depending on the construction of the wall.*



## 10. Secure Mounting Plate to Wall

Hold mounting plate up against the mounting surface so that drill holes are lined up with the four corner holes on the mounting plate. Using your Philips Screwdriver, screw the mounting screws provided through the Mounting plate and into the drill holes until secured.



## 11. Cover Drill Holes with Caps

Once mounting plate is securely fastened against wall, place the plastic caps provided over the four corner holes on the mounting plate to hide screws, creating a more uniform appearance.

# FREQUENTLY ASKED QUESTIONS

## **1. What Power Sources can I connect the LumaNumbers™ to?**

- a. Our LumaNumbers™ are low voltage and can be connected to a 12-volt DC power source that can supply .3 amps per number. Modern Lights® also has 24W transformer available for purchase.

## **2. My doorbell transformer uses AC power, is this acceptable?**

- a. A doorbell transformer generally has an output of 16V AC, which work perfectly fine with the 12V LumaNumbers™. However, it should be noted that a slight flicker may be visible, as LumaNumbers™ are made specifically for DC power sources. This will not damage the LED, but a slight flicker is possible using these types of power sources.



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