



INVENTED BY

**Nathan Firth**  
+3046 INFLUENCERS

Ascend was invented by Nathan Firth, a web app developer from San Marcos, CA.

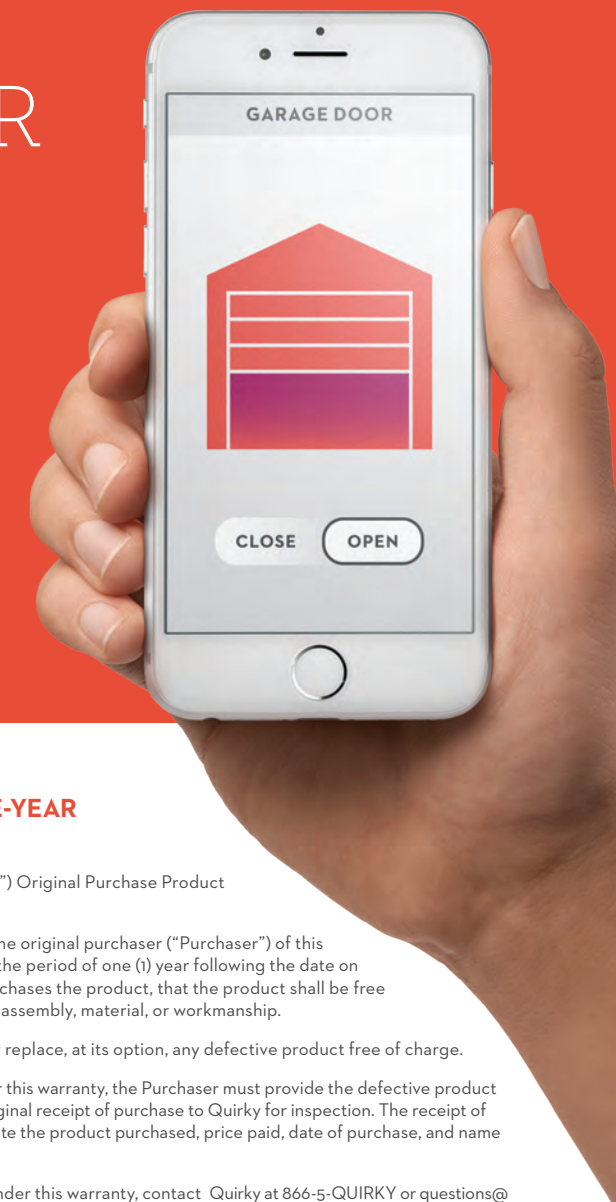
Ever the entrepreneur, Nathan dreamed up the idea for Ascend several years ago. After meeting with an electrical engineer, he decided the road to invention was a rough one to travel down alone. So he submitted his idea to Quirky and—just like that—Ascend became a reality. Glad we could open that door for ya, Nathan!

## ASCEND

# SMART GARAGE DOOR CONTROLLER

- Allows you to open and close one garage door from your mobile device
- Lets you monitor your garage door status and receive alerts via the Wink app
- The app allows for multiple users, so you can give access to friends or family members
- Your existing garage door opener will remain fully functional

For residential use only.  
ELECTRICAL RATING: 120VAC, 60Hz, 15A (passthrough to power existing opener)  
Not compatible with newer Chamberlain® and Liftmaster® Security+2.0™ encrypted garage door openers (manufactured after 2011).



### IN THE BOX

- Smart garage door controller kit with power cable, trigger wires, mounting bracket, and reflector with adhesive
- 4 drywall anchors
- 4 screws
- 2 spade terminals
- User guide

### WHAT YOU'LL NEED

- A UL-listed garage door opener manufactured on or after 1/1/93 that uses photoelectric sensors. Not compatible with newer Chamberlain® and Liftmaster® Security+2.0™ encrypted garage door openers (manufactured after 2011).
- Apple iPhone®, iPod touch®, or Android™ phone
- The Wink app downloaded to your mobile device from the iTunes® App Store or Google Play™
- A Wi-Fi® network connection with a strong signal in your garage. A Wi-Fi extender may be necessary.
- Slotted screwdriver
- Pliers

### CONNECTING ASCEND TO YOUR WI-FI NETWORK

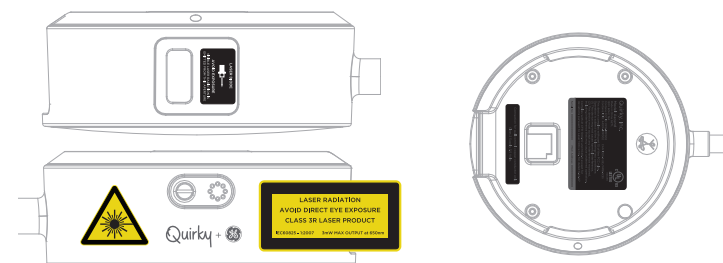
- Plug the Ascend power cable into any AC outlet (the outlet does not have to be in the garage at this stage). Ascend will automatically turn on.
- Open the Wink app on your mobile device and log in with your email address and password. If this is your first time using the Wink app, tap “Sign Up” to create an account.
- Tap “Add a product” then “Garage Doors” then “Quirky Ascend.”
- Tap “Start countdown” and hold your phone next to the blinking sensor on Ascend.
- When your device beeps or vibrates, and the Wink app displays “Success,” your device is connected and the light on Ascend will switch from red to green.
- Unplug Ascend from the AC outlet.

### IMPORTANT SAFETY INFORMATION

- Ascend should be installed by a qualified electrician and used in accordance with appropriate electrical codes and regulations.
- Read all instructions and warnings prior to using Ascend. Failure to comply with instructions and warnings constitutes improper use of Ascend.
- Quirky Inc. is not responsible for improper use of Ascend which may result in personal injury, product damage, excess heat, toxic fumes, fire, or explosion. Quirky Inc. is not responsible for any damages one may suffer as a result of use, intended or unintended.
- **DANGER:** VISIBLE LASER RADIATION. AVOID DIRECT EXPOSURE TO BEAM. Ascend uses a Class 3R laser which emits output power of a maximum 3 mW and 650 nm wavelengths under IEC60825-1:2007. The laser is harmful to the body, especially eyes, directly or indirectly. Never stand between the laser and the reflector, or place your eye directly in-line with the laser source.
- **WARNING:** RISK OF ELECTRIC SHOCK. Use only in dry, indoor locations. This device has a grounding type plug, that has a third (grounding) pin. This plug will only fit into a grounding type outlet. If the plug does not fit into the outlet, contact a qualified electrician to install the proper outlet. Do not change the plug in any way. Proper grounding and a grounding-type receptacle for connection to the supply is required.
- **WARNING:** RISK OF FIRE. Do not exceed electrical ratings.
- **WARNING:** RISK OF SEVERE INJURY OR DEATH. MAKE SURE YOUR GARAGE DOOR IS WORKING PROPERLY BEFORE INSTALLING ASCEND. Do not use with improperly installed/balanced/lubricated or non-functioning garage doors and garage door openers. DO NOT USE WITH A ONE-PIECE DOOR. Ascend provides an unattended closing function and should only be used with sectional doors.
- **WARNING:** EYE HAZARD. The use of optical instruments such as, but not limited to, telescopes or transits to view the laser beam will increase eye hazard.
- **CAUTION:** There are labels on Ascend that indicate where the level emits the laser light. BE AWARE of the laser light location when using. ALWAYS MAKE SURE that any bystanders in the vicinity of use are made aware of the dangers of looking directly into the laser.
- ALWAYS turn the calibration level off when not in use. Leaving the laser on increases the risk of someone inadvertently staring into the laser beam.
- DO NOT operate Ascend or calibrate the laser in combustible areas such as in the presence of flammable liquids, gases, or dust.
- DO NOT aim the laser on surfaces such as sheet steel that have a shiny, reflective surface. The shiny surface could reflect the beam back at the operator. Be aware that laser light reflected off a mirror or any other reflective surfaces can also be dangerous.
- DO NOT attempt to modify the performance of this laser device in any way. This may result in a dangerous exposure to laser radiation.
- DO NOT attempt to repair or disassemble the laser level. If unqualified persons attempt to repair this laser product, serious injury may result. Any repair required on this laser product should be performed by authorized service center personnel.
- For further information regarding lasers, refer to ANSI-Z136.1 the STANDARD FOR THE SAFE USE OF LASERS, available from the Laser Institute of America (407) 380-1553.
- Before installing Ascend, UNPLUG existing garage door opener from power source. NEVER connect garage door opener to power source until instructed to do so.
- Keep away from children. NEVER permit children to operate or play with Ascend or the Wink app controlling Ascend.
- Only use with UL-listed Garage door openers manufactured on or after 1/1/93 that use photoelectric sensors. Do not use in combination with any other device.
- There are no user-serviceable parts. Do not attempt to disassemble or modify any part of Ascend.
- Ensure switch wires and power cords are routed so as not to interfere with the mechanical operation of the garage door.
- This device is intended for installation and use in accordance with the National Electric Code (NEC) and local regulations in the United States, or the Canadian Electrical Code (CEC) and local regulations in Canada. Ascend should be installed by a qualified electrician.

- Important: For the installation and adjustment procedures required to effect proper operation of the safety means included, refer to your garage door operator's manual for details.
- No maintenance is required.
- Calibrate the laser part regularly, refer to the “Calibrating and Using Ascend” section for details.

### LOCATION OF LASER WARNING, EXPLANATORY AND APERTURE LABELS



### COMPLIANCE

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.

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

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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

This device complies with Industry Canada license exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

### LIMITED ONE-YEAR WARRANTY

Quirky, Inc. (“Quirky”) Original Purchase Product Warranty

Quirky warrants to the original purchaser (“Purchaser”) of this Quirky product, for the period of one (1) year following the date on which Purchaser purchases the product, that the product shall be free of defects in design, assembly, material, or workmanship.

Quirky will refund or replace, at its option, any defective product free of charge.

In order to qualify for this warranty, the Purchaser must provide the defective product and a copy of the original receipt of purchase to Quirky for inspection. The receipt of purchase must indicate the product purchased, price paid, date of purchase, and name of merchant.

To request service under this warranty, contact Quirky at 866-5-QUIRKY or questions@quirky.com and a Quirky representative will provide instruction on how to proceed.

This warranty shall be null and void if Quirky determines that the product has been improperly installed, altered or tampered with in any way. This warranty does not protect against normal use, wear and tear, or damage due to abuse.

THIS WARRANTY CONTAINS THE SOLE WARRANTY OF QUIRKY. THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTY OR CONDITION OF QUALITY, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND SUCH IMPLIED WARRANTIES, IF ANY, ARE LIMITED IN DURATION TO THE TERM OF THIS WARRANTY. IN NO EVENT SHALL QUIRKY BE LIABLE FOR INCIDENTAL, SPECIAL, DIRECT, INDIRECT OR CONSEQUENTIAL DAMAGES SUCH AS, BUT NOT LIMITED TO, LOST BUSINESS OR PROFITS ARISING OUT OF THE SALE OR USE OF ANY QUIRKY PRODUCT, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

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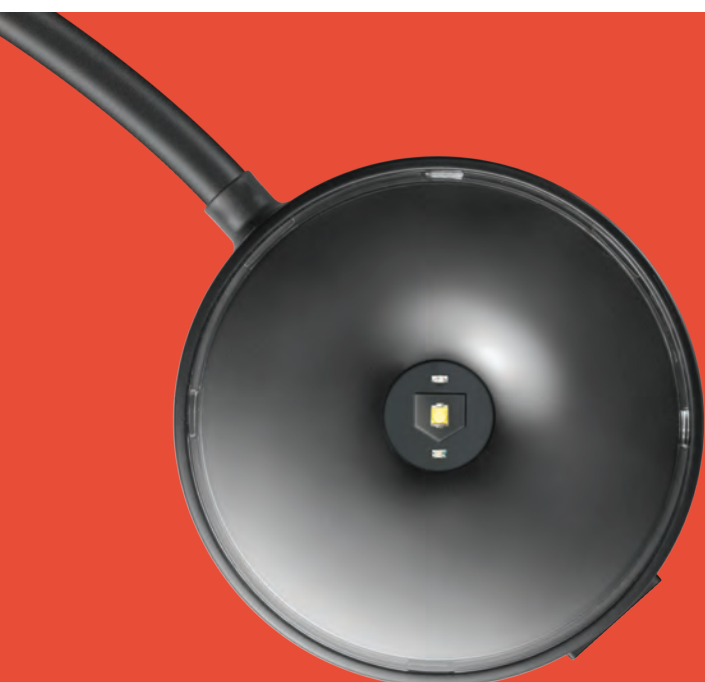
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### SUPPORT

Need help?

Email questions@quirky.com  
Call 1-866-5QUIRKY



# INSTALLATION INSTRUCTIONS

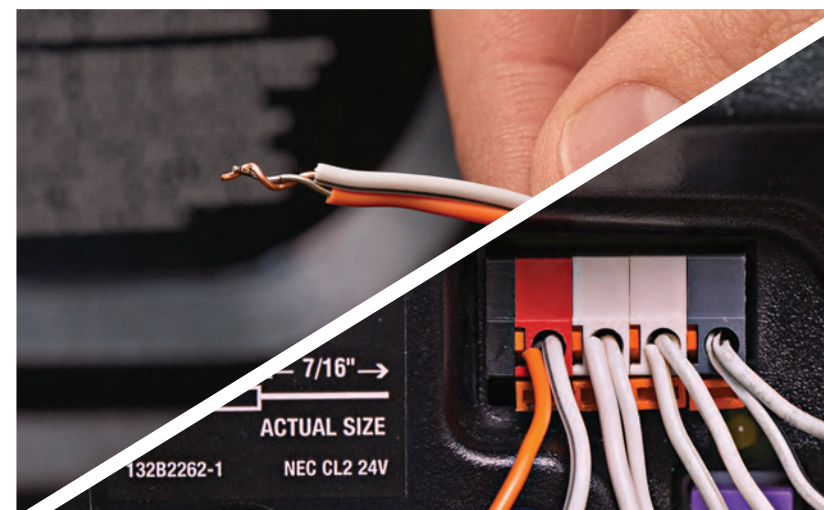
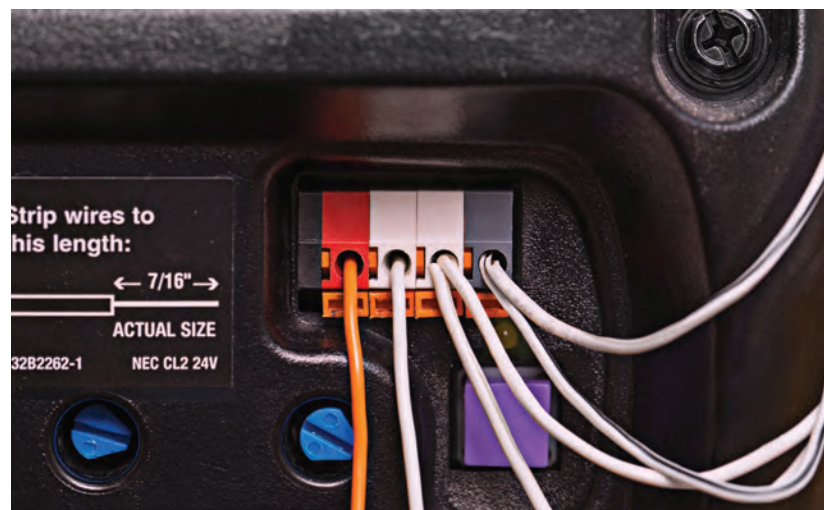
**Ascend should be installed by a qualified electrician and used in accordance with appropriate electrical codes and regulations.** Before installation, make sure garage door is operating properly. Make sure your garage door is closed/down, then UNPLUG garage door opener from power source. NEVER connect garage door opener to power source until instructed to do so.



- 1 Connect Ascend to your Wi-Fi network (instructions on other side). Trust us, it's much easier to do this now before mounting Ascend on your ceiling!
- 2 Find an area of the ceiling near the AC outlet of the existing garage door opener to mount Ascend. **Requirements for this area:**
  - Less than 2 feet from the power outlet
  - Less than 6 feet or length of garage opener motor cord, whichever is shorter, from the garage door motor
  - Within wireless range of your Wi-Fi network
  - Unobstructed view of the top of the garage door (when closed) at all times
  - The laser aperture on Ascend should not be exposed to direct light (e.g., a ceiling light aimed directly at it)

- 3 Remove the mounting bracket from Ascend.
  - 4 Use the 4 included screws to install the mounting bracket in the stud or joist of the installation area, making sure the big arrow on the mounting bracket is oriented towards the garage door. It may be necessary to drill pilot holes for ease of mounting.
- NOTE: If the installation area is drywall, drop ceiling, or another composite material, first screw in the 4 included drywall anchors, then use the 4 screws to secure the mounting bracket. Be careful not to over-tighten the drywall anchors as a bigger hole will be created if the screwing action continues.*

- 5 Align the red dots on housing bottom and mounting bracket. Twist the housing bottom clockwise onto the mounting bracket until it locks into place.
- 6 Make sure the existing garage door opener is unplugged. Ascend should also be unplugged.



- 7 There are 2 white trigger wires from Ascend. These will be twisted with the 2 wires that lead from your existing garage door WALL BUTTON.
 

*NOTE: These general wiring instructions apply to most models of garage door openers. If your garage door wiring is different, please consult an electrician. 2 spade terminals (U-shaped wire connectors) are included if needed.*
- 8 Detach the 2 wires from the existing wall button terminal. You may need to push a release button on the terminal or unscrew the terminal to remove the wire.

- 9 Twist one of Ascend's trigger wires with one wall button wire. If you have screw terminals on your garage door opener, crimp one of the included spade terminals (U-shaped wire connectors) onto the twisted wires using pliers.
 

Twist the remaining Ascend wire with the other wall button wire, and crimp a spade terminal on with pliers if needed.
- 10 Insert the wires back into the terminal. You may need to push a release button on each terminal or screw in the terminal to secure the wire.

- 11 Plug the garage door opener power cord into Ascend via the available socket.
- 12 Plug Ascend into the AC outlet where the garage door was originally plugged. Ascend will rejoin your Wi-Fi network.
- 13 Included in the box is a sticker with the following warning: "This operator system is equipped with an unattended operation feature. The door could move unexpectedly." Affix this sticker on a surface near Ascend.

## CALIBRATING AND USING ASCEND

Ascend uses a laser and reflector to detect if the door is opened or closed.

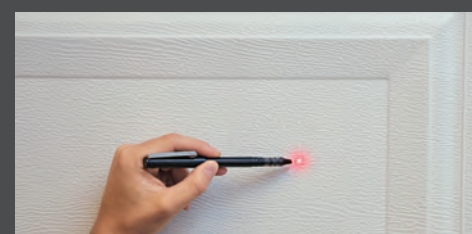
**CAUTION:** The following steps involve use of a Class 3R laser. Please read important safety information regarding lasers before continuing with calibration.

- 1 Make sure no one is standing between Ascend and the garage door. Make sure the garage door is closed/down.
- 2 Open the Wink app on your mobile device. Tap "Garage Door," and from the Settings menu (the 3 dots in the top right corner,) tap "Calibration Mode."

- 3 Tap "Turn laser on" then "Next" to start calibrating your Ascend.



- 4 Find the slotted screw on Ascend and use a slotted screwdriver to adjust the laser. Adjust the laser so the dot is aimed at the unobstructed area on the upper panel of the garage door. This area should be flat, as this spot is where the reflector will be mounted. Tap "Next" on the Wink app.



- 5 Mark the laser dot for reflector mounting. Tap "Next" on the Wink app.
- 6 Tap "Turn laser off."
 

*NOTE: The laser calibration cycle will automatically end after 5 minutes. If you need additional time to measure, turn on the laser again.*
- 7 Wipe the area marked with a clean, wet towel and pat dry.
- 8 Using the adhesive backing, mount the reflector on the spot marked by the laser.

The adhesive is very strong - make sure the spot has been measured correctly before mounting. Tap "Next" on the Wink app.



- 9 The next step in the Wink app will have you check the laser sensor connection. Tap "Turn laser on." Ascend will emit a confirmation sound if the laser and reflector are properly aligned. Tap "Next." If the app reports a failed calibration, choose from the available options to retry.

- 10 To test the garage door, the Wink app will prompt you with an image of a garage door. Swipe up on the door to open, then swipe down on the door to close. Your Ascend is now calibrated and ready for use.



- 11 To operate the garage door from the Wink app, tap "Garage Door." Swipe up on the image of the door to open. Swipe down on the door to close.
- 12 From the Settings menu, you can add users, check activity and set schedules.