



This QR code is a video tutorial for product use. It is recommended to scan this QR code to learn more about how to use the product.



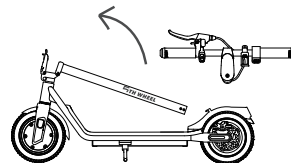
Pay attention !

1. Press the power key to open the scooter.
- ! 2. For safety, the factory setting of scooter is non-zero start, you need to slide the scooter to 2mph, and the throttle can be used normally.
3. The scooter can be turned on normally and cannot ride in walking mode, but can only be pushed.
- ! 4. Can't start when charging.
5. Do not throw away the manual, please refer to the manual for specific operations.

4 Scooter Assembly

1. Unfold the folding mechanism of scooter and put down the kickstand.

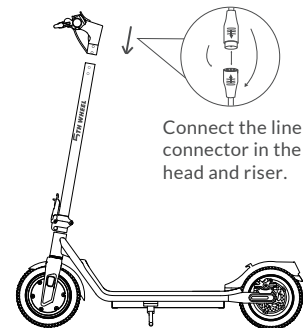
Unfold scooter and fix the folding mechanism. (Refer to "Folding and Carrying" for details of unfolding.)



3. Use the tools included in the package to tighten the screws.

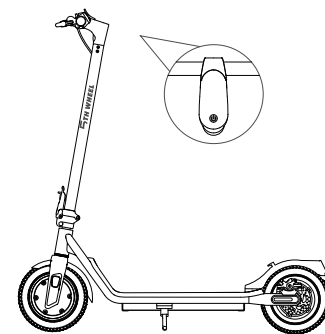


2. Insert the handlebar into the scooter bar.



Connect the line connector in the head and riser.

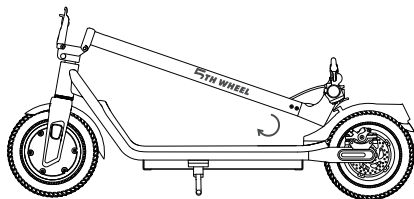
4. After assembly, check whether the power switch can work normally.



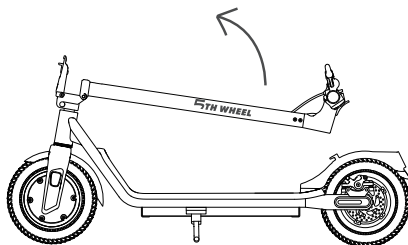
5 Unfolding/Folding/Carrying

1. Unfolding Operations

1. Turn the folding clip clockwise until it is fully open.



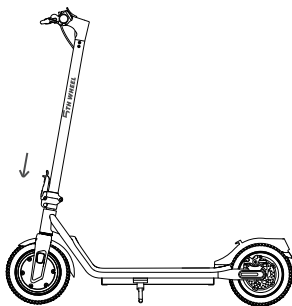
2. Pull up the body lever while opening the folding clip.



3. Turn the folder clockwise until it is fully snapped.



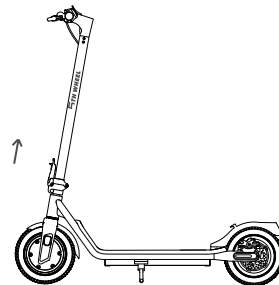
4. Check whether the folder key is returned to the bottom.



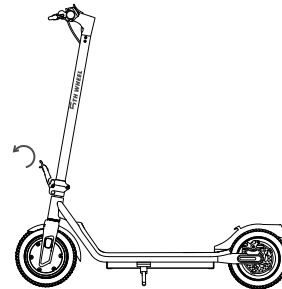
2. Folding Operations

Note: For safety, it is recommended to fold the scooter after it is shut down.

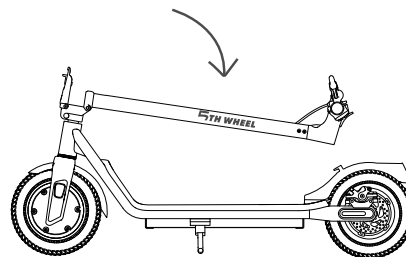
1. Lift the folder key up.



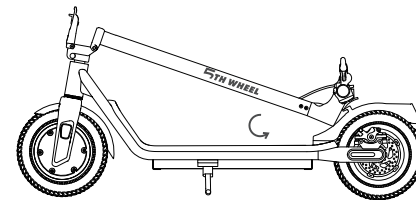
2. Rotate the folder counterclockwise while lifting the folder key.



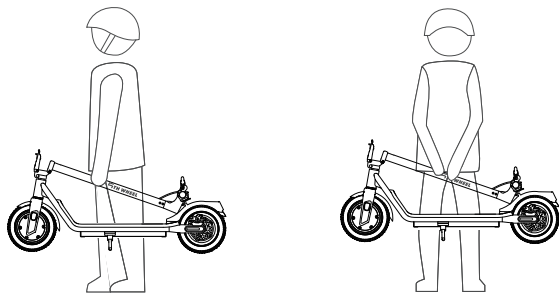
3. Lower the body rod slowly.



4. Open the folding clip and hang it on the rear fender buckle.



3. About Carrying

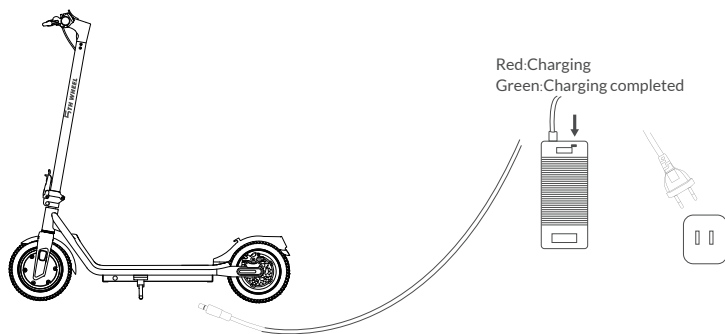


After folding, you can carry the scooter with one or two hands. Please check whether the folding hook is reliable before moving the scooter.

4. About Charging

⚠ **Use only with specified charger in instruction.**

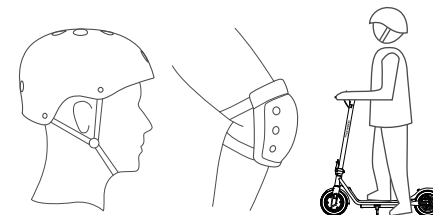
⚠ **When the indicator light is red, it indicates that it is charging, and when fully charged, it will turn green. During charging, the scooter cannot be opened and the charger needs to be unplugged to open it.**



6 Riding and Parking

Preparation for riding

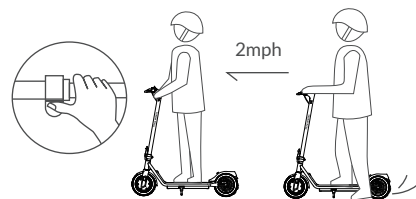
1. Select an appropriate riding place.
2. Unfold the scooter according to the unfolding instructions and wear protective equipment.
3. It is necessary to check that the steering system is correctly adjusted, that all connection elements (such as a folding system) are correctly tightened and not broken, and that the brakes and wheels are in good condition.



Riding

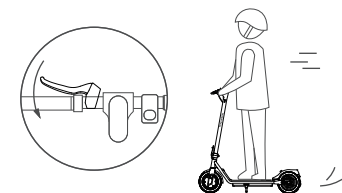
1. Press the power button to turn on the scooter.
2. Put one foot on the footboard and the other foot on the ground.
3. Make the scooter body slide forwards to 2mph and gently press the right thumb accelerator. The scooter will slowly run forwards. When the scooter is running steadily, put the other foot onto the footboard. The larger holding angle of the right thumb accelerator, the higher the speed.

⚠ **Note: For the riding safety, The scooter has a non-zero start mode. The accelerator cannot be enabled until the body slides forwards for a certain**

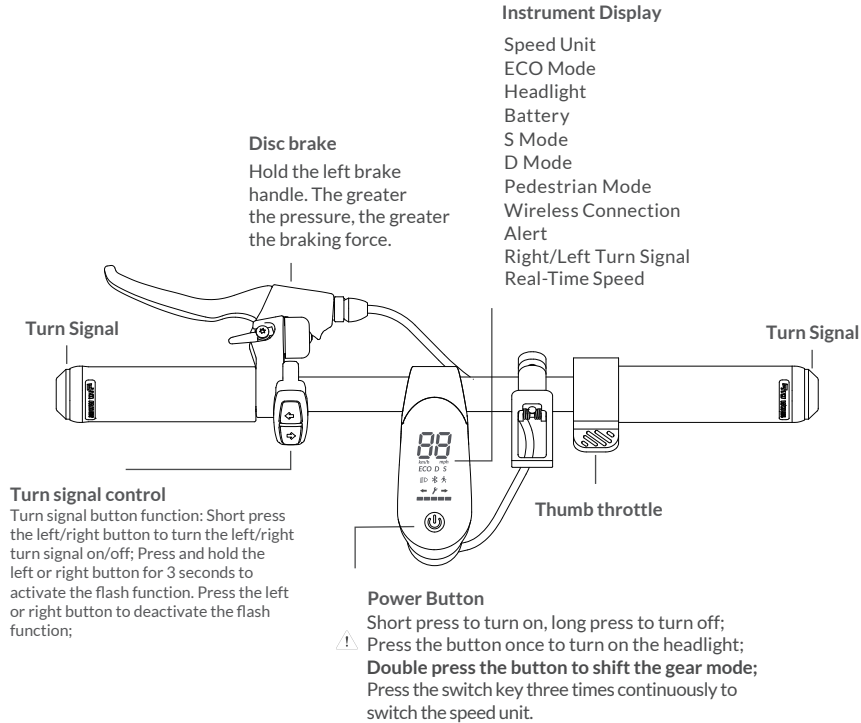


Stop

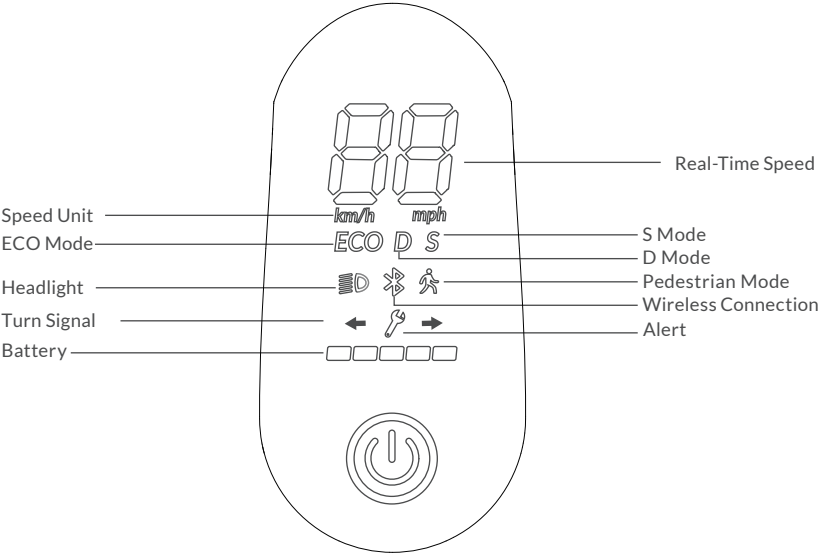
1. Under normal circumstances, if you hold the left brake lever, the motor will be immediately powered off and subject to braking. The greater the holding force, the greater the braking force.
2. Under emergency conditions, you can step on the rear brake to simultaneously enable the electromagnetic brake of the front wheel and friction brake of the rear wheel.



7 Control System



LED Display



Power Switch

Short press to turn on, long press to turn off;
Press the button once to turn on the headlight; Double press the button to shift the gear mode; Press the switch key three times continuously to switch the speed unit.

Gear Setting

Quickly press the power key twice to switch gears. Gears can be set to pedestrian mode (maximum 3mph), ECO mode (maximum 10mph), D mode (maximum 14mph) and S mode (maximum 17.5mph).

Speed Control

When riding the scooter at a speed faster than 2 mph , the throttle will get started and take effect. By pressing the throttle, the user can control the riding speed. (Speed Range: 2-17.5mph)

Brake Control

Hold the left brake handle. The greater the pressure, the greater the braking force.

LED Headlight

After the scooter is turned on, the single power switch turns on/off the front lights.

Emergency Braking

Under normal circumstances, do not use emergency braking vigorously during high-speed driving, so as to avoid the riding risk or damage to the rear wheel. The company is not responsible for the damage.

Turn signal control

Turn signal button function: Short press the left/right button to turn the left/right turn signal on/off; Press and hold the left or right button for 3 seconds to activate the flash function. Press the left or right button to deactivate the flash function;

Speed Unit Switching

After opening the vehicle, press the switch key three times continuously to switch the speed unit.

Cruise Mode

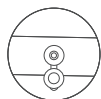
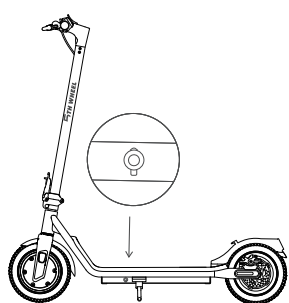
Press and hold the throttle at the same speed for 5 seconds to activate cruise control mode. Cruise mode can be turned off by braking or re-pressing the throttle. (The cruise control function is off by default, which can be enabled in the mobile APP)

8 Indication Description

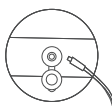
if there is anything abnormal about the scooter, the warning indicator will flash, with the flashing value 4-57 displayed.

| Codes | Describe | Maintenance and treatment |
|-------|---|---|
| 4 | Short trouble | Check if a short circuit is wired or installed, Or replace the controller to troubleshoot. |
| 9 | Secondary motor communication failed, (non-two-wheel drive ignored) | Check the connection between the secondary controller and the primary controller. |
| 10 | Instrument panel communication failed | Check the connection between the instrument panel and the Controller Assembly line is normal. Shut down the machine and restart the car after the connection of the assembly line is replugged. |
| 11 | Motor current sensor is abnormal | Check the line of the phase line of the controller or motor. |
| 14 | Throttle Hall anomaly | Check if the throttle is zero, the throttle line and the throttle are normal, Unplug the throttle cord and restart the car to troubleshoot the problem. |
| 15 | Brake Hall anomaly | Check whether the brake will be reset to zero position, and the brake line and the brake will be normal, Can unplug the electronic brake wiring and restart the car to eliminate the problem. |
| 16 | Motor Hall anomaly | BOOT failure, Check that the motor Hall wiring is normal, Brake occurs, need to check the replacement of motor or controller to eliminate the problem. |
| 19 | Secondary Motor Hall anomaly, (non-two-wheel drive ignored) | Check that the Secondary motor Hall wiring is normal, Check replacement motor or controller for trouble shooting. |
| 21 | BMS communication anomaly | BMS communication exception (non-communication battery is ignored) |
| 50 | Bus high voltage | The main line voltage is too high, BOOT failure, need to check whether the battery voltage is normal, cycling failure, need to replace the battery or controller to remove the problem. |
| 53 | System overload | Exceed system load, BOOT failure, need to replace the controller to remove the problem. |
| 55 | Controller high temperature alarm | The temperature of the controller is too high, and the vehicle is restarted after the vehicle is cooled. BOOT failure, need to replace the controller to remove the problem. |
| 57 | Motor high temperature alarm | The temperature of the motor is too high, and the vehicle is restarted after the vehicle is cooled. |

9 About Charging



Remove the rubber protective cover the charging port.



Connect the charger.



After charging push the rubber protective cover back in

- 1.Remove the rubber protective cover, and insert the charger connector into the charging port of the body.
- 2.Insert the power plug of the charger into the power socket.
- 3.When the charger indicator is red, it indicates that the battery is being charged. When the charger indicator turns green, it indicates that the battery has been fully charged.
- 4.Requirement to power-off the vehicle during charging, or into a certain non-operational mode.

10 About the Battery and Charger

Each V20 Pro electric scooter is equipped with a dedicated lithium battery and charger cable. Both the scooter and its accessories have product identification numbers. It is forbidden to use the charger cable of other brands. The charger cable provided by the company must not be used for other purposes. The company is not responsible for the resultant damage to the battery or charger.

Battery

The lithium battery provided by the company can be recharged for at least 300 times. Please charge full battery for the first time before using it. The battery can be charged at any time, and there is no any damage to charge it frequently. Meanwhile, please don't forget to charge it per 3 months if you don't use it for a long term.

Operating Temperature
Charging: 0°C ~ 45°C
Discharging: -20°C ~ 60°C

Charger



The dedicated charger provided by the company has charging protection function for the built-in charger. Use only with specified charger in instruction. When the battery is 100% charged, the charger will be powered off automatically. The charging time is about 4-5 hours. Damage to the battery arising from water, collision and other abnormal factors is excluded from the warranty policy.

Production factory : ShenZhen HaiLongTong Technology Co., Ltd
MODEL: HLT-180-4201500
INPUT: AC100-240V 50/60Hz 2.0A MAX
OUTPUT: DC42V 1.5A

Charging instructions



- 1.Open the rubber and insert the plug into the hole;
- 2.Insert another plug of the charger into the electric outlet;
3. When the indicator lamp is red, it shows the battery being charged; When the lamp turns green, the battery is finished charging.
4. Please shut down and keep away from water before charging.
- 5.Only use the specified charger for charging.
- 6.Warning: Please be careful not to get electric shock.

Kinetic energy recovery



Press the brake in the running process to enable the kinetic energy recovery system and convert part of kinetic energy into electrical energy to be stored and used. The kinetic energy recovery system can enhance the experience of emergency braking. At the same time, the recovered kinetic energy can help increase the endurance. Changes in the power are displayed simultaneously.

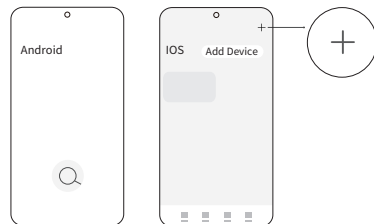
11 App Description

We pay great attention to user experience and constantly inject new functions into the App, so the App UI may change with version updating. The following contents are for reference only, please follow the instructions based on the current App version.

1.1. Please use your mobile phone to scan the QR code to download the App, or search "5thWheel" in the app store to download and install it. If you have installed the App, please ensure it is the latest version.



2. 2. Open the App, complete the registration for the first time use. After registering, please login to the homepage, tap "+" on the upper right or Search Devices button in the mid-lower section, then follow prompts to add your scooter. If you fail to scan, please ensure your Bluetooth and scooter are on, and try again.



Special note: About the locking function, it can only ensure that the scooter can't run normally. Due to the light weight of the scooter and the whole scooter is composed of mechanical parts, it can be removed with corresponding tools. To prevent your electric scooter theft, suggest always park your scooter in a well-lit and highly visible area for you, or invest in a high-quality and sturdy lock that can keep it securely locked up.

12 Maintenance

Lubrication



For maintenance, add a small amount of white grease or lubricant to the folded part once every six months. Check the scooter once every three months for screw loosening. Tighten the loose screw.

Battery



When you get the electric scooter for the first time, please fully charge the battery before using the scooter. The battery can be charged at any time to ensure the power supply. It will not be damaged during charging. When not in use, the battery needs to be charged once every three months.

*Laboratory data

Storage and daily maintenance



Avoid leaving scooter under direct sunlight or in severely humid places for a long time. Keep the scooter clean.

Regularly check the tightening of the various bolted elements, in particular the wheel axles, the folding system, the steering system and the brake shaft.

Cleaning Recommendations



If you see stains on the scooter's body, wipe them off with a damp cloth. If the stains won't scrub off, put on some toothpaste, and brush them with a toothbrush, then wipe them off with a damp cloth. Do not clean the scooter with alcohol, gasoline, kerosene or other corrosive and volatile chemical solvents to prevent dire damage. Do not wash the scooter with a high-pressure water spray. During cleaning, make sure that the scooter's turned off, the charging cable is unplugged, and the rubber flap is closed as water leakage may result in electric shock or other major problems.

Routine Inspection



1. Before riding, please confirm the folding mechanism is locked;
2. Please check whether the tires are badly worn. Please contact the local authorized dealer if they needs to be replaced;
3. Please check whether the tire pressure is at the standard value. If the tire pressure is too low, please inflate the tires immediately;
4. Please check whether the wear condition of the brake pad affects the use of the brake system. If so, please contact the local authorized dealer to deal with the problem;
5. The screws used in this product are self-tightened screws. Please note that the effect may be gone after several times of tightening.
6. WARNING – Risk of Fire and Electric Shock – No User Serviceable Parts.
7. Prolonged Exposure to UV Rays, Rain and the Elements May Damage the Enclosure Materials, Store Indoors When Not in Use.

13 Parameter Configuration

| | | |
|---------------------|--------------------------------|--|
| Parameter | Product name | ELECTRIC SCOOTER V20 Pro |
| | Model | ES16 |
| Size | Upright: L x W x H | 1112mm*485mm*1152mm |
| | Folded: L x W x H | 1112mm*485mm*480mm |
| Weight | Net weight | 14.9kg |
| Status | Max Load | 120kg |
| Main parameters | Max Speed | 17.5mph |
| | Full-battery endurance | 12.5miles (depending on the environment, angle, speed, driving habits and other factors) |
| | Max Incline | Approx.15% |
| | Tyre | 10 inch honeycomb tire |
| | Brake system | Disc brake+Electronic brake |
| | Display | Speed, kilometers, gear etc. |
| | Lighting system | LED high-brightness headlight taillight |
| | Motor power | 350W |
| Charging parameters | Adapter Rated input voltage | 100V-240VAC 50/60Hz |
| | Lithium battery | 36V-5.2AH |
| | Charging time | 4-5h |
| Wireless parameters | Wireless frequency range | 2402~2480 MHz |
| | | |

14 Authentication

The product has passed the ANSI/CAN /UL-2272 certification of the CSA.

The battery complies with the UN/DOT 38.3.

According to the Federal Communications Commission (FCC) Compliance Statement as follows:

The product complies with part 15 of the FCC rules, and the operation must meet the following two conditions: (1) the product should not cause harmful interference, and (2) the product must accept any received interference, including interference that may lead to accidental operation. Any change or modification not expressly approved by the responsible party may make void the user's right to operate the product.



The EU Compliance Statement is as follows:

WEEE needs to properly dispose of and recycle the product. This sign indicates that the product should not be disposed of together with other domestic waste throughout the EU.

Therefore, in order to prevent possible harm of uncontrolled waste treatment to the natural environment or human health, it is necessary to recycle it and promote the sustainable reuse of material resources. To recycle the used product, use the return and collection system or contact the retailer who can use the product for environmentally safe recycling.



EU Battery Recycling Information:

Batteries or battery compartments are marked in accordance with the European Directive 2006/66/EC and the amendment 2013/56/EU on batteries and accumulator cells and scrap batteries and accumulator cells.

The directive applies to the recycling framework of waste batteries and accumulator cells throughout the EU. The label on the battery indicates that the battery should not be discarded, but recycled at the end of its service life according to the

According to the European Directive 2006/66/EC and the amendment 2013/56/EU, batteries and accumulator cells are labeled to indicate that they will be collected separately and recycled at the end of their service life. The label on the battery may also contain the chemical symbols of the relevant metals in the battery (Pb, Hg and Cd). Users should not dispose of batteries and accumulator cells as garbage, but use the collection framework available to customers to recycle and dispose of batteries and accumulator cells. With the engagement of users, it is important to minimize any potential impact of batteries and accumulator cells on the environment and human health due to the presence of potentially hazardous substances.

Before placing electrical and electronic equipment (EEE) into a waste collection stream or waste collection facility, users of equipment containing batteries and/or accumulator cells must remove these batteries and accumulator cells for separate collection.



Restriction of Hazardous Substances in Electrical and Electronic Equipment (RoHS) Directive

The products and parts (cables, wires, etc.) of Invanti (Beijing) Technology Co., Ltd comply with the requirements of directive 2011/65/EU on restricting the use of certain hazardous substances in electrical and electronic equipment ("RoHS recasting" or "RoHS 2")

Trademark and Legal Statements

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The products involved in the registered trademark of 5TH WHEEL are protected by relevant patent laws.

In this user manual, we make our utmost to describe all the instructions and functions of the scooter electric scooter. With constant updates and iteration, the scooter electric scooter received may be slightly different from the product features shown in this manual. For more information, please visit the Apple App Store (iOS) to download the App.

Please note that Invanti has developed products with many functions and different models of products, and some of the functions mentioned here may not be applicable to the product or equipment received. The manufacturer reserves the right to change the design and function of the the scooter electric scooter and documents without notice.

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Contact Us

If you encounter any problems when using the product, please feel free to contact us through the following methods or scan the QR code to get a quick response and a satisfactory solution.

Amazon Platform: "Contact Seller"
Email Address: aftersales@invanti.com

Use Camera or QR Scanner to Scan

Get 24/7 Customer Service



FCC Warning

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 1: 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.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.