

Automatic Chicken Coop Door



Owner's Manual & Product Guide



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IMPORTANT

1. DO NOT OVERTIGHTEN INSTALLATION SCREWS OR FRAME CAN COMPRESS AND BURN MOTOR OUT.
2. IF DOOR DOES NOT CLOSE ADJUST INFRARED MOTION SENSOR (PAGE 9)
3. ENSURE DOOR IS INSTALLED ON FLAT FLUSH SURFACE, IF NOT THE DOOR FRAME CAN BEND AND WILL STOP WORKING (PAGE 9)



FarmLite

Thanks for your purchase of the FarmLite Automatic Chicken Coop Door! We are an American owned business that truly cares about providing you with a great product and service!

Please review, read and understand ALL instructions and information to ensure proper functionality.

If you have any questions or concerns, don't hesitate to reach out to us,

we are always available to help at [Hello@FarmLite.Store](mailto>Hello@FarmLite.Store)

See Full Video Instructions at www.farmlite.store

Package Contents

- » **1x** Automatic Chicken Coop Door with Infrared Sensor
- » **2x** Wireless Remote Control
- » **1x** AC/DC Power Adapter
- » **1x** DC Male Connector and Pigtail
- » **1x** 5000 Milli-Amp Hour Backup Lithium-Ion Battery
- » **8x** Self-tapping Screw
- » **1x** Rain Shield
- » **1x** Owner's Manual

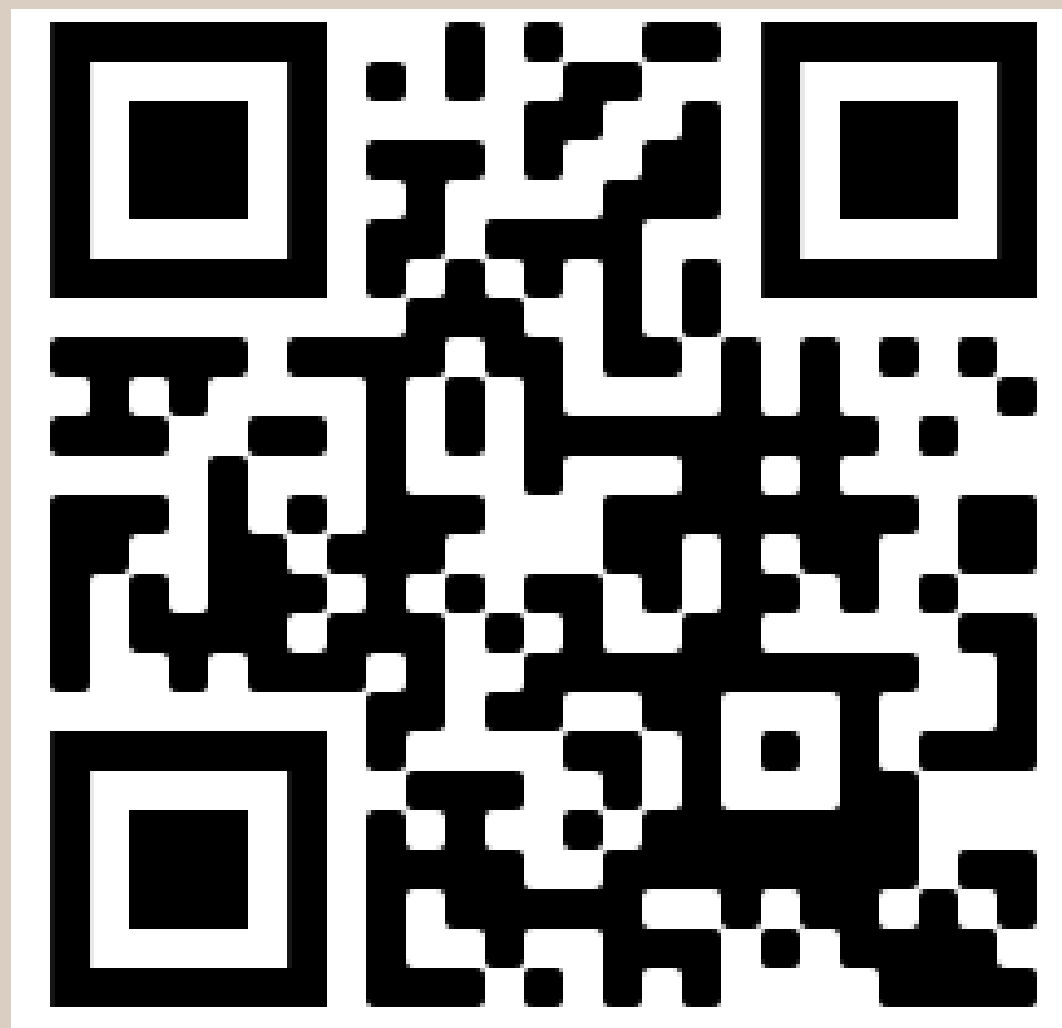


Full Walkthrough Video Instructions

Don't want to READ all the instructions but still want to learn how to use this automatic chicken coop door? We got your back!

- ✓ Simply scan the QR Code with your smart phone camera. It will take you to the official FarmLite website.

Scan me




OR
www.farmlite.store




Warnings & Cautions

- » To reduce risk of electric shock, do not disassemble this product. Contact **FarmLite** for any maintenance issues.
- » Use the AC/DC Power Adapter and cable provided with the unit. The use of other cables can result in shock, fire or cause damage to the unit..
- » Ensure the unit is connected to the power source properly.
- » Do not use the unit if power cord is damaged or if the plug socket contact is loose. Only use the AC/DC Power Adapter with a 100 – 240V AC power source.
- » Run power supply to a protected area or build power supply housing in order to protect the power plug in from weather. (Run cord through hole in chicken coop and plug in on the interior of the coop)




WARNING: HAZARDOUS MOVING PARTS. Do not place fingers, hair, clothes, lanyard... near moving parts.




⚠ WARNING


ELECTRIC SHOCK HAZARD.
This equipment is to be serviced by trained personnel only.



PROP 65 WARNING
This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, birth defects or other reproductive harm.
For more information, go to www.P65Warnings.ca.gov



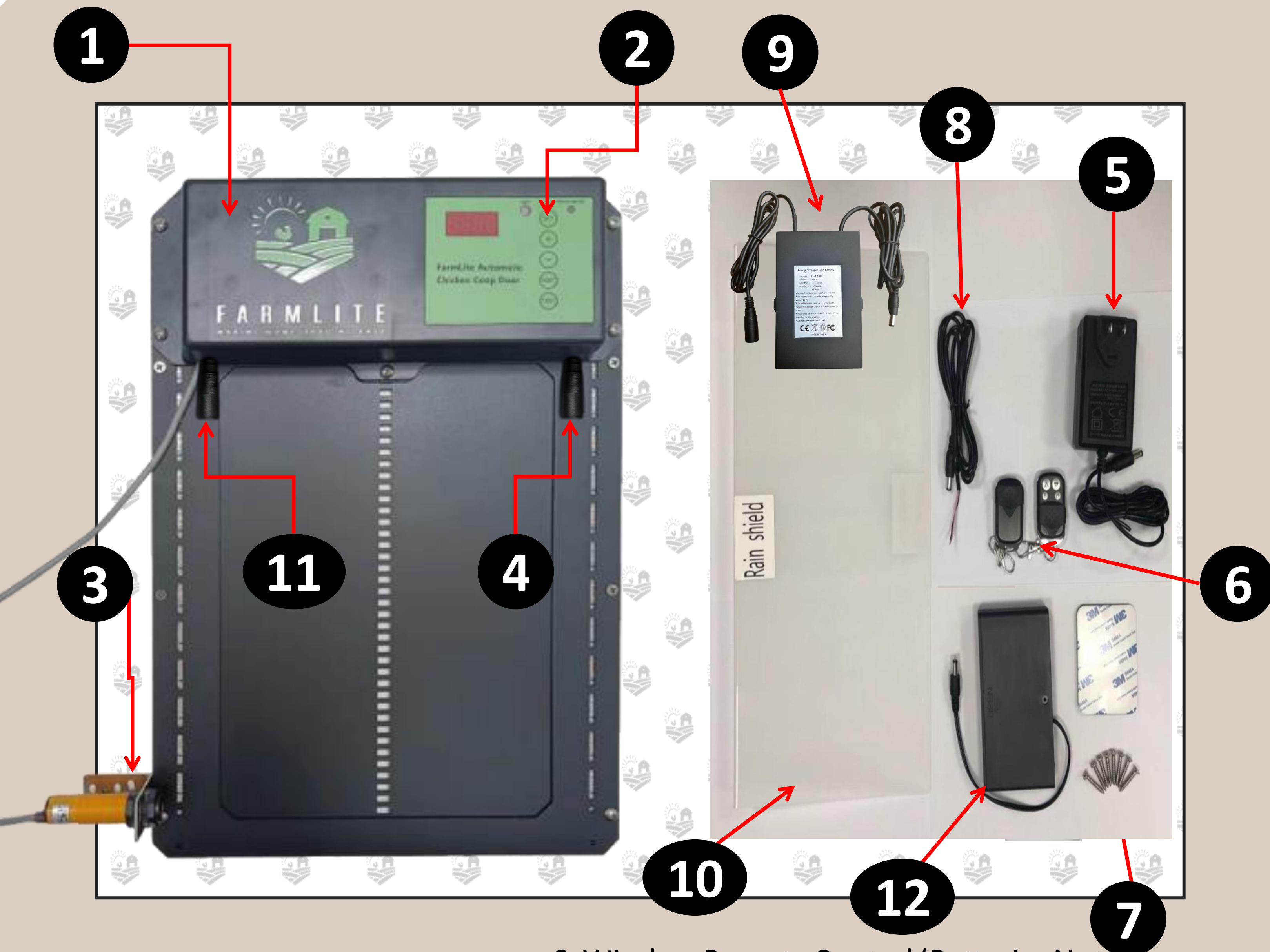
CHOKING HAZARD. SMALL PARTS.
Not for children under 3 years old.



DO NOT DISPOSE IN TRASH. Follow appropriate local electronics scrap procedures.



Product Introduction



1. Chicken Coop Door

2. Control Panel

3. Motion Sensor

4. DC/Solar Female Plug

5. AC/DC Power Adapter with Cord and DC Male Plug

6. Wireless Remote Control (Batteries Not Included)

7. Self-tapping screws

8. DC Male Plug with Pigtail

9. 3000 mAh Lithium Ion Battery

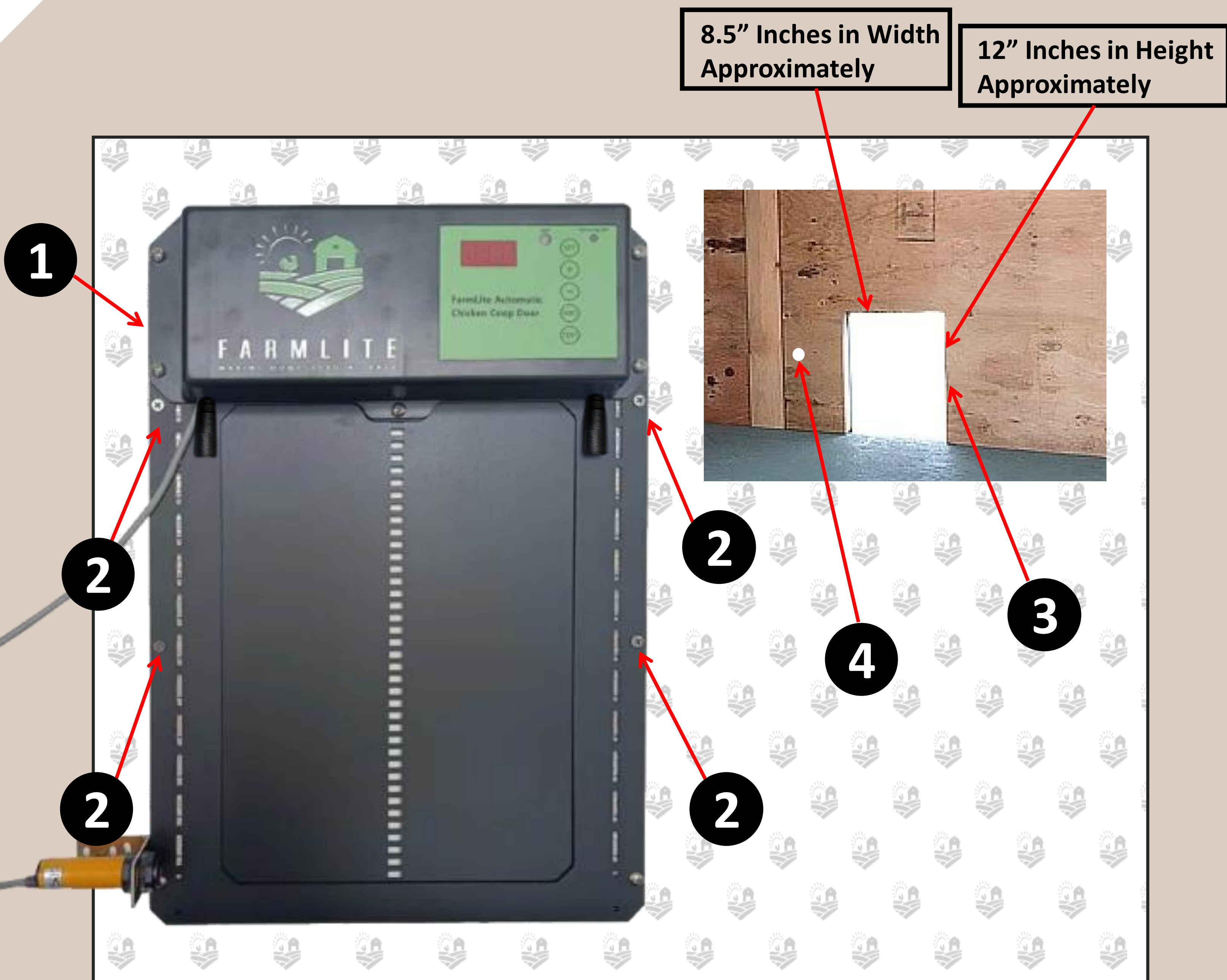
10. Rain Shield (Not Required)

11. Battery Backup Power Plug

12. Emergency Backup Battery (8X AAs) Pack



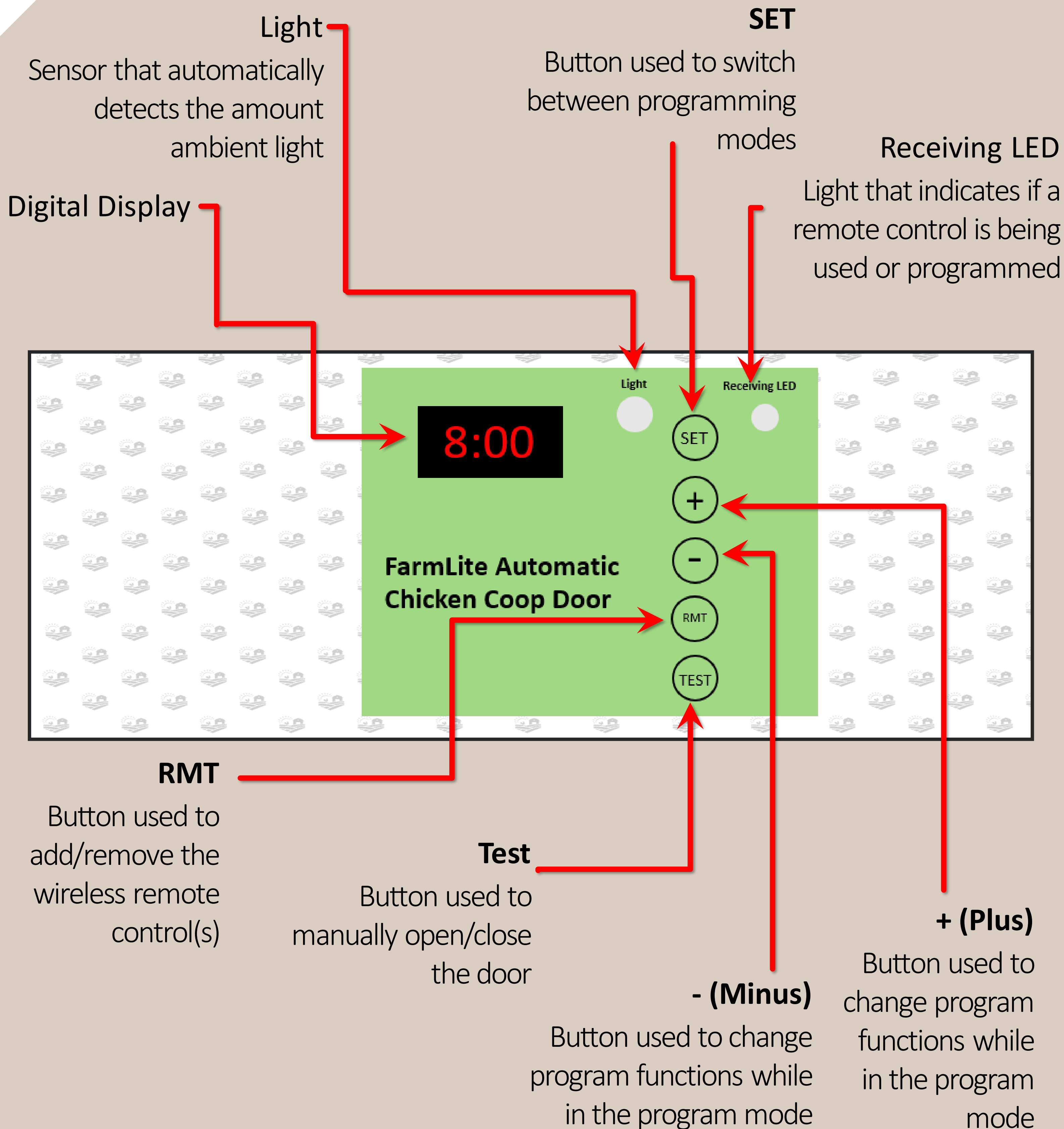
Installation Introduction



1. Chicken Coop Door Frame
2. Screw Installation Location
3. Chicken Coop Structure/Wall (with hole for the Chicken Coop Door Frame Installation)
4. Hole for power supply to run through to ensure power is protected from weather



Control Panel Introduction





Specifications

- » **Unit Weight:** 4lbs
- » **Power Supply:** AC/DC Power Adapter (Input (100-240V 50/60hz) to Output (12V 3A)) with cord (30 inches) that has a DC (5.5x2.1mm) Male Plug (Outside Diameter: 5.5mm, Inside Diameter: 2.1mm, Length: 10mm)
- » **Female Plug:** DC (5.5x2.1mm) Plug (Hole Diameter: 5.5mm, Pin Diameter: 2.1mm, Length: 10mm)
- » **Solar Panel or Battery Backups:** DC (5.5x2.1mm) Male Plug (Outside Diameter: 5.5mm, Inside Diameter: 2.1mm, Length: 10mm)
- » **Wireless Remote Control:** Frequency 433 MHZ with a range of up to 40 meters
- » **Wireless Remote Control Battery:** A27 12V
- » **Backup Battery:** 3000 mAh Lithium Ion Battery
- » **Emergency Battery Pack (If Door Does Not Have Power Attempt to Power Door with this):** Takes 8x AA Batteries



Operations Manual

General Introduction

The FarmLite Automatic Chicken Coop Door is the perfect solution for a more enjoyable Homesteading way of life. We utilize modern technology and put that into a slim compact design to provide our customers with the best Automatic Chicken Coop Door available.

Our product is made to support your Homesteading goals and to help make homesteading easier. **We suggest to use the power cord or solar to power your door, this door uses a lot of power due to it being a sturdier door so batteries will die fast!**

General Installation

1. Verify/create an opening in the chicken coop structure/wall such that the chicken coop door frame can be installed and securely fastened with screws. Width = 8.5" inches, Height = 12" inches
2. Attach the chicken coop door frame to the chicken coop structure/wall with the self-tapping screws (**DO NOT OVERTIGHTEN OR DOOR WILL COMPRESS AND NOT OPEN**). Ensure the chicken coop door frame is flat (no gaps/warps) against chicken coop structure/wall after the self-tapping screws are installed. Use a power tool to install screws through door.
3. Connect the DC Male Plug of the AC/DC Power Adapter to either one of the DC Female Plugs on the chicken coop door.
4. Connect AC/DC Power Adapter to a power source and the chicken coop door will turn on as confirmed by the Digital Display being illuminated. Ensure power source is protected from weather by plugging in on interior of coop or building a simple power supply box to prevent water intrusion.



Operations Manual

General Installation Continued

IMPORTANT

5. You can **NOT** have the light sensor and the timer both turned on, to utilize the light sensor or the timer see page 13-16.
6. Don't forget if the door isn't opening/closing all of the way try loosening the screws on the door. The door can get pinched if the door is installed to tight.
7. ******If the door is not closing** but it has power and opens fine try adjusting the screw on the back of the infrared sensor counter clockwise one or two full rotations and try closing it again. See next page for pictures depicting it. If that does not work then unscrew the cap and clean off the lens that senses.
8. If you have exterior trim or anything that could make the door installed uneven then use 2x4s or some flat pieces of wood to ensure flushness.
9. If using power cord, **plug in through a surge protector.**
10. Install the lithium battery backup next to the coop door and plug it into the left power plug, the power supply cord will recharge this battery backup in case of power outages, a solar panel can also be connected to the battery if it has the same plug size.

OPTIONAL RAIN SHIELD

11. Use two ½" to 1" wooden spacers and install them above door at the width of the holes in the rain shield.
12. Install rain shield onto the two wooden spacers so door can go up and behind the rain shield.

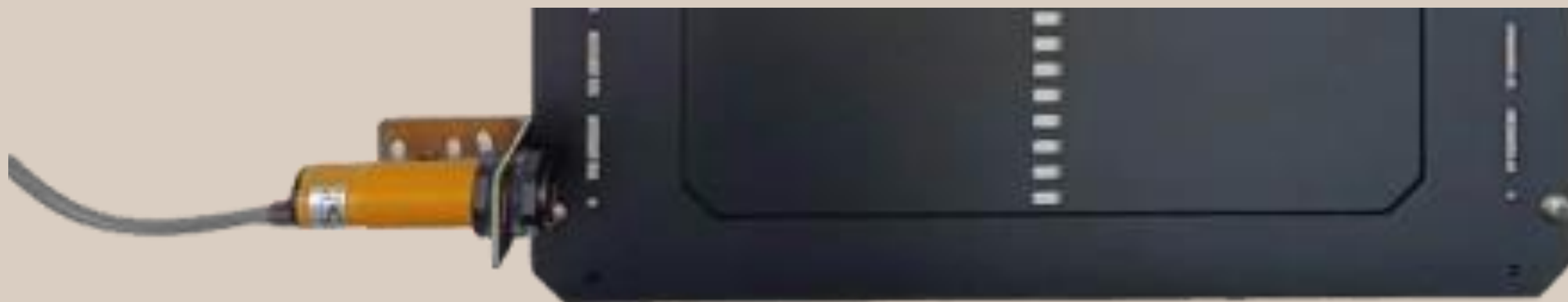
****** = Extra Important**



Operations Manual

General Installation Continued (Motion Sensor)

10. Install sensor bracket at desired height next to door to mount infrared laser (motion sensor).

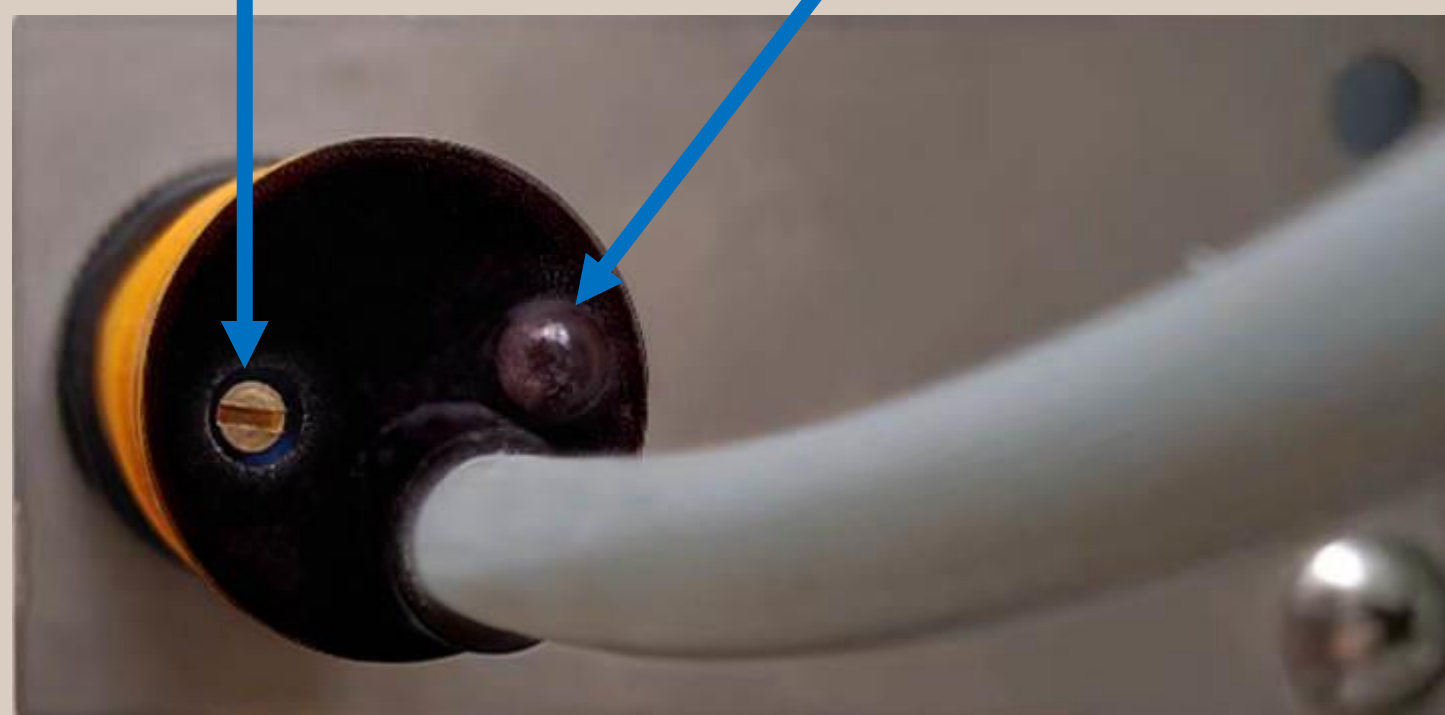


11. There is a red light on the sensor to indicate when something is blocking the infrared ray. While the red light is illuminated the door will not close.

12. To change the depth the sensor measures turn the screw on the back side of the sensor. Counter clockwise shortens the infrared laser and clockwise lengths it! See our video on our website for further explanation!

Infrared Adjustment Screw

Motion Sensor Light





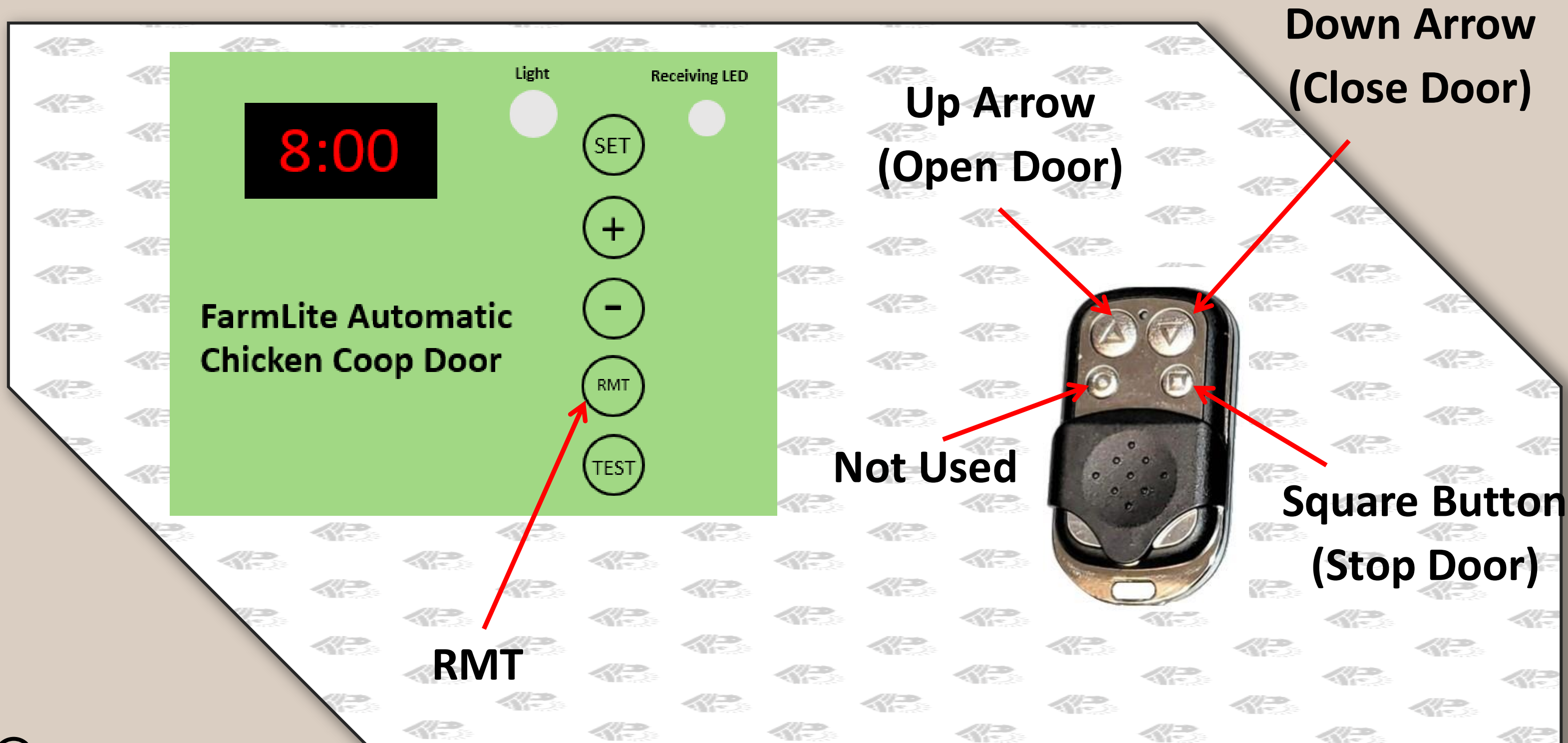
Operations Manual

Continued...

1.0 - Programing the Wireless Remote Control(s)

1. Verify the remote control battery(s) are installed in the remote control(s) (**Battery(s): A27 12V sold separately**).
2. To pair a remote control to the chicken coop door push and hold the **RMT** button on the control panel down for 1 second. Then press any button on the remote control twice. To pair the second remote control repeat this step.
3. To un-pair all remote control(s) push and hold the **RMT** button on the control panel for 4 seconds.

Note: If power is removed from the chicken coop door for a short period of time and power is reapplied, the remote control(s) will still be paired to the chicken coop door.





Operations Manual

Continued...

4.0 – Programming the Chicken Coop Door

Sequentially pushing the **SET** button on the control panel will cycle through the different settings to be programmed.

1. Setting the Local Time (24 Hour Time Format) for the Door

6AM = 6:00, 7AM = 7:00

7PM = 19:00, 8PM = 20:00

1.1 Push the **SET** button on the control panel to display 1

1.2 The Hours time unit will flash. Adjust the time unit by pushing the **+** (Plus) or **-** (Minus) button.

1.3 Push the **SET** button to switch to the Minutes time unit. The Minutes time unit will flash.

1.4 Adjust the time unit by pushing the **+** (Plus) or **-** (Minus) button.

1.5 Push the **SET** button to confirm the time setting and the next setting **2t:0P** will be displayed to program.

2. Setting Timer Open Time (24 Hour Time Format)

2.1 Push the **SET** button on the control panel to display **2t:0P**

2.2 The Hours time unit will flash. Adjust as required.

2.3 Push the **SET** button to switch to the Minutes time unit.

2.4 Adjust as required.

2.5 Push the **SET** button to confirm the time setting.



Operations Manual

Continued...

3. Setting Timer Close Time (24 Hour Time Format)

3.1 Push the **SET** button on the control panel to display **3t:CL**

3.2 The Hours time unit will flash. Adjust as required.

3.3 Push the **SET** button to switch to the Minutes time unit.

3.4 The minutes time will flash. Adjust as required

3.5 Push the **SET** button to confirm the time setting.

4. Setting Light Sensor Open/Close Settings

4.1 Verify/Push the **SET** button on the control panel to display **4 L**

4.2 To set the **Brightness Level to open the door**, OP then a number will be displayed. 0 is the level that will open the door when it is darkest outside and 9 is the level that will open the door when it is brightest outside. Push the SET button to confirm. CL will appear.

4.3 To set the **Brightness Level to close the door**, CL then a number will be displayed. 0 is the level that will close the door when it is brightest outside and 9 is the level that will close the door when it is darkest outside.

4.4 Push the **SET** button to confirm and the next setting **5t:0N/OF** will be displayed.



Operations Manual

Continued...

4.3 Setting the Ambient Light Brightness Level to Open & Close the Door Automatically

We suggest starting the 4L OP setting at 4 and the CL setting at 7. Make sure to check on the door the first few days and adjust these settings as you see fit to ensure the door opens and closes around the times you desire!

Remember, **For Open**

9 = The most light for the door to open

0 = The least for the door to open

Remember, **For Close**

9 = The least light for door to close

0 = The most light for the door to close

4.4 5T must be set to OF which means the timer is turned off to use the light sensor and 6L must be set to ON. If having issues unplug door and plug it back in.



Operations Manual

Continued...

5. Turning Timer ON/OFF

- 5.1 Verify/Push the **SET** button on the control panel to display **5t:0F** (Turning the Timer On or Off to Open & Close the Door). Change to **ON** to utilize the timer.
- 5.2 Press the **+ (Plus)** button to Turn the Timer ON.
- 5.3 Press the **- (Minus)** button to Turn the Timer OFF.
- 5.4 Push the **SET** button to confirm and the next setting **6L:0F** will be displayed.

6. Turning Light Sensor ON/OFF

- 6.1 Verify/Push the **SET** button on the control panel to display **6L:0F** Change to **ON** to utilize the light sensor.
- 6.2 Press the **+ (Plus)** button to Turn the Ambient Light control ON.
- 6.3 Press the **- (Minus)** button to Turn the Ambient Light control OFF.
- 6.4 Push the **SET** button to confirm and the next setting **7A:3** will be displayed.

Remember the timer and light sensor cannot be used together, it's one or the other!



Operations Manual

Continued...

7. Adjusting the opening resistance of the Door when it Opens

7.1 Verify/Push the **SET** button on the control panel to display **7A: 3**

7.2 The unit 3 will flash. This unit can be changed from 1 thru 6. This unit represents the following: Level 1 is lowest resistance level that will stop the door from opening and Level 6 is greatest resistance level that will stop the door from opening.

7.3 Push the **SET** button to confirm and the next setting **8F: 3** will be displayed.

8. Adjusting the closing resistance of the Door when it Closes

8.1 Verify/Push the **SET** button on the control panel to display **8F: 3** (Adjusting the resistance when the Door Closes).

8.2 The unit 3 will flash. This unit can be changed from 1 thru 6. This unit represents the following: Level 1 is lowest resistance level that will stop the door from closing and Level 6 is greatest resistance level that will stop the door from closing.

8.3 Push the **SET** button to confirm.



How To Power By Solar?

Go to www.FarmLite.Store and click on the How-To Power By Solar tab or contact us via hello@farmlite.store for further help! We will walk you through the process!

CAUTION: DO NOT TOUCH LEAD WIRES TOGETHER!

What you need:

5W – 25W Solar Panel

12V 10Amp Solar Charge Controller

12V Battery 5-10 Amp Hour Battery

1. Install Solar Panel in direction to optimize for sunlight.
2. Connect solar panel to solar charge controller.
3. Connect battery to solar charge controller.
4. Connect auto chicken coop door to solar charge controller.
5. Protect solar charge controller and battery in enclosing to protect from rain/weather.

IMPORTANT

1. Ensure colors are wired together properly as follows
Red/Brown are positive (+) Leads and should be connected together.
Blue/Black are negative (-) Leads and should be connected together.



How To Power By Solar?

continued...

1. See examples of products below

Figure 1: Solar Charge Controller and 25W Solar Panel



Figure 2: 12V 10Amp Hour Battery





Maintenance & Troubleshooting

Remote Control(s) Not Working

- » Check that the remote control battery(s) are installed in the correct direction and the battery(s) are full of charge. Replace batteries if required.
- » Try re-programming the remote(s).
- » Check that the Chicken Coop Door is powered on.

Chicken Coop Door Does Not Power On

- » Ensure there is power going to the unit.
- » Check the electrical connections powering the unit to ensure they are not dirty or damaged.
- » Try the external battery pack with new double AA batteries, flip the battery pack switch to ON. If the door powers on the power cord is bad.

Chicken Coop Door Does Not Open and/or Close Automatically with the Local Time or Brightness Settings

- » Check to see if the settings used are programmed correctly and the features are not turned off (Refer to Page 13-16 for programming instructions).

Chicken Coop Door Will Not Close

- » Check the motion sensor, see page 10. If the light is illuminated on the back of the sensor the door will NOT close. Adjust the screw counterclockwise and/or clean the lens off.



Maintenance & Troubleshooting

Timer isn't working properly

Follow these instructions to diagnose whether your timer is faulty or the door settings were not set correctly.

1. Unplug the door from power
2. Plug the door back in
3. Set local time to 0800, push SET button and 2t:OP will appear
4. Set 2t:OP to 0805, push SET button and 3t:CL will appear
5. Set 3t:CL to 0807, push SET button until you see 5T:OF appear.
6. Turn 5T: to ON by pushing the + button then press the SET button to confirm.
7. Ensure 6L is set to OF
8. Do not change any other settings.
9. Wait until the door goes to 0805 to confirm if the door opens.
10. Wait until the door goes to 0807 to confirm the door closes.
11. If following these steps made your door work follow the same instructions to program the door to your local time and your door open and close time. Ensure to unplug the door again prior to doing so just to give it a hard reset.

If this troubleshooting did not fix your door then please reach out to me via email and I'll respond shortly or give you a call.

If you need further help please email us at hello@farmlite.store and we will get back to you within a couple of hours!



Frequently Asked Questions (FAQ)

What is the Lithium Ion Battery For?

This 3000 mAh lithium battery is for you to plug in to the other power port so if the door loses power temporarily from the primary power supply the lithium battery will take over and you won't lose the current time programming!

What is the Emergency Backup Battery Pack For?

Use this in case of complete door power loss. If the digital display is ever not on you can add 8 double A batteries to this battery pack and it will power the door temporarily.

Why are there 2 DC Female Plugs?

The second DC Female Plug can be used to connect the DC Male Plug & Pigtail with a solar panel or the lithium battery backup.

Can a Solar Panel be used with the unit?

Yes, it can be connected/installed with the supplied DC Male Plug & Pigtail or by the lithium backup battery.



Frequently Asked Questions (FAQ)

Can the AC/DC Power Adapter Cord be extended?

Yes, an DC Male/Female extension cable can be used.

(Refer to Page 7 for the dimension DC Plug specifications)

Does the Chicken Coop Door have to be installed on the inside or outside of the of the chicken coop?

It depends on how you plan to use it. If it is installed on the inside of a closed off coop then the light sensitivity settings will not operate properly.

What to do if the Door Jams when opening or closing the door?

Ensure the door frame is installed **flat against the wall** and that there are no foreign debris found in the path of travel of the door. **Also ensure the installation screws are not installed too tight!**

What to do if the Door does NOT open/close all of the way?

1. See Page 17 for adjusting door open/close resistance. The resistance settings are to protect your door and your chickens. Ensure no obstructions in opening. 2. If the door is NOT closing try adjusting the infrared motion sensor, point it into open space and try to close the door.



Frequently Asked Questions (FAQ)

How do I reach out to FarmLite for Technical support?

Go to our website www.farmlite.store OR send us an email at hello@farmlite.store We are always available to help!

My unit is not working, what do I do?

Check out the rest of this manual or send us an email at hello@farmlite.store We are always available to help!

How do I prevent the power supply cord from getting wet?

Use electrical tape and sufficiently wrap the connection point, drill a hole next to the door to run the power supply through so the power supply is not exposed to the weather.

How should I power my door?

Use the power cord and power from your grid or go solar! Send us an email if you need help setting up the solar, it's inexpensive and simple!

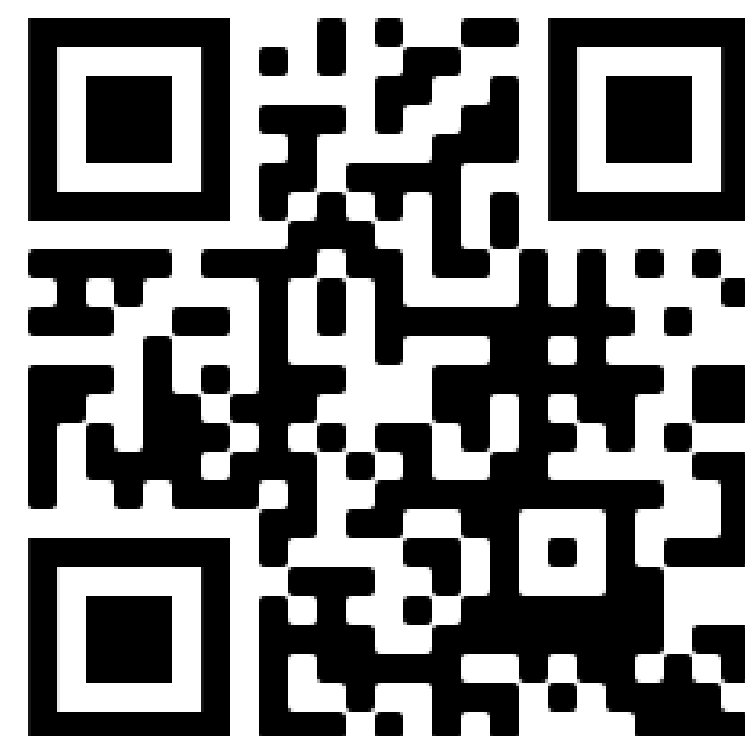
Do I need to use the Rain Shield?

You do not need to use it, the unit is water resistant but if you want to keep some water off of the door or out of the chicken coop then the shield helps with that.

Can I use the timer and the light sensor?

No, only one function can be utilized so they don't contradict each other.

Questions? Scan me!





Warranty

Warranty Promise

The FarmLite Automatic Chicken Coop Door is backed by a 12 month warranty. Before processing a part replacement, we'll walk you through several troubleshooting steps, so be patient and allow us to properly diagnose the issue and path forward. Sign up for our warranty on www.farmlite.store

After the 12 months we offer at our cost replacement of parts and shipping.

Void of Warranty

- » If there is any foreign object debris inside the machine or it looks like it's been tampered with the warranty will be voided.
- » If any internal parts have been replaced and/or messed with without contacting FarmLite customer support, warranty will be voided.