INS TRUC TIONS

DOOR OPENER

HAPPY HENHOUSE

The package includes the following parts (as shown in the following figure):

- a. front panel
- b. control box
- c. battery compartment (4x AA batteries)
- d. 4 x M2 x 12 tapping screws
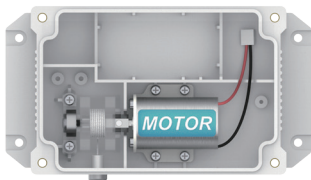- e. 4 x M4 x 40 flat head screws
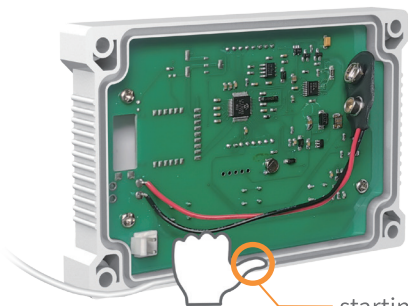- f. silicone seal

a

b

c

d

e

f

TIP: A phillips screwdriver is required for assembly and disassembly.

01 Remove the silicone seal from the zip lock bag. Press the silicone seal into the recess around the edges of the inside of the front panel, start from the bottom center and work your way round the front panel, cut off the excess length.


starting point

02 Insert the batteries into the battery compartment and then place it into the control box. Do not use 9V batteries and lithium ion batteries. Attach the battery connector to the battery compartment.
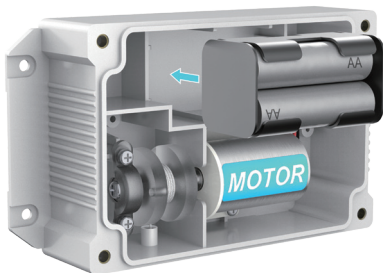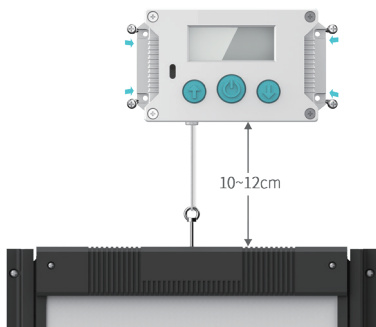
03

Connect the motor connection wire connector to the corresponding position on the circuit board. Then use four M4 × 30 flat head screws to screw the front panel to the control box.
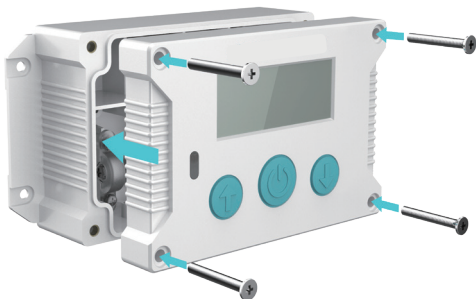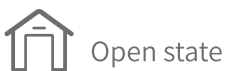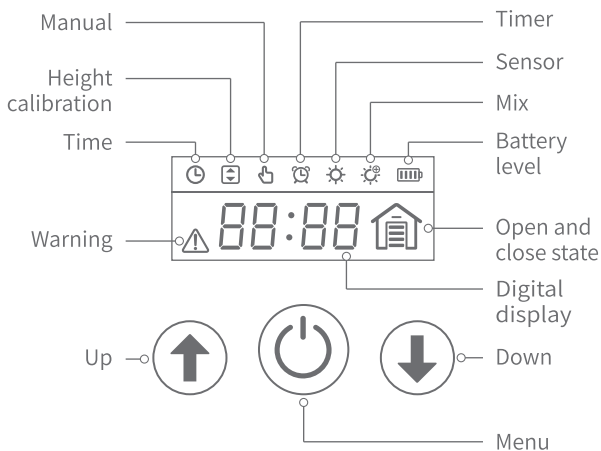
04

Install the assembled device above the door. The distance between the bottom of the device and the top of the door when open should be approx. 10-12 cm, as shown in the below diagram. Secure it with the four tapping screws. Installation is now complete.

10~12cm

Manual

Height calibration

Time

Timer

Sensor

Mix

Battery level

Warning

Open and close state

Digital display

Up

Down

Menu

Open state

Close state

Opening

Closing

Part C | Setting

00 | System time setting (24-hour)

⚠ : before setting, tie the end of the rope to the door and make sure the rope is tight. If the rope is loose, the internal rope may get stuck.

1. Press any key to light up the screen, and then press ⏻ to enter the settings.

2. Press ⬆ / ⬇ to set the hour when the hour flashes, press ⏻ to save and enter the minute setting.

3. Press ⬆ / ⬇ to set the minute when the minute flash, press ⏻ to save and enter the next step 【 01 Opening height calibration 】.

🕐

```
12:04
```

⬆   ⏻   ⬇

Up   Menu   Down

5
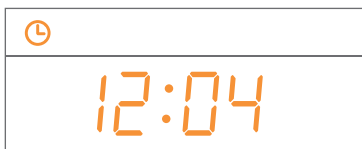
01 | Opening height calibration

⚠ : both STEP 01 and 02 need to be completed. If both are skipped, the previous setting will be maintained. If you encounter an E4 error, please perform a reset and start again.

1. The icon ⬍ is displayed, and the opening Gif is displayed on the right as shown below. Press ⬆ / ⬇ to adjust the door height until the door is fully open.

2. Press ⏻ to save and enter the next step 【02 Closing height calibration】.
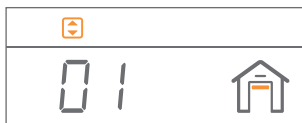
Opening

02 | Closing height calibration

1. The icon ⬍ is displayed, and the closing Gif is displayed on the right as shown below. Press ⬇ to adjust the door height until the door is fully closed.

2. Press ⏻ save and enter the next step 【03 Opening mode setting】.

Closing

03 | Opening mode setting

1. The icon 👆 is displayed, and the coop door icon is fully open, as shown below. Press ↑ / ↓ to switch between the various modes, the top icons 👆 ⏰ ☀ will also change to indicate the selected mode.

2. Press ⏻ to select the required mode and enter its settings.

👆 Manual	This mode is to halt the automatic opening of the coop door. You would have to open the door manually by pressing ↑ / ↓. It's useful if your birds do not develop the habit of returning to the coop. When icon 👆 flashes, press ⏻ to save.
⏰ Timer	This mode is for automatic opening of the coop door in the morning at the time you have set, as shown on the following figure.

⏰ Timer

Press ↑ /↓ to set the hour when the hour flashes, press ⏻ to confirm and enter the minute setting.
Press ↑ /↓ to set the minute . when the minutes flash, press ⏻ to confirm and proceed to the next step.

```
        ⏰
   07:00  🏠
```

☀ Sensor

This mode is for automatic opening of the coop door at dawn using the light sensor, as shown below. The number on the left shows the current ambient light level, and the flashing number on the right is the desired light level you would like to set for opening the door. Press ↑ /↓ to adjust the flashing value, press ⏻ to confirm and enter the next step. The door opener will open the door when the ambient light level reaches the desired light level you have set.

```
        ☀
   72:80  🏠
```

3. After the door opening mode is set, it will go to the next step
【04 Closing mode setting】.

04 | Closing mode setting

1. The icon 🖐 is displayed, and the coop door icon is fully open, as shown below. Press ⬆ / ⬇ to switch between the various modes, the top icons 🖐 ⏰ ☀ ⚙ will also change to indicate the selected mode.

2. Press ⏻ key to select the required mode and enter its settings.

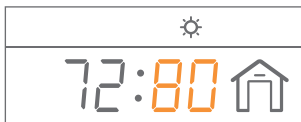| 🖐 Manual	This option is to halt the automatic closing of the coop door. You would have to manually close the door by pressing ⬇ . It's useful if your birds haven't developed the habit of returning to the coop.When 🖐 icon flashes, press ⏻ to save.
⏰ Timer	This mode is for the automatic closing of the coop door at dusk at the time you have set, as shown on the following figure. Press ⬆ / ⬇ to set the hour when the hour flashes, press ⏻ to confirm and enter the minute setting. Press ⬆ / ⬇ to set the minute when the minute flash, press ⏻ to confirm and proceed to the next step.

⏰ Timer
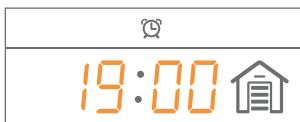
☀ Sensor

This mode is for the automatic opening of the coop door in the evening /at dusk using the light sensor, as shown below. The number on the left shows the current ambient light level, and the flashing number on the right is the desired light level you would like to set for closing the door. Press ↑ / ↓ to adjust the flashing number to a desired light level, press ⏻ to save and enter the next step.

☀⊕ Mix

This mode uses a combination of both Sensor and Timer, when selecting this mode, you will be requested to set the default time first, and the screen will display ⏰ , when this is set, the door opener will use the Light Sensor as its primary reference for closing. if it is not dark enough to close using the Light Sensor, the default time you set will be used instead.

3. After the closing mode setting is completed, the screen displays SAVE, indicating the end of the setting up process. After that, the screen will power down in 120 seconds later to save battery.

TIPS:

- The screen will always be on when the setting is not completed, and the battery consumption will be high.

- No matter what mode is set, you can open / close the door manually by pressing ⬆ / ⬇ .

- During the setting up process, the battery level icon 🔋 is not displayed. You can judge whether the setting up is in progress by looking at this icon.

- The main interface will display the system time and the mode. For example, if the door opening setting is Timer and the closing is Mix, then the main interface will display both the Timer ⏰ and the Mix ☀ icons.

The four screws fixing the front panel and control box need to be tightened to prevent water issues.

Installing the device indoors will affect the accuracy of the Sensor and Mix modes.

Frequently lighting up the screen will increase battery drain.

When the door is opening or closing, the following screen will be displayed until it has finished.

During either opening or closing, the opener won't stop automatically. If the door is stuck, the opener will try to clear the problem three times. If still stuck, error code "E1" appear and the door will stop.

If you'd like to test that the door will open and close using the light sensor, simply choose Sensor mode for both opening and closing. Hold your hand over the sensor for 4 minutes to simulate darkness and the door will close. Remove your hand and the door will open 4 minutes later.

After replacing the battery, it's recommend to press ⬆ / ⬇ to open and close the door once to check it is working properly.

Pull and plug the terminals on the motor connection cable, as shown below.
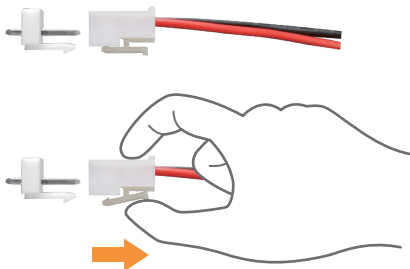
If the screen does not light up when pressing any key, please check the battery connection and battery status.

Press ↑ / ↓ , if the door does not move and the screen does not light up properly, then please check the motor cable connection.

If the battery icon 🔋 appears, it means your batteries' levels are getting low and you will need to replace them soon.

If the icon ⚠ appears, please recalibrate the height of the door.

It's recommend to install the opener in a dry place away from any rain. This will prolong the life span of the opener.

Indicator

The LED flashing speed indicates different errors:

Flash frequency	Status	Solutions
Flash every 2s	the door is either opening or closing	No action required.
Flash every 40s, and flash once when the screen light is on	flat battery	Check the battery icon to see battery status, if icon 🔋 appears, change the batteries.
	E3 error	Refer to the error code table.
Flash for 2 seconds every 2 seconds	E1 or E2 error	Refer to the error code table.

Error codes

When icon ⚠ is displayed and an error code appears, please troubleshoot according to the following table.

Code	Reason	Solution
E1	The door is too heavy	Check the door weight, make sure the weight is below the allowed maximum value.
	The rope/door is stuck	Check whether the cord/door is stuck. Clear the obstacle and recalibrate.

Code	Reason	Solution
E1		If you do not recalibrate, E4 will appear in the display reminding you to recalibrate. If the error still occurs after troubleshooting, please send the device for repairs .
E2	Input voltage is too high	Check the battery size, make sure to use AA alkaline battery. Recalibrate the door opening/closing height. If the error still occurs after changing the batteries, please send the device for repairs.
E3	Battery is flat	Check the battery level. If the batteries are flat, replace them.
	The door's weight is over 2 kg	Check the door weight. If door is too heave, replace it.
	Front panel removed	Check whether the front panel is correctly attached. If not, attach properly.
	The motor is not connected properly	Check the motor connection. If not connected properly, correct it and then press ⏻ and recalibrate the door.
	Internal control board damaged	If E3 still occurs after troubleshooting. Please send the device for repairs.
E4	Height calibration is not complete during setup	Recalibrate the opening/closing height.

Part E | Paramater

Product parameters

Product Name	Automatic chicken coop door opener
Case Material	ASA
Net Weight	0.5 kg
Rated Door Weight	Less than 1.5 kg
Product Size	158×88.6×54 mm
Power Supply Mode	4×AA batteries
Supply Voltage	4.5-7.4 V
Supply Current	0.15 mA
Warranty	2 years

HAPPY
HENHOUSE

happy-henhouse.com