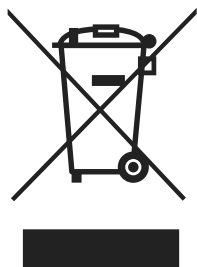
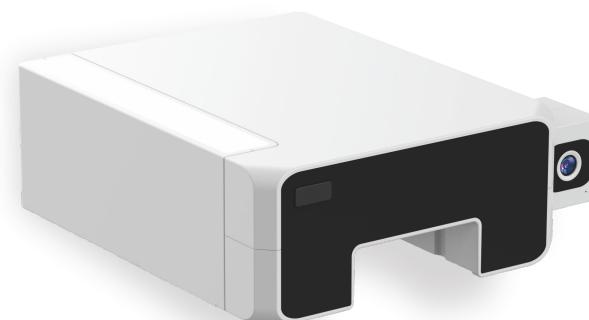


GARAGE DOOR OPENER INSTALLATION & USERS MANUAL



ENVIRONMENT FRIENDLY DISPOSAL

You can help protect the environment!
Please remember to respect the local regulations :hand in the non-working electrical equipments to an appropriate waste disposal center.



WARNING: IT IS VITAL FOR THE SAFETY OF ALL PERSONS INSTALLING AND USING THIS OPENER TO FOLLOW THE INSTALLATION INSTRUCTIONS AND SAFETY WARNINGS. FAILURE TO COMPLY MAY RESULT IN SERIOUS PERSONAL INJURY AND/OR PROPERTY DAMAGE AND FAILURE OF THE OPENER SYSTEM.

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1. Functions

Micro Intellectual Control:

One button to control open, stop and close. The light is on while opening or closing the door, three minutes later the light is off automatically. The unit running is controlled by computer program. Test the force of open or close the door, the optional function is photo beam, auto-close, lock door, etc. The door pauses momentarily then rebounds when it reaches the hinders on the closing way. The protecting functions are overload, over hot or low power input, etc.

Dc Motor:

Low noise, soft start, slow stopping to protect the unit and make sure it can be used for a long time.

LED Display:

Working situation can be shown on the LED screen.

Decoding:

Rolling code.

Manual Disengagement:

Open and close the door by hand without power.

Optional Functions:

Photo beam, battery backup and wall button .



WARNING

Do not operate this opener unless you are trained and authorized.
If you have questions, please call professionals.

1.1 Safety Instructions for Installation



Risk of deadly electric shock from mains voltage

- Make sure that the on-site electrical installation conforms to the respective, applicable protective regulations.
- Before performing work on the system, disconnect the mains plug and the plug of the emergency battery.
- Safeguard the system against being switched on again without authorization.



Testing the door system

- For your own safety, of the door and, if required, maintenance and repair work!
- Never try to replace, adjust, repair or reposition the compensating springs for the counterbalance of the door or the spring mountings yourself.

A malfunction in the door system or incorrectly aligned doors can cause serious injuries!

- Do not use the door system if repair or adjustment work must be conducted!
- The operator is not designed for the operation of sluggish doors. These doors are either difficult or impossible to open or close manually.



Attention

Malfunctions in the connection cables Connection cables and supply cables laid together can result in malfunctions.

- Duct the operator's connection cables (24 V DC).
- In an installation system that is separate from the supply lines.

External voltage at the connecting terminals
External voltage on the connecting terminals of the control will destroy the electronics.

- Do not apply any mains voltage. to the connecting terminals of the control.

**Warning**

Danger of injury due to unwanted door travel Incorrect assembly or handling of the operator may trigger unwanted door travel that may result in persons or objects being trapped.

- Follow all the instructions provided in this manual.
- Incorrectly fitted control devices (e.g. buttons) may trigger unwanted door travel. Persons or objects may be jammed as a result.
- Install control devices at a height of at least 1.5m(out of the reach of children). Fit permanently installed control devices (such as buttons, etc.) within sight of the door, but away from moving parts.

**Danger of injury during door travel**

Persons may be injured by door travel if the hand transmitter is actuated.

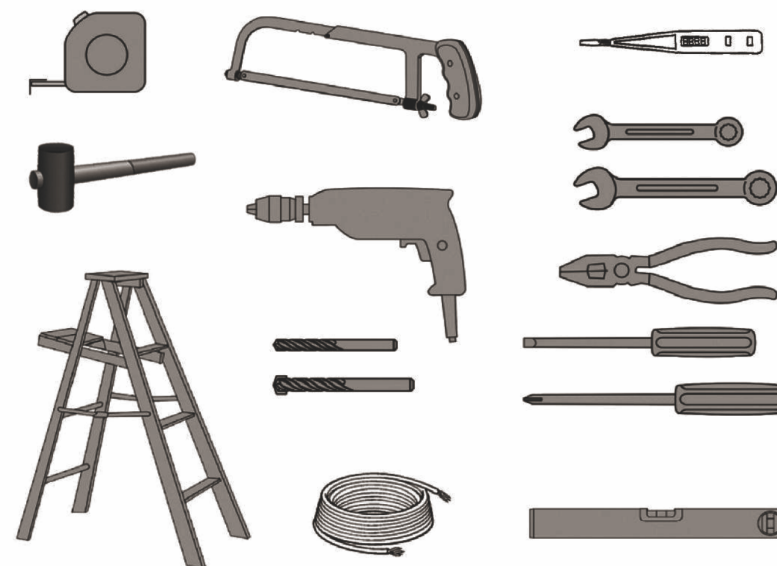
- can only be used by people who have been instructed on how the remote-control door system functions!
- If the door has only one safety feature, only operate the hand transmitter if you are within sight of the door!
- Only drive or pass through remote-control door systems when the door is at a standstill !
- Please note that an unwanted door run may occur if a hand transmitter button is accidentally pressed (e.g. if stored in a pocket/handbag).

Danger of injuries due to unintended door run and unintended door run may occur while teaching in the radio system.

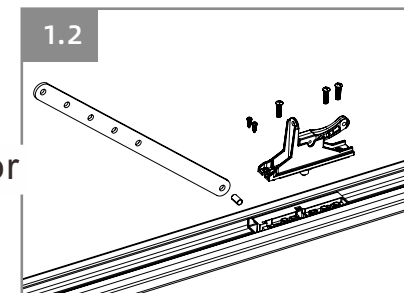
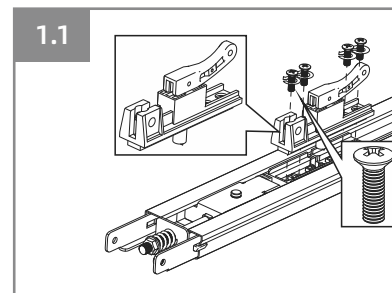
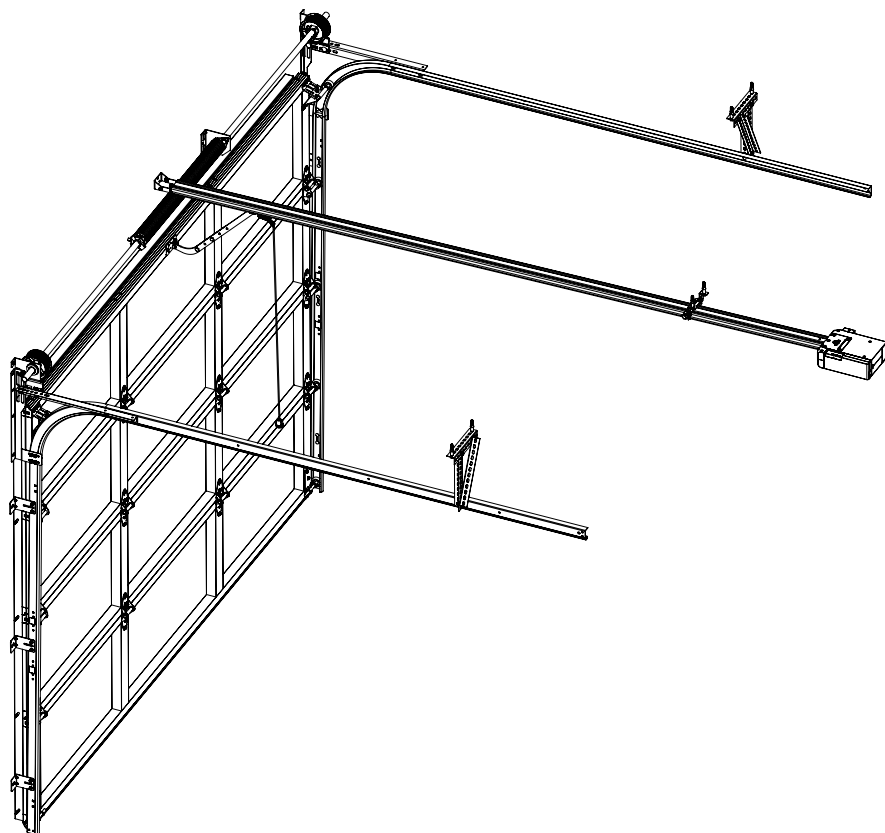
- Make sure no persons or objects are in the door's area of travel when teaching in the radio system.
- Protect the hand transmitter from direct sunlight and great heat (e.g. by placing it in a stowage compartment in the dashboard).
- Danger of injury during door travel Persons may be injured by door travel if the hand transmitter is actuated.
- Make sure that hand transmitters are kept away from children and can only be used by people who have been instructed on how the remote-control door system functions!

2. Technical Specifications

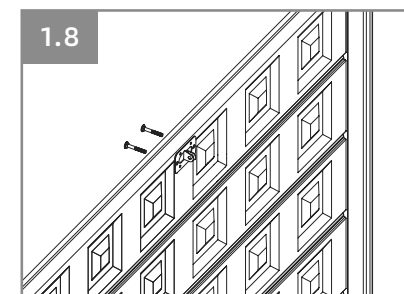
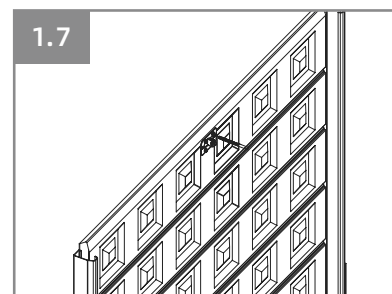
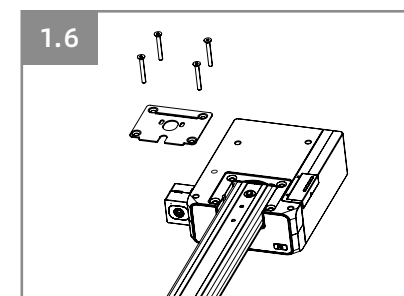
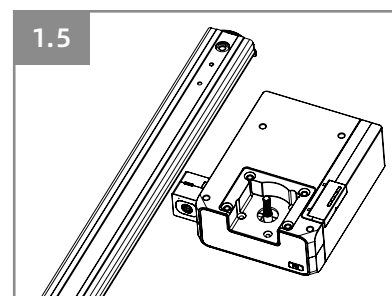
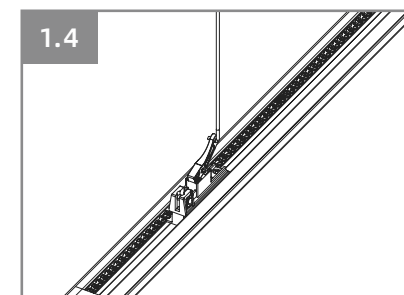
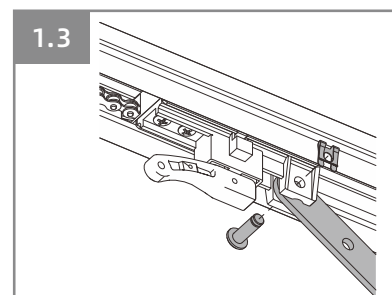
Power Input	AC100-240V 50/60Hz	Reception Frequency	433.92MHz
Motor	24V DC	Decoding	Rolling Code
Working Temperature	-20°C~+40°C	Transmitter Power	CR 2032/ 2XCR2016
Relative Humidity	≤90%	Globe	LED
Standby Power (low-power)	<0.5W	Courtesy light time	1 minute
Sound Pressure Level (LpA)	≤70 dB(A)	Open and close force	800N 1800N

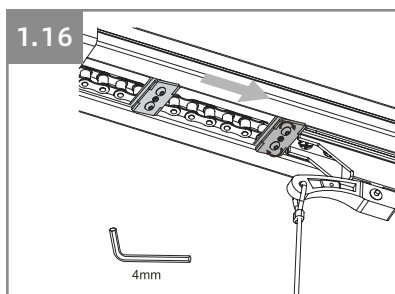
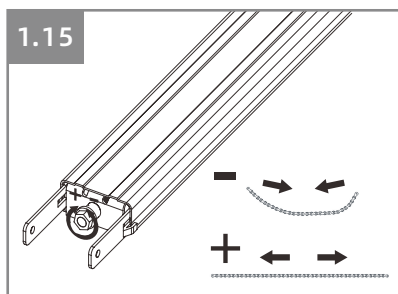
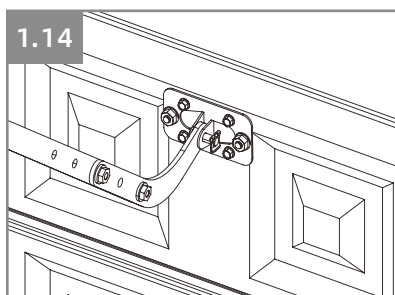
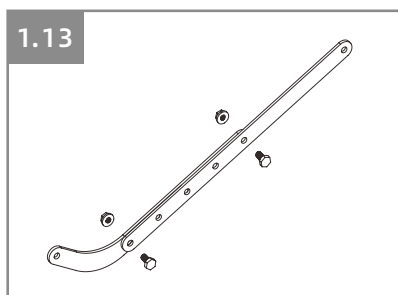
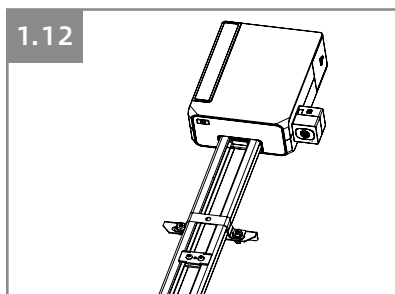
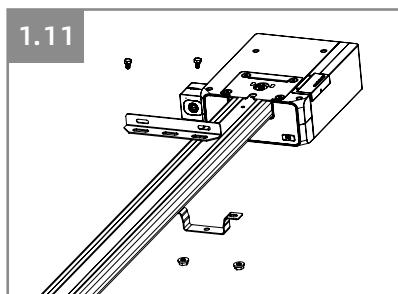
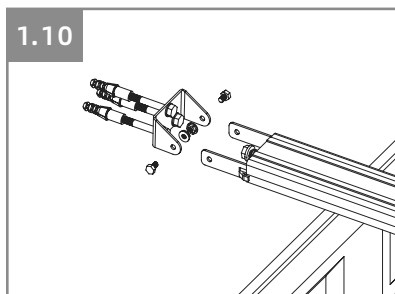
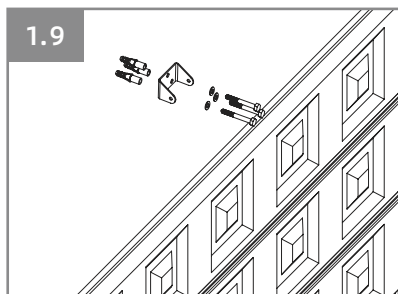
3. Installation**3.1 Recommended Tools**

3.2 Installing the Operator and Rail



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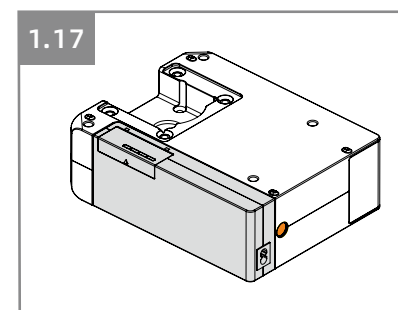




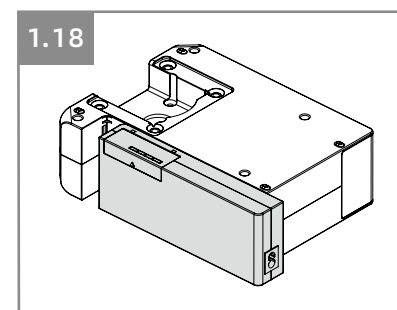
* SUPER IMPORTANT INSTRUCTION (As shown in Figure 1.16)

To avoid the original limits losing, this mechanical limit stopper must be installed to ensure the trolley be able to hit it in every fully opening; it must be tightly mounted and not allowed to move when trolley crash. Please refer to below installation steps:

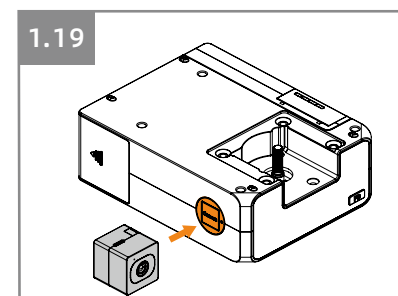
1. Prepare the mechanical limit stopper, check how it will be assembled ;
2. Make the limits setting (UP & DOWN),when door is in fully opening position, put the mechanical limit stopper into the rail close the trolley(must make sure it touches the trolley);
3. Tighten the screw M6 * 10 first, then tighten 2 screws M6 * 14. make sure mechanical stopper clamp the rail and not able to move when trolley crash.



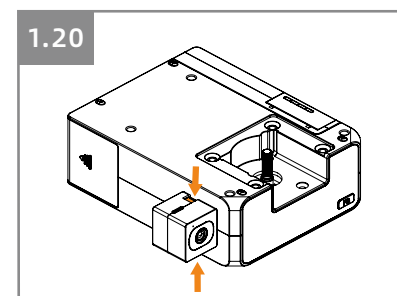
1. Press and hold the unlock button while pulling the control box to remove it.



2. Align control box to plastic buckle, push inward until release button pops out



1. Hold the camera module, align it with the Camera interface on the motor, and push it in until it clicks into place. Note the orientation carefully during installation to prevent damage.



2. When removing the camera, locate the unlocking clips on both the upper and lower sides, press them simultaneously, and the camera can be removed.

4. Control panel and Transmitter



You can control all settings using this control panel.

← P-SET Δ-UP
C-CODE ▽-DOWN



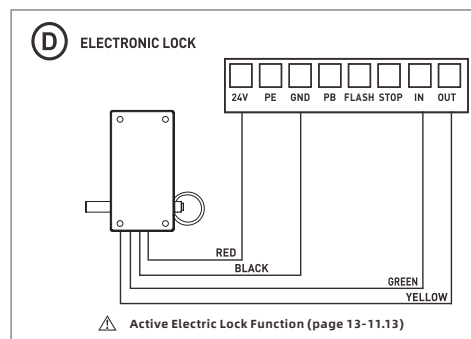
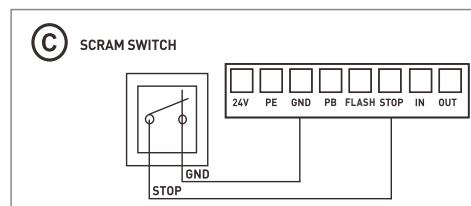
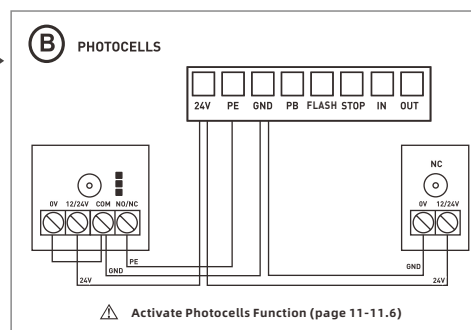
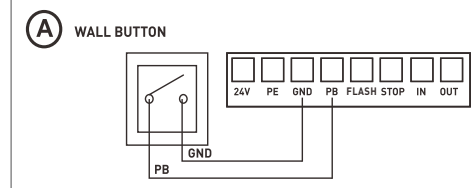
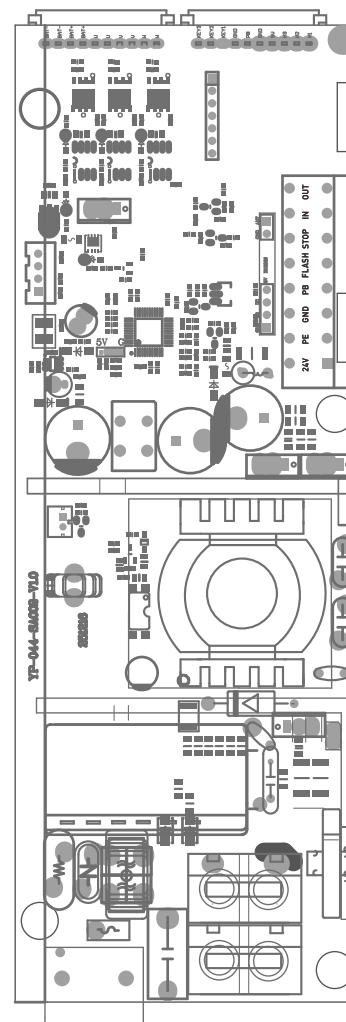
- The remote has four buttons (channels).
- By deactivating the additional features, automatic locking and ventilation, the remote can up to four different garage doors.
- The remote can only control one garage door, when additional features are activated.



Button battery inside this product.

If swallowed, a button battery can become stuck in a child's throat and result in catastrophic injuries and even death. Insertion of button batteries into body orifices such as ears and noses can also lead to significant injuries. Keep new and used button batteries out of sight and out of reach of children at all times.

5. Connect Optional Accessories



6. Programming

6.1 Menu Functions

The control board has a main menu which allows access to all the different settings of the automatism.

	Setting Limits		Display Number of the Counter
	Closing Force Adjustment		Count Maintenance Reminder Function
	Photo Beam		Opening Speed Setting
	Auto-close Function		Closing Speed Setting
	Automatic Lock		Stop Terminal Switch (NO/NC)
	Open Force Adjustments		Electronic Lock
	Ventilation Function		Garden Function
	Follow Function		Enter Low Power Mode

7. Programming The Operator

7.1 Preparing

1	Keep trolley locked. Pull and push the door by hand. Make sure the trolley connects with the shuttle.	
2	Turn on the power, the courtesy light will be on for several seconds. At the same time, the LED will display numbers from 99 to 11. Then the operator turns to standby situation.	
3	At last, it displays "--".	

7.2 Open and Close Positions

1	Press and hold "P" key for 4s, it displays "P1".	
2	Press "P" key, it displays "OP".	
3	Then press and hold "△" key, it flashes "OP".	
4	When the door has reached the open position, press "P". It will display "CL".	
5	Then press and hold "▽" key, it flashes "CL". When the door has reached the closed position, press "P".	
6	The door will open and close automatically to simulate the limiting position that has been set.	 
7	It will display "--" when the setting is complete.	

7.3 Delete History Remotes

1	When the unit has stored 20 codes, it flashes "Fu", or preventing coding mistakes, it is necessary to cancel all the stored codes.	
2	Press and hold "C" key, it displays "Su".	
3	Hold more than 8 seconds, it flashes "dL", all the codes were cancelled.	

7.4 Adding and Coding Transmitters

1	Press "C" key, it displays "Su".	
2	Press a button on the transmitter, then release and press the same button again, "Su" flashes.	
3	Then it displays "--" to show setting is completed. repeat above 1-2 steps to code maximum of 20 different transmitters or buttons.	

7.5 Closing Force Adjustments

1	Press and hold "P" key for 4s, it displays "P1" .	P1
2	Press the "△" key, it will display "P2" , and then press "P" key again, it will display the current setting state.	P2
3	Press "△" or "▽" key can adjust force power, from minimum "F1" to maximum "F9" . press "P" key to save ,return back to standby mode.	F9 F1
4	Default setting: "F5" .	F5

7.6 Photo Beam

1	Press and hold "P" key for 4s, it displays "P1" .	P1
2	Press "△" key twice, it will display "P3" . Then, Press the "P" key to display the current setting state.	P3
3	Press the "△" or "▽" key can adjust the infrared state. Press the "△" key to display "H1" , indicating that the infrared setting is activated; Press the "▽" key to display "H0" , indicating that the infrared setting is invalid. after selecting the function, press the "P" key to confirm.	H0 H1
4	Default setting: "H0" .	H0

7.7 Auto-Close Function

1	Press and hold "P" key for 4s, it displays "P1" .	P1
2	Press "△" key three times, it will display "P4" . Then, Press the "P" key to display the current setting state.	P4
3	Press the "△" or "▽" key button to adjust the time setting. From "b0-b9" , b0 means that the AUTO-CLOSE is invalid; "b1-b9" means that the time is: 10s, 20s, 30s, 40s, 50s, 60s, 90s, 120s, 180s. press "P" key to save, return back to standby mode.	b0 b9
4	Default setting: "b0" .	b0

7.8 Automatic Lock

1	Press and hold "P" key for 4s, it displays "P1" .	P1
2	Press "△" key four times, it will display "P5" . Then, Press the "P" key to display the current setting state.	P5
3	Press "△" displaying "Lc" , shows the automatic lock function is started. Press "▽" displaying "uL" shows the automatic lock function is invalid. after selecting the function, press the "P" key to confirm.	Lc uL
4	Default setting: "uL" .	uL

7.9 Open Force Adjustments

1	Press and hold "P" key for 4s, it displays "P1" .	P1
2	Press "△" key five times, it will display "P6" . Then, Press the "P" key a gain, it will display the current setting state.	P6
3	Press the "△" or "▽" key to adjust force, from minimum "F1" to maximum "F9" . press "P" key to save, return back to standby mode.	F9 F1
4	Default setting: "F9" .	F9

7.10 Ventilation Function

1	Press and hold "P" key for 4s, it displays "P1" .	P1
2	press "△" key six times, it will display "P7" . Then, Press the "P" key to display the current setting state.	P7
3	Press the "△" or "▽" key to adjust the setting. "r0" indicates that ventilation function is turned off . "r1-r6" correspond to: 5 cm, 10 cm, 15 cm, 20 cm, 25 cm, and 100 cm, respectively. press "P" key to save, return back to standby mode.	r0 r6
4	Default setting: "r0" .	r0
5	If "r0" is set, the button can be used to open or close the door .If set to be "r1" to "r6" , this button can only be used for the ventilation function.	

7.11 Follow Function

1	Press and hold "P" key for 4s, it displays "P1" .	P1
2	Press "△" key seven times, it will display "P8" . Then, Press "P" to display the current setting state.	P8
3	Press the "△" or "▽" key to adjust the settings. "00" indicates function is invalid. From "01-10", follow function is set to be "01-10" seconds. press "P" key to save, return back to standby mode.	00 10
4	Default setting: "00" .	00
5	Follow function will activated to close the door after the "01-10" seconds, if there is an infrared signal appears and disappears when the door is opened. (only if the function of Auto-close Function and infrared function are available).	

7.12 Display Number of the Counter

1	Press and hold "P" key for 4s, it displays "P1" .	P1
2	Press "△" key eight times, it will display "P9" . Then, Press "P" to confirm the setting. to display the current setting state.	P9
3	Digital tube will not display till 1s, display the counter 100,000 and 10,000 bits 1s, digital tube will not display till 1s, display the counter 1,000 and 100 bits 1s, digital tube will not display till 1s, display the counter 10 and 1 bit 1s, return to standby state.	

7.13 Count Maintenance Reminder Function

1	Press and hold "P" key for 4s, it displays "P1" .	P1
2	Press "△" key nine times, it will display "PA" . Then, Press "P" to confirm the setting. to display the current setting state.	PA
3	Press the "△" or "▽" key to adjust the setting. shows "00-45" . shows "00" : indicates no count maintenance reminder function shows "05-45" : indicates that the number is set x1000 times. press "P" key to save, return back to standby mode.	00 45
4	When need to counter reset, choose "00" , press the setting key to save, then start counting again, default setting: "00" .	00
5	Note: when fully open the door plus 1 time, when opening the door to reach the set value, the lamp start to flash alarm when open and close the door, and continue to flash alarm for 1 minute after closing.	

7.14 Opening Speed Setting

1	Press and hold "P" key for 4s, it displays "P1" .	P1
2	Press "△" key ten times, it will display "Pb" . Then, Press the "P" key to display the current setting state.	Pb
3	Press the "△" or "▽" key to adjust the setting. range "50" - "00" , "50" Indicates a speed of 50% of full speed, "60" represents a speed of 60% of full speed..... "00" indicates a speed of 100% of full speed. After setting, press the "P" to confirm.	50 00
4	Default setting: "00" .	00

7.15 Closing Speed Setting

1	Press and hold "P" key for 4s, it displays "P1" .	P1
2	Press "△" key eleven times, it will display "PC" . Then, Press the "P" key to display the current setting state.	PC
3	Press the "△" or "▽" key to adjust the setting. range "50" - "00" , "50" Indicates a speed of 50% of full speed, "60" represents a speed of 60% of full speed..... "00" indicates a speed of 100% of full speed. After setting, press the "P" to confirm.	50 00
4	Default setting: "00" .	00

7.16 Stop Terminal Switch (NO/NC)

1	Press and hold "P" key for 4s, it displays "P1" .	P1
2	Press "△" key twelve times, it will display "Pd" . Then, Press the "P" key to display the current setting state.	Pd
3	Press the "△" or "▽" key to adjust the setting. "d0" : indicates that the STOP terminal is normally open (NO); "d1" : indicates STOP terminal is normally closed (NC); press "P" key to save, return back to standby mode.	d0 d1
4	Default setting: "d0" .	d0
5	⚠ When the parameter is set to "d1" , the GND-STOP input requires a normally closed signal; otherwise, the display will show an "ES" error.	

7.17 Electronic Lock

1	Press and hold "P" key for 4s, it displays "P1" .	P1
2	Press "△" key thirteen times , it will display "PE" . Then, Press "P" to confirm the setting. to display the current setting state.	PE
3	Press "△" or "▽" key to adjust. "L1" means the electronic lock function on. "L0" means the electronic lock function off, after setting, press "P" key to confirm.	L0 L1
4	Default setting: "L0" .	L0

7.18 Garden Function

1	Press and hold "P" key for 4s, it displays "P1" .	P1
2	Press "△" key fourteen times , it will display "PF" . Then, Press "P" to confirm the setting. to display the current setting state.	PF
3	Press "△" or "▽" key to adjust. When "C1" is displayed, During opening, If the remote control is pressed, the door will not stop, it continues to open. During closing, If the remote control is pressed, the door will immediately reverse and open fully.	C1 C2
4	Press "△" or "▽" key to adjust. When "C1" is displayed, During opening, If the remote control is pressed, the door will pause. Pressing the remote again will resume opening until fully open. During closing, If the remote control is pressed, the door will immediately reverse and open fully.	
5	"C0" means the garden function off. after setting, press "P" key to confirm.	C0
6	Default setting: "0" .	

7.19 Enter Low Power Mode

1	Press and hold "P" key for 4s, it displays "P1" .	P1
2	Press the "△" key fifteen times to display "E0" . Then, Press the "P" to enter low power mode.	E0

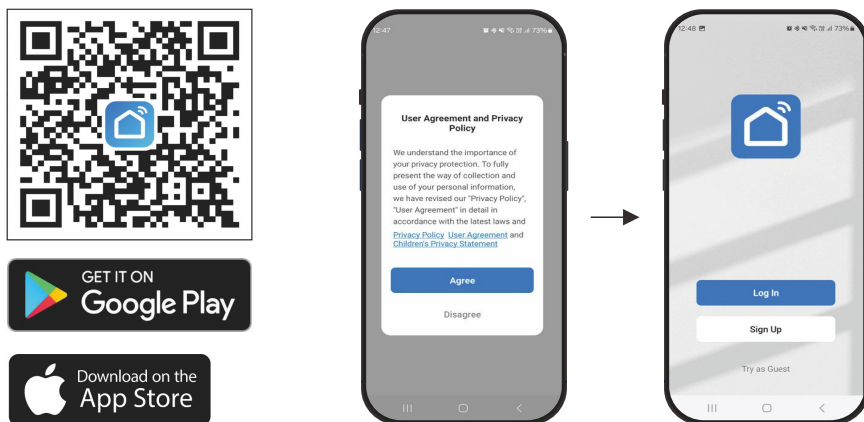
3	The sequence "d0-d1-d2" will be displayed. Use the "△" or "▽" key to select the preferred setting: "d0" disables Low power mode (accessories will function correctly). "d1" enters low power mode after 1 minute of inactivity (factory default setting). "d2" enters low power mode after 10 minutes of inactivity.	d0 d1 d2
4	After selecting the preferred option, press the "P" key to confirm the setting.	
5	The motor comes from the factory with the low power mode enabled (mode "d1"). After 1 minute of inactivity, the motor automatically enters this mode, cutting off the accessories connected to the DC 24V power supply in the motor.	d1
6	⚠ Before installing any accessories, it is mandatory to disable the low power mode; otherwise, they will not function correctly.	

7.20 Restore Factory Setting

1	Tap the "P" key more than 6 times, and the digital display screen will show the "program version" , then the screen will display "--" and the program will be restored to factory settings.
2	⚠ After restoring the factory settings, all settings will be cleared and need to be reset.

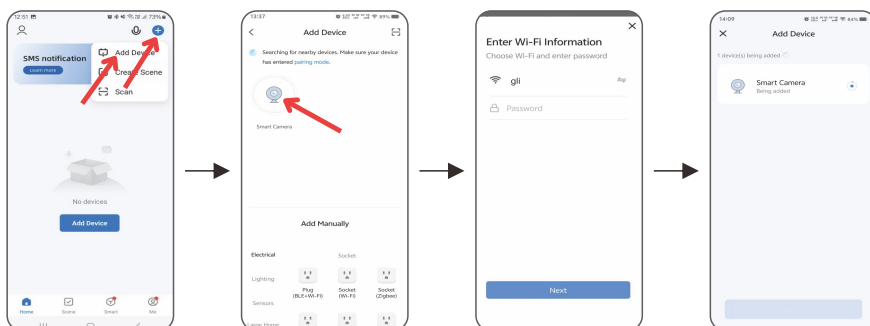
8. Install the Smart Life App (optional)

Download and install “smart life” app from the Google play or apple app store, Or scan the qr code below to download. Install the app and register an account.

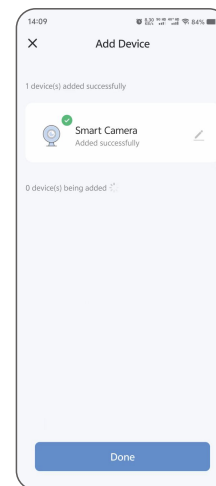


8.1 Add Smart Life device to App

1. Make sure your phone have connected to a Wi-Fi router or a Wi-Fi hotspot which can access to internet quickly.
2. Follow Step 1.19 to mount the camera onto the motor unit. the device will power on automatically. The LED blinks with red color twice per second. If the light is not flashing, press and hold "Reset" button for 10 seconds until the light starts to flash. The device is now on Standby Mode and trying to connect to the Wi-Fi network.
3. Please turn on your phone's Blue tooth first. Launch the App and tap "Add Device" or "+" to begin. The app will search for nearby devices. Select your Wi-Fi network, enter the password, and tap "Next" to begin pairing.

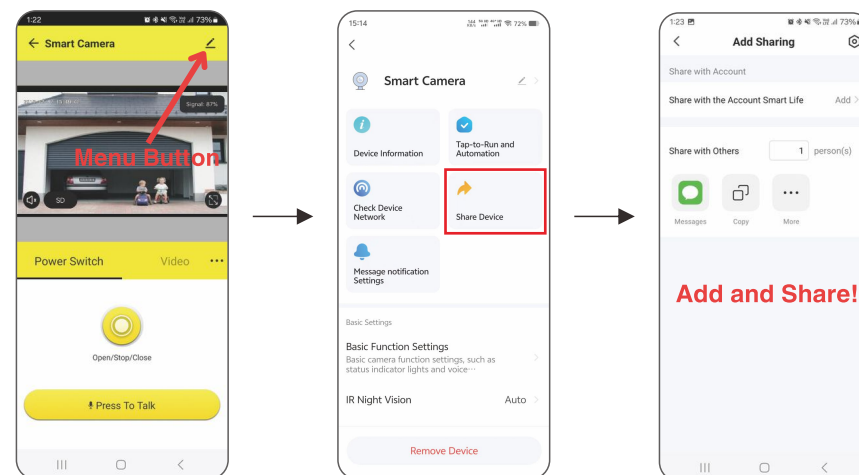


4. You will hear a prompt. Wait for the setup to complete. The device will then appear in your home app.

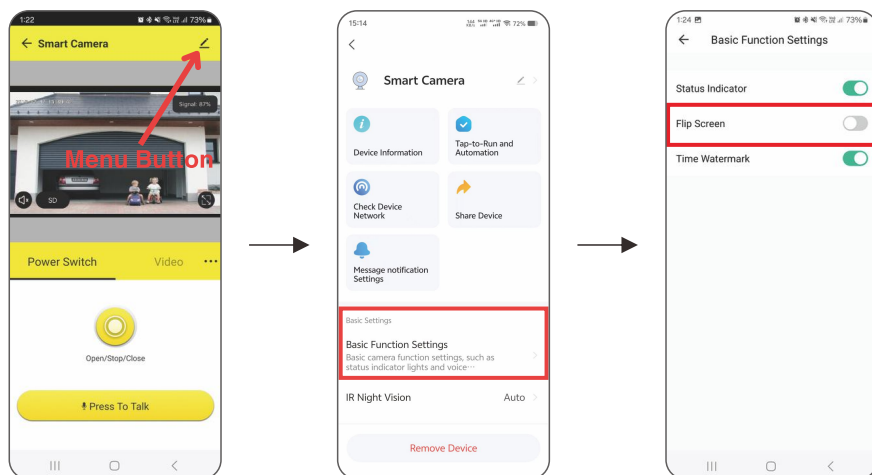


8.2 Smart Life Functions

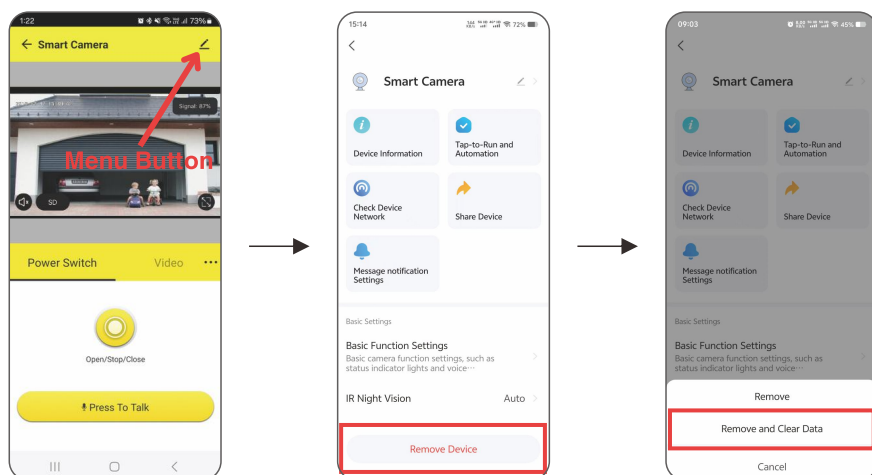
Share Device: The device is managed by a master account, can be shared with different family members (requires account registration first), one camera allows two family members to open the app page at the same time.



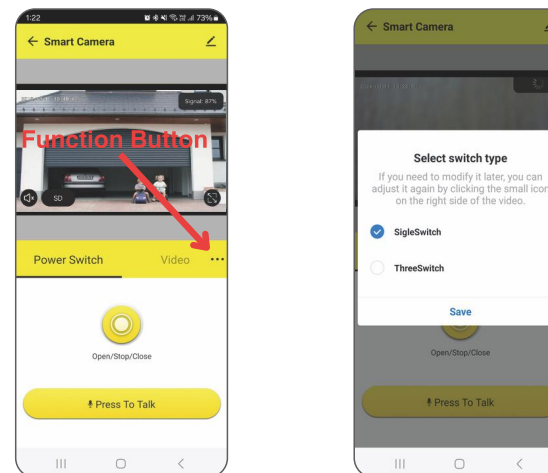
Flip Screen: If you mount the camera upside down, use this setting to rotate the video feed 180 degrees.



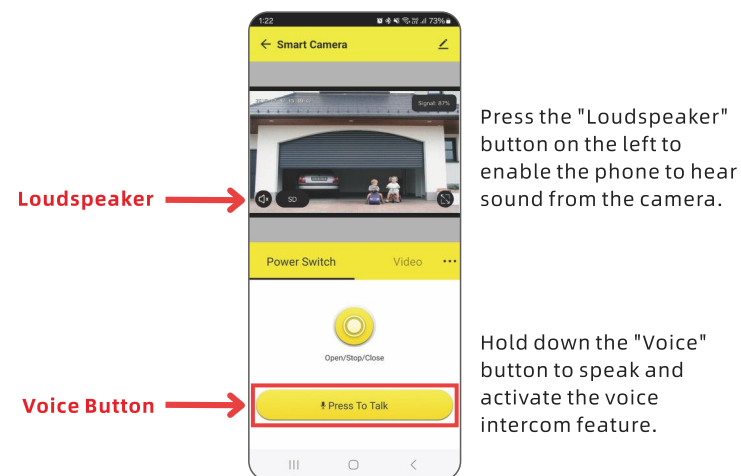
Remove Device: If you no longer need this device, you can remove it from your account and clear its data.



Select Switch Type: According to the model of your garage door opener.

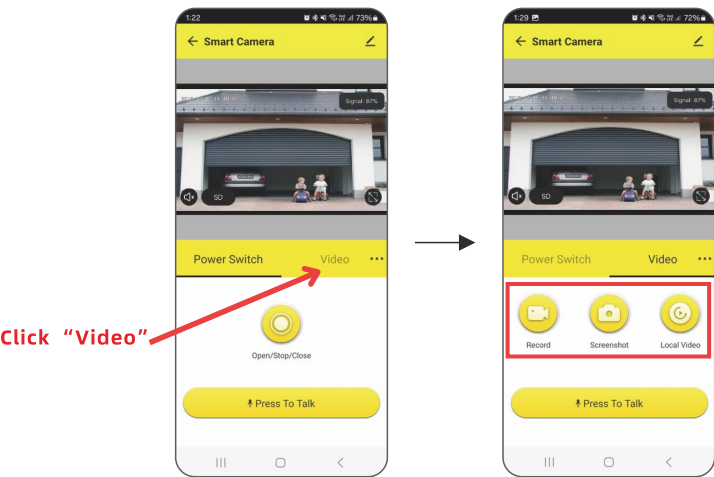


Voice Intercom: The speaker function of the APP should be turned on first.

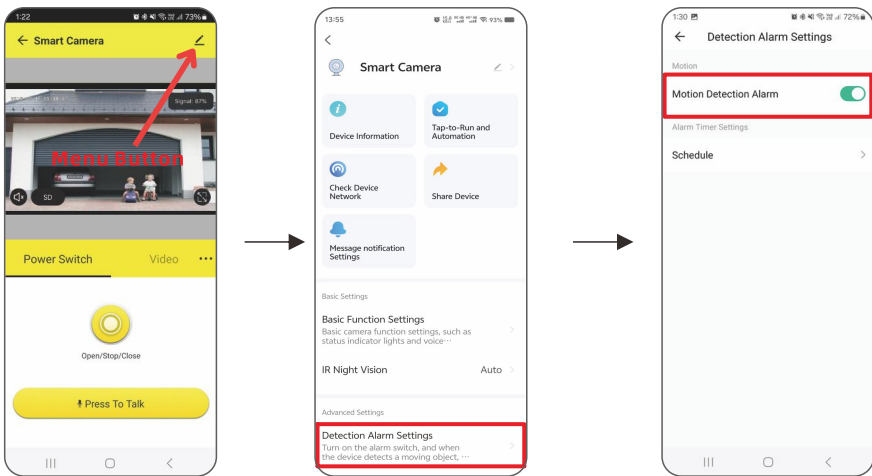


Motion Detection	Frequency: 2.4GHz/5GHz	Manage & Share Access
Voice Call	Wi-Fi Wireless Connection	Control with Smart Life App

Record, Screenshot, Local Video.



Motion Detection: Receive an immediate notification on your phone when motion is detected for real-time security.



8.3 Specifications

Garage Switch	Single key loop / Three key control
Resolution	3MP 2304*1296
IR Light	6pcs
Night Vision	IR-CUT auto switch
Night Vision Distance	10m
Focal Length	4mm
Angel of View	100°(D),82°(H),48.5°(V)
Aperture	F2.0
Audio Input	Support
Audio Output	Support
Two-way Talk	Support
Motion Detection	Support
Reset	Reset button
SD Card Storage Format	Only Supports FAT32
Network	Wi-Fi IEEE 802.11 b/g/n 2.4 GHz & 5GHz
Power Supply	DC 5V/1A, DC 12V-24V(relay)
Operating Conditions	-20°C(14°F)~50°C(113°F), less than 95% RHl

8.4 Troubleshooting

Abnormal Phenomenon	Cause Analysis	Processing Method
Intermittent beeping.	Pairing failed.	Retry the pairing process.
LED indicator does not light up.	No power.	Verify camera-motor connection for looseness or disconnection.
Garage door motor is unresponsive.	Motor Fault	Check whether the motor is faulty and whether it has travel range.
App cannot connect to the camera.	Network issue.	Follow the setup instructions to reconnect to the network.
LED is solid or flashing blue and cannot connect.	The camera is already paired to another account.	Press and hold the reset button to factory reset the device, then restart the pairing process.
Voice Intercom is not working.	The in-app speaker is not enabled.	Turn on the speaker function within the app.
Other abnormal phenomena please refer to APP "help and feedback" .		

9. Owners 'guide

9.1 Attention In Use

1		At the first time of using the door, please test the driving system to see if it moves well. (Test method: unlock the trolley, pull and push the door by hand.)
2		Connected with the appropriate power and socket by professionals, and connected the earthing wire with earth.
3		Using the transmitters in your sight. Do not stand or walk under a moving door. The transmitters should be out of reaching of children.
4		Make sure the door out off fire, moisture, electromagnetism and some other places.
5		Check at least twice a year to make sure the door is properly balanced and that all working parts are in good working condition. Adjust the tensile force of chain. Add suitable amount of lubricant to the active.

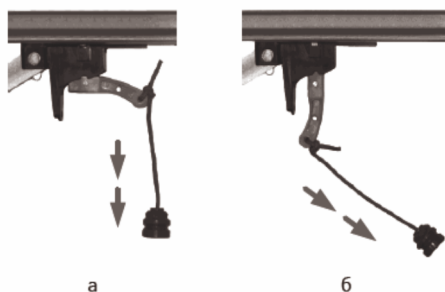
9.2 Examination Guide

1	Problem	Causes	Solution
2	The chain is noisy.	The chain is too loose.	Adjust nut-M8 referring to 1.13.
3	The motor does not work.	The socket is not well connect or the fuse is broken.	Check the socket or replace the fuse.
4	After setting open and close positions, the motor does not work.	The screws of fixing the Hall components are loose or program mistakes.	Tighten the screws or resetting open and close positions
5	The door can't be closed.	Photo beam function works.	Cancel the photo beam function, referring to 7.8.
6	The wall button works well, but the transmitter doesn't work.	No transmitter learning or transmitter battery is power off.	Code referring to 7.4 or change new transmitter battery.
7	Transmitter distance is too short.	The transmitter battery is nearly power off.	Change new battery

10. Troubleshooting

10.1 Control Board Error Map

Error	Error Description	Cause	Solving the problem
ENCODER ERROR 	• The control board does not receive information from the encoder installed on the motor.	- Encoder plug is not fully inserted. - Encoder is not working or powered off. - Digital control board does not send signal to base board. - Base control board does not send power to motor.	- Ensure the plug is fully inserted. - Test the battery to see if the motor is running. - Test with another encoder. - Test with another control board. - Test with another power board.
MEMORY FULL 	• Unable to program a new remote control.	• The memory is full (max 20 remote controls).	- You can clear existing transmitters and reprogram. - If 20 remotes are already programmed and more are needed, install an external receiver.
SETTING ERROR 	- Incorrect setting of upper and lower limits. - Incorrect motor wiring.		- Adjust the upper and lower limits. - Replace the motor cable.
EXCESSIVE LOADING 	- Motor is overloaded due to excessive gate weight. - Gate is too heavy.		• Redo the programming of door travel limits without applying excessive force to the stoppers.
PHOTOCELLS NOT CONNECTED WITH MOTOR 	- Photo cells are active but not connected to the motor. - Photo cells are not connected to the motor.		• Connect the photocells to the motor.
PCB ANOMALY 	• Run timeout.		• Adjust the upper and lower limits.
PCB ANOMALY 	• Abnormal power detection.		• Check the input voltage or replace the control board.
PCB ANOMALY 	- GND-STOP does not have a normally closed signal. - Error in NO/NC settings.		- Connect a normally closed switch to the GND-STOP terminal. - Change the setting in function menu 7.16 to "d0".



Pic.3. Manual unblocking of the carriage

In the process of unblocking there can be uncontrolled movement of doors:

- if the door spring are loose or broken;
- if the doors are not balanced;
- if the doors are opened manually the carriage can collide with the drive (during build-ing works limit the doors run in the opening direction);
- in the unblocked position doors can be moved only with medium speed!



- Install the actuating member for the manual release at a height less than 1.8m;
- Permanently fix the labels warning against entrapment in a prominent place or near any fixed controls;
- Permanently fix the label concerning the manual release adjacent to its actuating member;
- The appliance is not to be used by children or persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction.
- Children being supervised not to play with the appliance.

WARNING: Important safety instructions. Follow all instructions since incorrect installation can lead to severe injury:

- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Watch the moving door and keep people away until the door is completely opened or closed;
- Do not allow children to play with door controls. Keep remote controls away from children;
- Watch the moving door and keep people away until the door is completely opened or closed;
- Take care when operating the manual release since an open door may fall rapidly due to weak or broken springs, or being out of balance;
- Disconnect the supply when cleaning or carrying out other maintenance.
- Frequently examine the installation, in particular check cables, springs and mountings for signs of wear, damage or imbalance, do not use if repair or adjustment is needed since a fault in the installation or an incorrectly balanced door may cause injury;

- If necessary, adjust and recheck since an incorrect adjustment can present a hazard. If re -adjustment does not restore the correct operation, call for authorized service;
- Each month check that the drive reverses when the door contacts a 50 mm high object placed on the floor. Adjust if necessary and recheck since an incorrect adjustment may present a hazard (for drives incorporating an entrapment protection system depending on contact with the bottom edge of the door) .

WARNING: Information concerning the adjustment of the door and drive:

- After installation, ensure that the entrapment protection system operates as intended. ensure that parts of the door do not extend over public footpaths or roads.
- The drive is intended to be installed at least 2.5 m above the floor or other access level.
- The drive is not to be used with doors having openings exceeding 50 mm in diameter or having edges or protruding parts a person could grip or stand on.
- The drive shall not be used with doors having openings greater than 12 mm in diameter and 20 mm in depth or having edges or protruding parts a person could grip or stand on.
- Before installing the drive, remove all unnecessary ropes or chains and disable any equipment, such as locks, not needed for powered operation;
- Before installing the drive, check that the door is in good mechanical condition, correctly balanced and opens and closes properly;
- The appliance shall be disconnected from its power source during service and when replacing parts;
- The removal of the plug has to be such that an operator can check from any of the points to which he has access that the plug remains removed.