

# Grandview

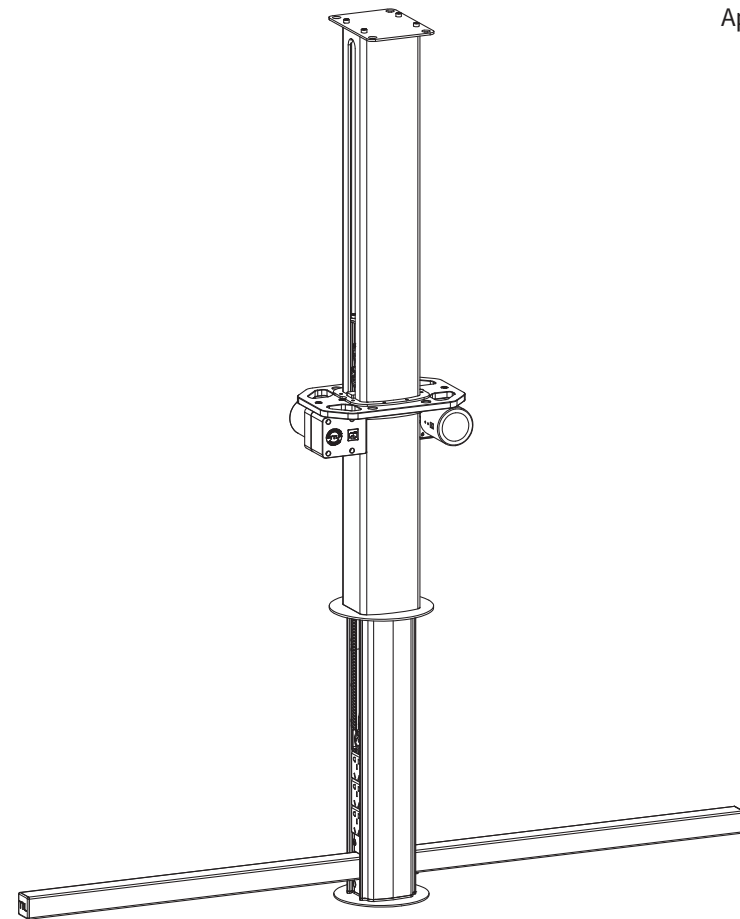
## Installation Manual

GSRB series electric suspension mount

Applicable Model:

GSRB3003

GSRB3004



# Grandview

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## Cautions

### Before Installation and Use:

1. The installation position must ensure that it has sufficient bearing capacity. The load bearing requirement is 1000kKG
2. When installing this product, be sure to tighten the screws to prevent the lifter from loosening and affect the safety of use.
3. Please take care to protect and maintain this product and check it regularly:
  - (1) If there are stains, please wipe with a soft cloth.
  - (2) When cleaning the lifter dust, please wipe it gently with a soft brush.
4. In order to avoid unnecessary injury, it is recommended that the management, use and maintenance of the equipment be operated by professionals.
5. Do not pull the lifter by hand during use to avoid damage to the lifter.
6. After use, please return the lifter to the ceiling layer in time.
7. Only use a power plug with a grounding wire.
8. The motor does not need to add lubricant, the product has been adjusted to the best position when leaving the factory, please do not adjust it yourself!



#### Warning

This installation instruction manual is for dealers and installation technicians. Customers are advised not to install the equipment themselves. It is necessary to hire qualified professional technicians to install them. And carry out the construction according to the contents stated in the installation and operation manual. If an accident occurs, it may cause personal injury. In order to ensure safety, the ceiling must be able to withstand at least 1000KG of load resistance.



#### Note

Please do not tilt the poles extremely



#### Do not disassemble

Do not disassemble or disassemble the suspended components

## Fault exclude

Cause of fault	Fault solution
The lift can also rise or fall when the load-bearing crossbar is inserted.	Check if the built-in switch is normal. If the switch is damaged, replace the switch.



#### Warning

If you ignore the contents of the warning column, you may cause injury or damage after accidental operation.



#### Mandatory

The product should be installed in a place with strong bearing capacity, otherwise accidents or risk of falling off may occur.



#### Beware of children

After the lifter is fully lowered, the bottom should be no less than 1.8 meters from the bottom to avoid children touching.



#### Disassembly is prohibited

It is forbidden to disassemble the hanger or loosen the lifter screw. If you need to repair or correct it, please contact our company or sales agent.



#### Note

After use, please retract the lifter back into the ceiling layer to prevent dust and dirt from affecting the use.

**Note:** Users are not allowed to disassemble and replace parts at will. If there is any fault, please contact the after-sales service department for repair. The functional structure is subject to change without prior notice. Subject to the product!

## Group code and bit code

### Group code and bit code settings:

When using RS-485, the group code and bit code are non-zero numbers. For example, 01 01 is the first device of the first group, and 01 02 is the second device of the first group. Among them, the group control group code and bit code are 00 00

**RS-485 protocol**  
**Serial port settings:**  
 Baud rate: 9600  
 Data bits: 8 bits  
 Stop bit: 1 bit  
 Correction: CRC

Script	07	UP
	08	DOWN
	09	STOP
	A6	Code learning

### Protocol format (hexadecimal)

Packet header (F6), group code, bit code, instruction code, CRC  
 CRC = packet header + group code + bit code + instruction code CRC correction digits = generator polynomial digits - 1

### Group control code

UP: F6 00 00 07 FD DOWN :F6 00 00 08 FE  
 STOP:F6 00 00 09 FF  
 When setting the code, learn the code first. For example, learn the first device of the first group: F6 01 01 A6 9E, where 9E=F6+01+01+A6 (calculated by a hexadecimal calculator), then the group code is 01, bit Code bit 01, the control code is calculated with a hexadecimal counter  
 UP: F6 01 01 07 FF DOWN: F6 01 01 08 00 Stop: F6 01 01 09 01, other codes are calculated in the same way

### Group code, bit code list:

Group code	Bit code	Up control code	Down control code	Stop control code
00 (Group control)	00 (Group control)	F6 00 00 07 FD	F6 00 00 08 FE	F6 00 00 09 FF
01 (First group)	00 (First control group)	F6 01 00 07 FE	F6 01 00 08 FF	F6 01 00 09 00
	01 (Unit 1 of the first group)	F6 01 01 07 FF	F6 01 01 08 00	F6 01 01 09 01
	02 (Unit 2 of the first group)	F6 01 02 07 00	F6 01 02 08 01	F6 01 02 09 02
	03 (Unit 3 of the first group)	F6 01 03 07 01	F6 01 03 08 02	F6 01 03 09 03
	04 (Unit 4 of the first group)	F6 01 04 07 02	F6 01 04 08 03	F6 01 04 09 04
02 (Second group)	00 (Second control group)	F6 02 00 07 FF	F6 02 00 08 00	F6 02 00 09 01
	01 (Unit 1 of the second group)	F6 02 01 07 00	F6 02 01 08 01	F6 02 01 09 02
	02 (Unit 2 of the second group)	F6 02 02 07 01	F6 02 02 08 02	F6 02 02 09 03
	03 (Unit 3 of the second group)	F6 02 03 07 02	F6 02 03 08 03	F6 02 03 09 04
	04 (Unit 4 of the second group)	F6 02 04 07 03	F6 02 04 08 04	F6 02 04 09 05
03 (Third group)	00 (Third control group)	F6 03 00 07 00	F6 03 00 08 01	F6 03 00 09 02
	01 (Unit 1 of the third group)	F6 03 01 07 01	F6 03 01 08 02	F6 03 01 09 03
	02 (Unit 2 of the third group)	F6 03 02 07 02	F6 03 02 08 03	F6 03 02 09 04
	03 (Unit 3 of the third group)	F6 03 03 07 03	F6 03 03 08 04	F6 03 03 09 05
	04 (Unit 4 of the third group)	F6 03 04 07 04	F6 03 04 08 05	F6 03 04 09 06
.....	.....	.....	.....	.....

### Notice:

1. When setting the code, learn the code first.
2. When connecting to RS232 or RS485, if the device cannot be controlled to perform related actions, please swap the two control lines.
3. The resistance of the wiring loop is less than 20Ω
4. Do not line up in parallel with strong interference sources.

## Product Introduction

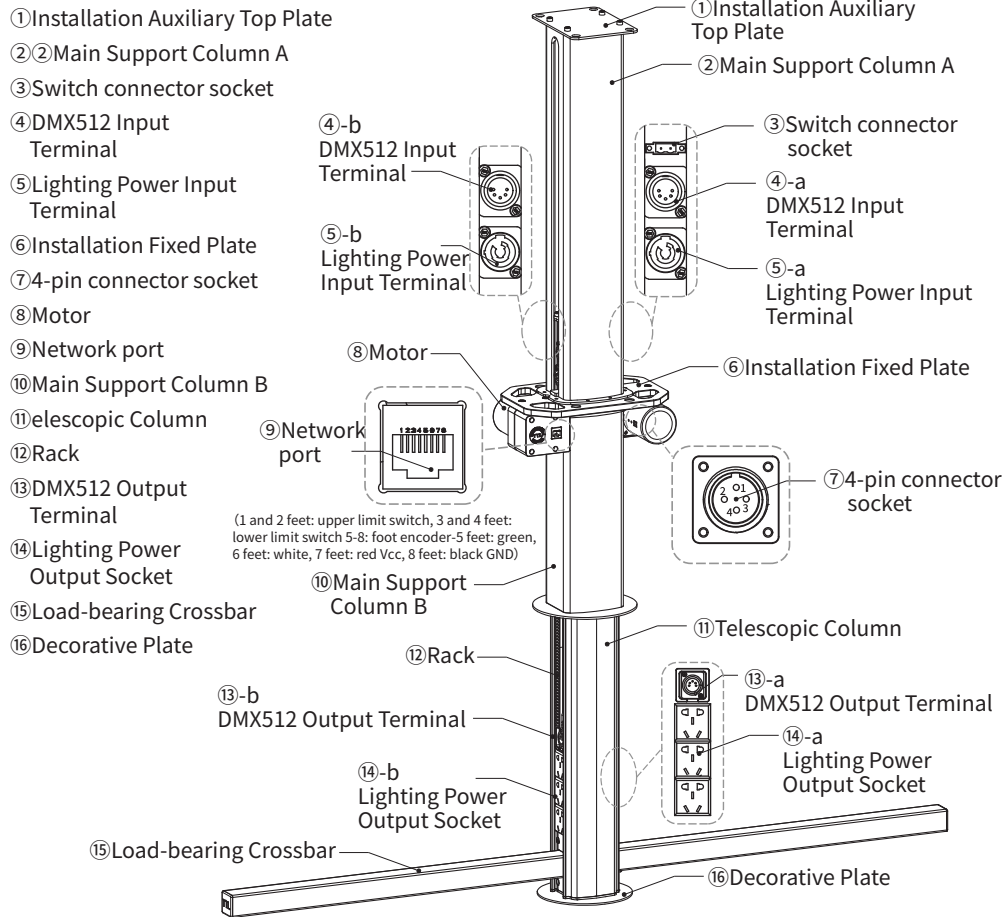
GSRB series multi-purpose electric ceiling suspension mount is mainly used for temporary lifting equipment of stage lighting equipment. It is suitable for occasions where the lifting point is scattered and the traditional stage machinery cannot be installed. It is suitable for the limited height of building layer and the low net height in ceiling. Occasionally, it is widely used in conference centers, banquet halls, multi-purpose halls, exhibition halls, press conference halls, and small and medium-sized conference venues.

## Functional Features

1. The installation method is very simple, the ceiling height requirement is low, the occupied surface in the ceiling is small, and the obstacle in the ceiling space can be easily avoided.
2. Can be widely distributed, can also be concentrated and densely installed, flexible and changeable, and the installation is extremely easy.
3. The installation can be arranged after decoration, the attached decorative light ring can cover the ceiling opening well, keep the appearance clean, and does not require a second decoration after installation.
4. With perfect safety protection design and ingenious operation mode, the exposed load-bearing crossbar is the lifting control switch. Inserting the load-bearing crossbar can prevent the erroneous operation from rising in the use state, resulting in damage to the power plug, cable, equipment and ceiling. It is suitable for on-site use by non-professionals.
5. It is equipped with 2pcs CANNON, 1pc 5 core sockets and 6pcs universal power sockets, which are fully matched with the conventional lighting installation method to meet the needs of the current market for lighting, sound and camera.
6. Single set of sockets 220~250V/16A, two sets of custom 2.5 squares of cable, single set of power 3000W.

## Components

### GSRB series electric suspension mount



## Accessories

- 5-core DMX Carlon Socket 4 pcs
- Heavy-duty aviation plug 2 pcs
- 6-inch lamp ring 1 pc
- User Manual 1 pc
- Load-bearing crossbar 1 pc
- 1.5m cable 1pc
- 1.5m network cable 1pc
- M6x12mm Screw 1pc

**Optional:** dry contact panel, remote control

## Control box function

### Control box panel button description

**IN AC 220V/50Hz:** Control box power supply

**Boom motor connection port:** the control box supplies power to the lift's motor

**Dry contact/RS-485:** Dry contact/RS-485 control network port extension

**extension port:** Encoder/upper limit/lower limit switch extension port

**Up:** Press and hold the up button, the lift will rise, let go and stop

**Down:** Hold down the down button, the lift will drop, let go and stop

**Indicator light:** the indicator light is on, indicating that the device is powered on

**Up memory:**

press and hold the upper memory key until the boom buzzer beeps twice, and remember that the current position is the electronic upper limit. press and hold the upper memory key until the lift buzzer buzzes twice and then the boom buzzer beeps twice after 2-3 seconds, Clear the electronic upper limit of the current position.

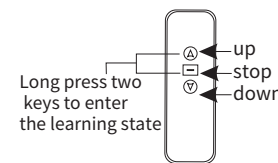
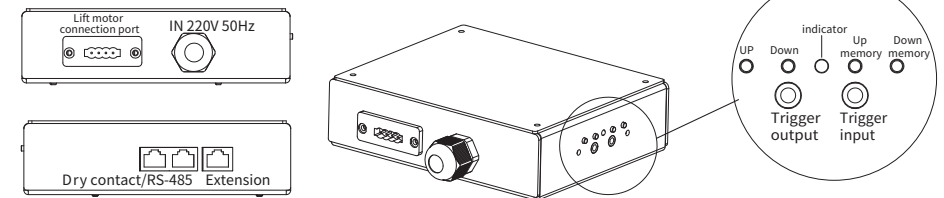
**Down memory:**

Press and hold down the memory key until the lift buzzer beeps twice, and the current position is memorized as the electronic lower limit. Press and hold down the memory key until the lift buzzer beeps twice and then it will beep twice after 2-3 seconds to clear the electronic lower limit of the current position.

**Reset:**

Press and hold "Up Memory" and "Down Memory" at the same time until the boom buzzer sounds, and the lifting frame is reset.

**Note:** When the upper limit or lower limit is set on the panel, the "up" and "down" keys on the panel can break through the electronic limit. Therefore, pay special attention to the electronic limit function only when the remote control or dry contact or RS485 control is used after the electronic limit is set.



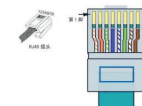
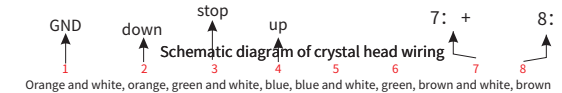
1. Put the lift in the energized state, and within 5 seconds of turning on the power, press and hold the stop button on the control panel until the number on the digital display starts to flash, and the product enters the learning state. Or within 10 seconds of plugging in the power source, simultaneously press and hold the remote control and stop button to enter the learning state.

2. Test whether the buttons of the remote control can control the lift normally, if it is not controlled, please re-pair

**RS-485 communication port:**

① Connect to the central control of the computer, and the two interfaces are parallel interfaces.

② The two network ports at the end of the control box are parallel interfaces, and the 7-pin is 485+, 8 feet are 485-.

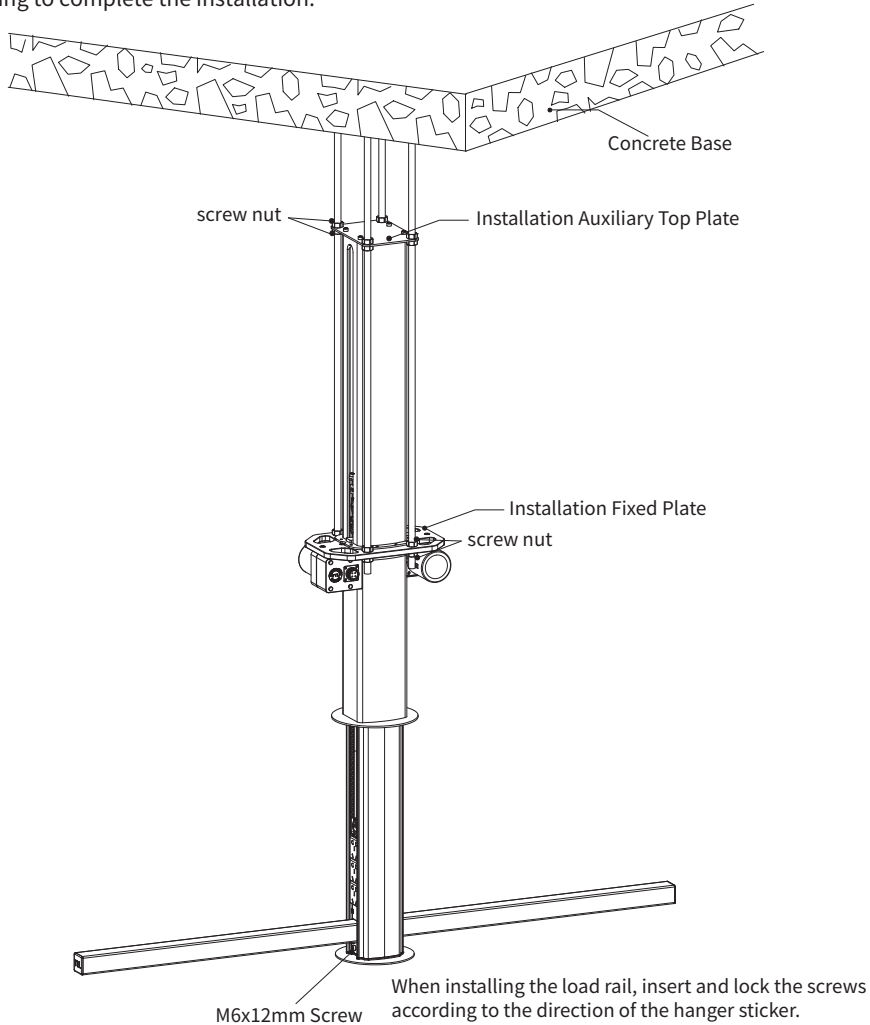


Schematic diagram of crystal head wiring

## Installation Method

### 4.Adjust Lighting Fixture:

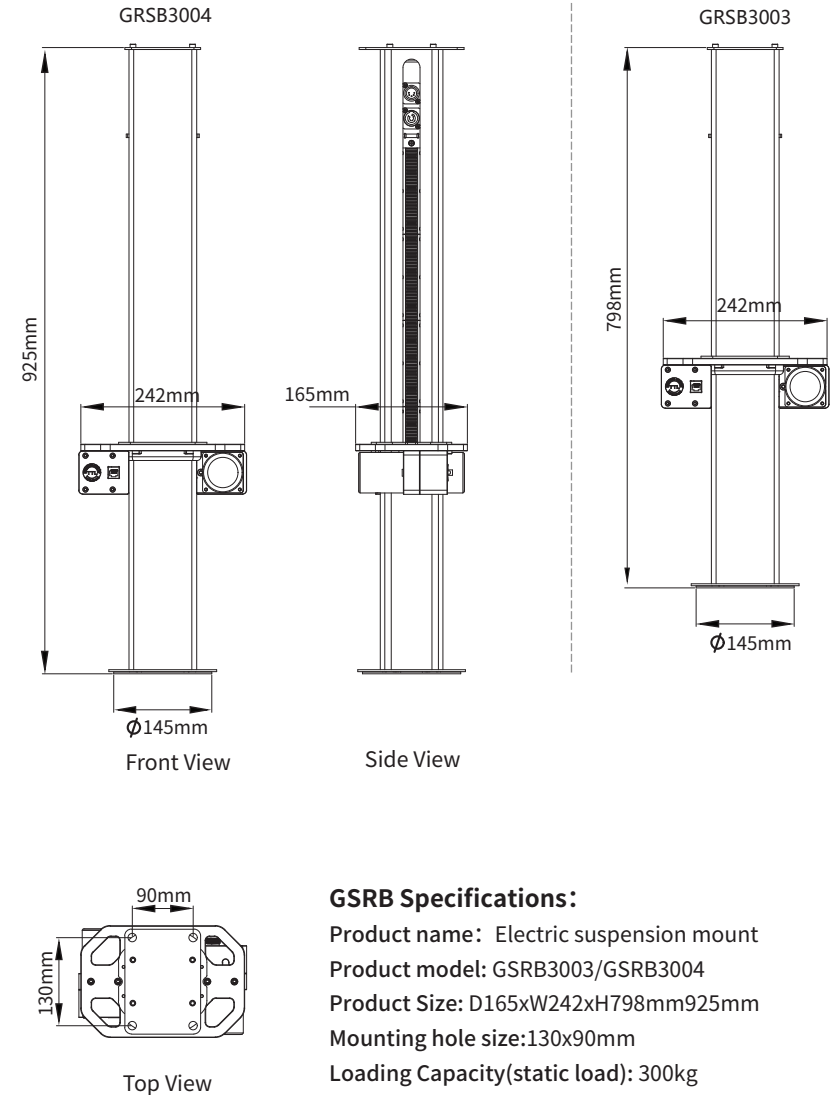
- Pass the threaded rods through the four mounting holes in the lighting fixture.
- Use nuts to adjust the height of the lighting fixture so that its decorative panel is flush with the ceiling panel.
- Cut off any excess length of the threaded rods, lock the nuts, and install the decorative light ring to complete the installation.



### Important Note:

Correct Installation: The threaded rod must pass through both the auxiliary top plate and the mounting plate. It is prohibited to have the threaded rod only pass through the auxiliary top plate.

## Specifications



### GSRB Specifications:

Product name: Electric suspension mount

Product model: GSRB3003/GSRB3004

Product Size: D165xW242xH798mm925mm

Mounting hole size:130x90mm

Loading Capacity(static load): 300kg

Maximum Stroke: 300mm/450mm

Input voltage: AC 220V/50Hz

Power: 60W

Minimum speed: 1m/min

Control mode: Dry contact, RS485, Wireless control(Optional).

## Installation Scope

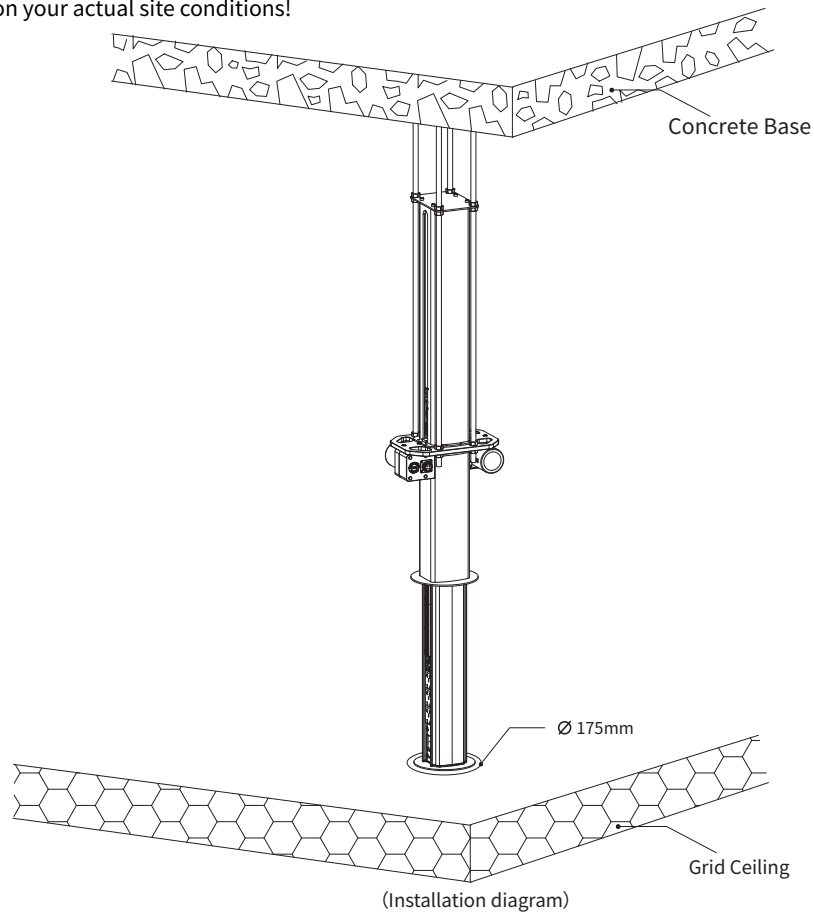
### Installation Method Instructions

This product is suitable for installation within various suspended ceilings. This manual uses the installation method for grid ceilings as an example. Please adapt the installation process according to your specific environment. The product should be installed at the optimal lighting projection position to ensure convenience and safety during use.

Upon opening the package, check that all parts are complete, then determine the hanging direction and follow the steps below to complete the installation.

#### Important:

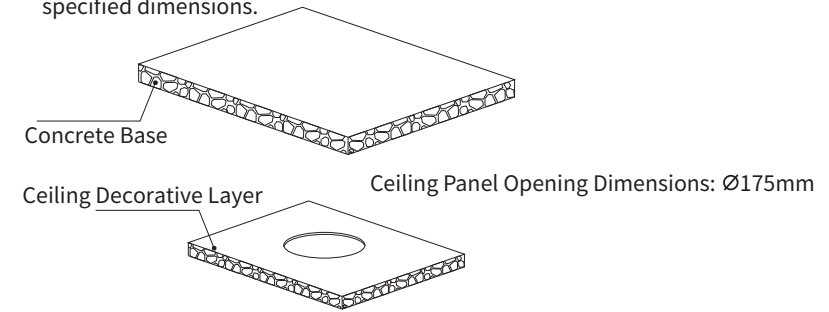
For a safer and more convenient installation, please thoroughly read the installation section of this manual before beginning. Choose the most suitable installation method based on your actual site conditions!



## Installation Method

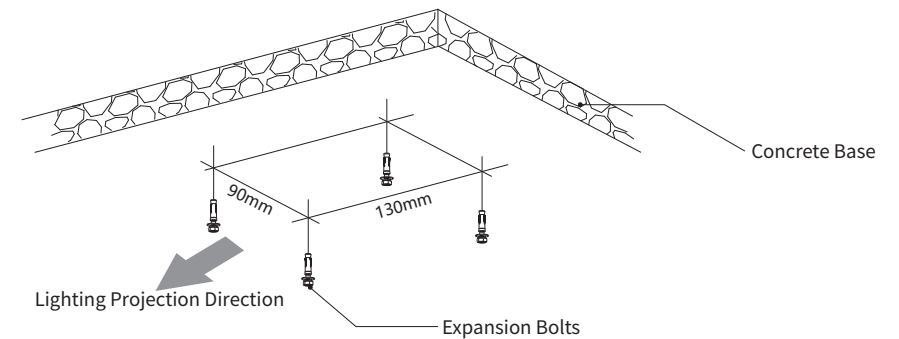
### 1. Determine Installation Location:

- Select the appropriate location and create an opening in the ceiling panel according to the specified dimensions.



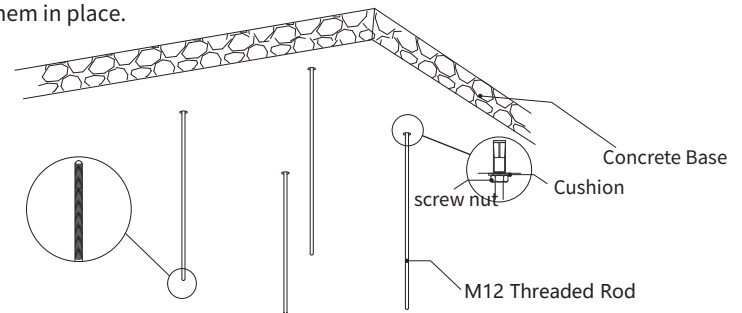
### 2. Drill Holes in Concrete Base:

- Drill holes into the concrete base and insert expansion bolts.




### 3. Install Threaded Rods:

- After ensuring the expansion bolts are securely fixed, install the threaded rods and secure them in place.



#### Tip:

To facilitate the passage of the threaded rods through the lighting fixture, it is recommended to taper the end of the rods. Additionally, the lengths of the rods can vary by 10-20mm between each pair.

 **Warning:** The top plate must be kept horizontal during installation, otherwise it will easily cause damage to the electric suspension lifter!