V150e Quick Installation Guide

1. Upper Mount

Normal structure / Side-beam structure

① Drill holes on the ceiling or on the side of the crossbeam. The position of the drill holes must fit the installation holes of the upper mount. Use a φ12mm drill bit to reach a depth of 60-70mm, then fix 2 to 4 expansion bolts (M10*80) on each side, and finally fix the upper mount with nuts (see Figure 1.1)
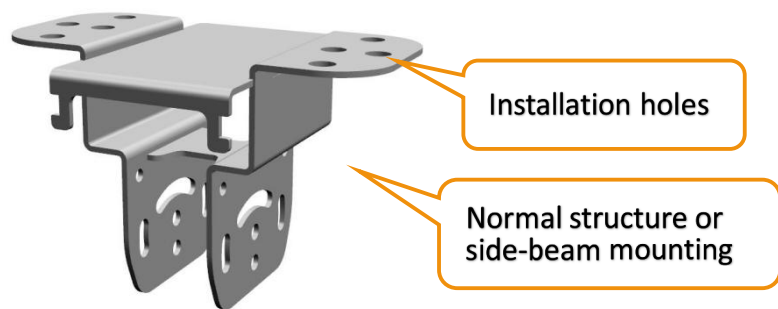

Installation holes

Normal structure or side-beam mounting

Figure. 1.1

I-beam structure / Round-tube structure

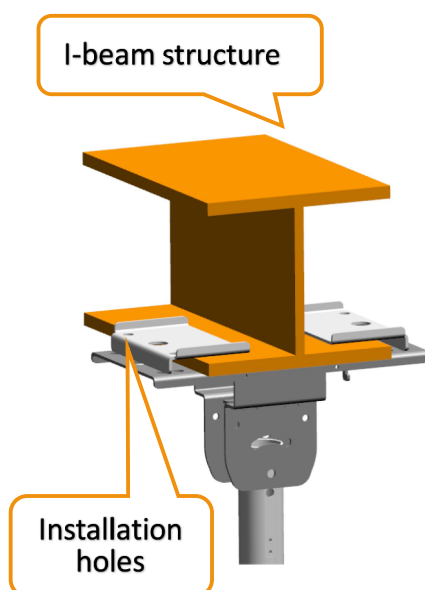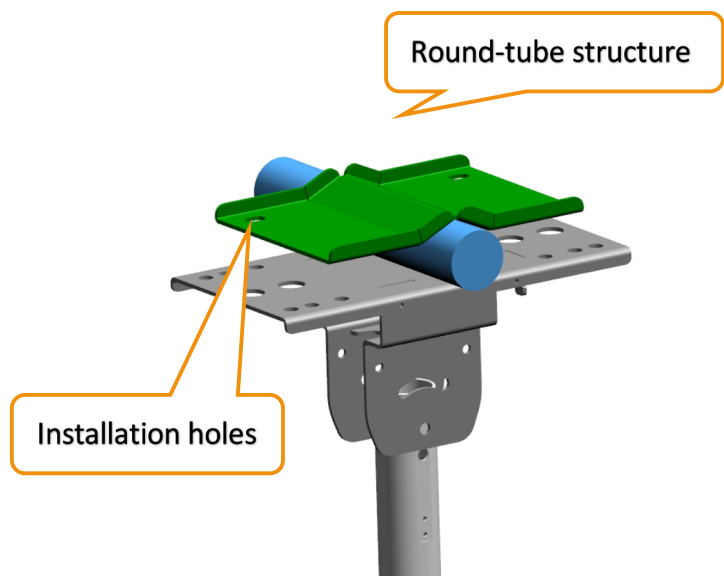① using two M10*100 hexagonal bolts and nuts each side to fix the upper mount (see Figure 1.2 and 1.3)

I-beam structure

Round-tube structure

Installation holes

Installation holes

Figure. 1.2

Figure 1.3

2. Controller

① Insert the controller into the hollow frame of the upper mount. The power cord, motor wire, and LED light wire (optional) of the controller are led out from the end shown in Figure 2

② Wrap the controller and wires with the upper mount together with zip tie to prevent the controller from loosening. The tie should be stuck in the positioning groove of the upper mount
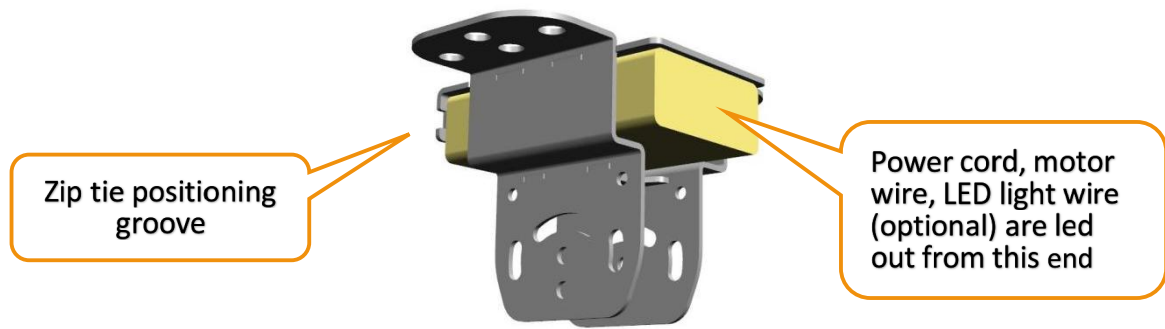
Zip tie positioning groove

Power cord, motor wire, LED light wire (optional) are led out from this end

Figure. 2

3. Extension Tube

① Distinguish the upper end and lower end of the extension tube. The one with an open slot is the lower end of the extension tube, vice versa the upper end (see Figure 3.1)
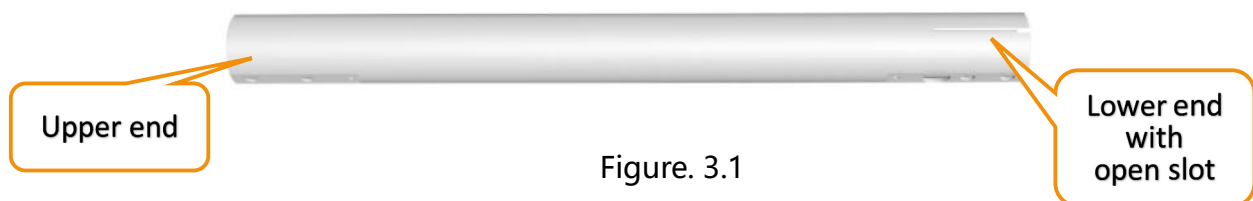
Upper end

Lower end with open slot

Figure. 3.1

② Unscrew two M4*10 hexagonal screws near the upper end of the extension tube, and install the lower decorative cover from the upper end to the lower end, and then install the upper decorative cover (see Figure 3.2)

③ Insert the upper end of the extension tube into the upper mount, align their installation holes. Then use two M8*65 hexagonal bolts, flat washers, spring washers, and M8 nylon locking nuts to tighten the structure while keeping the extension tube perpendicular to the upper mount (see Figure 3.3)

Upper decorative cover

Lower decorative cover

Install two M8*65 hexagonal bolts

Install two M8 nylon locking nuts
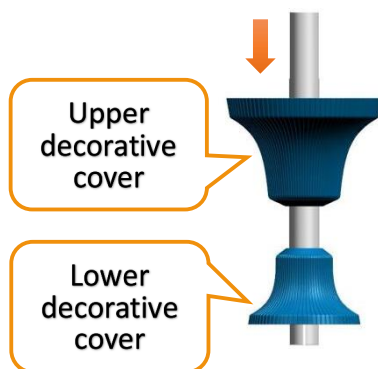
Figure. 3.2   Figure. 3.3
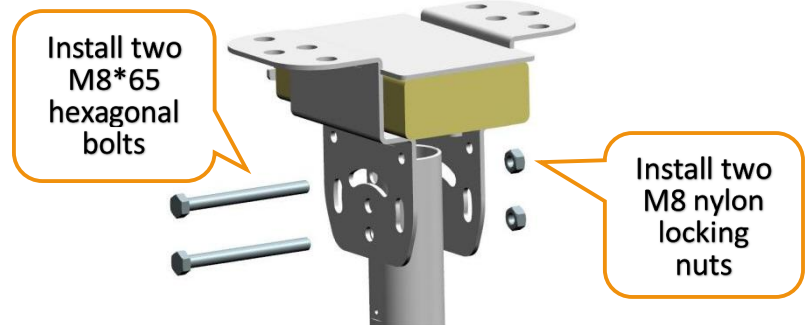
④ Connect the safety rope by inserting a M6*65 hexagonal screw through the holes beneath the controller frame, and passing the upper terminal of SS304 wire rope which is extended from the middle of the extension tube (see Figure 3.4). Then use flat washer, spring washer, and a M6 nylon locking nut to fasten
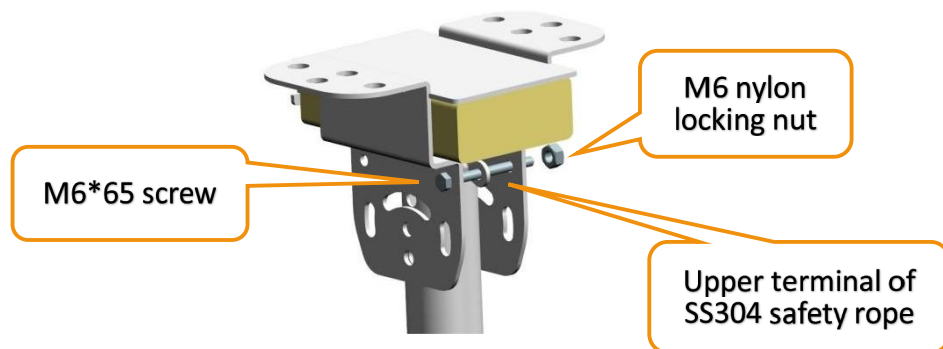
M6 nylon locking nut

M6*65 screw

Upper terminal of SS304 safety rope

Figure. 3.4

⑤ Connect the 4-core motor connection wire on the controller with the one on the extension tube, buckle the plastic plug (see Figure 3.5)

⑥ Connect the 2-core LED light connection wire on the controller with the one on the extension tube, buckle the plastic plug (optional, see Figure 3.6)

Note: safety buckle on male and female plugs should correspond to each other

Figure. 3.5 (motor wire)   Figure. 3.6 (Optional LED light wire)
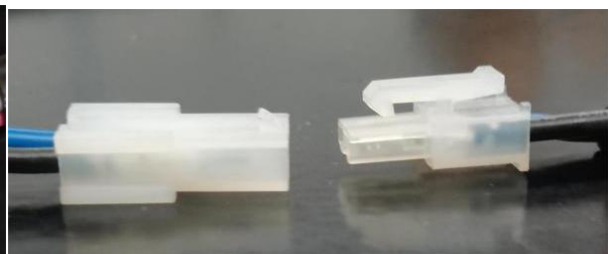
⑦ Connect the 220V power cord under the power-off state. The power can only be switched on when the fan installation is completed and all personnel are under safe condition

⑧ Push the upper decorative cover upward to cover the upper mounting, and fix it by installing two M4*10 hexagonal screws, flat washers, and spring washers on the extension tube to prevent it from sliding down (see Figure 3.7)

Two M4*10 hexagonal

Figure. 3.7

4. Motor

① Insert the motor into the extension tube, align their installation holes. Then use two M8*65 hexagonal bolts, flat washers, spring washers, and M8 nylon locking nuts to tighten the structure (see Figure 4.1)

Install two M8*65 hexagonal bolts

Install two M8 nylon locking nuts
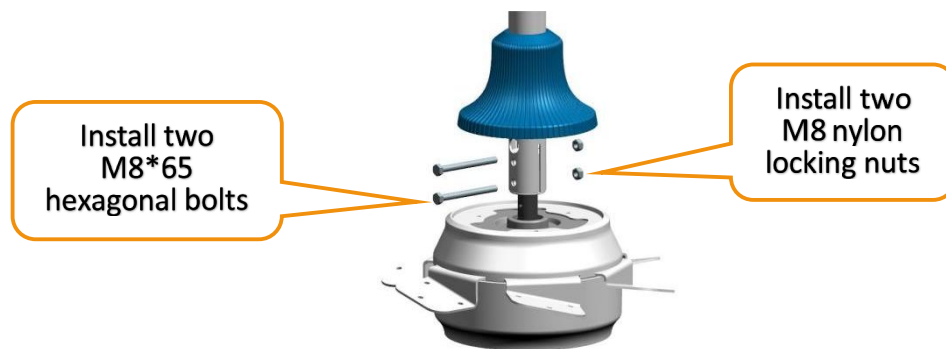
Figure. 4.1

② Connect the 4-core motor connection wire on the motor with the one on the extension tube, buckle the plastic plug (see Figure 3.5)

③ Connect the 2-core LED light connection wire on the motor with the one on the extension tube, buckle the plastic plug (optional, see Figure 3.6)

④ Connect the safety rope by giving a M6*20 hexagonal screw, flat washer, spring washer through the lower terminal of SS304 wire rope, and fix it on the hole of the motor shaft (see Figure 4.2)

Lower terminal of SS304 safety rope

M6*20 screw

Figure. 4.2

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⑤ Push the lower decorative cover downward to cover the installations on motor shaft, where there are two pre-installed M4*10 hexagonal screws on extension tube that prevent the lower cover from sliding down. Please be aware there should be a gap between the cover and the motor (see Figure 4.3)

Gap between the cover and the motor
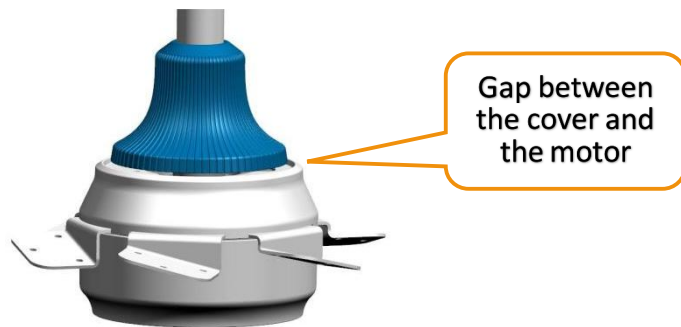
Figure. 4.3

5. Blades

① Pull out the black fan plug at the front end of the fan blade, insert the blade with the blade holder on the motor, align their installation holes. Then use three M6*20 hexagonal bolts, flat washers, spring washers, and M6 nylon locking nuts to tighten the blades (attention: the head of the screws must facing downward for installation, see Figure 5)

② Use the principle of symmetrical installation, install all remaining fan blades

M6 nylon locking nut

Fan blade

M6*20 screw

Figure. 5

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6. Overall Inspection

After installing all the blades, please check the following items:

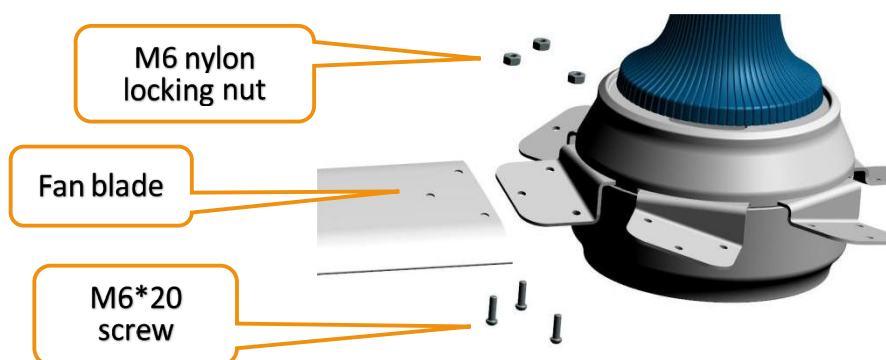① The levelness of the fan. If a serious tilt happens in extension tube or fan blades, it is necessary to use a spirit level to readjust the position;

② The safety distance between the fan blades and the obstacles. If the safety distance does not meet the requirements shown in Figure 6, please readjust it.

Distance between fan blades and obstacles > 0.3m

Distance between fan blades and obstacles > 0.3m

Distance between fan and floor > 2.5m
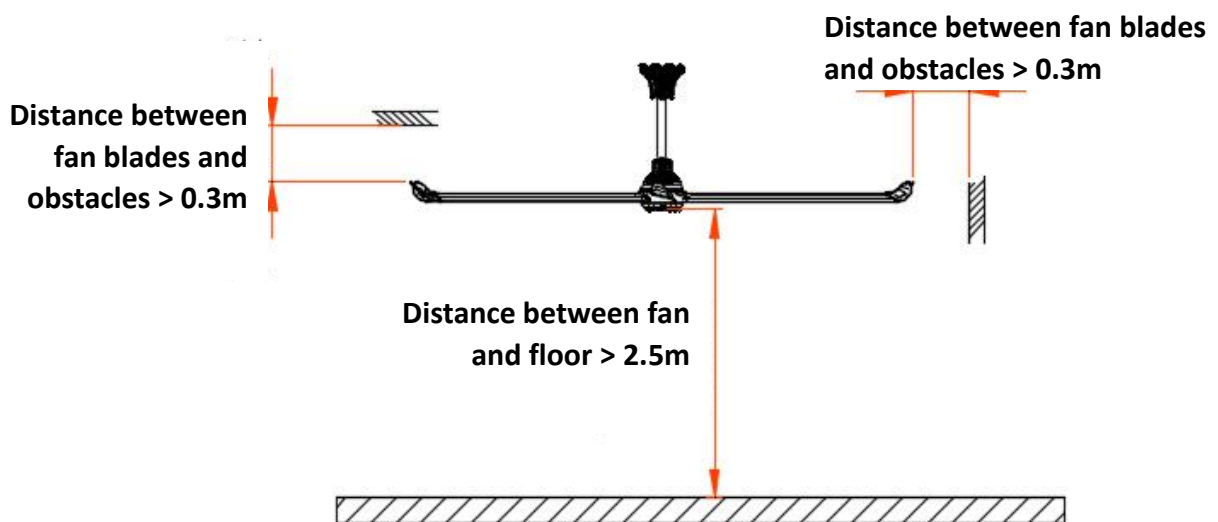
Figure. 6

7. Controller Wiring Diagram

Red: Motor U Wire
Pink: Motor V Wire
Grey: Motor W Wire
Yellow&Green: Motor Earth Wire
Black: Lighting Live Wire
Blue: Lighting Neutral Wire
Brown: Input Live Wire
Blue: Input Neutral Wire
Yellow&Green: Input Earth Wire

Controller

Input Signal

Motor

Lighting (Optional)

AC 220V
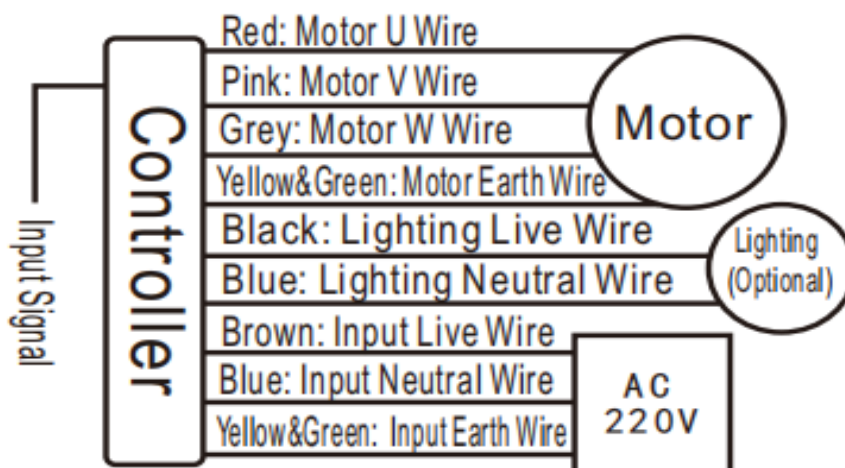
Figure. 7

8. Remote control

Turn on the power supply under safe condition, when the controller make a long beep sound, the remote control can then be used. See the below instruction.

Fan on/off: short press to start the fan, default to running in 1st gear; press the button again to stop running

Fan gear: short press to change the gear, from 1 - 6 (lowest to highest wind volume)

Timed shutdown: short press to activate, long press to cancel

Whoosh: short press, the fan constantly changes from 2 - 5 gear

Sleep: Short press, the fan constantly changes from 1 - 3 gear

LED light on/off: short press to turn on the light (optional)

Code matching: when the fan connect to the power within 10s, long press this button for 2s to connect with the controller

Forward: long press 2s for clockwise rotation, wind blows downward

Reverse: long press 2s for anti-clockwise rotation, wind blows upward