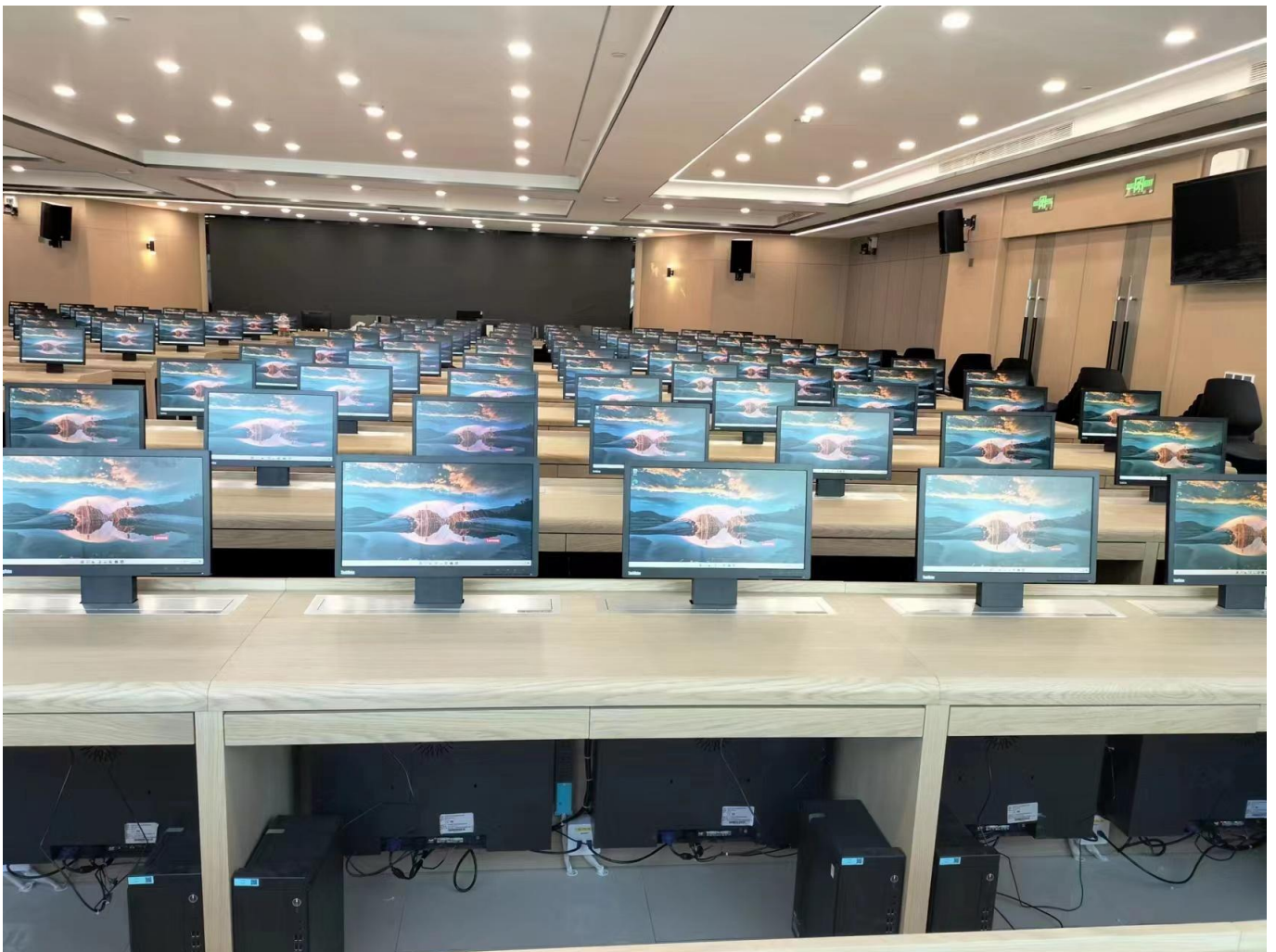


Technical Specifications for TianLift Standard LCD Monitor Lift (22–27 inch)

SK-22 SK-24 SK-27



1. Product Introduction

The LCD monitor lift is designed for high-end conference systems. During regular meetings, monitors retract to keep the desktop flat and tidy. For multimedia conferences, units can be lifted individually, in groups or all together as required to display multimedia information such as meeting agendas, notifications and video images. It is widely deployed in video conference systems, teleconferencing systems, financial analysis systems and other scenarios.

Adopting rack-and-pinion transmission, the equipment operates smoothly with low noise. It features automatic power-off protection for the LCD screen. Driven by an electric motor, it delivers flexible lifting performance with attractive appearance and long service life. Custom decorative panels are available. Simple to install and elegant in look, it serves as an ideal device for modern premium video conference systems.

This product supports the RS232/485 communication protocol for remote control via central controllers. It also supports wireless control and free grouping function.

2. Product Features

- Power protection function: The LCD monitor is powered automatically when lifting; power cuts off automatically when the monitor retracts flush with the desktop to reduce power consumption.
- Adopts enclosed waterproof circuit design, waterproof and dustproof.
- Supports RS485 central control.
- Equipped with slide rails; operating noise during lifting is less than 30 dB.
- Short single-travel lifting time.
- Automatic door opening & closing function.

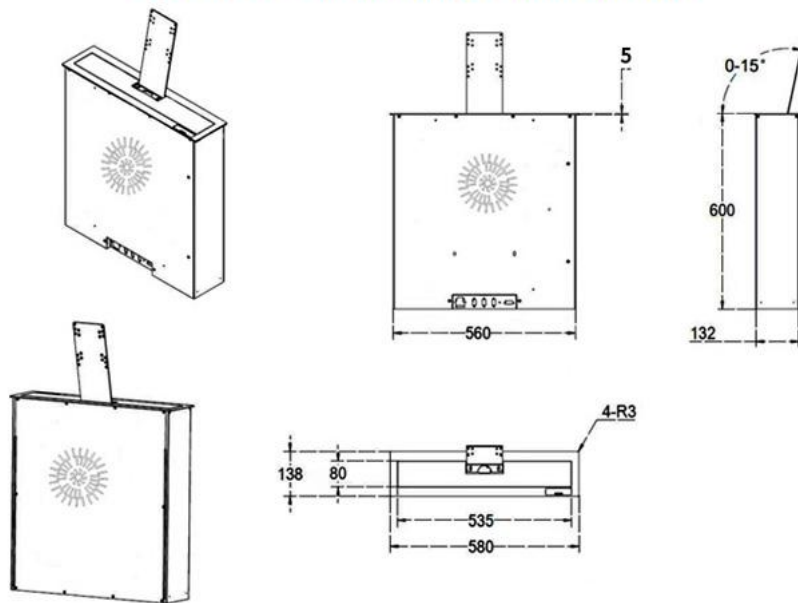
3. Product Specifications

- Model: SK-22", SK-24", SK-27"
 - Control Mode: Manual, Remote Control, Central Control
 - Remote Control Distance: 30 m
 - Monitor Tilt Angle: $\leq 15^\circ$
 - Operating Temperature: $0 \sim 45^\circ\text{C}$
 - Relative Humidity: $\leq 80\%$ ($20 \pm 5^\circ\text{C}$)
 - Color: Brushed Black Aluminum, Brushed Silver Aluminum
 - Load Capacity: 8.5 KG
 - Power Supply: $\text{AC}220\text{V} \pm 10\%$, 50Hz
 - Max Power Consumption: 25W
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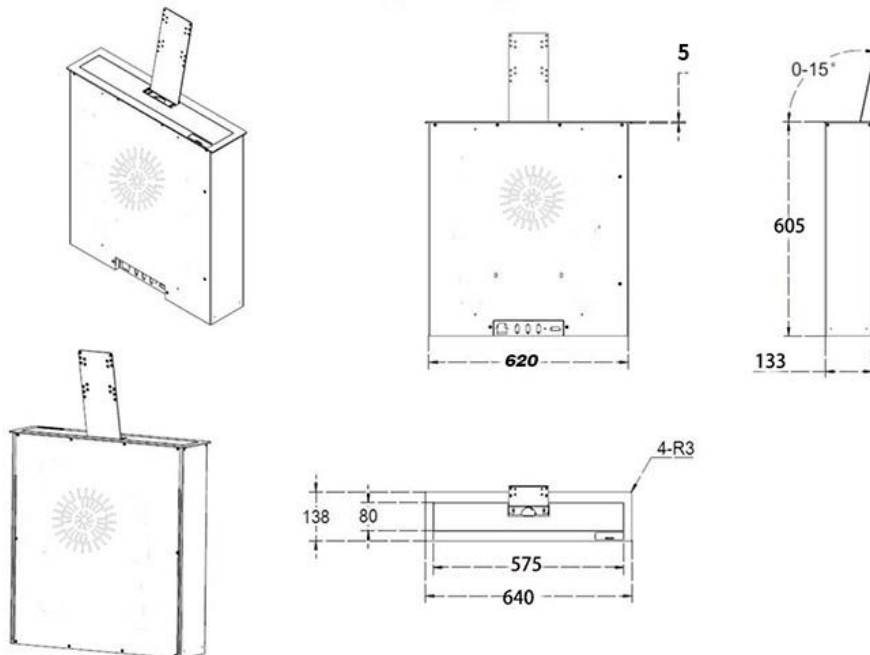
4.Overall Dimensions

Product Size(inch)	Panel Dimension (mm)	Cutout Opening Size (mm)	Chassis Dimension (mm)	Panel Material
22	580x138x5	535x80	560x132x600	Brushed Aluminum Alloy
24	640x138x5	575x80	620x133x605	Brushed Aluminum Alloy
27	730x138x5	665x80	700x133x655	Brushed Aluminum Alloy

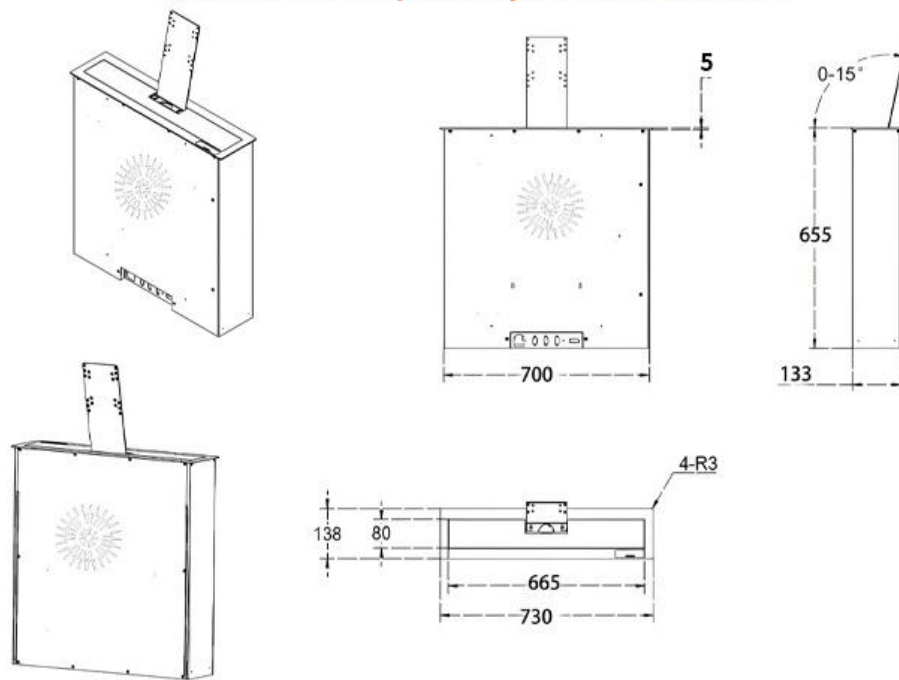
Screen Size Compatibility: 22-inch SK Series



Screen Size Compatibility: 24-inch SK Series



Screen Size Compatibility: 27-inch SK Series



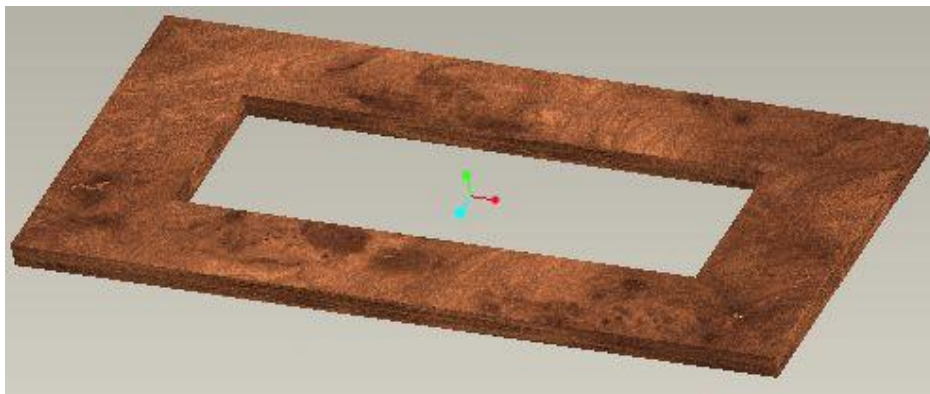
5. Installation Instructions

1) Packing List

- 1 set of monitor lift
- 1 power cable
- 1 remote control (one per meeting room)
- 1 copy each of user manual, certificate of conformity and warranty card

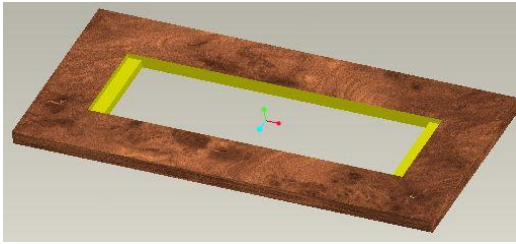
2) Installation Procedures

- (1) Confirm the mounting position on the desktop, then cut the matching opening according to the chassis dimensions of the monitor lift.



(Fig.5-1)

(2) Then mill the counterbore for the lift panel according to the panel dimensions.

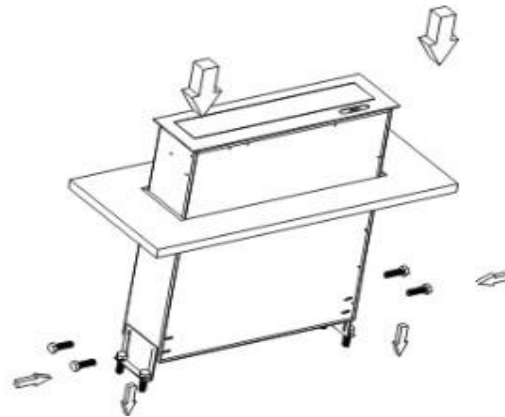


(Fig.5-2)



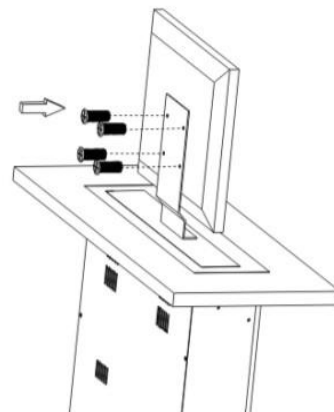
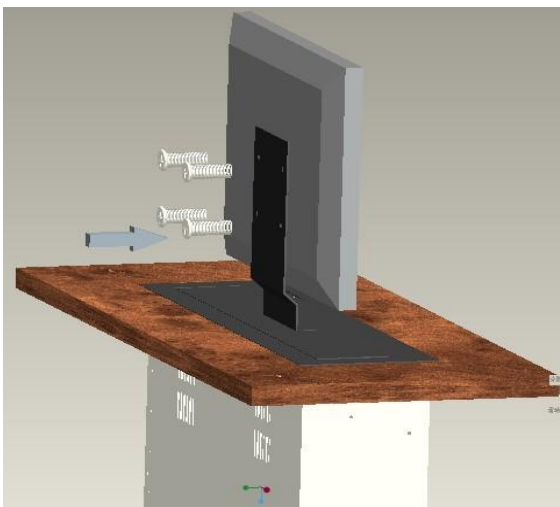
(Fig.5-3)

(3) Connect the power supply and operate the lift up and down 1–3 times to confirm normal operation. Disconnect all connected cables (VGA cable, power cable). Carefully place the lift into the pre-cut opening, secure it flat to the desktop, and reconnect all cables. (See Fig.5-4)



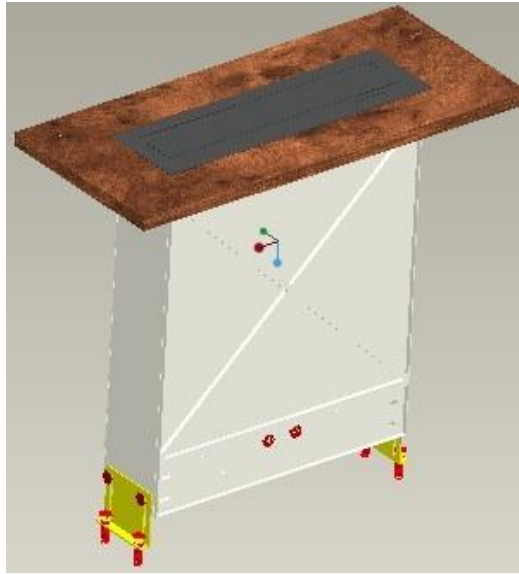
(Fig.5-4)

(4) After verifying smooth lifting movement, proceed to install the monitor. First remove the original base of the LCD monitor. Align the mounting holes on the rear of the monitor with the matching holes on the lift bracket plate, then fasten with screws. Finally connect the corresponding power connectors and multimedia signal interfaces. See Fig.5-5



(Fig.5-5)

(5) Installation Completed (See Fig.5-7)



(Fig.5-7)

Notes: Possible Causes for Lift Malfunction

- (1) Check whether the power connector is properly plugged in;
- (2) Verify if the remote control has sufficient battery power. You may test via the control button on the panel first.

6.Operation Instructions

1) Function Description

This LCD monitor lift supports lifting, lowering and pause operations via local manual control, wireless remote control and central control system. The maximum remote control distance is 30 meters. The monitor tilt angle is $\leq 15^\circ$, and the tilt angle setting of the LCD monitor can be memorized. (As shown in the figure)



2) Operating Environment Requirements

Operating temperature: 10°C ~ 40°C;

Indoor environment with relative humidity ≤95%;

Keep away from corrosive gas, organic solvent vapor, flammable and explosive atmosphere;

Power supply: AC220V (±10%);

Avoid severe vibration and collision.

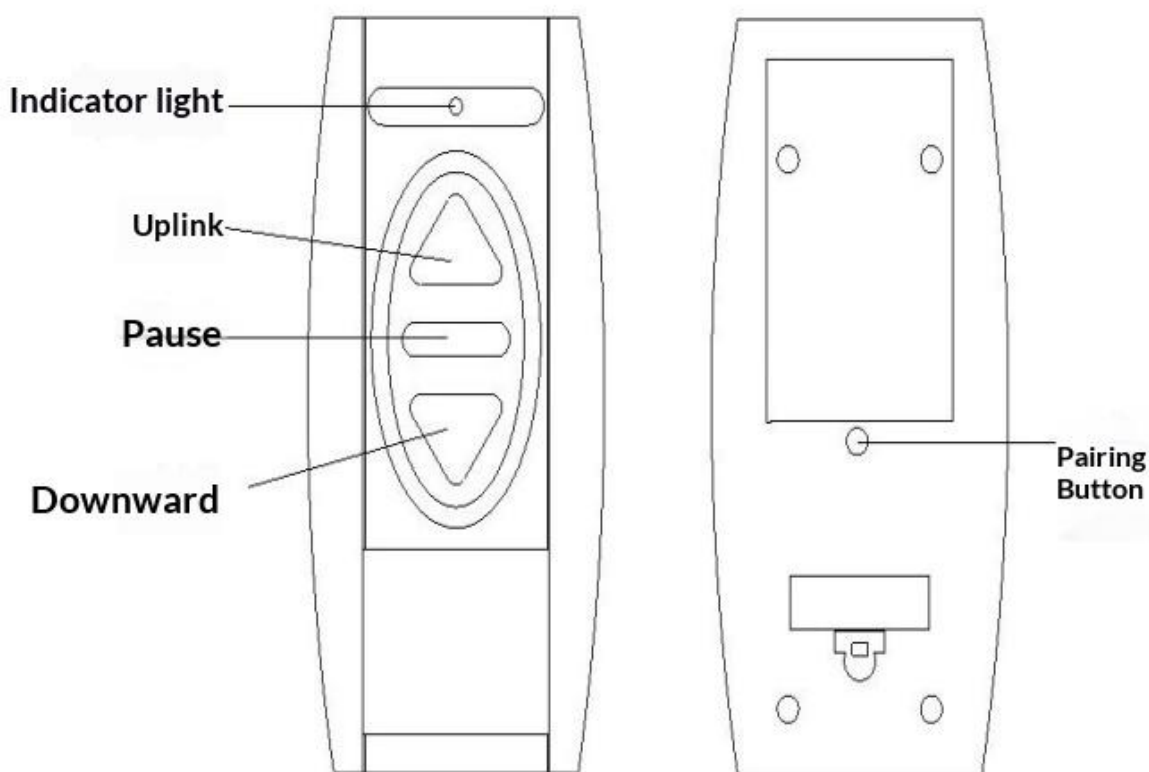
3) Control Instructions

There are four buttons on the control panel: Up, Down, Stop, PC / Host. Up, Down and Stop buttons control the operating status of the equipment respectively.

When the monitor is retracted inside the unit, press the Up button. The unit's decorative door closes and retracts inward, while the monitor rises. The base plate becomes level with the panel.

Afterwards, the monitor continues lifting and tilts backward until the unit stops automatically. The LCD monitor is powered on automatically with a mechanical tilt angle of 15°.

(1) Remote Control Mode:



① Single-unit wireless remote control: one-to-one control.

② Wireless grouped remote control: up to 5 groups available. Multiple units can be grouped and controlled by one single remote controller.

③ Pairing Operation Steps:

With power connected, press and hold both the Stop and Up buttons on the lift panel for about 2 seconds. The indicator light on the unit will start flashing. Then press the pairing button on the back of the remote control for around 1 second. If the indicator stops flashing, pairing is completed and the lift can be controlled by the remote. Repeat the above steps if pairing fails.

(2) RS485 Control Mode

① RS485 Wiring Connection

Connect the first LCD monitor lift to the RS485 serial port of the central controller using an RS485 crossover cable (Pin 2-3-5 to Pin 3-2-5). Connect subsequent lifts in series using RS485 straight cables (Pin 2-3-5 to Pin 2-3-5).

② RS485 Port Configuration

Baud rate: 2400

Data bit: 8

Parity: N (None)

Stop bit: 1

4) Troubleshooting

Fault	Solution
Unit does not work at all with no response	1. Check whether power is supplied to the power terminal and verify normal voltage. If no power, inspect the power supply circuit.
	2. If voltage at the power terminal is normal, check for loose connections of button wiring and motor wiring, blown fuse, and loose wiring of upper and lower limit travel switches.
Press Up / Down button, unit fails to operate, only weak vibration sound can be heard	Check if the capacitor is broken down or short-circuited, and whether its wiring is loose or open-circuited. The motor will overheat severely in this case. Disconnect power immediately to avoid motor burnout. Further inspect the capacitor for open circuit or breakdown.
Door opens, but the lift does not rise, while mechanical transmission sound can be heard inside the chassis	Check whether the red anti-vibration screw on the rear of the unit has been removed.

If the problem persists, please contact our company.