

LED Flexible Transparent Display

Steps & Instructions

·Step 1: Measure the specifications of the installed glass

- (1) Use a tape measure to measure the width above and below the glass to confirm if it corresponds to the size of the LED crystal film screen.
- (2) Use a tape measure to measure the height on the left and right sides of the glass to confirm if it corresponds to the size of the LED crystal film screen.
- (3) Place a laser level at an appropriate position. The screen should be attached to the red line of the laser level to ensure that the LED crystal film screen module and the glass are on the same horizontal line.

·Step 2: Clean the glass

- (1) Add a small amount of detergent to clear water and use a scraper to clean the glass until it is completely transparent and free of any stains. It is recommended to use a dedicated scraper for cleaning the glass as the stains on the glass may cause notches in the rubber scraper. Once the rubber scraper is uneven, it will lead to incomplete drainage when used to hang the screen.
- (2) Add dedicated "film application water" (in a ratio of 1:50-100) to clear water and spray a layer on the position where the glass will install the LED crystal film screen to facilitate the movement of the LED crystal film screen during installation.

·Step 3: Install the crystal film screen

- (1) Take out the crystal film screen, remove the protective film, and then spray a layer of water (a mixture of clear water and film application water in a ratio of 1:50-100) on the crystal film screen to facilitate its movement during installation. Note that the adapter board/control part should not be sprayed with water.
- (2) If the installation method is left-right splicing, install from top to bottom.
- (3) If the installation method is top-bottom splicing, install the upper LED crystal film screen module first, and then install the lower module.
- (4) Attach the first LED crystal film screen module along the horizontal line of the laser leveler on the glass. Spray some water (a mixture of clear water and film application water in a ratio of 1:50-100) on the surface of the crystal film screen to prevent damage to the screen from the contact and friction of the scraper. Then, use a dedicated rubber scraper with appropriate force to remove the sprayed water until no bubbles are visible. Use a lint-free cloth to wipe the water clean at the adapter board area (Note: The glass at this position should also be cleaned of water with the rubber scraper), and then press firmly.

After installation, it is essential to measure whether the module is level; there should be no tilting, otherwise, the subsequent modules will also be tilted.

(5) After installing the first crystal film screen module, use a power supply to light up the module with white light to check for any bubbles (Note: This step is particularly important as it will determine whether there are any bubbles in the entire screen after installation). Continue checking until all bubbles and water bubbles are completely gone.

(6) The second module and the first one must be aligned and adhered to the glass surface closely. The method is the same as that for installing the first one. Then, install the third, fourth modules, and so on until all are installed.

(7) After all the modules are installed, wait for about 1 hour. Use a single power supply to light up and display the LED crystal film screen of each module with "white light". Then, check again to see if there are any bubbles that haven't been completely removed. If you find bubbles in some areas, spray some water on the surface of the screen with a kettle, then use a scraper to remove the bubbles until they are completely gone.

·Step 4: Installation of the power control section

(1) After the LED transparent screen module is installed and all checks are completed without any bubbles, install the control box structure, power supply and casing after a 12-24-hour interval.

(2) Connect each LED crystal film screen module together and blow the control part of the LED module with a hot air gun (to prevent short circuits caused by stains on the control board).

(3) After installing the power box, wrap the control part with the U-shaped module outer box (the company's factory standard configuration). Then, perform reinforcement treatment. Finally, affix the product certificate on the outer box (Note: The certificate has a LOGO, product power, working voltage, installation time and other necessary parameters, and a new QR code is added).

·Step 5: Debugging

(1) After checking that the screen wiring is correct, connect the screen body and the player and power on.

(2) Enter the control system APP page for debugging.

Thanks for your reading!