FIELD MANUAL · PEEL-AND-STICK

LED FILM INSTALLATION GUIDE

INDOOR · GLASS SUBSTRATE · WET APPLY · CURE 8–24 H · THEN POWER

Step-by-step guide for installing self-adhesive transparent LED film on existing glass. Read safety and layout rules before you open the film. Do not skip the curing wait before mounting the power box.



Indoor only	Glass only	8–24 hours	AC 100–240 V
NO OUTDOOR USE	BEST CARRIER	ADHESIVE CURE	50 / 60 HZ

BEFORE YOU START — HARD LIMITS

- **Indoor use only.** Keep away from direct sun, dust, and high humidity.
- **Structure:** Confirm the mounting point can hold **3× or more** the total weight (film + power supplies).
- **Level install:** The display must be installed horizontally level.
- **Clean site:** No airborne dust during install — dust under the film is permanent.
- **Grounding:** Mounting structure and display must be properly grounded.

01 Prep & tools → 02 Layout rules → 03 Wet apply → 04 Cure 8–24 h → 05 Power & light

TOOLS & MATERIALS

01 **Pressure sprayer** — Water + ~5% mild detergent	02 **Glass cleaner** — Degrease before water mist	03 **Tape measure** — Confirm glass size & position
04 **Lint-free cloth** — Dust-free wipe only	05 **Squeegee** — Felt/rubber edge — no scratch	06 **Socket + Phillips** — Power box nuts & cover screws

SITE PREPARATION

MEASURE

Measure and confirm glass size. Mark the install position and where the power / data tail will exit before you peel any film.

CLEAN THE GLASS

Remove raised points, dirt, and edge adhesive residue. The glass must be clean and free of foreign objects — anything left under the film shows forever.

UNBOXING CHECK

Close the install area. Read safety on page 1. After opening the box, confirm quantity, specifications, and packaging immediately. Wear clean anti-static gloves when handling the film.

CONTROL PC (RECOMMENDED)

CPU	Intel i5 or higher
RAM	8 GB or more
STORAGE	500 GB free
GPU	≥2 GB VRAM · up to 1920×1080

OS	Windows 7 or later
PORTS	Ethernet + serial as needed
POWER	AC 100–240 V · 50/60 Hz
PROTECTION	Breaker · OVP · earth fault

ELECTRICAL NOTE

Size AC capacity with our technical team. Install switches, circuit breakers, over-voltage protectors, and fault ground breakers in the main distribution cabinet. Ground structure and display to prevent shock.

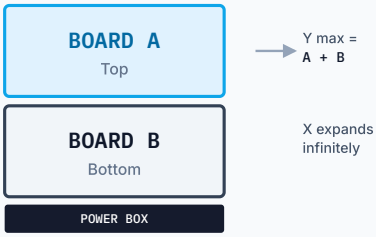
LAYOUT RULES — BOARD A & BOARD B

Each module set is Board A + Board B. You may use A or B alone, but **never mix A and B from different pairs incorrectly**. To expand beyond one board length, splice A+B as a pair.

CRITICAL

Board A and Board B are a matched pair for splicing. Do not swap A/B orientation against the defaults below. Wrong pairing causes blank zones or mapping errors.

Vertical splice (A above B)



Default: A on top, B on bottom. Max height = A+B length. Width (X) can extend by repeating pairs.

Horizontal splice (A left of B)



Default: A on the left, B on the right. Max width = A+B. Height (Y) can extend by repeating pairs.

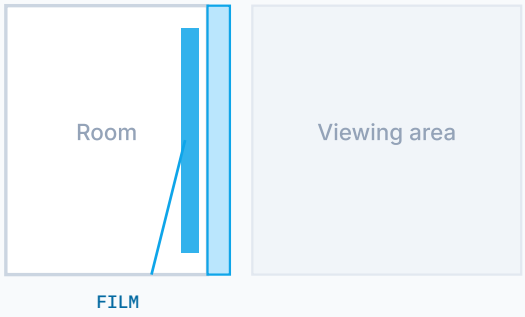
HIDING THE POWER BOX

If you do **not** need to hide the power box, you can splice freely in both X and Y. If the power box must sit at an edge or behind a cover, plan exit direction before applying film.

MOUNTING ORIENTATION

Confirm the emitting face and service access in the approved drawing. Film and all connections remain in a dry indoor location.

INSIDE-OUT · FRONT SIDE

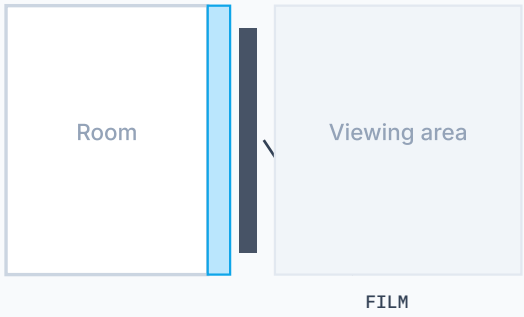


Film on interior face of glass

Front install (inside-out)

Film applied from the room side onto the glass. Keep the service access and power box indoors. For sun-facing retail glass, assess Holographic first.

INDOOR PARTITION



Both sides of the glass are indoors

Indoor partition

On an interior partition, either side of the glass is indoors. Confirm the emitting face, adhesive side and access with the supplied configuration before fitting.

PRE-APPLY CHECKLIST

- [ ] Glass measured; curve diameter ≥1 m; access checked
- [ ] A/B orientation decided
- [ ] Power / data exit path planned
- [ ] Squeegee + lint-free cloth ready
- [ ] Glass degreased and dust-free
- [ ] Emitting face and service access confirmed
- [ ] Sprayer mix ready (water + ~5% detergent)
- [ ] Area closed; gloves on

APPLICATION STEPS 01–06



STEP 01

Spray the glass

Mist water evenly over the glass. Mix about **5% detergent** so the film can slide for alignment.



STEP 02

Remove protective film

Peel the protective liner. Keep the adhesive face clean — no fingerprints, dust, or cloth fibers.



STEP 03

Spray the adhesive face

Mist the sticky side evenly. This prevents premature grab and lets you fine-tune position.



STEP 04

Align on glass

Place the film and align to your marks. Confirm A/B orientation and power-tail direction.



STEP 05

Spray the outer surface

Mist the front of the film so the squeegee glides without scratching the LED grid.



STEP 06

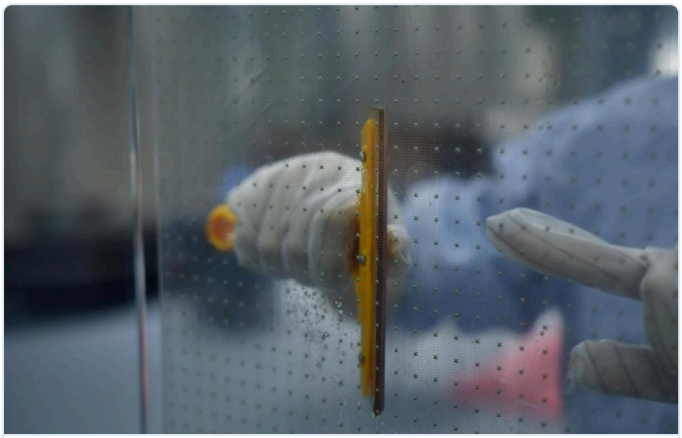
Squeegee water out

Push water out firmly from center to edges. Overlap strokes. Do not leave trapped pockets.

STEPS 07–12 — CURE & POWER WIRING

CONNECTION ORDER

After cure: mount PSU → plug **LAN** → **5V** → **main power** → player box. Do not hot-plug under load. **Never skip the 8–24 h cure** before mounting the power box.



STEP 07

Confirm moisture is gone

Inspect for remaining water or air. Re-squeegee haze bands. Edges must sit flat with no lift.



STEP 08

Cure 8–24 hours

Wait until water is dry and the film is firmly bonded. **Only then** install the power box.



STEP 09

Mount the PSU

Fix the power supply to the adapter plate with nuts and socket. Keep wiring routes clear.



STEP 10

Plug LAN cable

Seat the data / Ethernet connector fully until it clicks. Confirm label orientation.



STEP 11

Plug 5V cable

Connect the low-voltage 5V lead. Red / black polarity must match the socket.

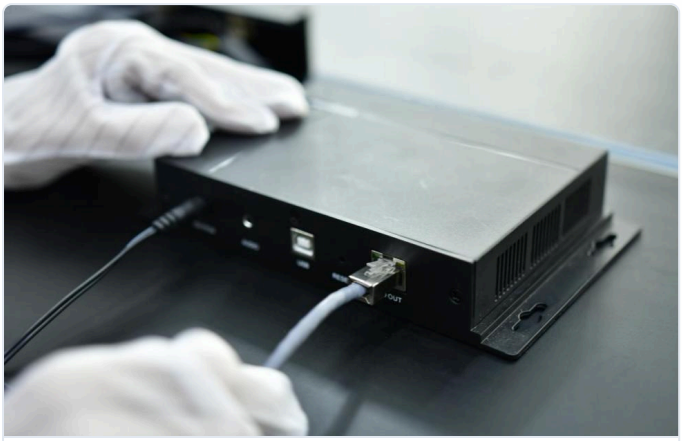


STEP 12

Main power connector

Mate the main DC power plugs firmly. Support the cable to avoid strain on the port.

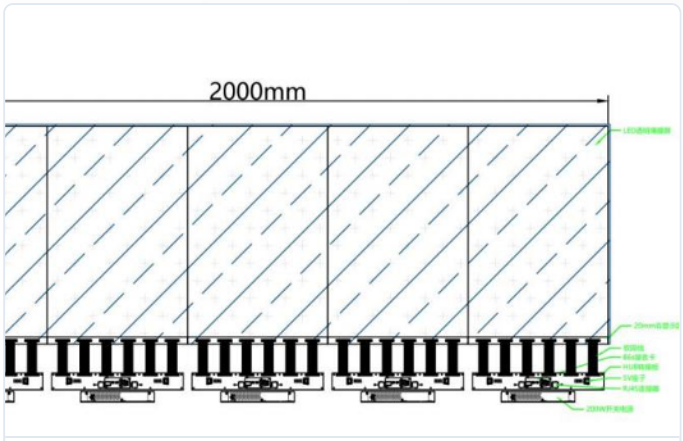
FINISH & ACCEPTANCE — STEPS 13–15



STEP 13

Connect player box

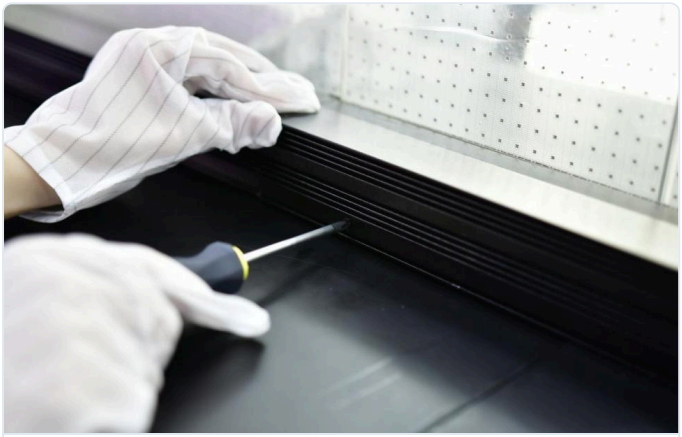
Link the controller / player (OUT / Ethernet as labeled). Power on and run a test pattern.



REFERENCE

Port map

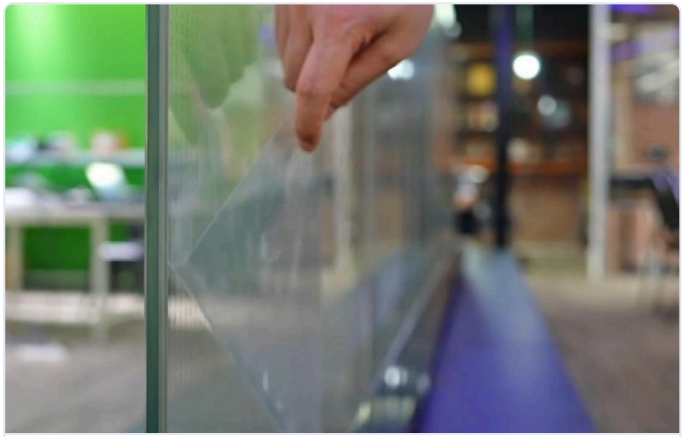
Match receiving card, HUB, 5V, and network ports to the factory drawing if provided.



STEP 14

Fit the back cover

After the screen lights correctly, install the power-box back cover with a Phillips driver.



STEP 15

Remove backing after accept

When acceptance is complete, remove any remaining backing / surface film per shipment notes.

RE-INSTALL NOTE

Reposition only shortly after first application. The adhesive cannot be replaced. We recommend no more than three reapplications after the first fitting, subject to film and adhesive condition; three is not a guaranteed reuse allowance.

ACCEPTANCE CHECKLIST

- [ ] Film flat; no bubbles or lift at edges
- [ ] Cure wait completed before PSU
- [ ] Test pattern full-white / full-color OK
- [ ] Grounding verified
- [ ] A/B layout matches drawing
- [ ] LAN / 5V / mains seated correctly
- [ ] No dead pixels / no flicker
- [ ] Cover fitted; cables dressed

NEED INSTALL SUPPORT?

Send glass sizes, pitch, curve diameter and an installation drawing for review.

WEB: doitvision.com/product/led-film/
EMAIL: info@doitvision.com
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APPLICATION: Indoor glass integration and art displays