



Transparent LED display physical installation

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Product:	Commercial Display / Creative LED			Page:	1 of 3

Necessary tools for installation

- ladder
- glove
- drilling machine with bits
- leveler tool
- screwdrivers
- socket wrench
- pliers
- tape measure

Preparation

- **collect approvals** from related company or from local authorities to avoid later penalties
- **check the installation field** (building manager, general affairs, electrician) and final placement
- **verify power input** requirement based on the installment's request, if necessary – build up a direct circuit for the LED display
- finalise the product's size and decide the final **mounting/holding structure**
- find out how the power and signal cables could be hidden after the installation is finished

Physical installation

- recommended to do the physical installation by **two person** at least
- **no special knowledge** required for the installation staff members
- two different way for the installation placement (wall mounted and embedded)

This document describes the embedded mounting steps. The wall mounting scenario is very similar.

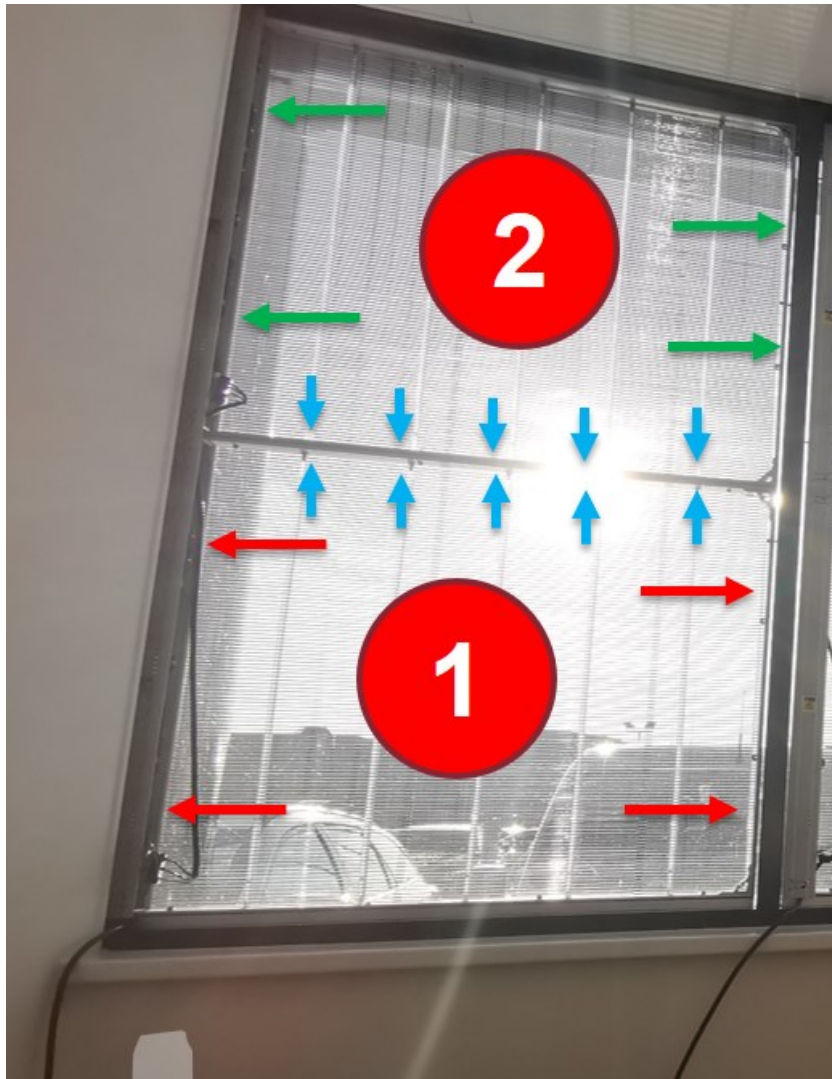
Unboxing

- collect all boxes, plywood cases, which has the installable items
- open all boxes and cases carefully, to avoid damage or any injury
- unpack and store all items in safe position, check the delivery item list
- the transparent LED is delivered with plywood protectors and holders
- remove the holders and the packaging materials
- check the panel conditions to avoid issues in upcoming stage
- check the test report and verify final placement prerequisites (power, weight)

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Placement

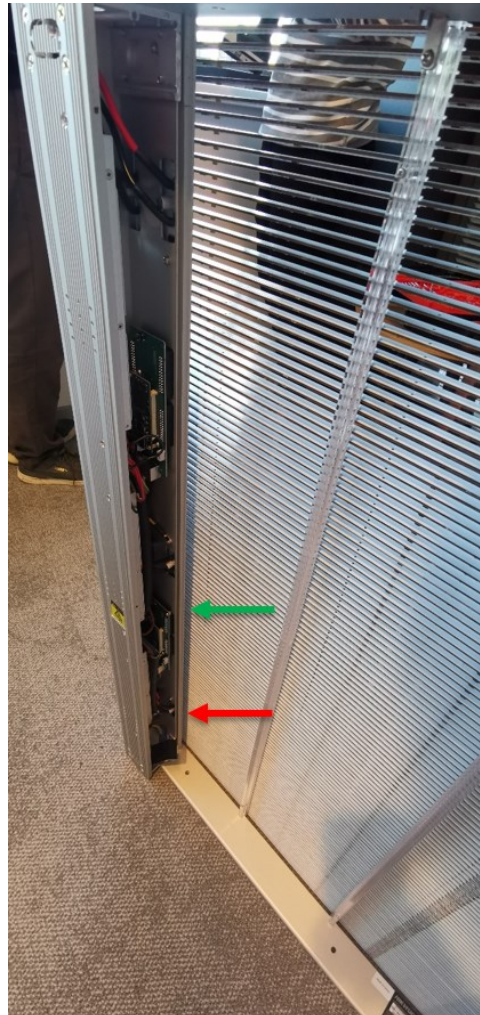
- start the installation from left or right side of the available space
- put the **first item** (marked with 1) on the bottom, **align it correctly**
- **fix** the frame with four (two to each side) **self cutting screws** carefully >> marked with **red** on the 1st item
- put the next item (marked with 2) above and **connect the frames** with five pair **metric bolts** >> marked with **blue** between 1st and 2nd item
- **align** the second item (marked with 2) and **fix it to the sides** with four (two each side) **self cutting screws** >> marked with **green** on the 2nd item
- continue to add more frames above or left/right side, if needed – follow the previous steps to mount the new items
- **check the structure stability**, finally tighten or loosen the screws, if necessary



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Cabling

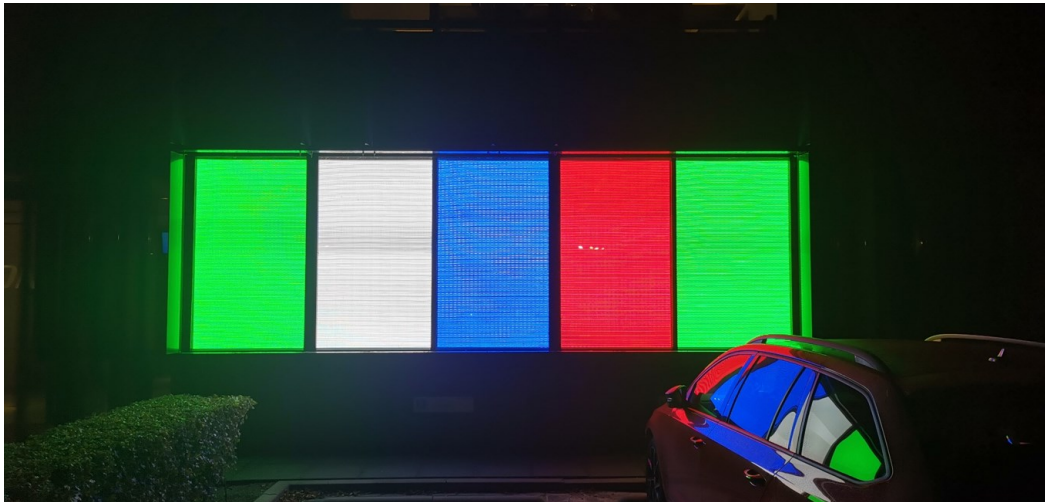
- connect the **power** input cable (marked with **red**) to the the first cabinet
- if there is any cabinet above, please connect that cabinet's power input into the same connector and feed the next frame with power from there
- it is possible to start the power input from top, not only from bottom – each column should be powered separately – do not cascade rows/additional columns together
- connect the **data** (RJ45/LAN/ethernet) cable (marked with **green**) to the first cabinet
- if there are two receiving cards inside the cabinet (mainly in case of customised size), then you have to connect these cards together as well internally with same data cable
- connect all the cabinets together in loop/daisy chain – **this entire loop will be connected to one sending card** (sending card means one port of the LED controller)
- **one port can drive 0.65Mpx in total** (max number of pixels connected to one loop)



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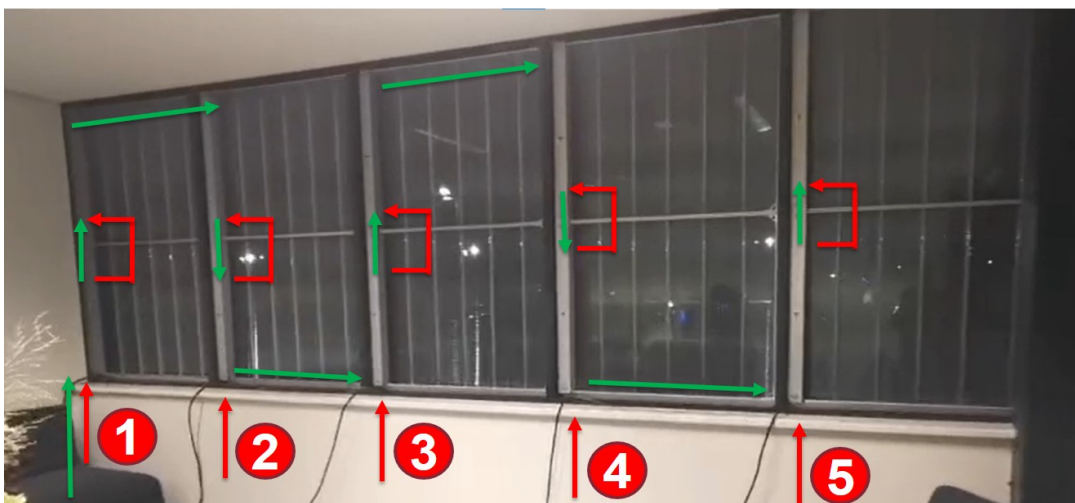
Test pattern

- for installation testing, push the test button on each receiving card to **show embedded test pattern**
- this step can be done only if the device is powered up – **be very careful** while doing this



Cabling design

- verify your final cabling with this example
- data cabling starts on bottom right and goes as the green arrows show (observe the installation from the front view)
- **be careful with the power input** cables after they are connected to the power source (especially if the electrician installation is not finalised)





See Far, Go Further