



1.1

•Once you have received your True Performance delivery, review the packing slip and verify that the shipment is complete and undamaged.

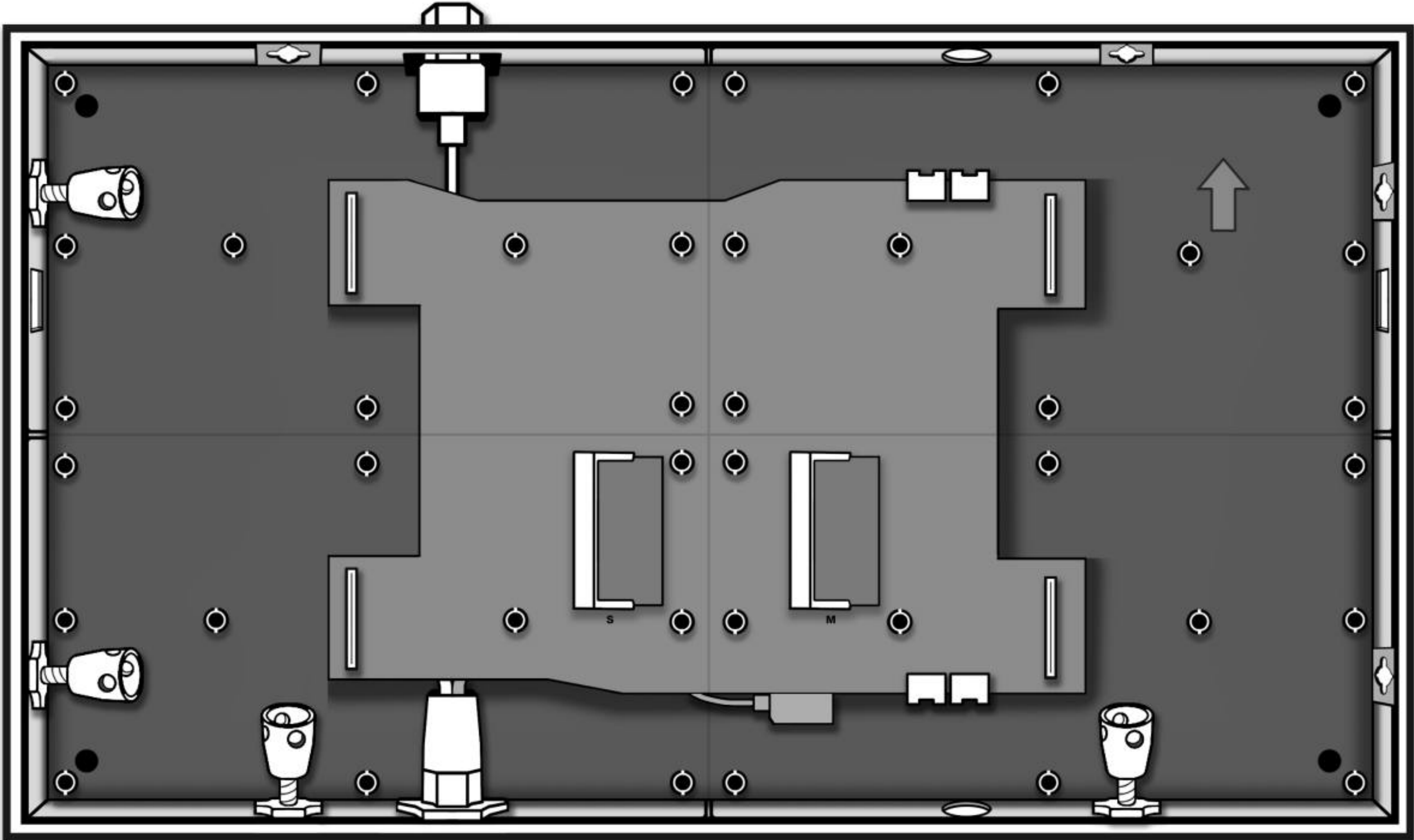
1.2

•If the temperature difference between the transport and the installation location exceeds 10°C, allow the delivery to acclimate for 24 hours.

1.3

•Follow the step-by-step instructions for assembling the True Performance LED video wall. If you have any questions, contact us via the email address provided in the footer.

2.1



Quick-Lock Mechanism
(LED Panel)



Counterpart
(Quick-Lock Mechanism -
LED Panel)



Cable Routing



Power Cable
(Output)
(100-240V 50/60Hz)



Adjustment Magnet
(LED Cluster)



LED Cluster
Connection
(Slot)



Network Cable Connection
(RJ45)



Cable Routing

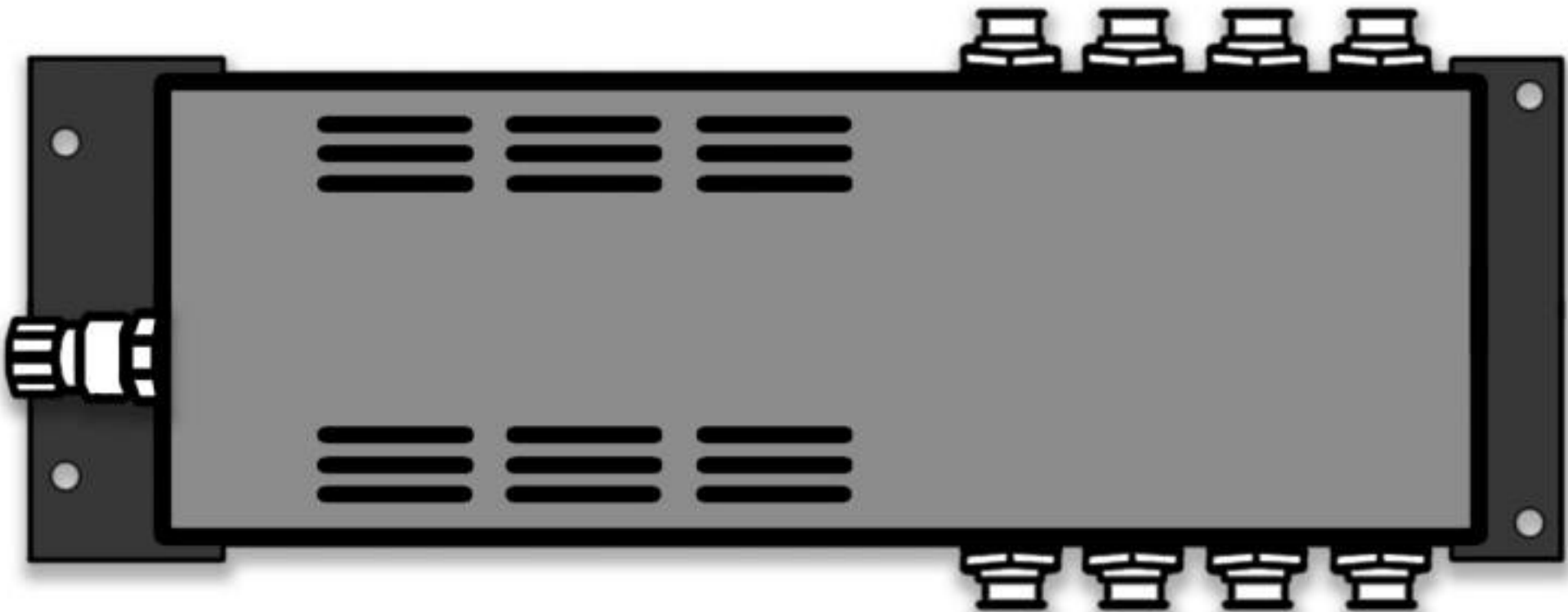
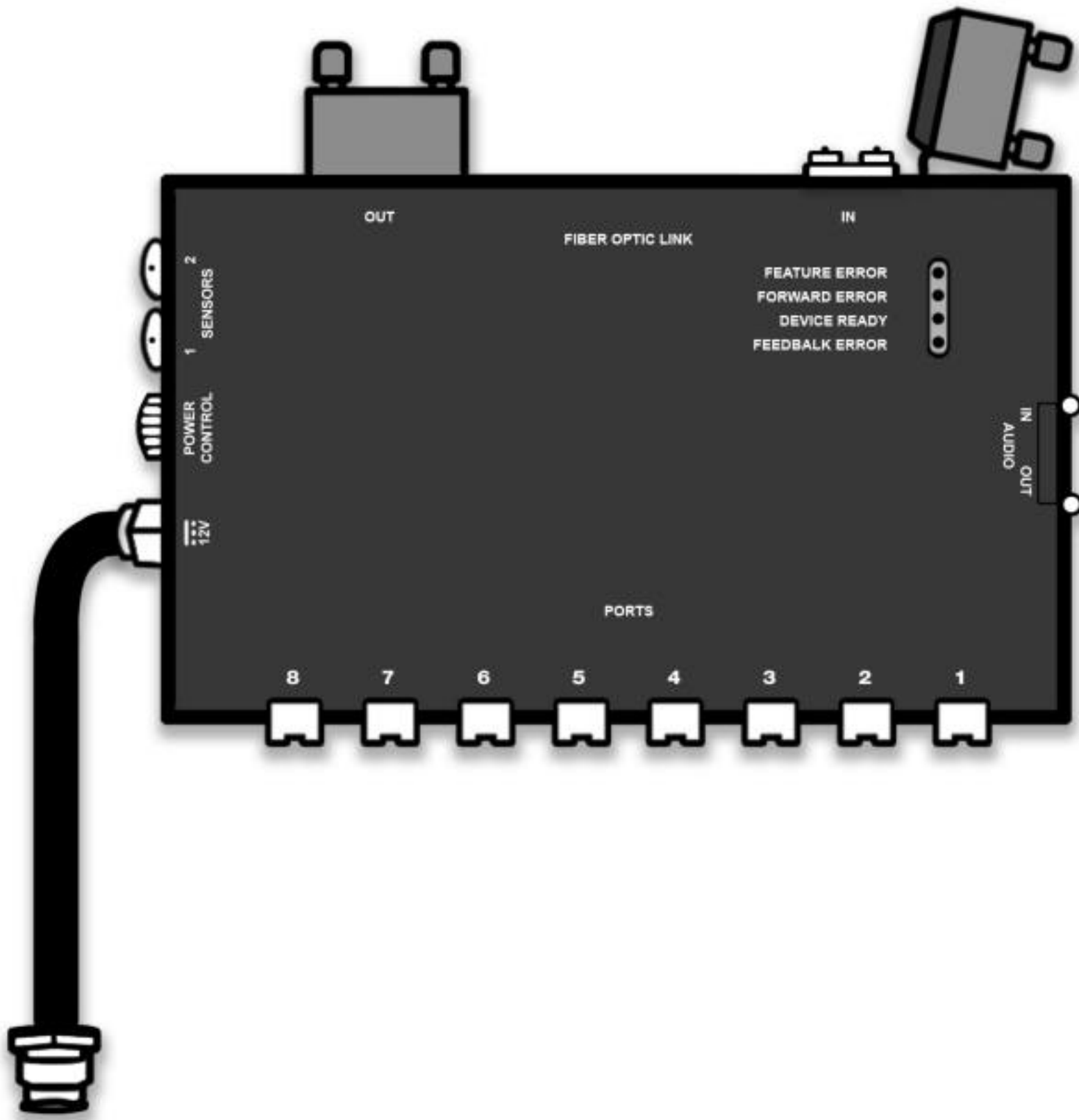


Power Cable
(Input)
(100-240V 50/60Hz)



Receiving Card
(Slot)
(Slave/Master)

2.2



Power Connection
(Input)
(12V)



Power Control



Audio Connection
(Input/Output)



Network Cable Connection
(Input 1-8)
(RJ45)



Fiber Optic
Connection
(Input/Output)



Sensor Connection
(Input 1,2)

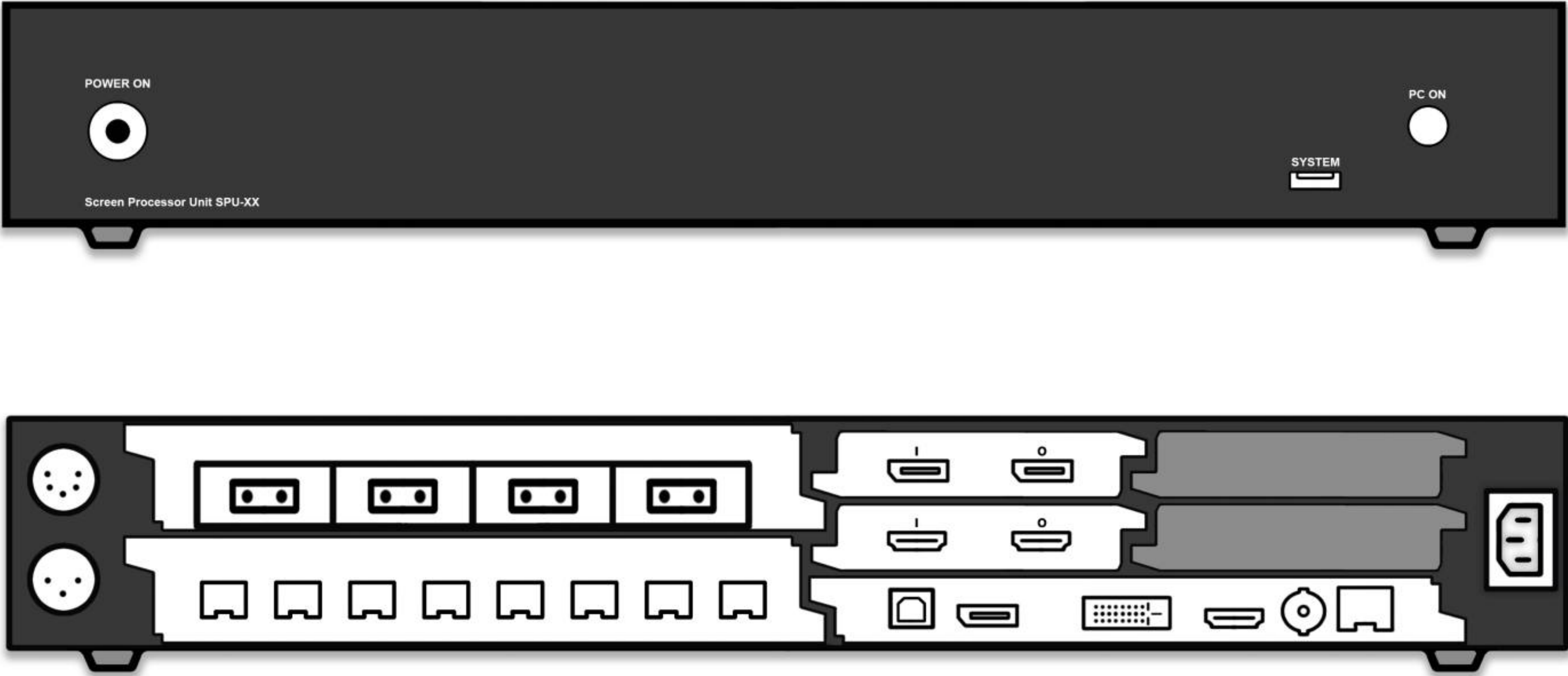


Power Connection
(Input)
(100-240V 50/60Hz)



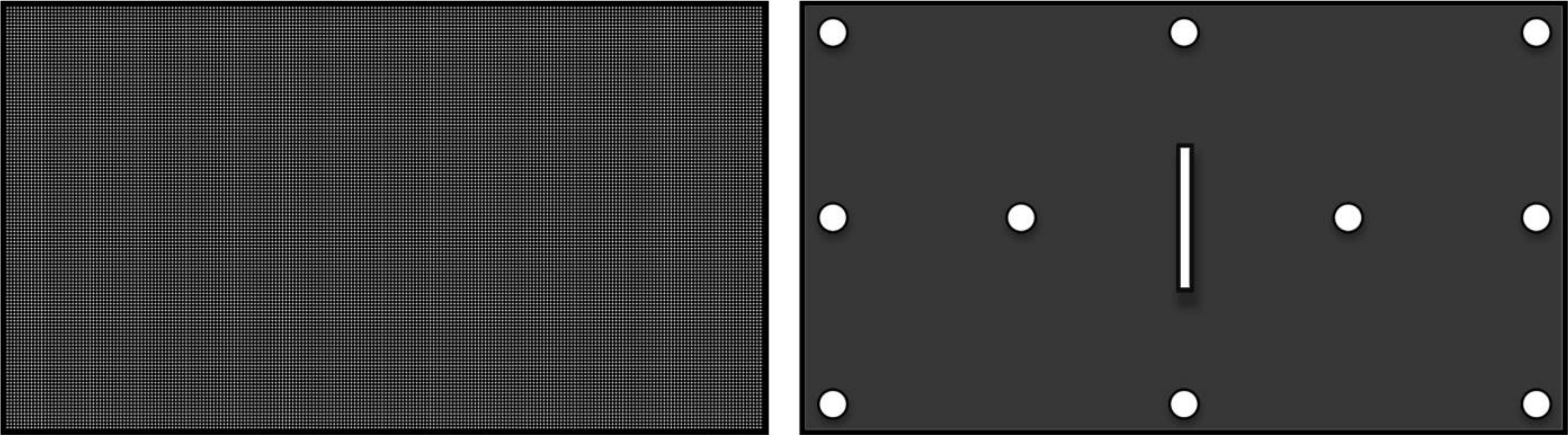
Power Connection
(Output)
12V

2.3



- | | | | | |
|---|------------------------|---------------------|--|--|
| USB Connection
Optional
(Inactive) | Power Button | DMX
(Input) | Signal Output Card
(Fiber Optic) | Signal Input Card
(DP 1.4 / HDMI 2.0b incl. Loop Out) |
| PC Power Button
Optional
(Inactive) | Power Cable
(Input) | AES/EBU
(Output) | Signal Output Card
(Network) (RJ45) | Mainboard Card
(USB-B, DP 1.2, DVI, HDMI 2.0b incl.
Loop Out, Genlock, Network RJ45) |

2.4



Fixation Magnet

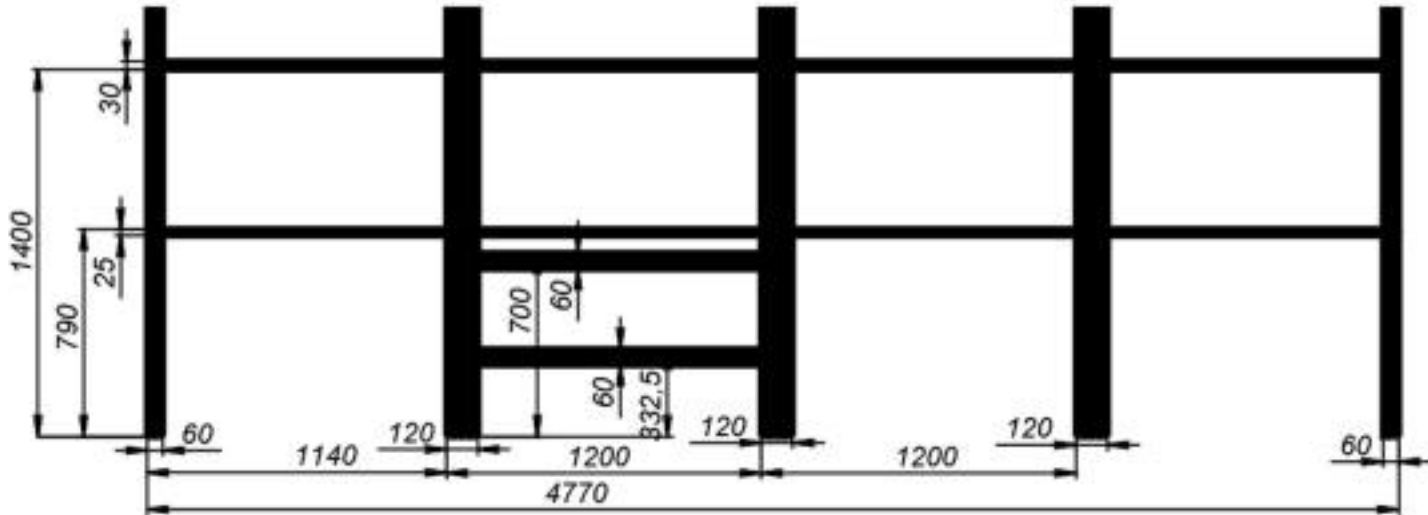
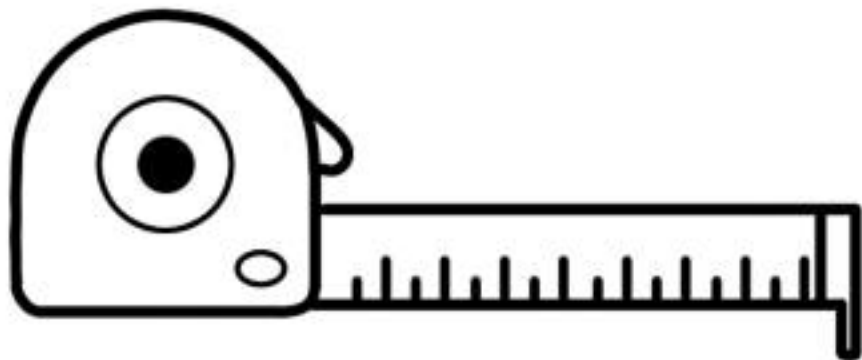
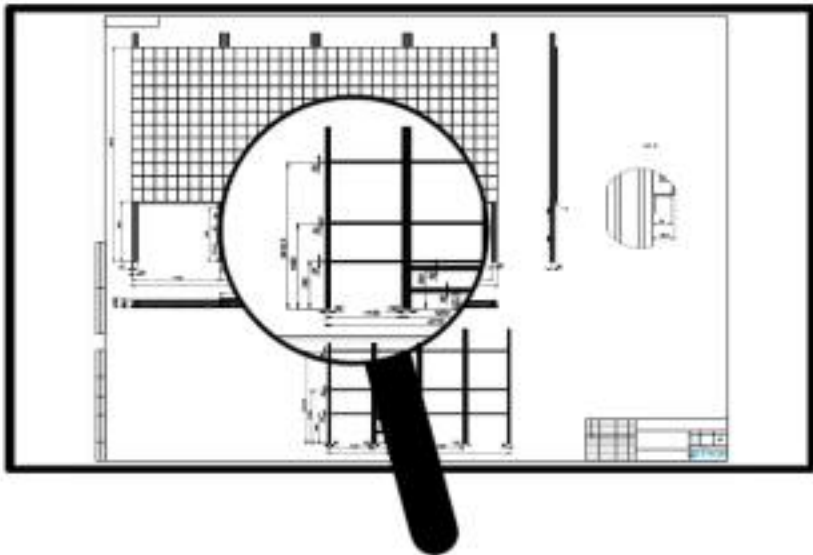


LED Panel Connection



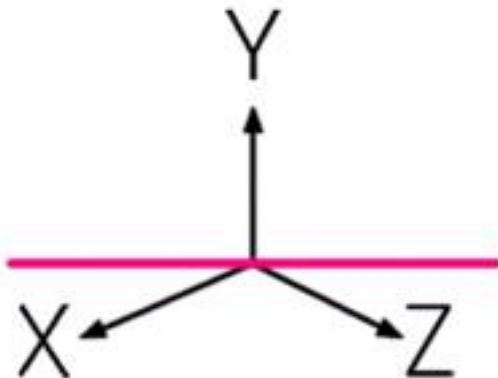
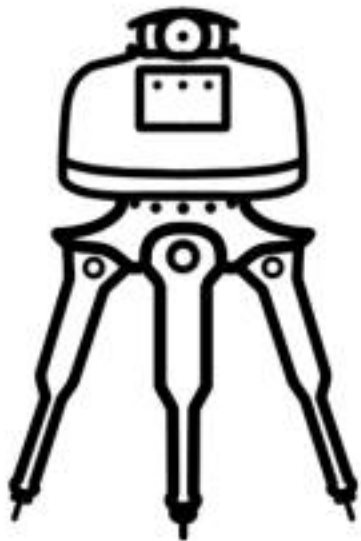
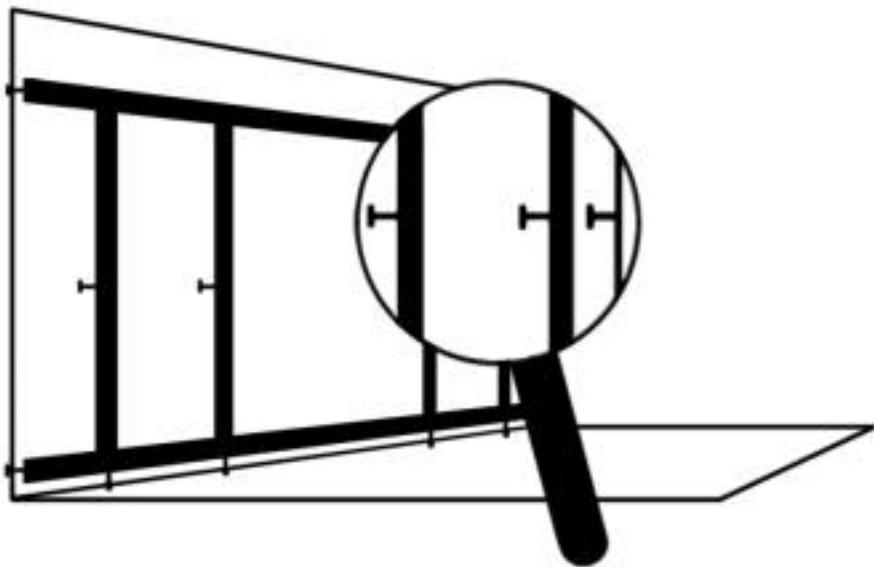
3.1

- Verification of All Dimensions:** Check that the dimensions of the substructure match the technical drawing.
- Verification of Mechanical Fixation Points:** Ensure that all fixation points are in the correct positions and at the correct distances from each other.



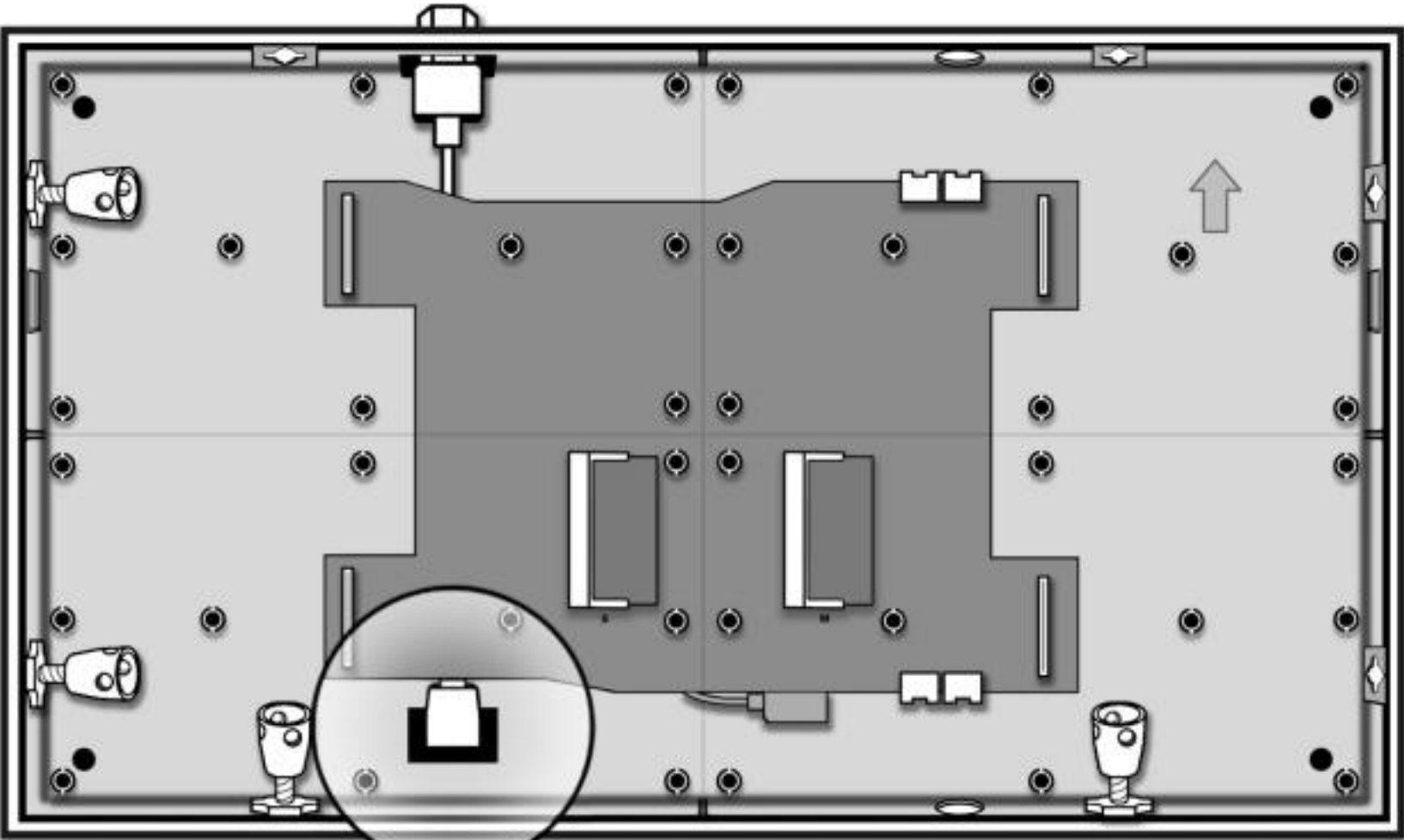
3.2

- Securing the Substructure:** Check that the substructure is properly bolted, connected, and secured to the wall behind or the floor below.
- Level Check:** Use a rotating laser to ensure that the substructure is level both vertically and horizontally, with no displacement of orthogonality.

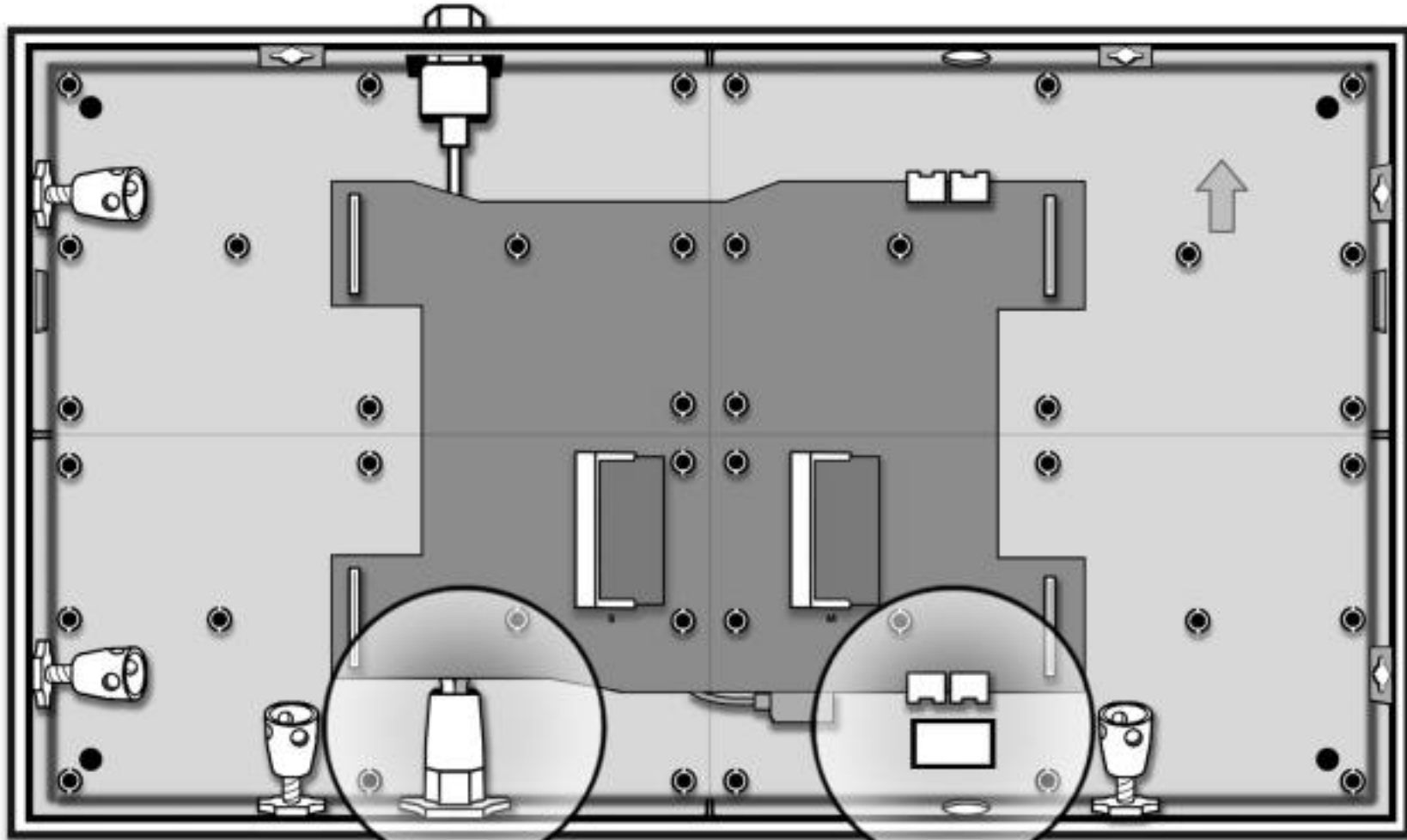


4.1

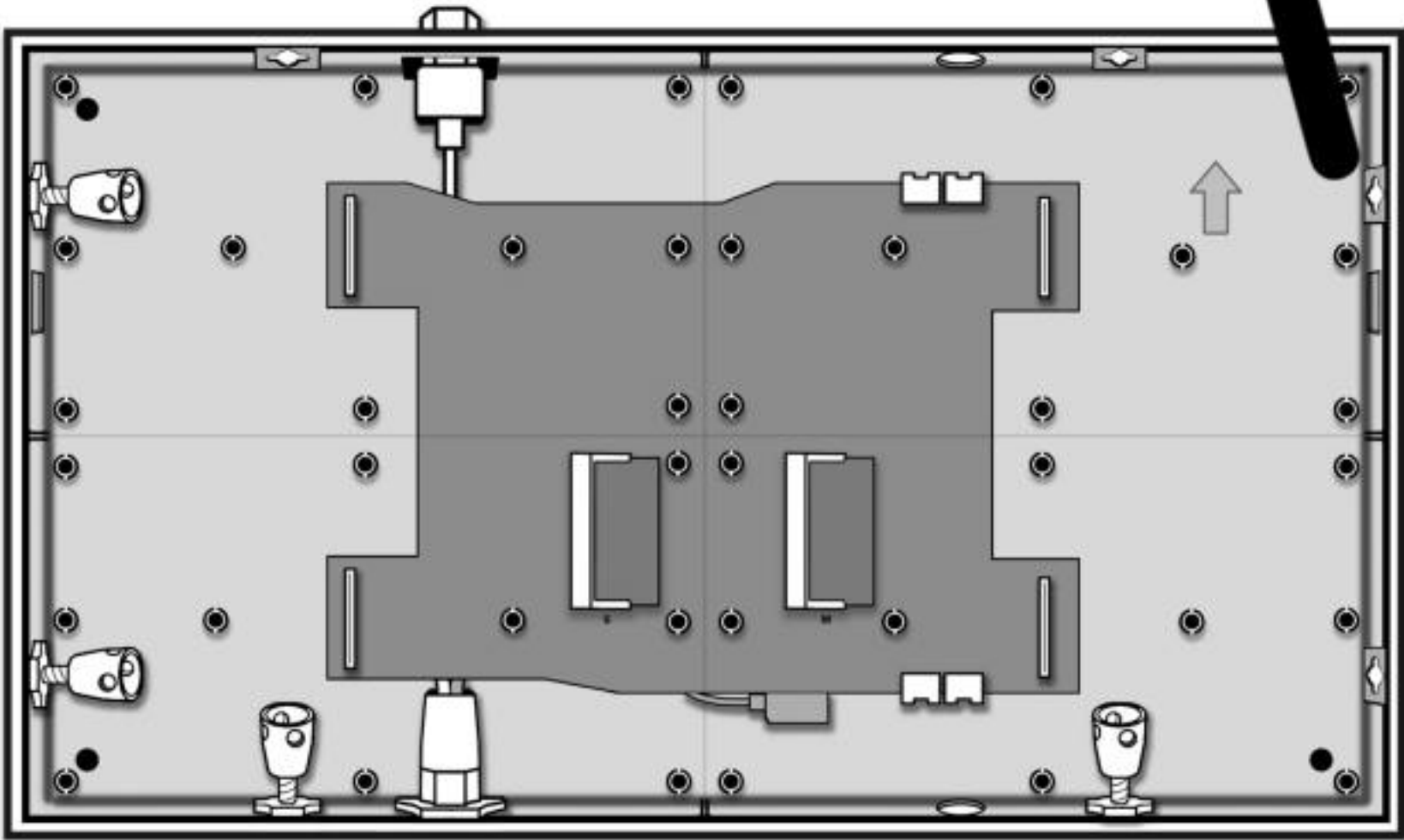
- Sort the LED Panels by Type A, B, and C: (Refer to the cable diagram to see where each type of LED panel is to be used.)
- Type A: LED Panels for the bottom or top LED panel row (depending on the location of the power connection), with power connections on the back.
- Type B: LED Panels with power connections facing down and openings for outgoing signal cables at the back
- Type C: 'Standard' LED Panels with power connections facing down and no openings for outgoing signal cables at the back.



Type A

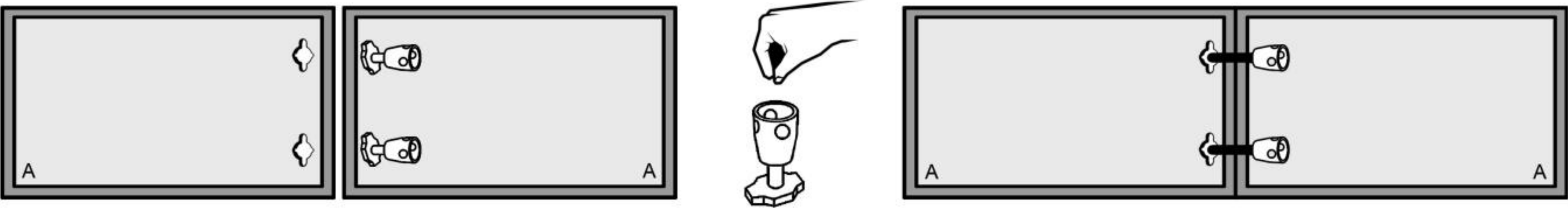


Type B

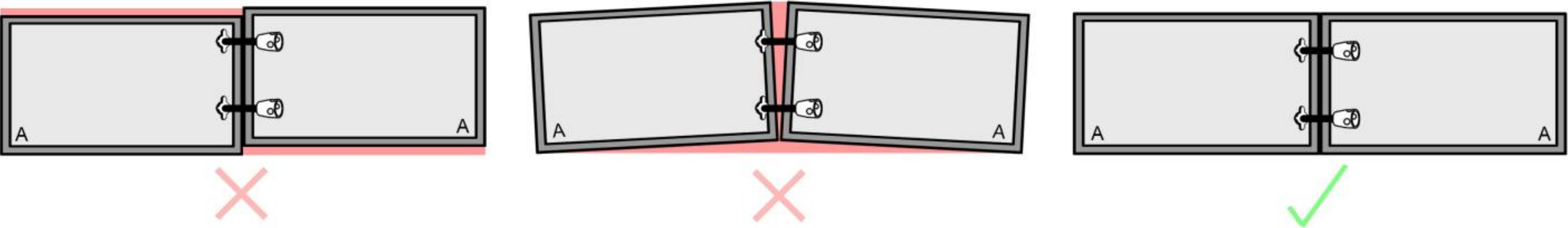


Type C

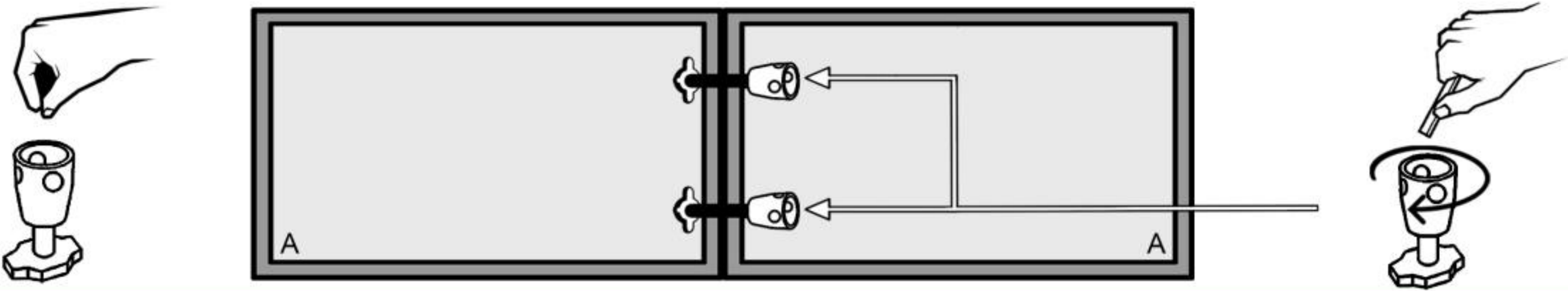
- 5.1.1**
- The **installation** of a True Performance LED video wall is always carried out **without the LED clusters installed** in the LED panels! (The LED clusters will be installed in Step 8.)
 - Start** with the **Type A** LED panels for the bottom horizontal row.
 - Place two Type A LED panels side by side and connect them using the integrated quick-lock mechanisms.



- 5.1.2**
- Visually and physically check that the LED panels are flush with each other.
 - Adjust the LED panels until they are perfectly aligned in a straight line.

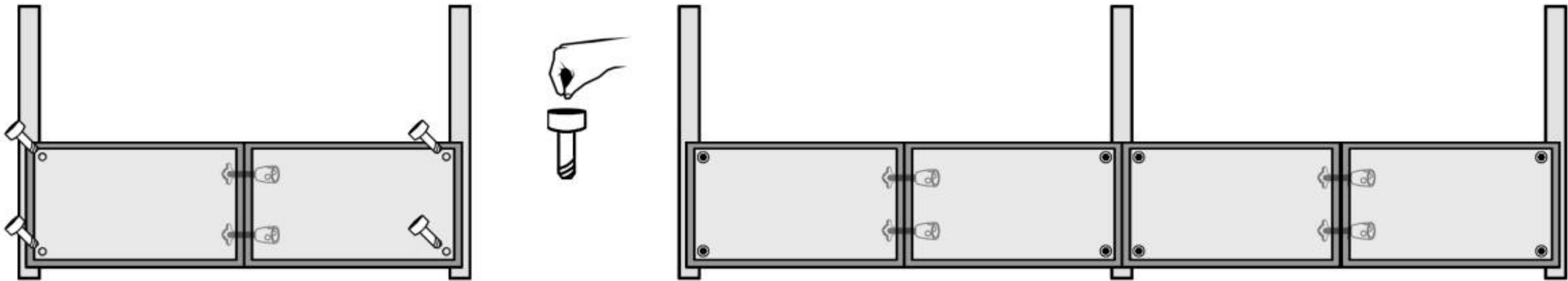


- 5.1.3**
- Tighten the quick-lock mechanisms first by hand and then securely using a hex key (approximately 45-90°).



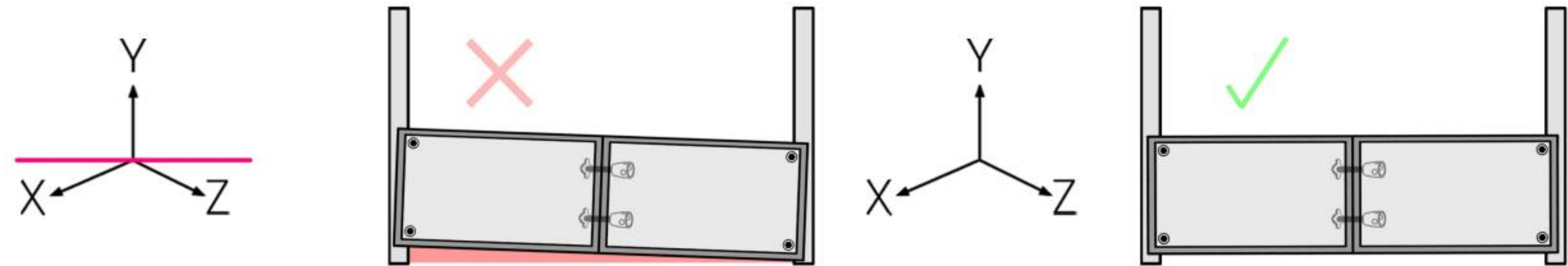
5.2.1

- Position the connected LED panels in the bottom row at their final location within the substructure and secure them by hand to the substructure at the back.
- Repeat the process for the entire bottom row.



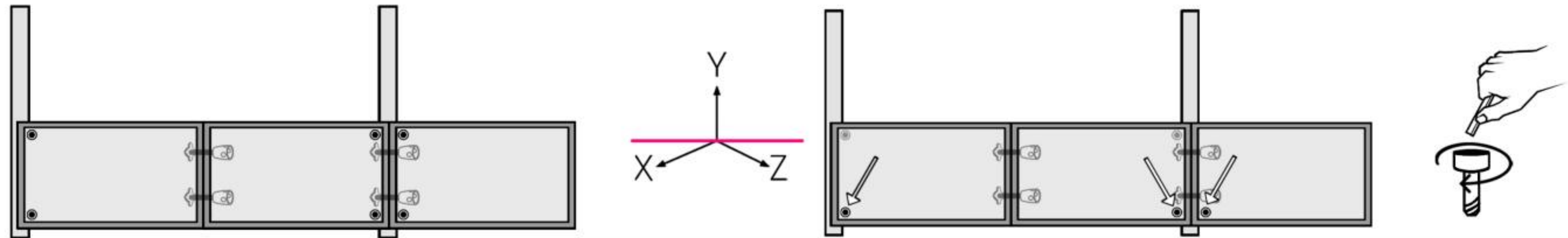
5.2.2

- Use a **rotating laser** to check that all LED panels are aligned both horizontally and vertically.
- Correct any deviations by shimming or tightening the LED panels.
- Ensure that the first row of LED panels is **meticulously aligned**.



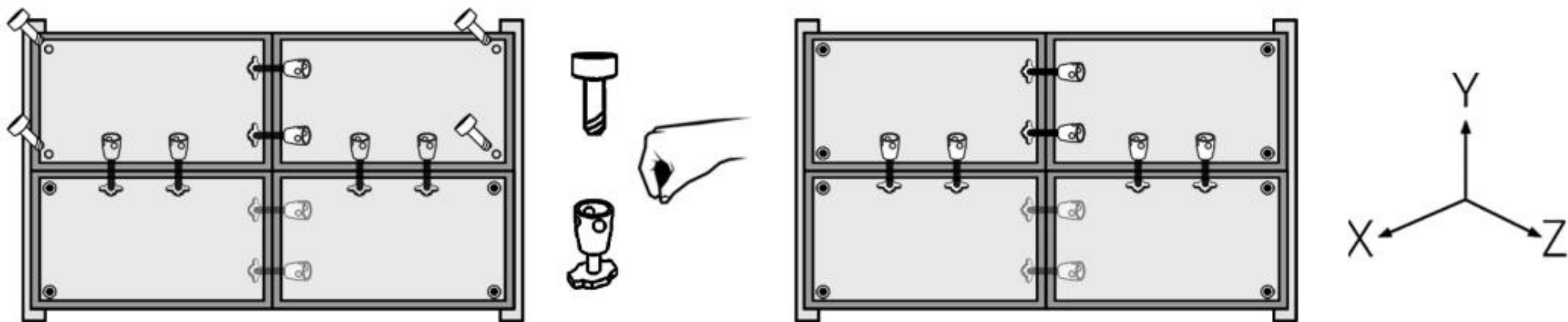
5.2.3

- Secure the **lower fastening screws** of the first LED panel row **tightly** to the substructure using a hex key, while keeping the **upper fastening screws** of the first LED panel row **loosely tightened** for now.
- Repeat the process for the entire bottom LED panel row, **continuously checking** for straight alignment with a **rotating laser**."



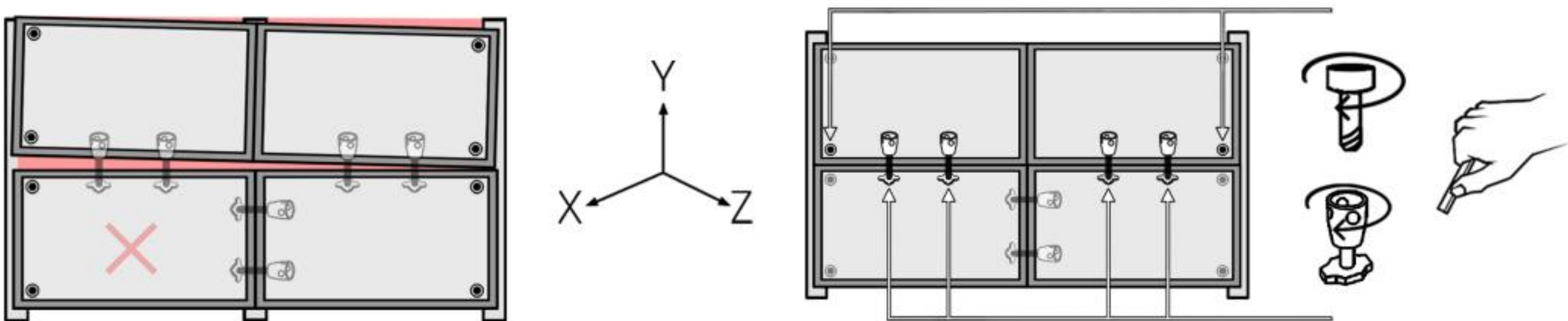
5.3.1

- Begin the installation of the second LED panel row and subsequent rows in the **center for wider walls** (more than 5 LED panels wide). For **shorter walls** (up to 5 LED panels wide), start from one **side** (refer to the **cable diagram** for the specific locations and types of LED panels to be installed).
- Securely connect the LED panels to each other at all fastening points using the quick-lock mechanisms, as well as to the substructure.



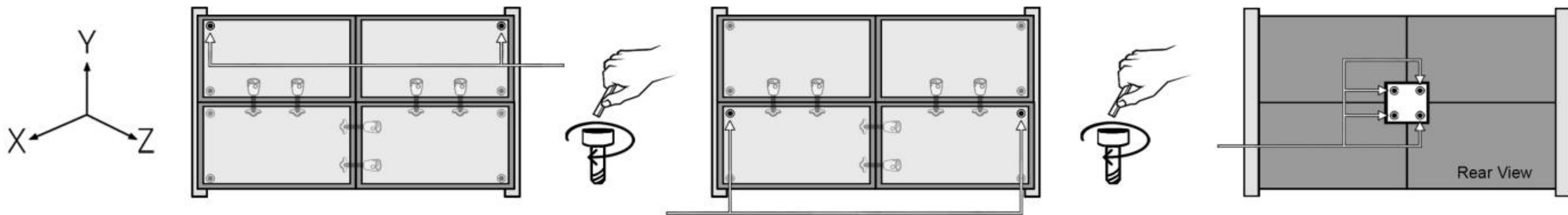
5.3.2

- After alignment, **securely tighten** all quick-lock mechanisms and the **lower fastening screws** of the **upper LED panel row** between the substructure and the LED panels using a hex key.

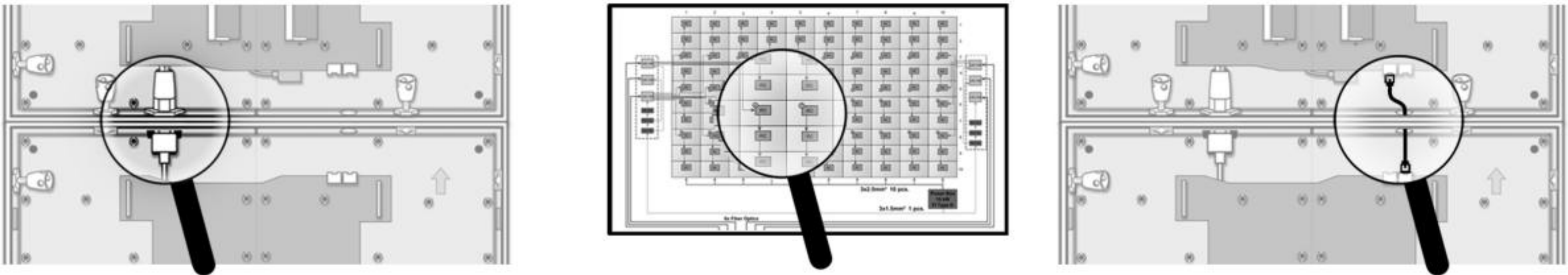


5.3.3

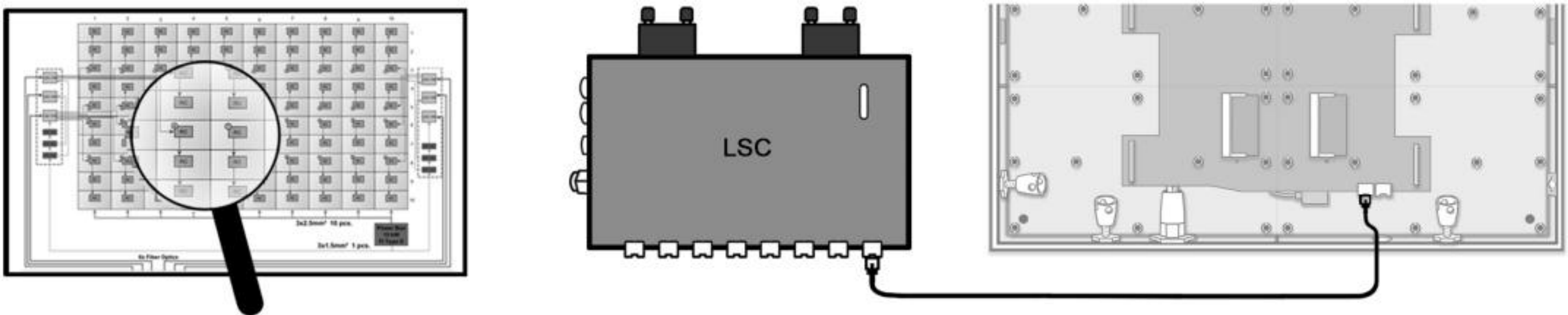
- Correctly align the **upper LED panel row** and securely **tighten the upper fastening screws** with a hex key.
- Only then tighten** the **upper fastening screws** between the substructure and the LED panels of the **lower LED panel row** with a hex key.
- Depending on the model, connect the LED panels at the contact points where they meet, either from the front or back, using the **connection plates**.



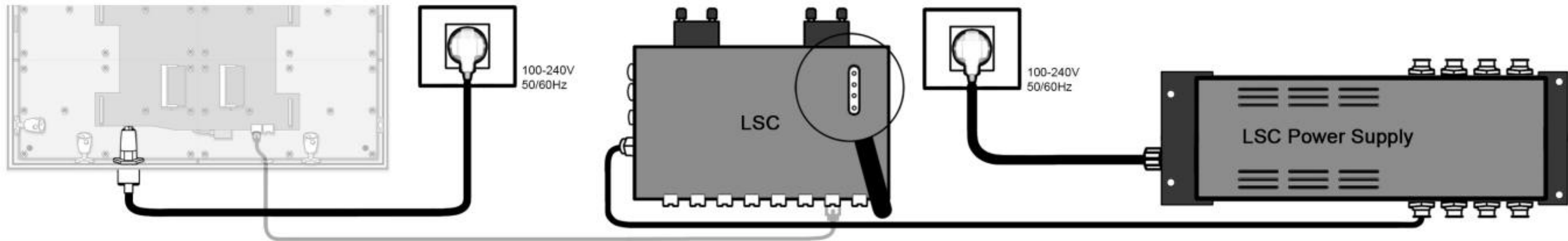
- 6.1.1
- Connect all vertical power connections between the adjoining LED panels.
 - Connect the **signal connections** (RJ45 network cables) according to the **cable diagram**.



- 6.1.2
- Secure the LSCs and LSC power supplies in their designated locations.
 - Connect the **network cables** (RJ45) between the **signal outputs** (RJ45) of the LSCs and the **corresponding LED panels** according to the **cable diagram**.

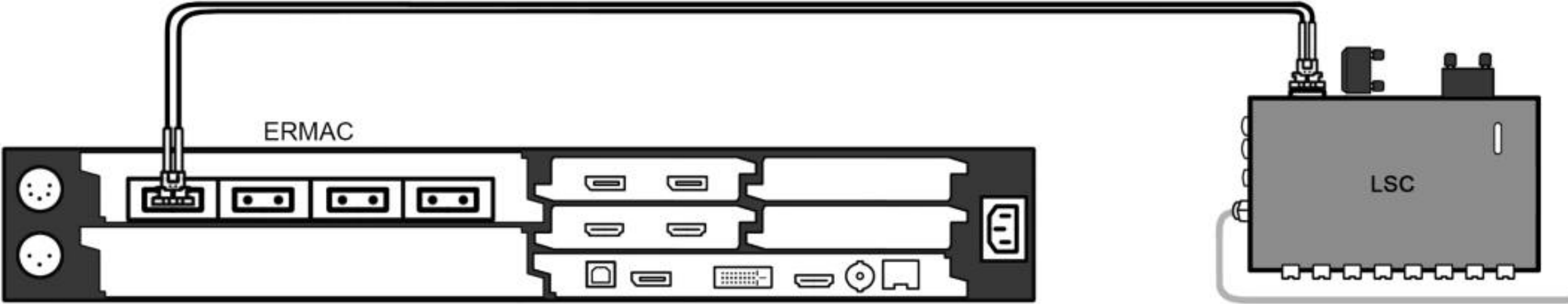
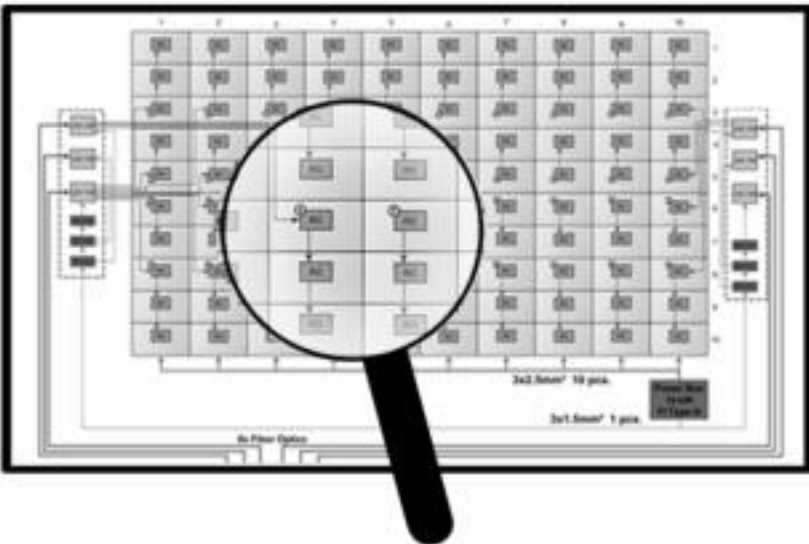


- 6.1.3
- Connect the **power supply cables** (100-240V 50/60Hz) to the **Type A LED panels**.
 - Connect the **power cable** (12V) of the LSCs to the **LSC power supplies**.
 - Temporarily power the LED video wall to check if all LED panels are receiving power from the LSCs (LEDs on the LSCs and receiving cards should blink)."



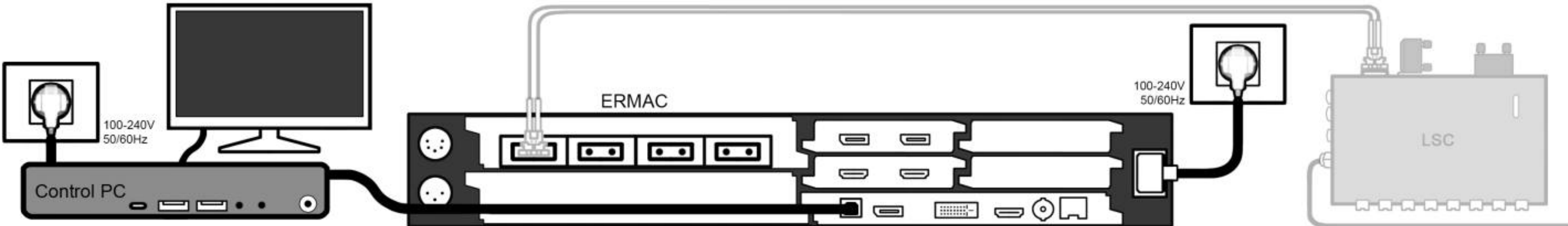
6.2.1

- Install the ERMAC control unit in the rack or temporarily connect it in front of the video wall.
- Connect the **ERMAC control unit** to the **LSCs** (fiber optic cable/network cable RJ45) according to the **cable diagram**."



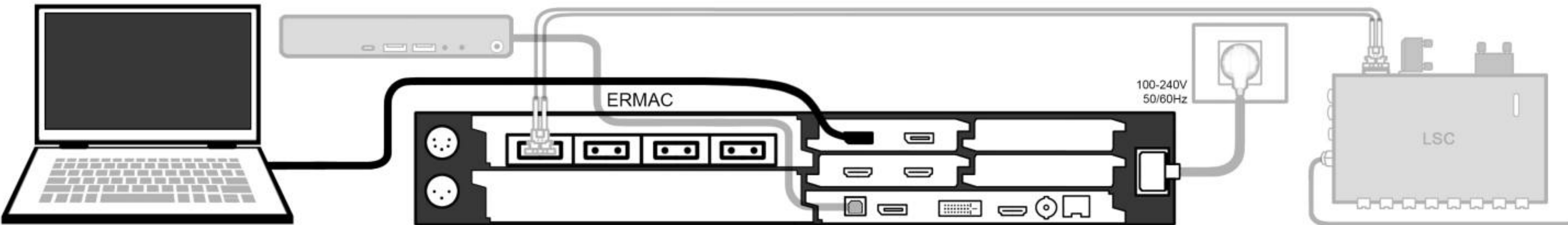
6.2.2

- Connect the **ERMAC control unit** to the **power supply** (100-240V 50/60Hz).
- Connect the **control PC** to the **power supply** (100-240V 50/60Hz) and attach a **monitor**.
- Connect the **control PC** to the **ERMAC control unit** (USB-B) (The ERMAC control software will now start automatically)."



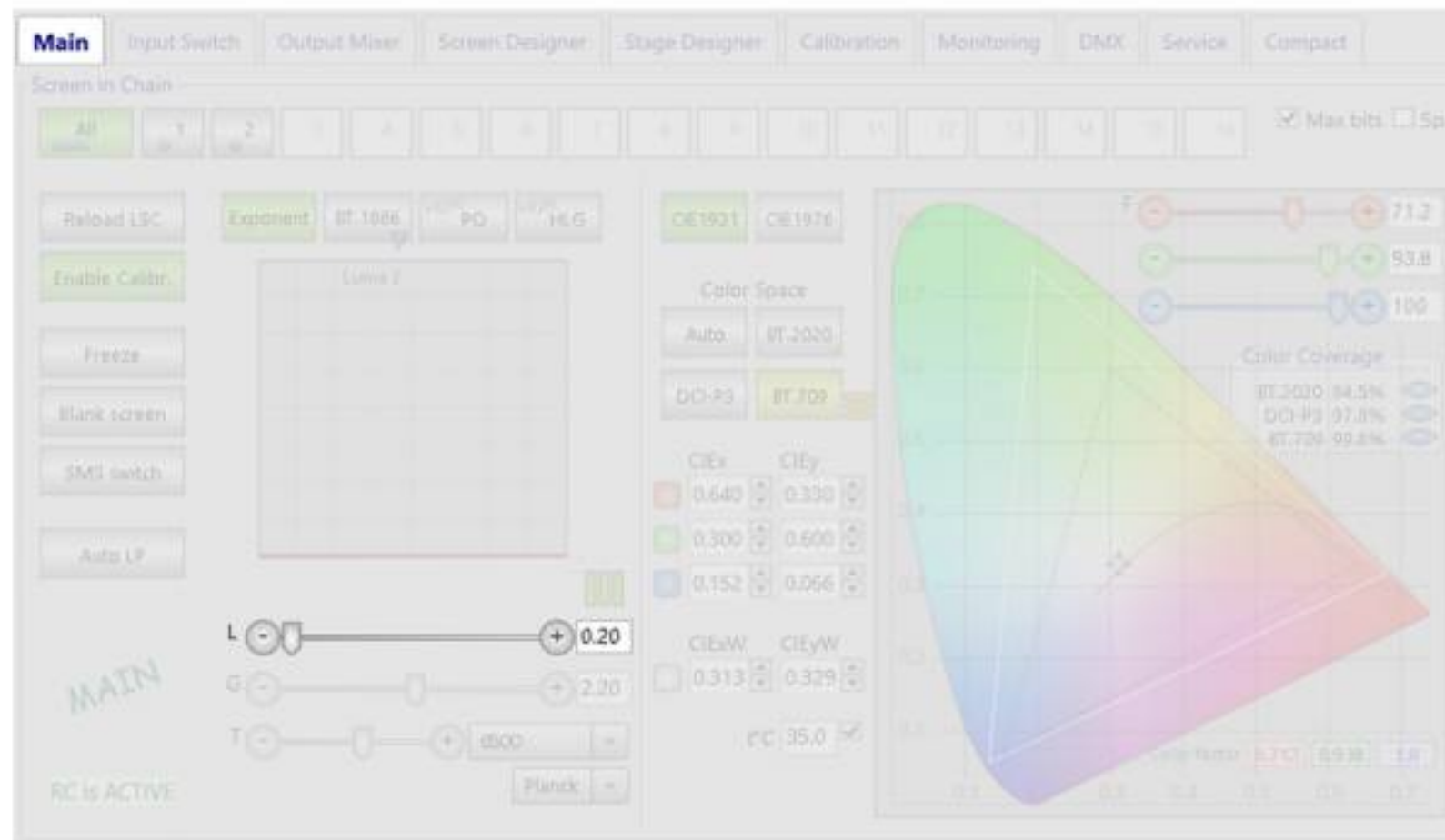
6.2.2

- Connect an **output device** to one of the **input signal cards** (DP 1.4 / HDMI 2.0b incl. Loop Out) (for example, a laptop).



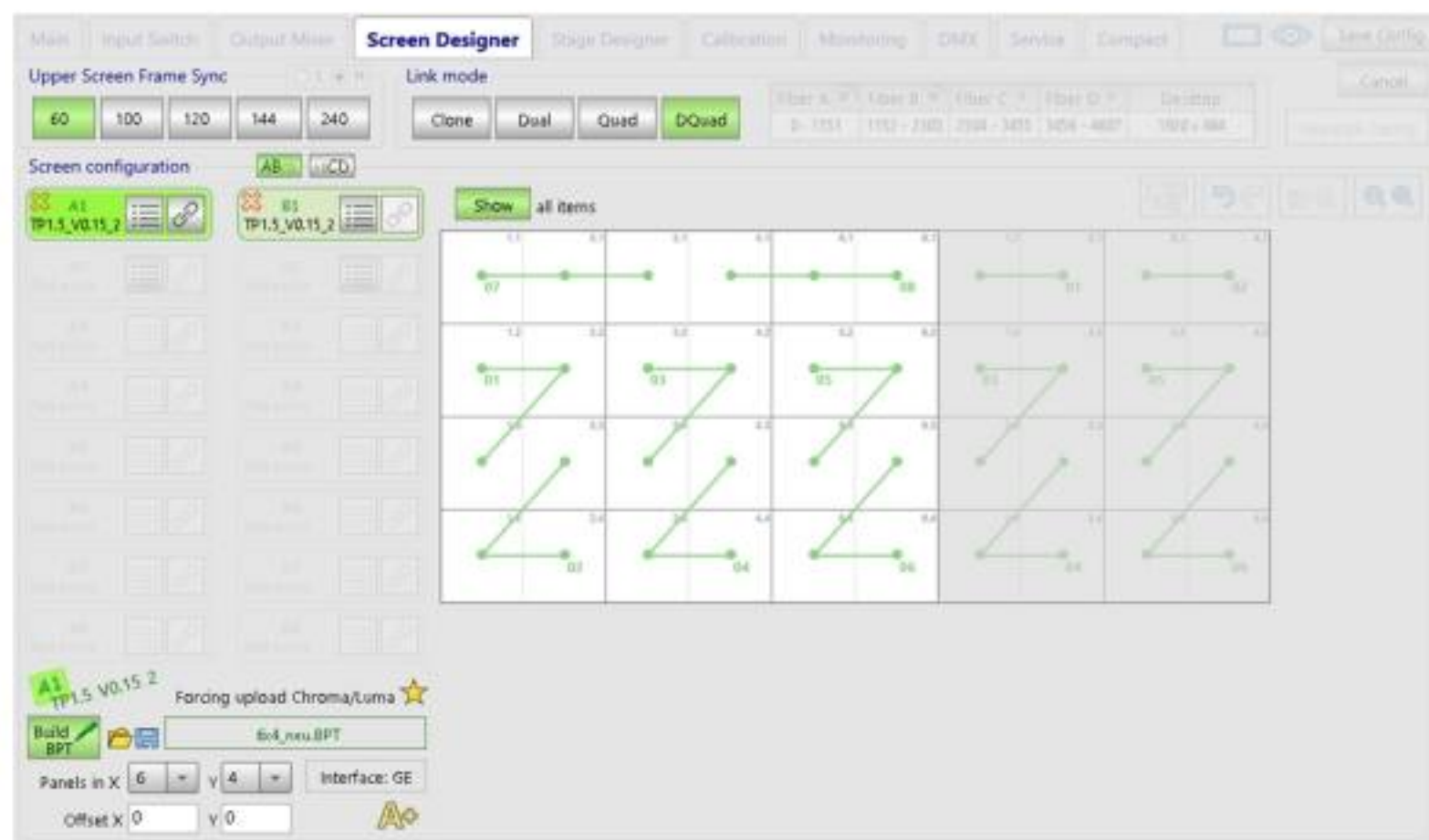
7.1

- Set the **brightness** of the LED video wall to **0.2%** in the **Main Tab** of the ERMAC Screen Console.
- Set **WIN1-Win4** to **Hide** in the **Output Mixer Tab** of the ERMAC Screen Console.
- Ensure that **Color Desktop** is selected in the **Output Mixer Tab** and that the **R/G/B values** are set to **1023**.



7.2

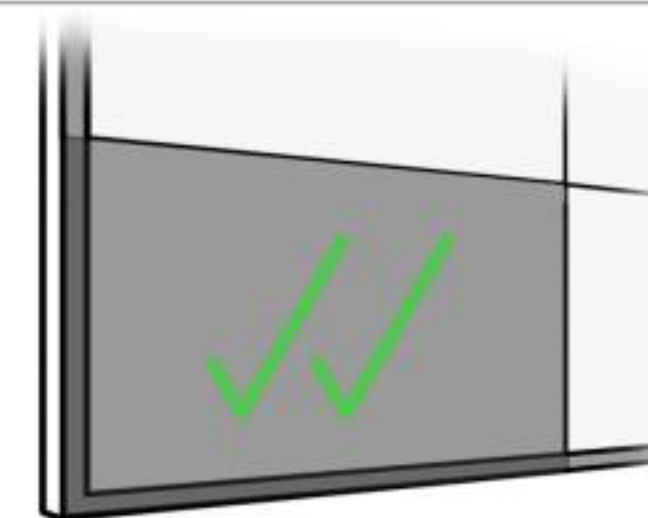
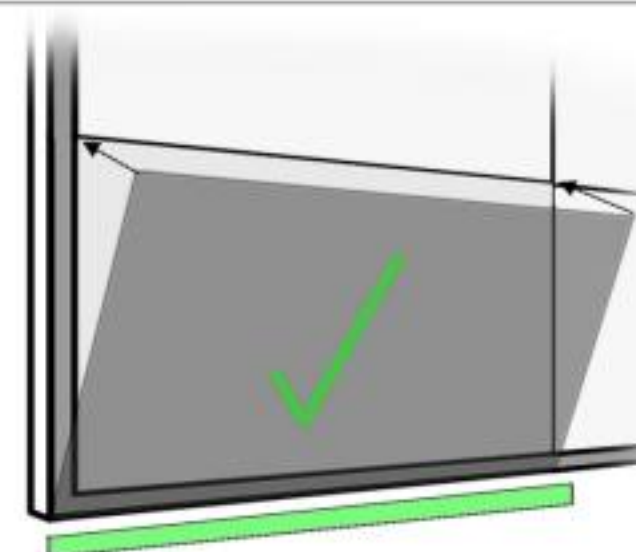
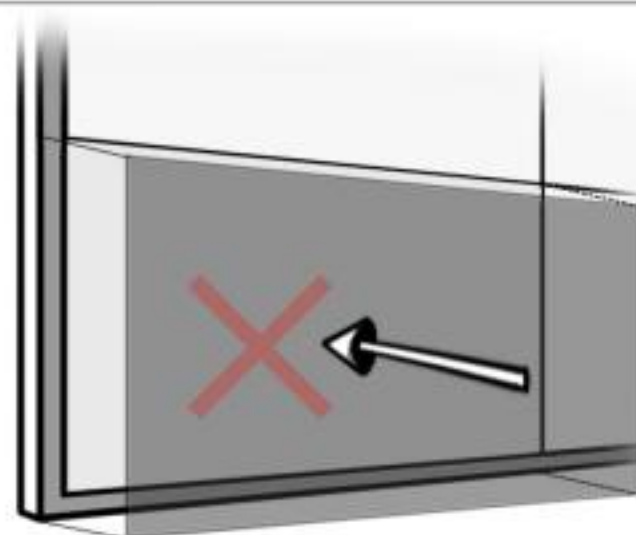
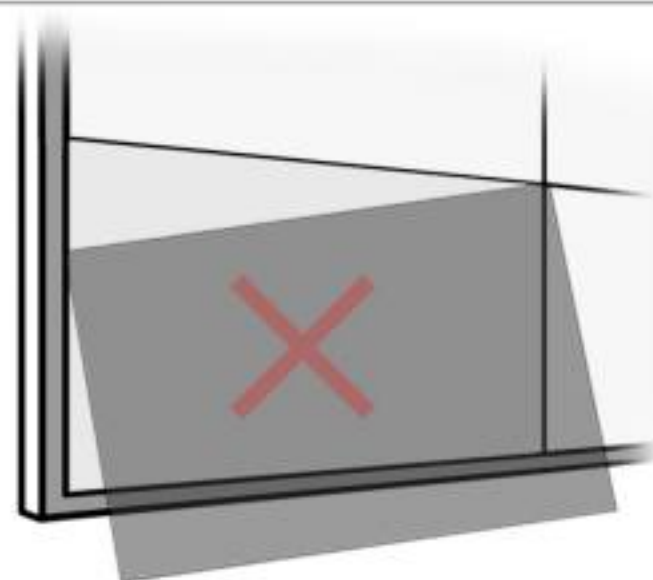
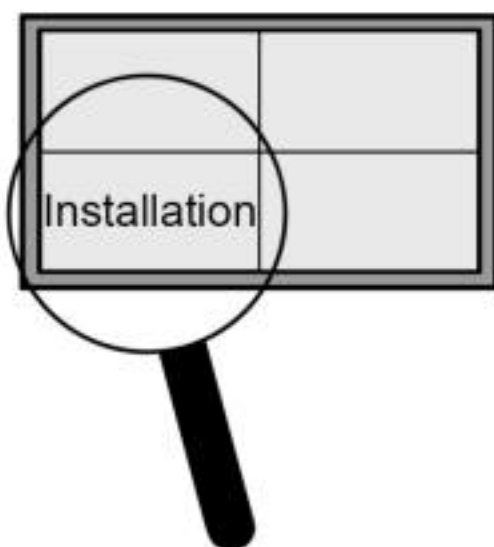
- Load the corresponding **.BPT** file of the project in the **Screen Designer Tab** of the ERMAC Screen Console, or manually create the wiring according to the **cable diagram**.
- In the **ERMAC Monitoring Software**, check that all receiving cards are recognized and functioning (**indicated by green**).
- This process facilitates checking the correct alignment of the Z-axis and the function of the clusters during installation (Step 8).



Monitoring View: # RC READ Write Log SPU-XX 0 1 2 3 4 5 6 7 1F11 SNMP X EKTA									
	1	2	3	4	5	6	7	8	9
1	593	620	622	616	205	484	472	1749	562
2	293	569	561	582	1577	1596	521	617	1950
3	1988	1791	585	587	900	815	584	610	601
4	566	1879	571	594	563	343	580	547	618

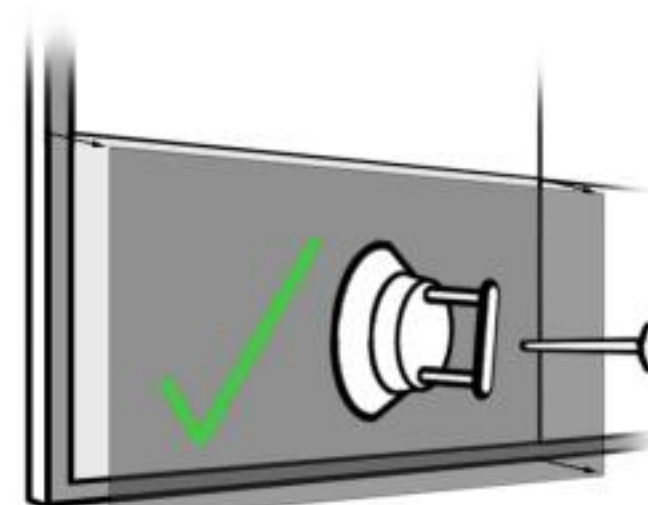
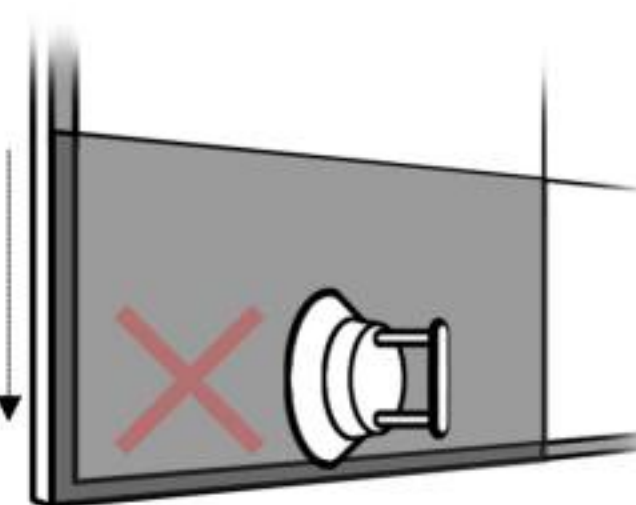
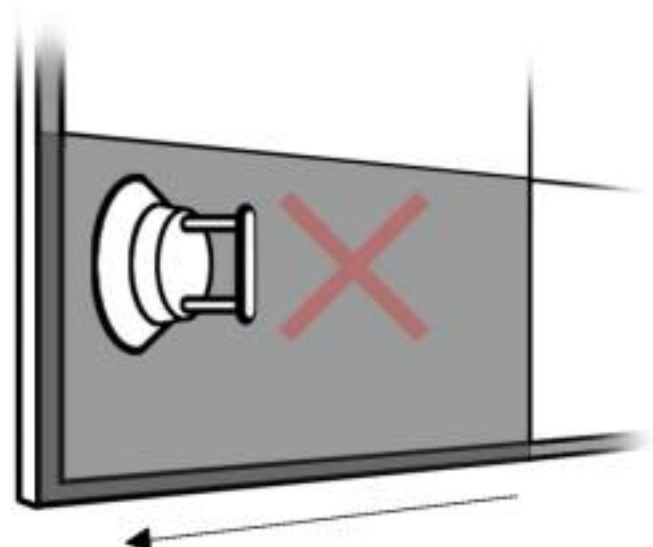
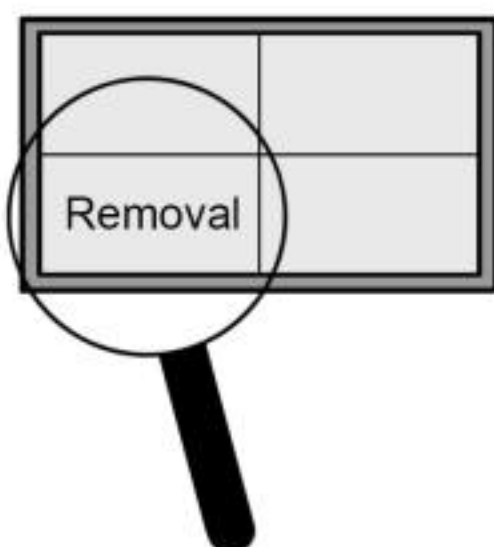
8.1

- Start in the lower left corner of the LED video wall to install the LED clusters into the LED panels.
- Position the LED cluster at the **bottom edge** of the LED panel and gently **tilt** it to the **top edge** to establish a complete connection.



8.1

- Always remove the LED clusters using the **front service tool**.
- Ensure that the front service tool is **centered** when removing.
- Pull the LED cluster **straight** out of the LED panel.



8.1

- Visually and physically check that the LED clusters are flush with each other.
- If necessary, **adjust** the magnets using the **magnet key** by removing the LED clusters and loosening or tightening the magnets.
- Continue this process until each LED panel of the LED video wall is equipped with LED clusters.

