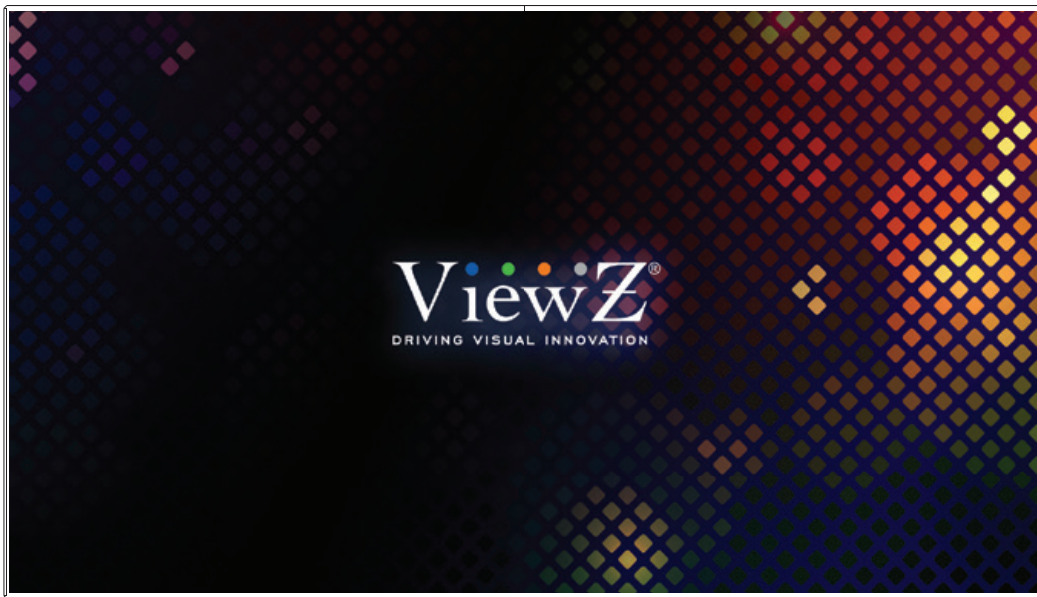


VZ-UNBS/ENB/EHB/SNB/SHB SERIES

Installation & Handling Guide

LED CCTV VIDEO WALL MONITOR



ViewZ®
www.viewzusa.com

ViewZ Strongly recommend all customers comply with this installation & handling guide for all ViewZ videowall monitors (UNBS, ENB, EHB, SNB & SHB).

Please read this manual thoroughly before use, and keep it handy for future reference.

CONTENTS

Monitor Structure 3

Panel Handling Precaution 4

Videowall Monitor Installation Precautions 13

Monitor Structure

Beware of Monitor Structure

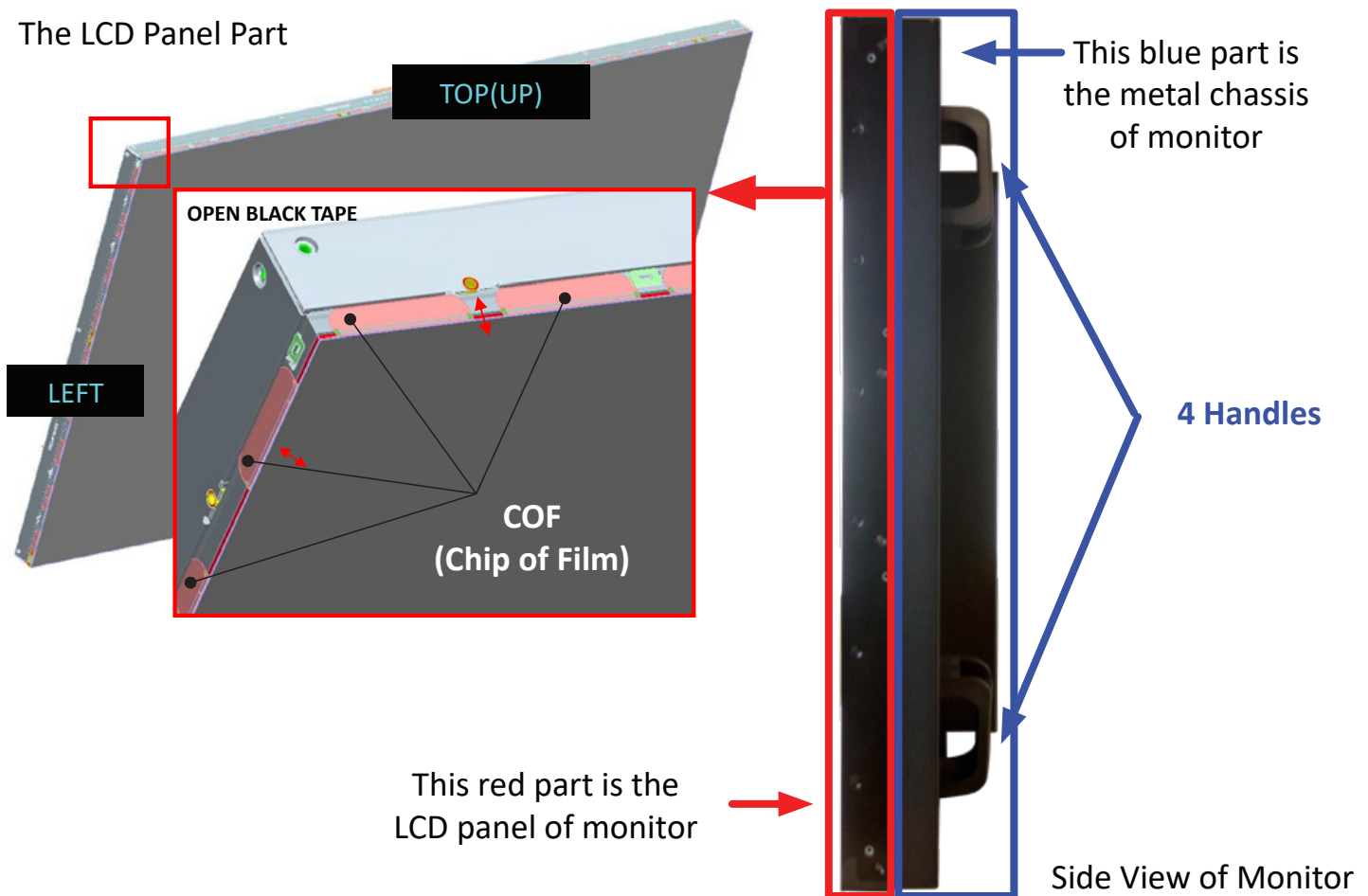


Warning

Before installation of videowall monitors, ViewZ wants installer to understand about the structural weak points of videowall monitors. After reading & understanding about the structure a videowall monitor, then user can easily install the videowall without any damage.

Since there is no cover for panel part, the 4 edges of the Panel (Glass) are exposed. Therefore, there is a risk of damage from external impact. During operation, special attention must be paid to avoid impact on the 4 corner outside of the Panel.

The LCD Panel Part



Note

ViewZ strongly request that customer always hold videowall monitors by metal chassis part or by the 4 handles on the rear

Panel Handling Precautions

Beware of Panel Damage

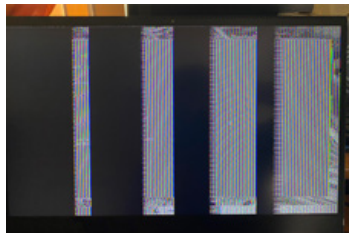


Warning

Before shipment of videowall monitors (UNBS, ENB, EHB, SNB & SHB) from ViewZ, our QC team always pretest each monitor and qualify product specification. Since the structure of UNBS, SNB, SHB, ENB & EHB model is very sensitive, applying strong pressure to the area when the COF is located may cause I.C. damages.

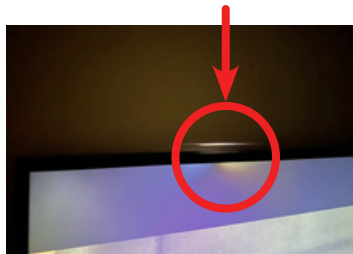
When installing UNBS, ENB, EHB, SNB & SHB monitors be sure to check the COF location and take care of ensuring that the area is not pressured or impact.

Panel Damage Example



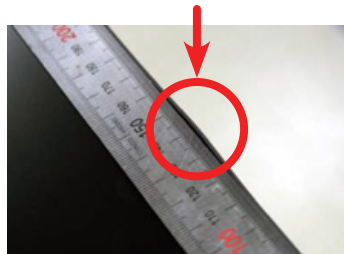
Line/Block Defect

Light Leakage



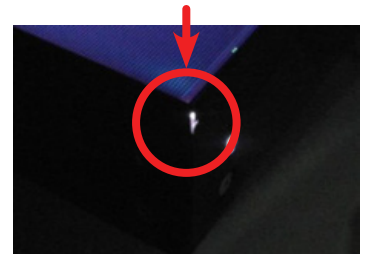
Panel Breakage

T/C Transformation



Top-Chassis Variants

Light Leakage



Tear Tape Burden

Panel Handling Precautions

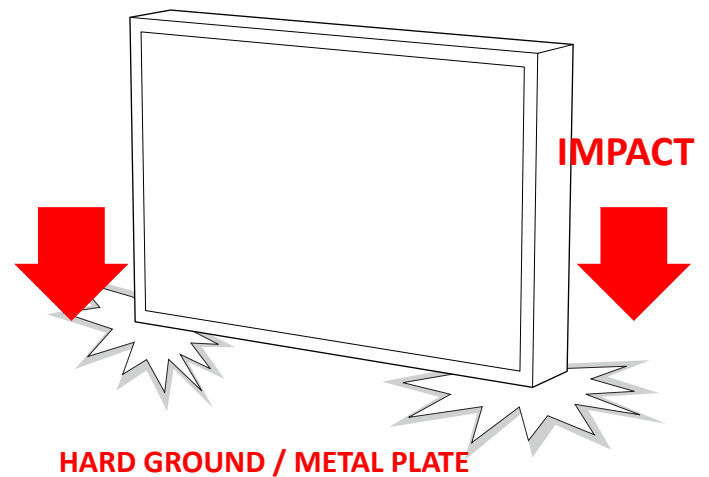
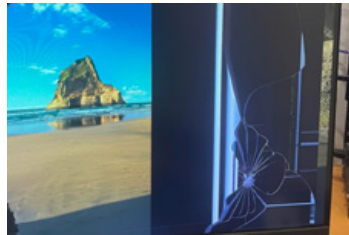
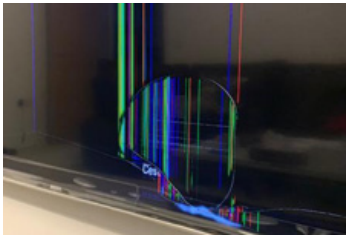
Caution



Warning

Monitor defects such as broken glass, defects and top chassis damage may occur due to external impact or vibration during handling the UNBS, ENB, EHB, SNB & SHB monitor.

Do not place the monitor on the ground or table, without safe pad.



Panel Handling Precautions

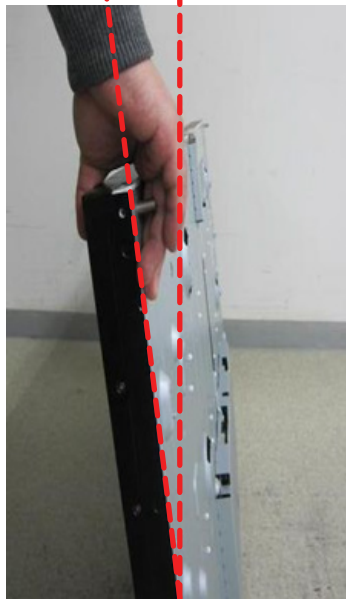
Panel Handling Caution - Tilt



Warning

When customer preserve the tilted UNBS, ENB, EHB, SNB & SHB monitor, it may cause the panel broken, T/C deformation or panel (cell) dislocation. The standable angle degree is less than 10°.

10°



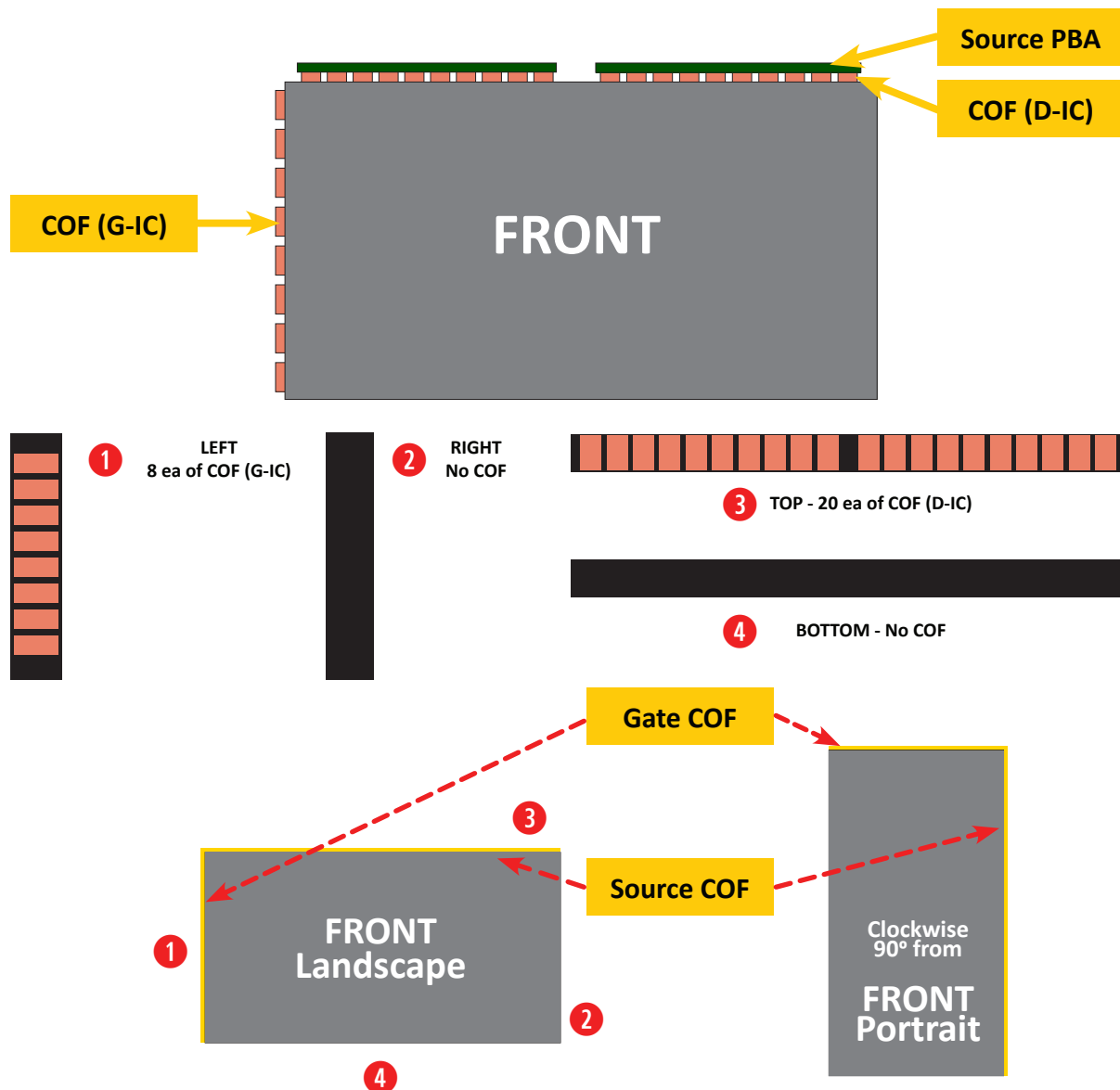
Panel Handling Precautions

Panel Structure - COF Location & Land / Port

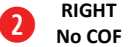


Note

- Source COF is installed at the top of monitor and Gate COF is also installed at the left of monitor.
- The monitor structure of ViewZ's UNBS, ENB, EHB, SNB & SHB is really sensitive and fragile. It means these COFs can be easily damaged by external shock or vibration and it also causes the damage of IC chip.
- Because of this structure, customer should be careful to install videowall monitors or a monitor, to prevent the damage.



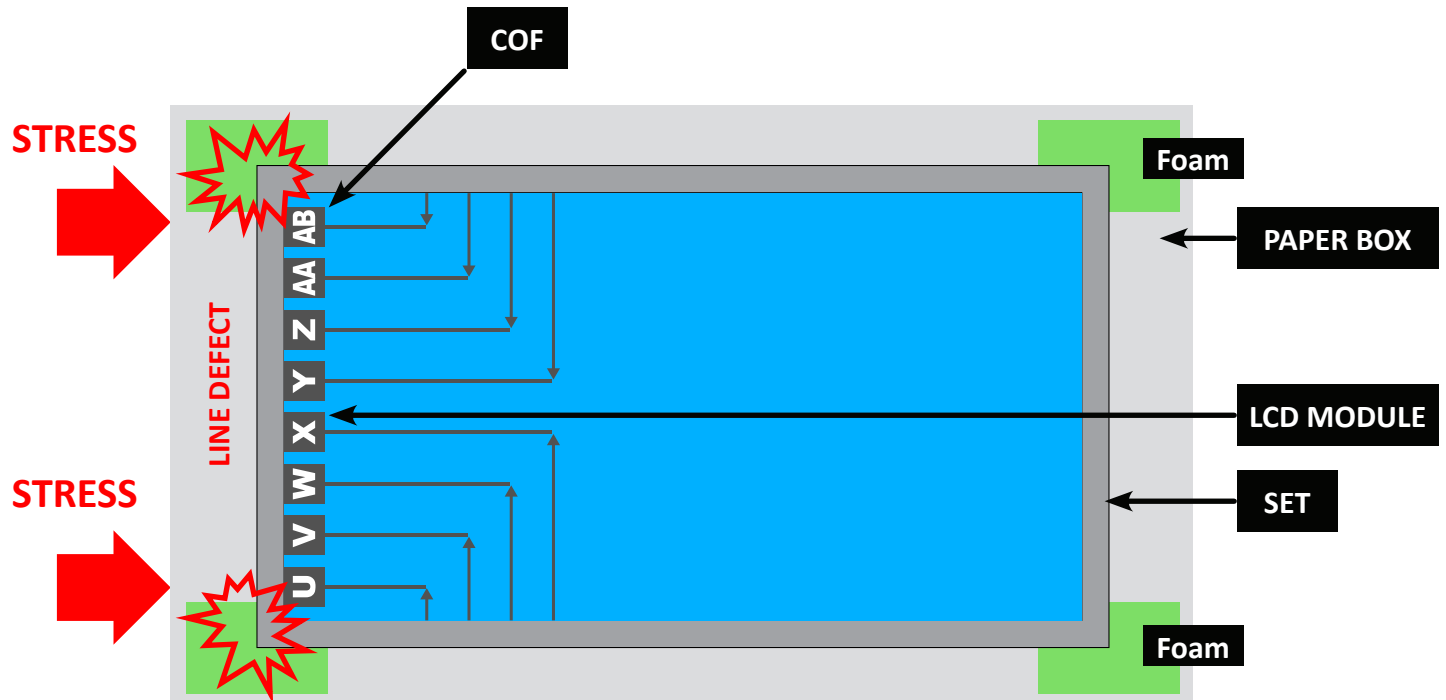
Panel Structure - The Location of Source Drive IC



NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
Value(mm)	30.24	90.72	151.2	211.68	272.16	332.64	393.12	453.6	514.08	574.56	635.04	695.52	756	816.48	876.96	937.44	997.92	1058.4	1118.88	1179.36

Panel Handling Precautions

Panel Structure - The Location of Source Drive IC



The Location of COF Center based on the Standard of Active Line

NO.	U	V	W	X	Y	Z	AA	AB
Value(mm)	36.93	122.61	208.29	293.97	299.88	214.2	128.52	42.84

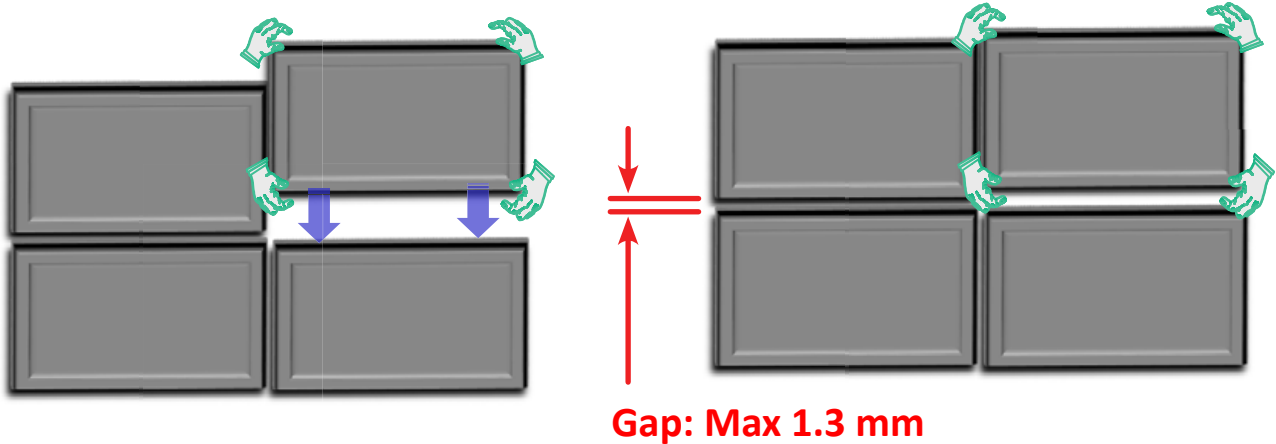
Panel Handling Precautions

Monitor (Panel) Stacking Caution



Keep a distance between 1mm bezel

- The module may expand in high temperature conditions. It means if you install videowall monitors without enough gap, these monitors can damage to Driver-IC / Gate-IC of monitors
- ViewZ suggest the installer make about 1mm gap based on customer's circumstances, when videowall monitors installed. But, this suggestion should be clarified by videowall structure design, heat ventilation and etc.



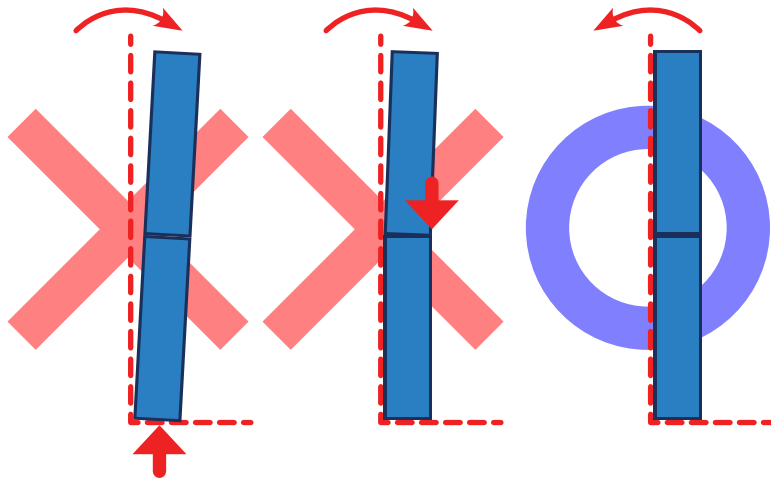
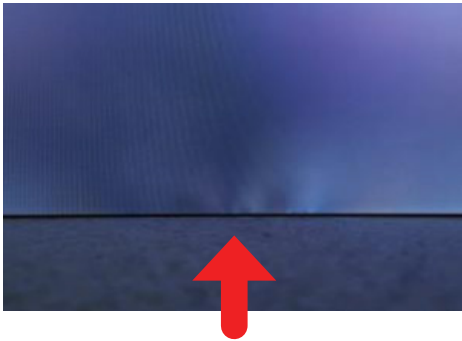
Panel Handling Precautions

Handling Panel Caution - Impact to Panel Top



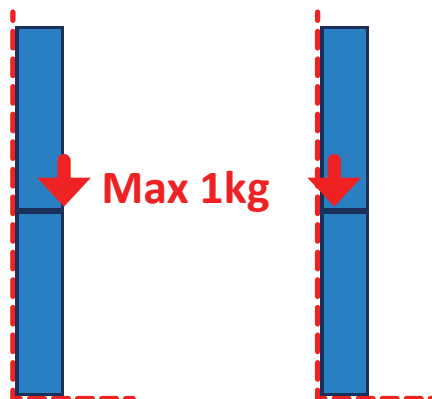
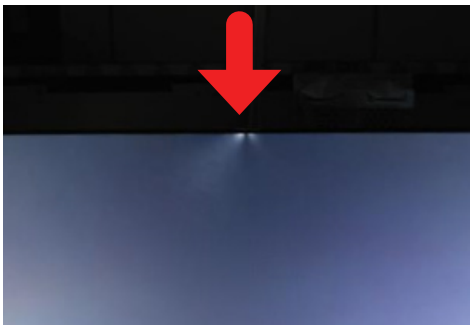
Caution

- Don't tilt the panel down. Tilting panel causes light leakage because of the pressure of the upper and lower side of the panel. If those symptoms appear, make sure the angle of the module.



Caution

- Split specific point of panel with 1kg of the partial. If the light leakage occurs, make sure that the load is concentrated on the front panel module. In this case, user can use spacer or adjust the angle of panel.



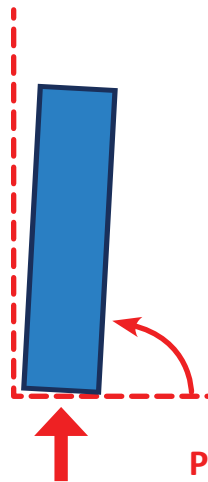
Panel Handling Precautions

Handling Panel Caution - Impact to Panel Bottom



Active Bottom

- Light leakage may occur when the panel is inclined to the front
- Make sure that the bottom panel is made up of the 90 degree



Pressure on Glass

Panel Handling Precautions

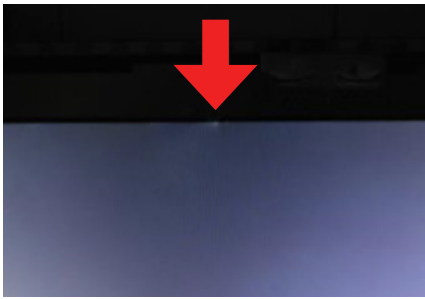
Handling Panel Caution - Maximum Pressure to Panel



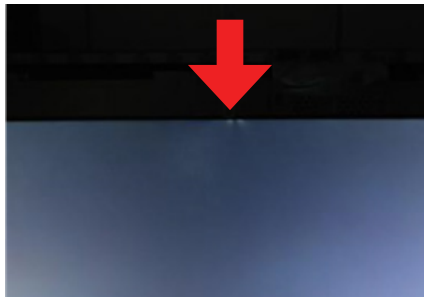
Active Top

- The heavy weight or pressure causes light leakage
- Warning that applying pressure more than 1kg on the part of less than 15mm causes light leakage as you see the below picture

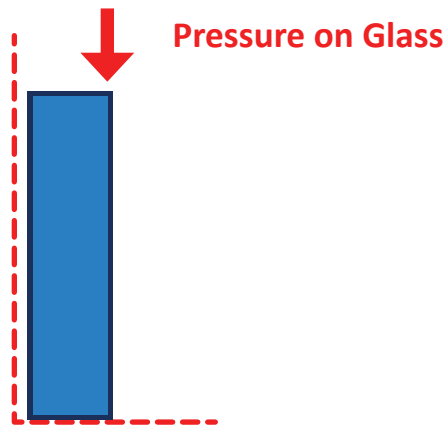
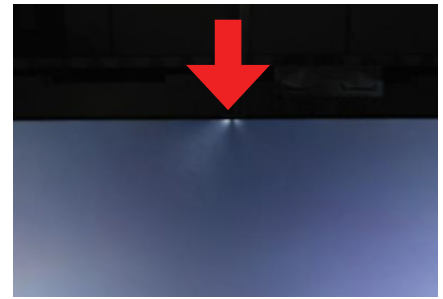
1 kg



2 kg



3 kg

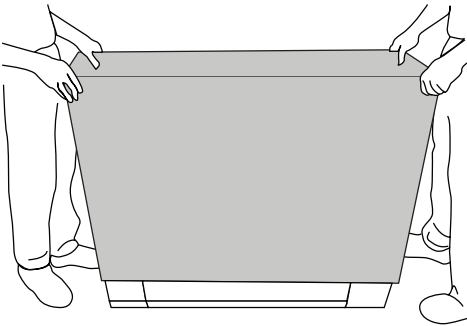


Installation Precautions

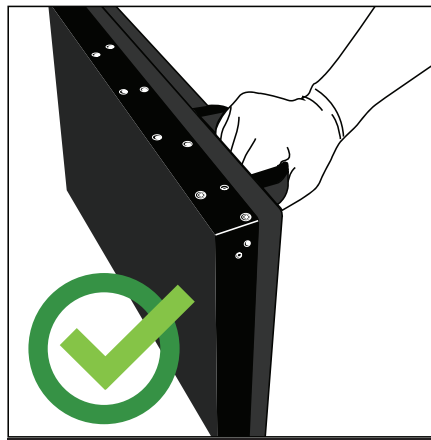
Open & Handling Monitor

Caution

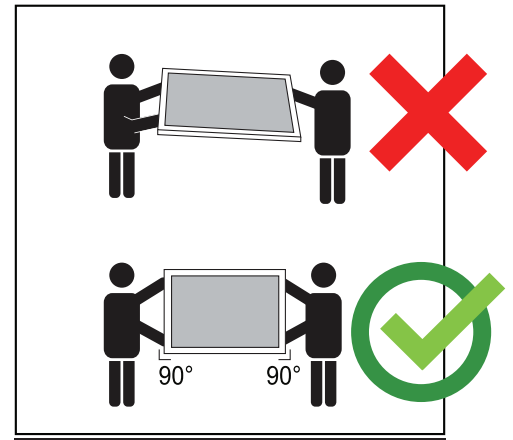
1. Open the box - please follow the 'Open box guide' at the top of monitor box
2. Use the handle to pull out the monitor. Do not grab or touch the front bezel.
3. At least 2 people are required to mount or move the monitor. When carrying the monitor, make sure not to carry it in the slanted position.



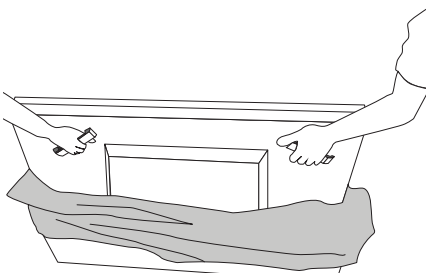
STEP 1



STEP 2



STEP 3

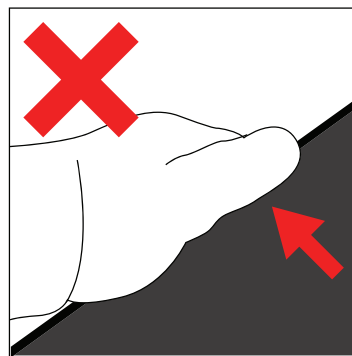
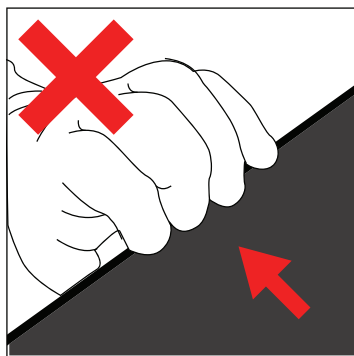
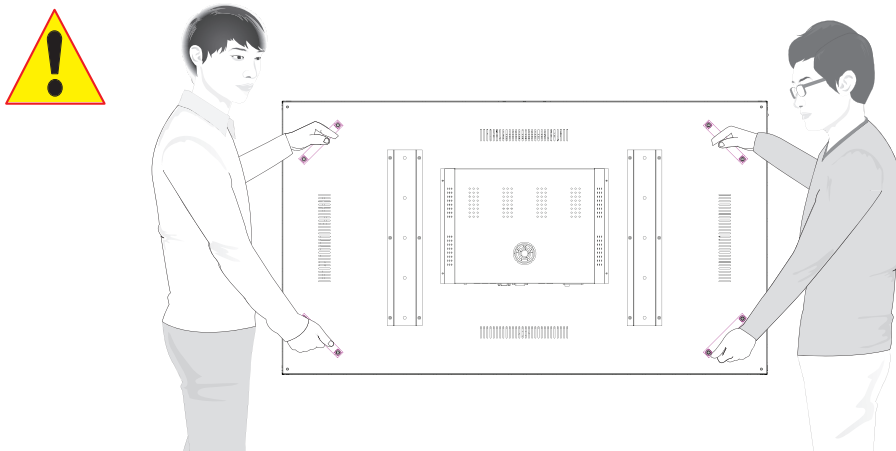


Installation Precautions

Move & Handling Monitor

Caution

- Make sure more than one person carrying monitor.
- Make sure not to grab the front bezel in any case. It cause serious panel damage.

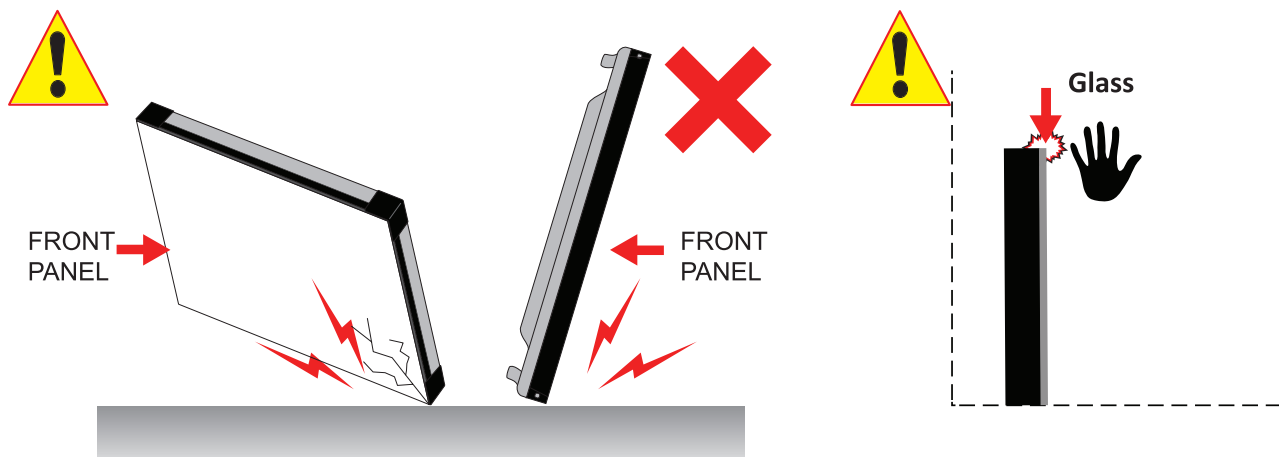


Installation Precautions

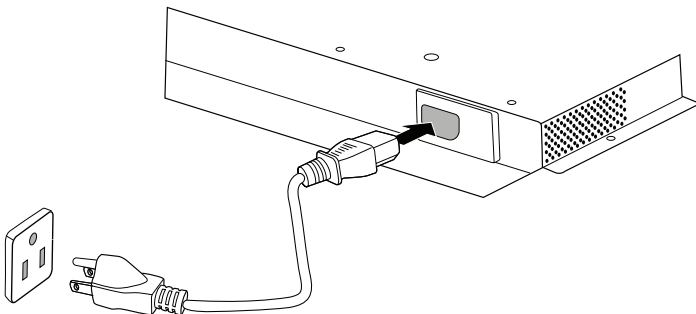
Handling Monitor

Caution

- Do not drop or hit the edge of the monitor.
- Do not place any heavy material on the top of monitor.
- Do not push the top of front panel by hand.



Power / Light Leak Check Up

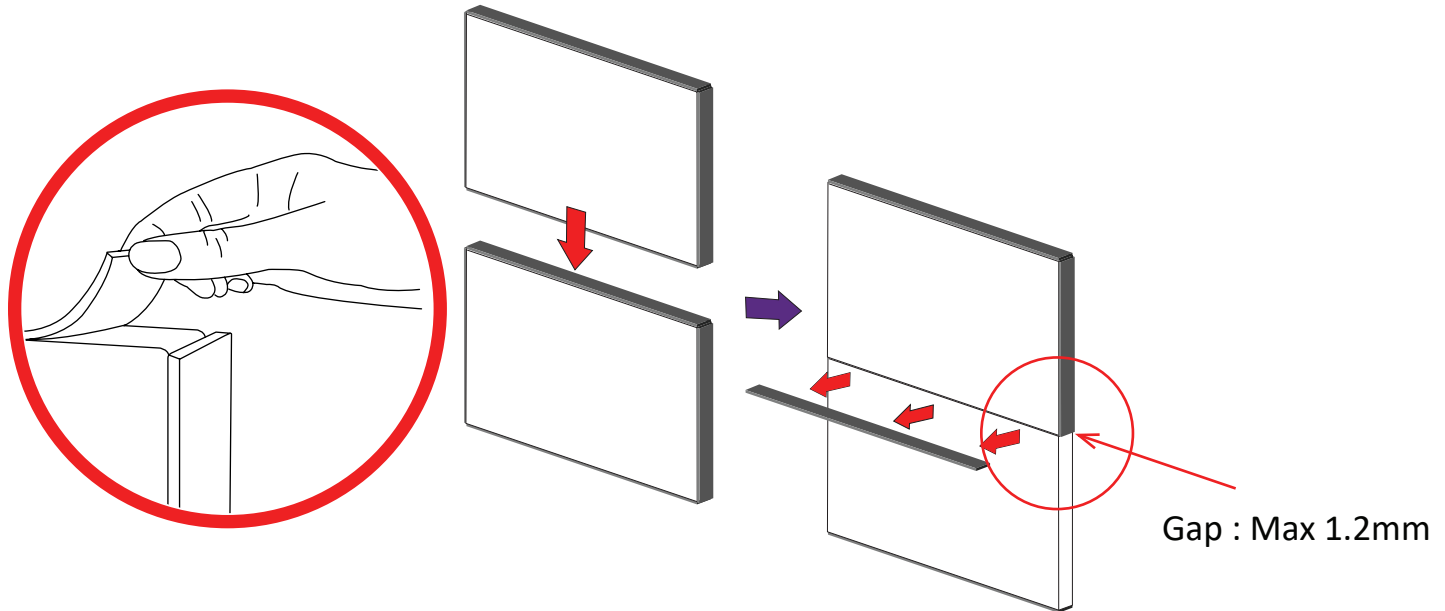


Caution

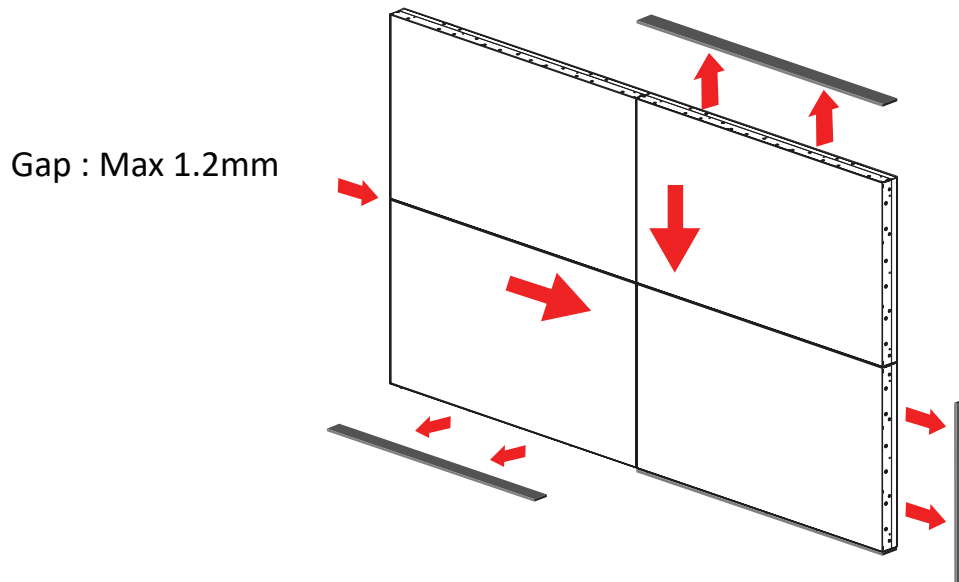
- Before installation, please connect power to the monitor and confirm the monitor is working correctly.

Installation Precautions

Installing Videowall Monitors



Make sure to check the protection pads as shown above before installing the monitors. **Prior to installation, remove the protection pads.** Keep the removed protection pads to use them later as necessary.



Avoid impact to the edge of monitor during installation to avoid damage to the monitor. When installing the mounting brackets on the back of the monitor, make sure it sits on a soft surface. The ViewZ narrow bezel monitor is **very fragile and requires special attention**.

Installation Precautions

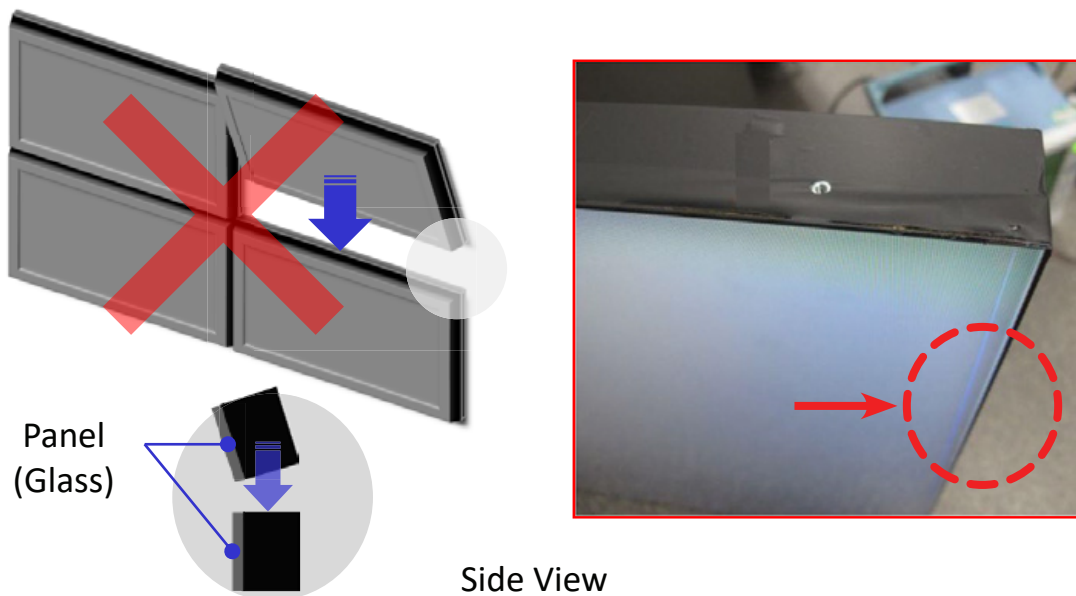
Drop Impact Protection

If a monitor falls and impacts during installation, monitor panel damage and screen defects may occur.



Risk Analysis

- If a monitor falls and impacts during installation, panel damage or COF damage may occur, leading to display abnormalities (such as line defects)
- Therefore, installer should take care of avoiding impact when installing the monitor of upper level



Work Guidelines

- Work in pairs (2 people) for transportation and installation
- When placing the upper unit, be careful to avoid impact on any side
- Impact damage to the COF of the lower unit can cause screen defects (Line Defect) when lit



Installation Precautions

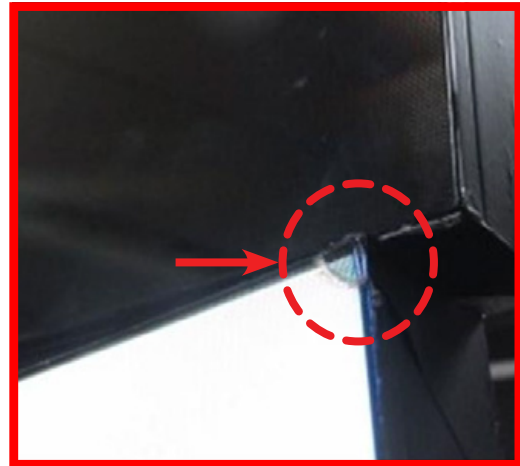
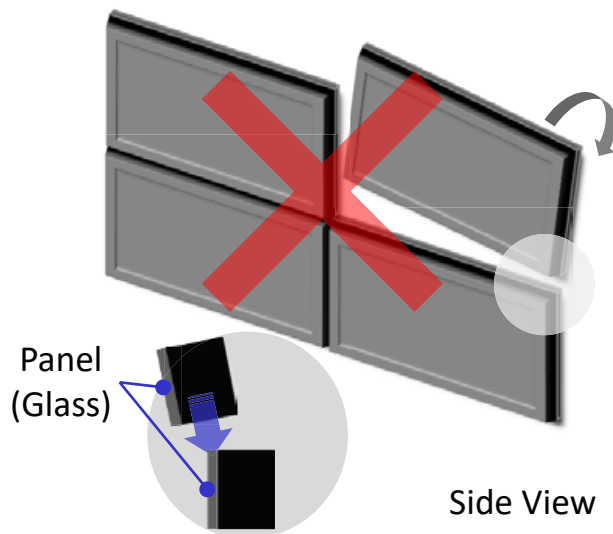
Corner Impact Protection

During Video Wall installation, if corner areas are impacted, Panel damage may occur.



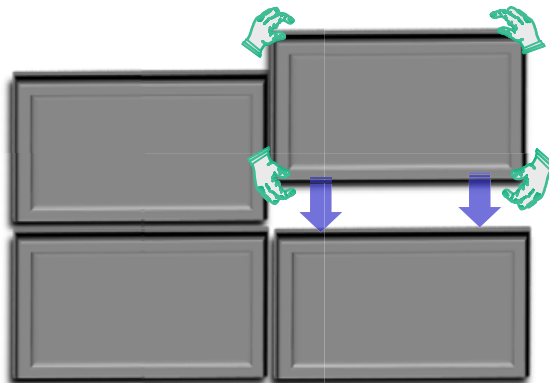
Risk Analysis

- When monitor corner areas are impacted during installation, panel damage may occur
- Therefore, when installing the upper unit, the unit must be kept vertical and placed parallel
- No external force other than the unit's own weight should be applied to the lower unit



Work Guidelines

- Work in pairs (2 people) for transportation and installation
- Maintain parallel placement
- Corner damage may occur to upper or lower units



Installation Precautions

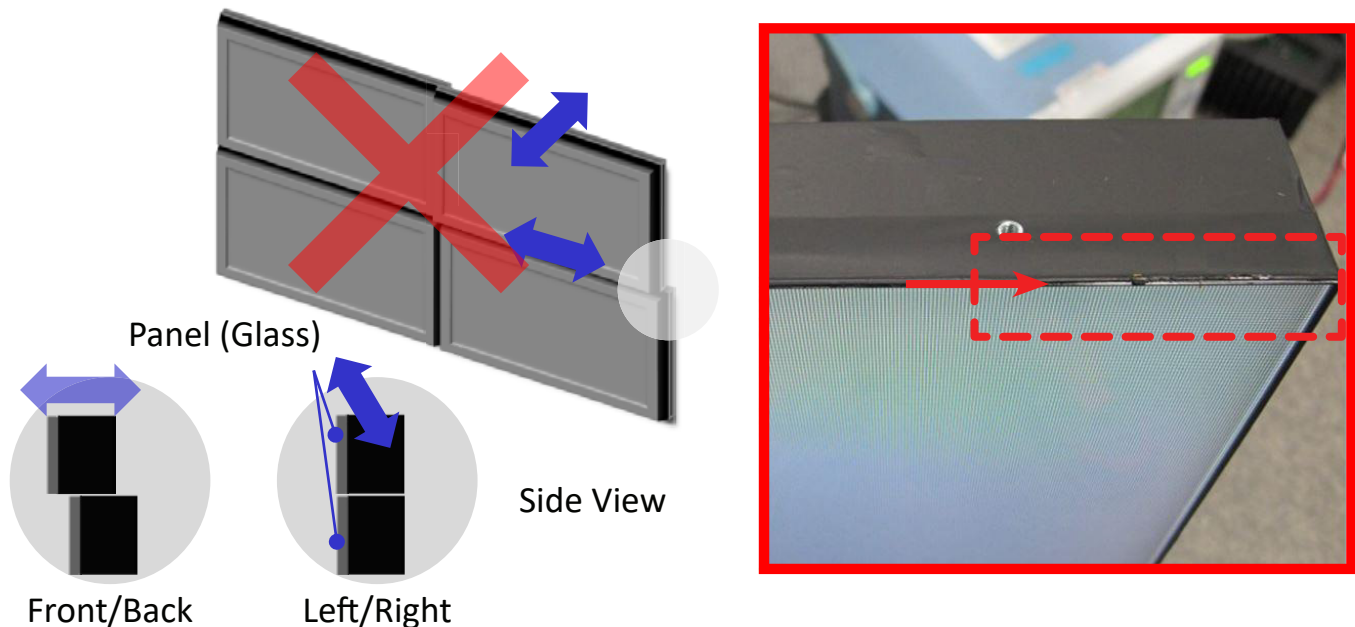
Surface Scratches/Abrasions

After Video Wall installation, scratches/abrasions may occur due to the unit's own weight when moving forward/backward and left/right to adjust level differences and gaps.



Risk Analysis

- When moving up/down or left/right to adjust gaps that occur during installation, Tape damage may occur
- First hang the unit on the rear fixing structure, then adjust the gaps that occur during installation



Work Guidelines

- After fixing to the wall mount, maintain a certain gap so that the weight of the upper unit does not affect the lower unit
- Gradually adjust level differences
- Wall mount fixing → Gap and level difference adjustment

Gap and level difference adjustment

