

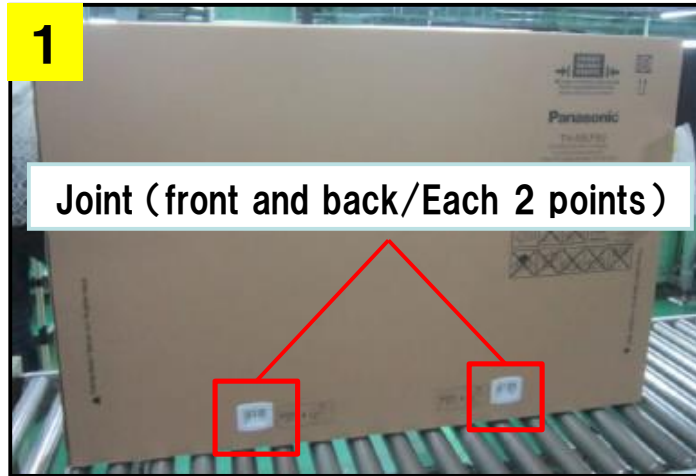
Video Wall Construction Manual



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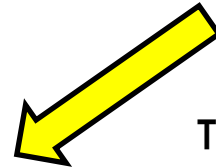
Unpacking Procedure



Remove Joint (Total 4)



Take out accessory parts and cushions



Remove upper carton case and front cushions

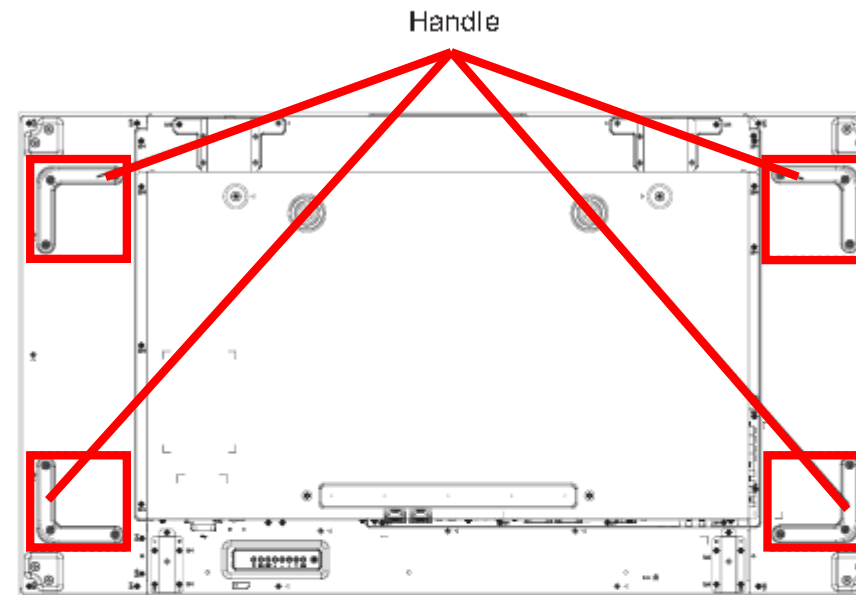
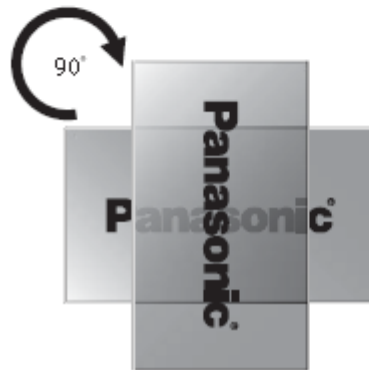


Remove a protection bag

Cautions when installing or moving

To prevent this Display from falling:

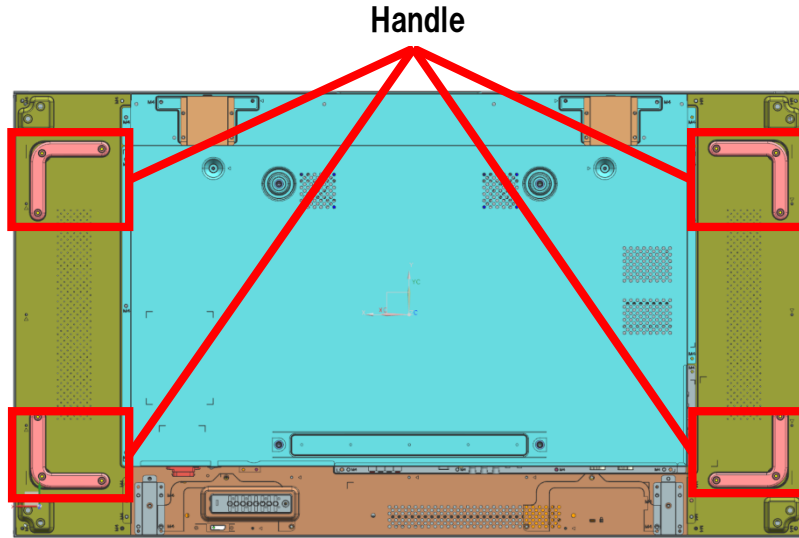
- Grab the handles when moving this Display.
- Do not touch any parts except the handles.
- Handle with care and with more than two persons when moving this Display. Keep in mind that this Display is easy to break from carelessness.
- For ceiling installation, we recommend installing this Display with metal brackets which are commercially available. For detailed installation instructions, refer to the guide received with the respective bracket.
- To lessen the probability of injury and damage resulting from fall of this Display in case of earthquake or other natural disaster, be sure to consult the bracket manufacturer for installation location.
- For portrait installation, please turn this Display right.



When you install a display by multi, please prepare for 0.5 mm between each display in the state of the power supply OFF.

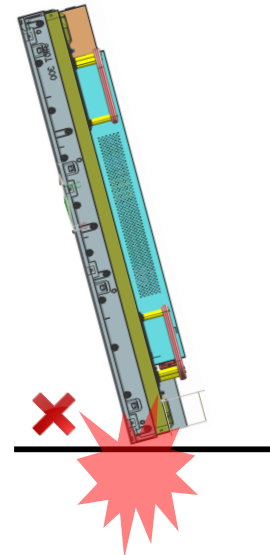
NOTE:

- Please do not rotate and use it for left-hand side.
- Please do not move with the monitor as an upswing or a downswing.



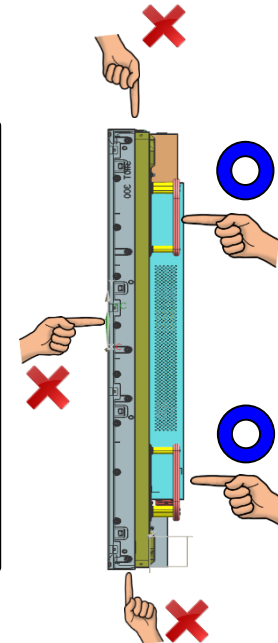
- Grab the handles when working.
- Do not take hold any part except the handles.
- Do not touch top/down/left/right side and also surface of the monitor.
- Do not stand on the floor directly with surface or rear side of the monitor.
- Do not make impacts to the monitor.

Do not twist the monitor.



✗ : No Good

○ : OK



Wall-mounting bracket

When preparing bracket for multiple monitors, please take the following considerations.

- 1) Ensure the wall on which the monitors will be installed has a smooth surface.
- 2) Ensure the bracket used to attach the monitors to the wall have enough load capacity to support them.
- 3) Ensure the bracket used can be adjusted upward, downward, to the left and right, forward and backward.
- 4) When installing or moving, ensure the bracket does not interfere with the back of the monitor, cable guides, and other structures.
- 5) Ensure the bracket is constructed so that the monitor can easily be removed.
- 6) Please do not distort the monitor.

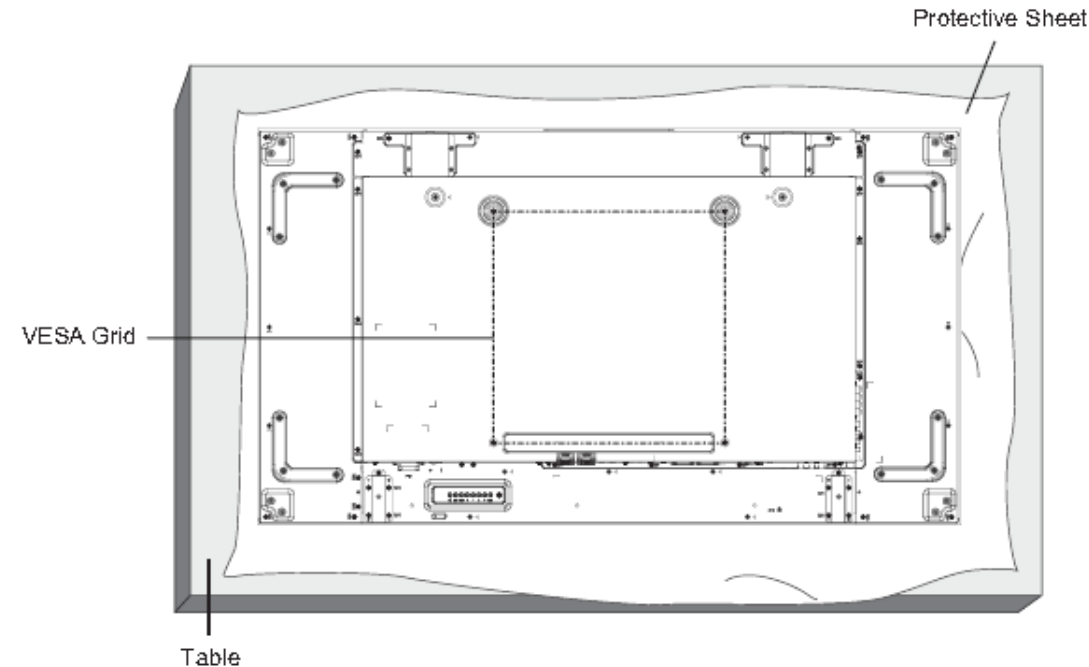


**If you can not install in the same way as this manual,
please contact Panasonic sales company.**

VESA Mounting

To mount this Display to a wall, you will have to obtain a standard wall-mounting kit.

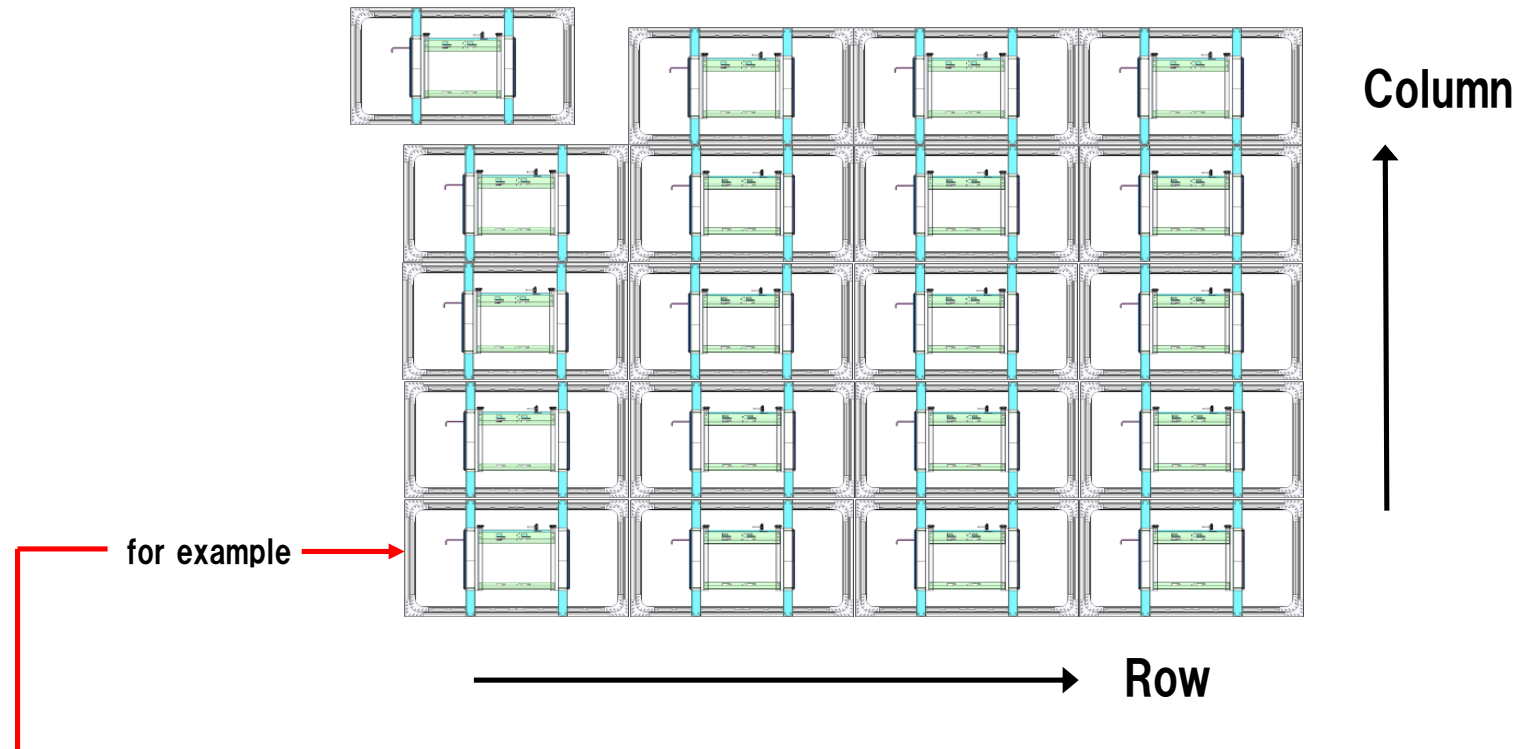
1. Lay a protective sheet on a table, which was wrapped around this Display when it was packaged, beneath the screen surface so as not to scratch the screen face.
2. Ensure you have all accessories for mounting this Display (wall mount, ceiling mount, etc).
3. Follow the instructions that came with the wall mounting kit. Failing to follow the correct mounting procedures could result in damage to the equipment, or injury to the user or install personnel. The product warranty does not cover the damage caused by improper installation.
4. For the wall-mounting kit, use M6 mounting screws (having a length 10 - 16mm longer than the thickness of the mounting bracket) and tighten them securely.



There are L type protection board (downside) and protection film (monitor surface). Please remove them.

There is a limitation of maximum units using optional mounting bracket, when we install video walls.

- TH-55VF2H/VF2 : 4row/5column
- TH-55VF1H : 5row/6column
- TH-55LFV9/LFV8 : 9row/11column



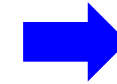
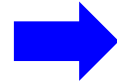
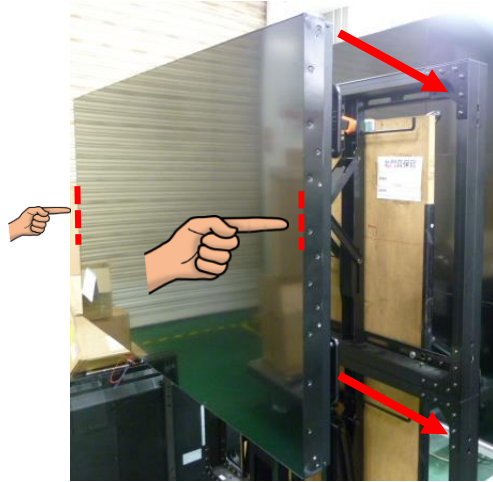
Please set a position dial (up, down, left and right) of the starting bracket to eccentric position of installation direction side, not a center (default) position.

Cautions of Video Wall installation 1

In case of the Lfv8/9 model

When we press 70N power to left and Right,
the mounting bracket will move to back.
※In case of using TY-VK55LFV1/2

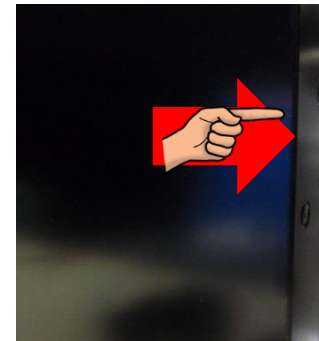
When using the mounting bracket with an
adjustment mechanism,
Please use it to fine-tune the monitor position.



Caution①



Please do not press panel active area and corner.
Please press center edge of right and left.
Please press vertically to the panel. (Refer the right.)
Please increase power in right and left equality.



Caution②

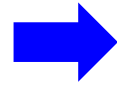
There is a possibility that if pressure
is added on the bezel towards outside,
the bezel will be distorted.
(The bezel will be open by 20N pressure.)
Please add a soft pressure vertically to
the panel.

Cautions of Video Wall installation 2

In case of the VF1/2 model

When we press 70N power to left and Right,
the mounting bracket will move to back.
※In case of using TY-VK55LFV1/2

When using the mounting bracket with an
adjustment mechanism,
Please use it to fine-tune the monitor position.



Caution②

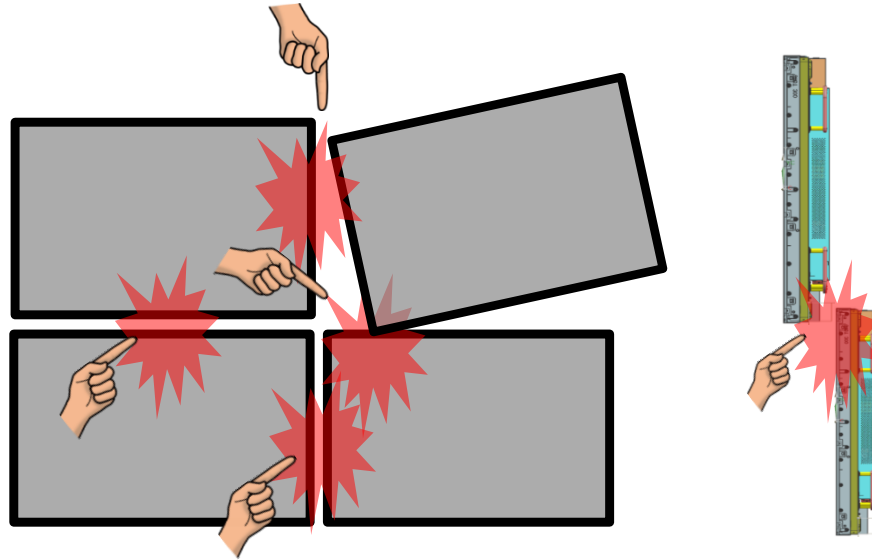
- a) In case of you cannot work behind the monitor,
When you push the monitor in, open both hands on the front of both sides of the monitor and push slowly to evenly distribute the pressure on the surface of the monitor.
- b) In case of you cannot work behind the monitor,
Pull the mounting bracket from the back and push the monitor in.



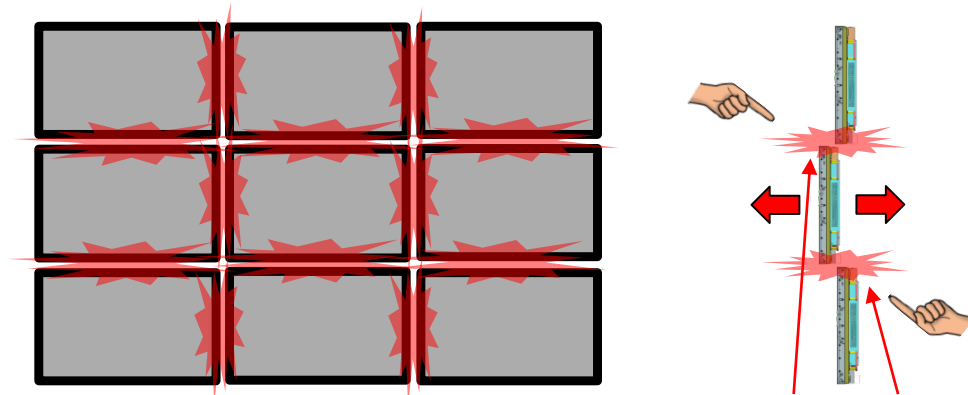
Caution①

Press the monitor carefully so that the bezels do not rub against each other.

Cautions of Video Wall installation 3



Please do not distort the monitor.

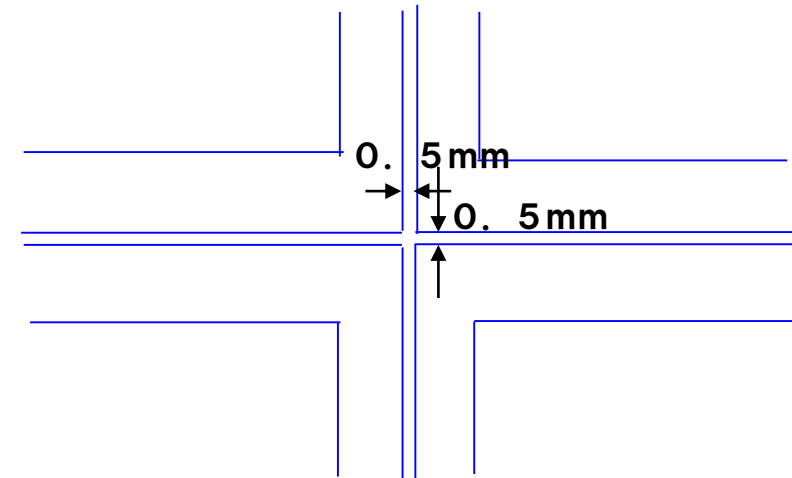


When moving the monitor back and front, do not rub the top, bottom, left, or right (4 sides).

About securing space between monitors

- After turning on, the monitor slightly expands due to heat. When installing multiple monitors with fixed outer most peripheries, space (0.5 mm) between monitors (above, below, to the left and right sides of each monitor) must be secured to account for expansion due to heat.

Space between sets (same for above, below, to the left and right directions)



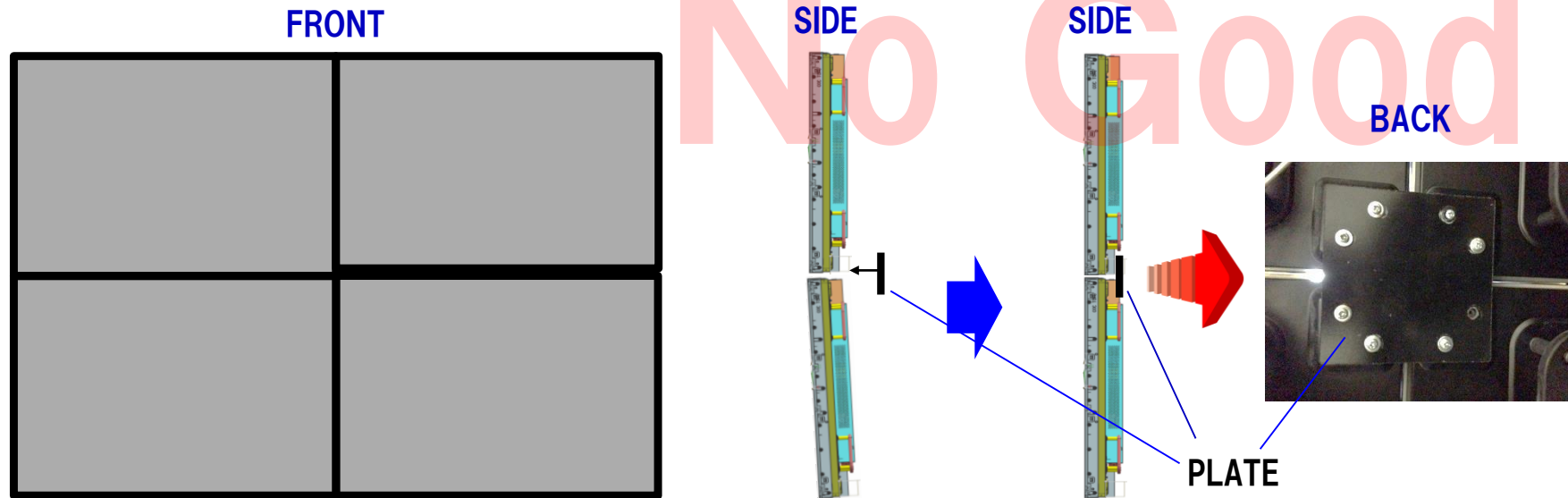
Please check the clearance by the following method.

- At the multi-end side, please check the 0.5mm gap with a scale, etc.
- In the inner part of the multi, please check by stacking two relatively soft business cards, etc.

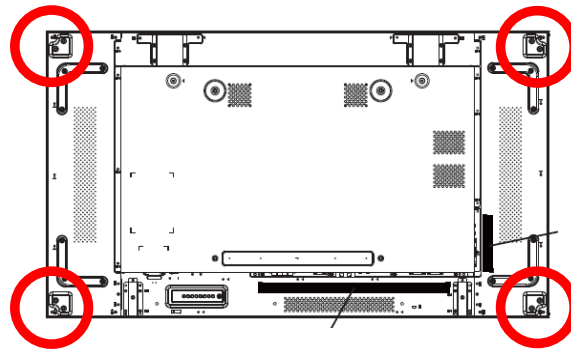
Caution

To prevent pressure on the bezel, when checking the gap, please check after measuring stacking two business cards or thick paper with a vernier caliper.
(Do not use hard objects such as feeler gauges.)

Cautions of Video Wall installation 4



After hung up the monitor and adjust position,
Please do not adjust to flat each monitor surface using some material such as "PLATE".
The plate is for reinforcement, so when it is used for position adjustment there is a possibility some picture trouble happen to the monitor.



Please do not use a hole of rear monitor corner
except for Panasonic option bracket such as
TY-VK55LV1、TY-VK55LV2.

Main points of attention

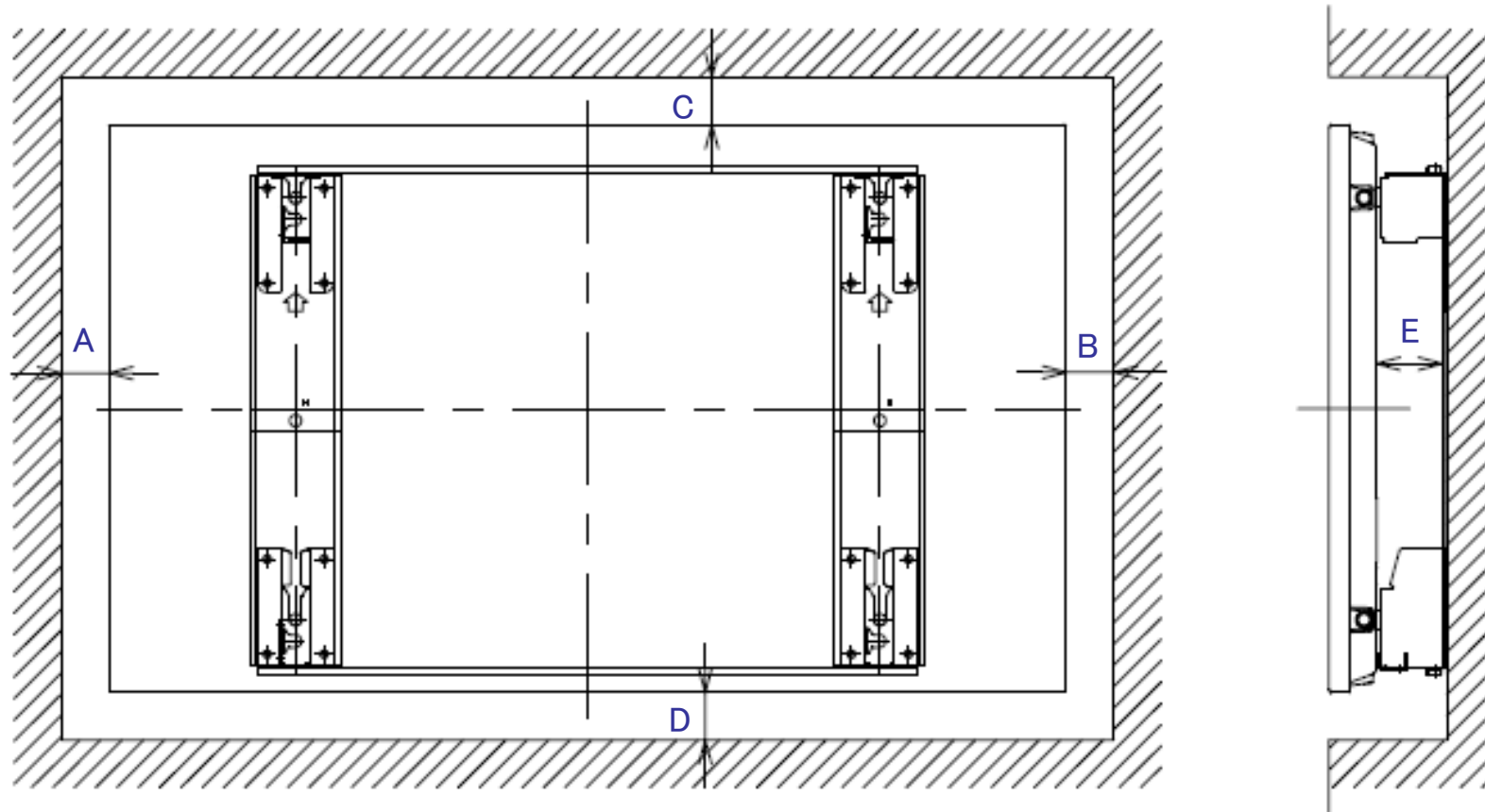
- Secure air circulation to ensure the ambient condition as follows.
 - Temperature : 0°C – 40°C
 - Humidity : 10% – 90% (Non condensation).
 - Note
 - In case of LFV8 model : 20% – 80% (Non condensation)
- Please secure space as follows.
 - 1) Stand-alone installation
 - Secure 100 mm or more space above, below, to the left and right and 50 mm or more behind the monitor.
 - 2) Multi-installation
 - Secure 100 mm or more space above, below, to the left and right and 150 mm or more behind the monitor.

Embedding space (stand-alone / horizontal installation)

- Secure space as follows.

Unit : mm

A	B	C	D	E
100	100	100	100	50



Ambient Condition : Temperature 0–40 °C、 Humidity 10–90% (Non condensation)

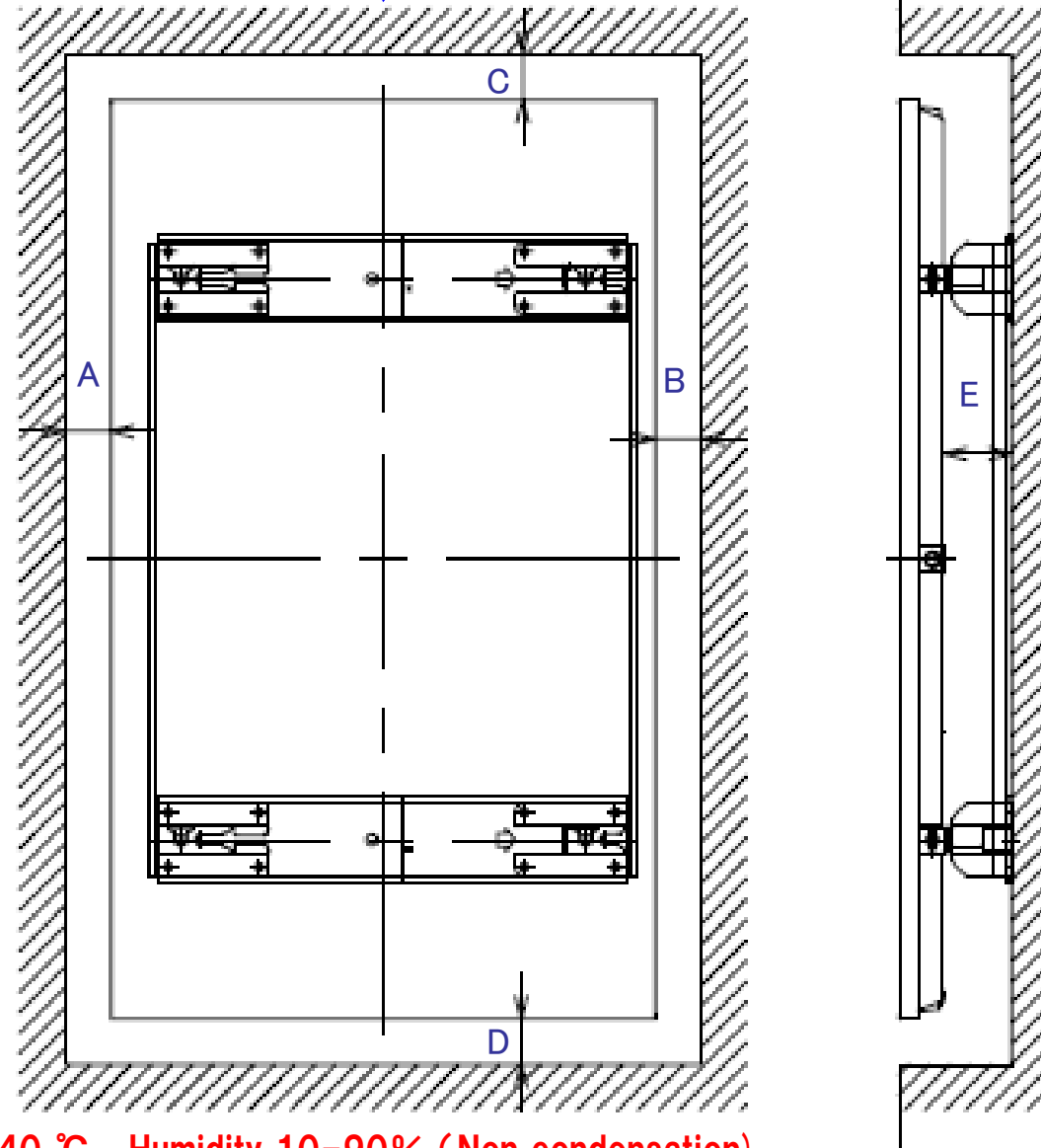
Note : In case of Lfv8 model, from 20% to 80% (Non condensation)

Embedding space (stand-alone / vertical installation)

- Secure space as follows.

Unit : mm

A	100
B	100
C	100
D	100
E	50



Ambient Condition : Temperature 0—40 °C、Humidity 10—90% (Non condensation)

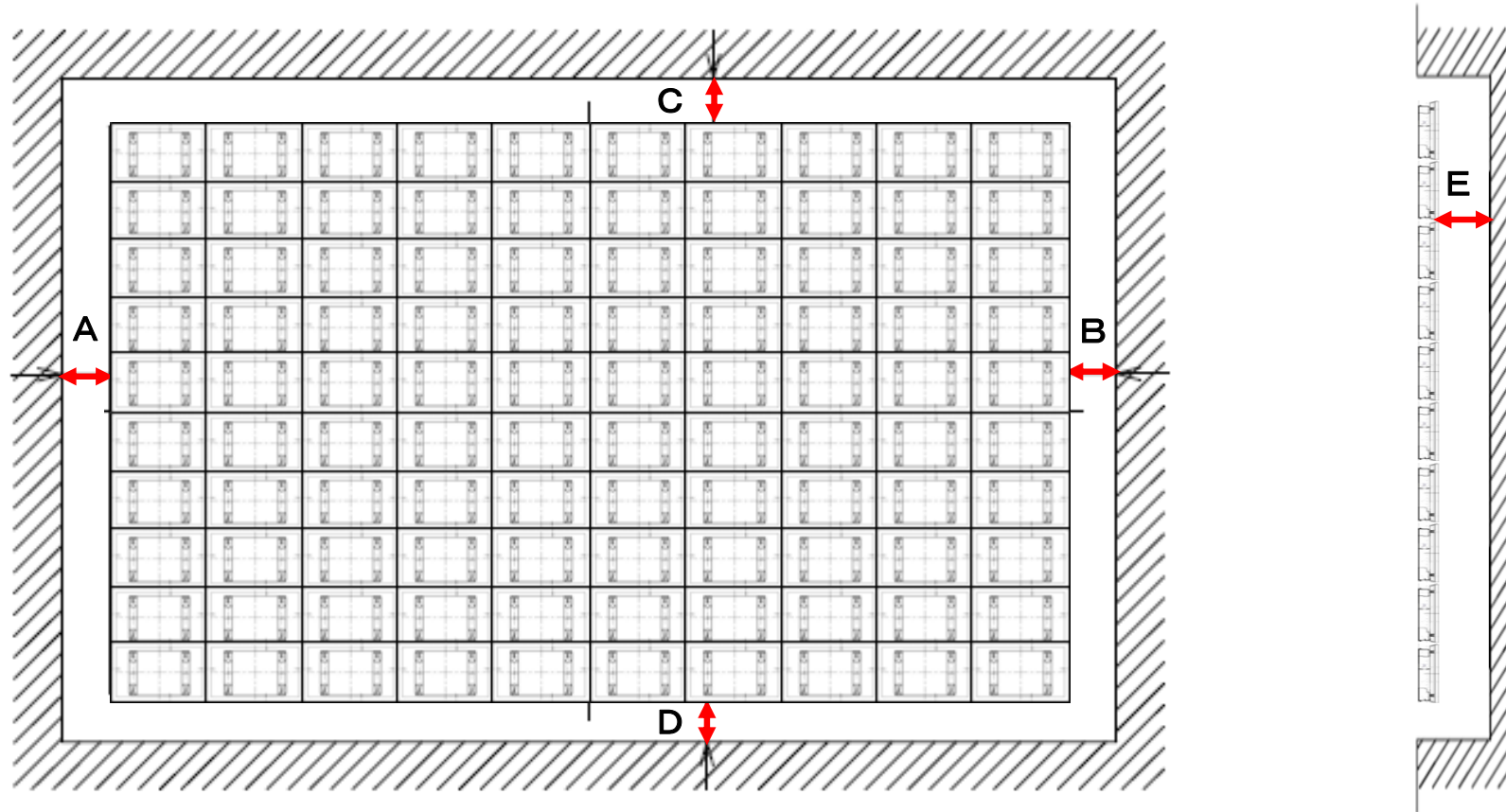
Note : In case of Lfv8 model, from 20% to 80% (Non condensation)

Embedding space (multi-system / horizontal installation)

- Secure space as follows.

Unit : mm

A	B	C	D	E
100	100	100	100	150



Ambient Condition : Temperature 0–40 °C、 Humidity 10–90% (Non condensation)

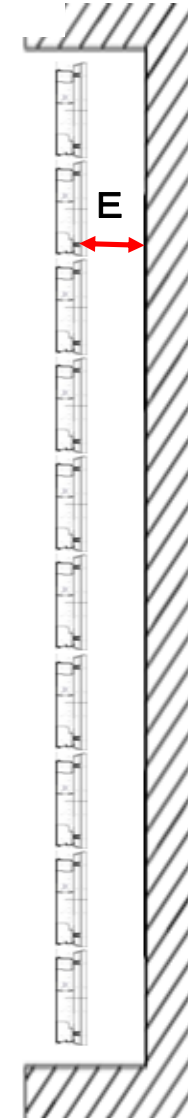
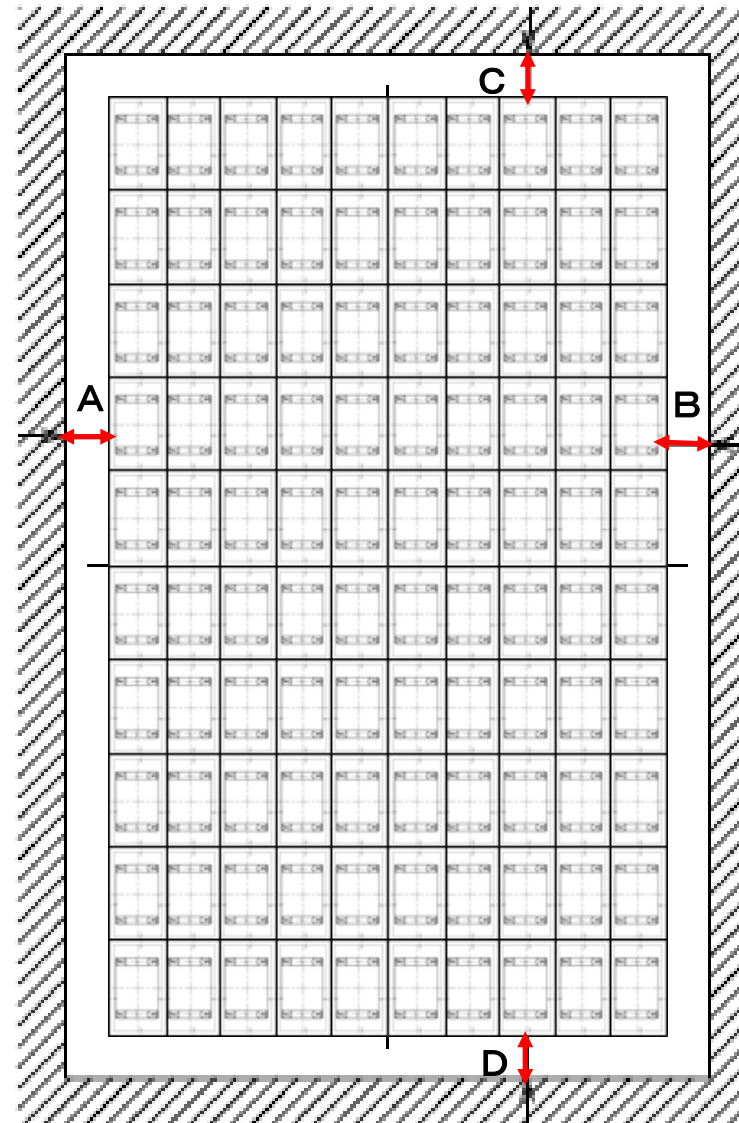
Note : In case of Lfv8 model, from 20% to 80% (Non condensation)

Embedding space (multi-system / vertical installation)

- Secure space as follows.

Unit : mm

A	100
B	100
C	100
D	100
E	150

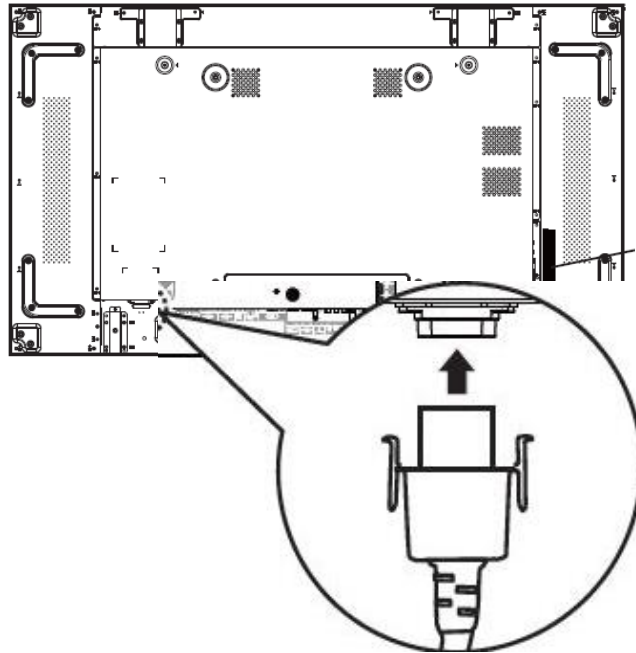


Ambient Condition : Temperature 0–40 °C、 Humidity 10–90% (Non condensation)

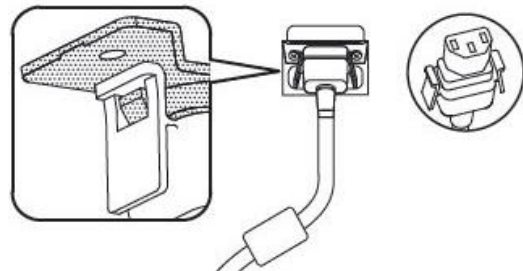
Note : In case of Lfv8 model, from 20% to 80% (Non condensation)

About connecting to power source

1. Plug the AC cord into this Display.



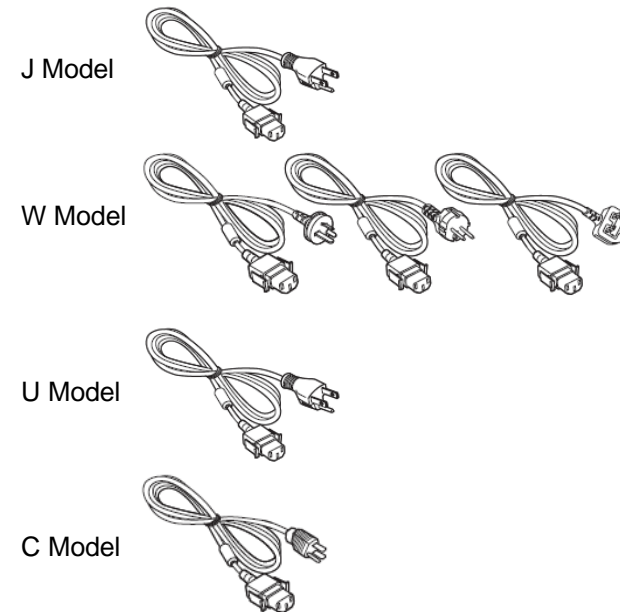
2. Plug the AC cord firmly until it clicks into position. Make sure the AC cord is locked on both the left and right sides.



Caution

- Use only the AC power cord included and connect securely.
- Never use a power cord other than the one included as it may lead to a smoke emission and/or fire due to insufficient contact.

AC Power Cord

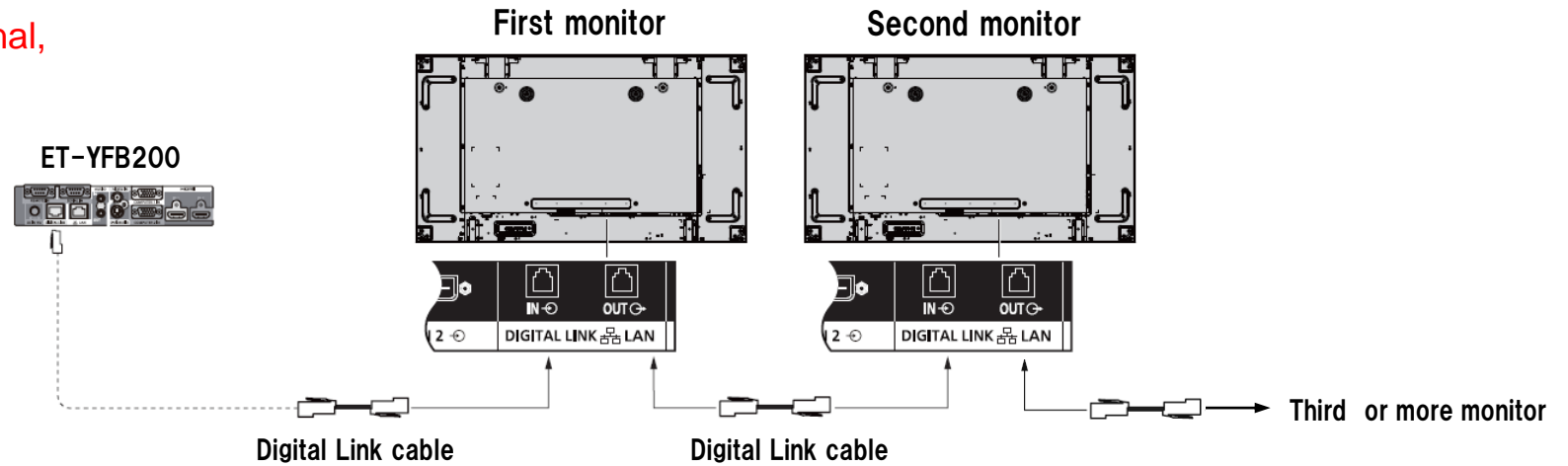


DIGITAL LINK Connection (For VF1H/VF2H/VF2 model)

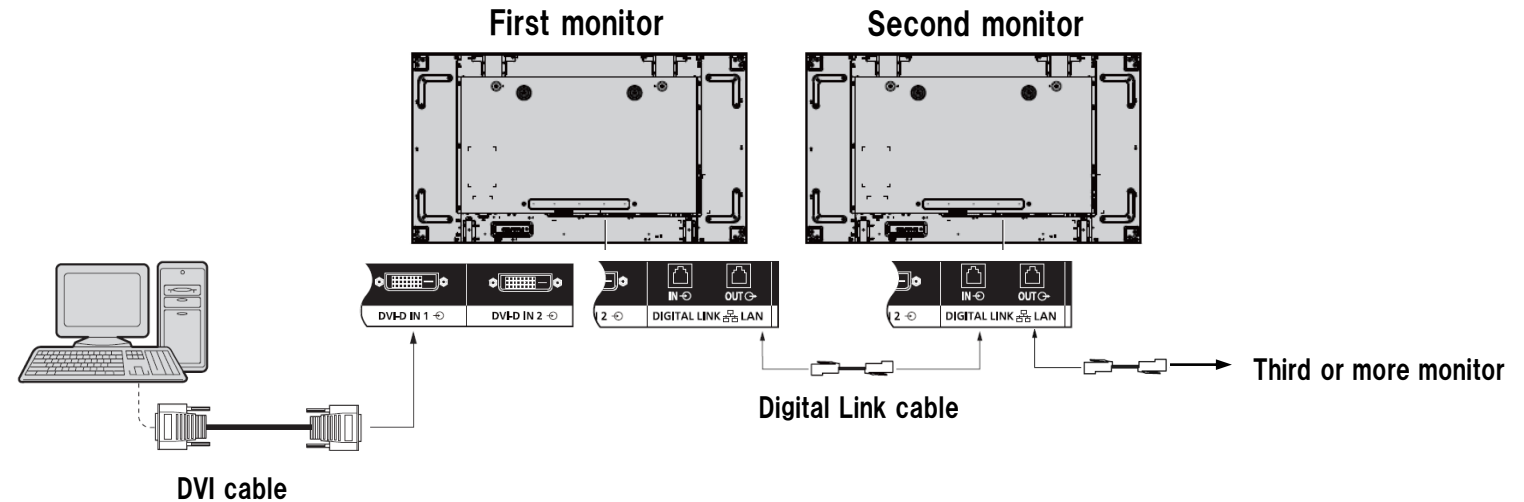
Max: 10units

※If contents have HDCP signal,
Max 8units is available.

In case of Digital Link input



In case of DVI input

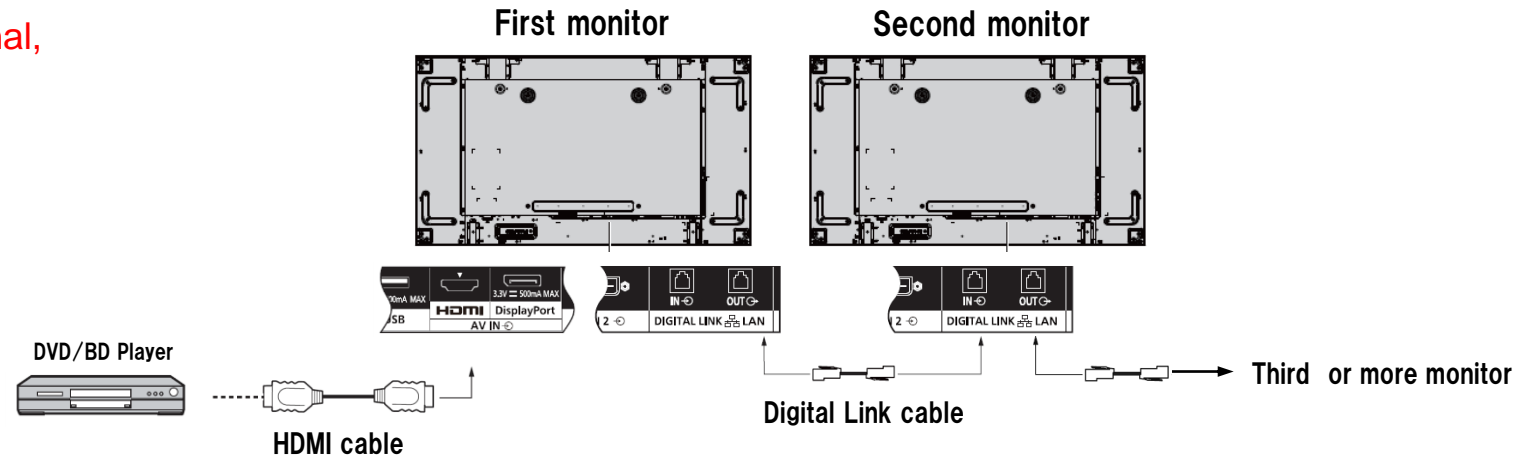


DIGITAL LINK Connection (For VF1H/VF2H/VF2 model)

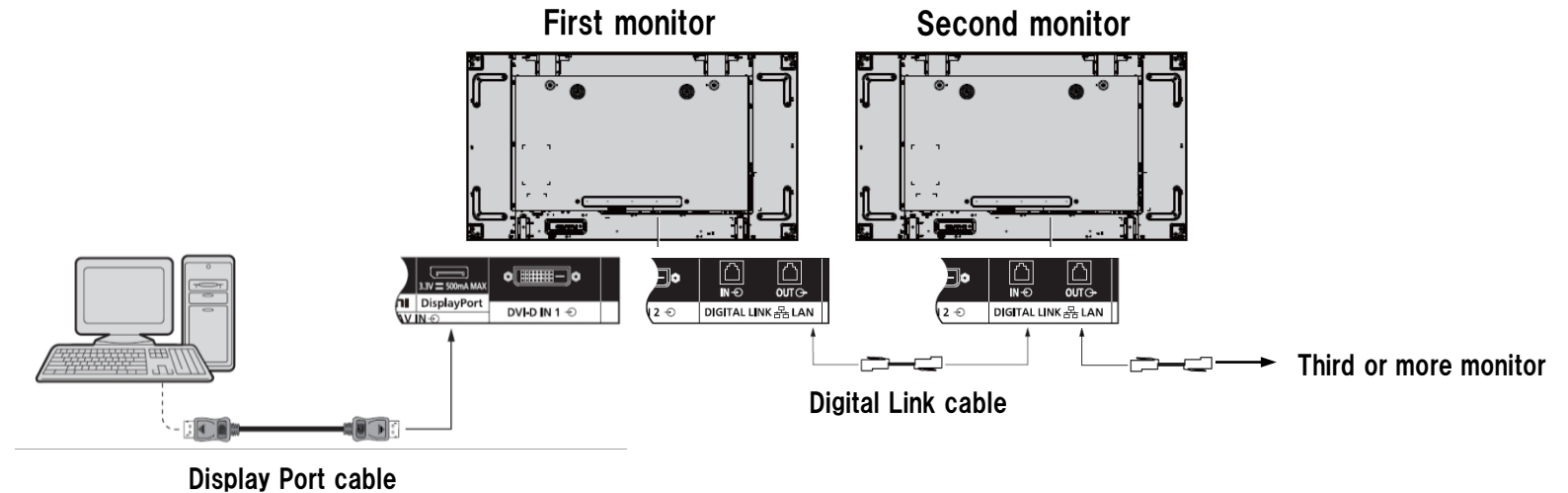
Max: 10units

※If contents have HDCP signal,
Max 8units is available.

In case of HDMI input



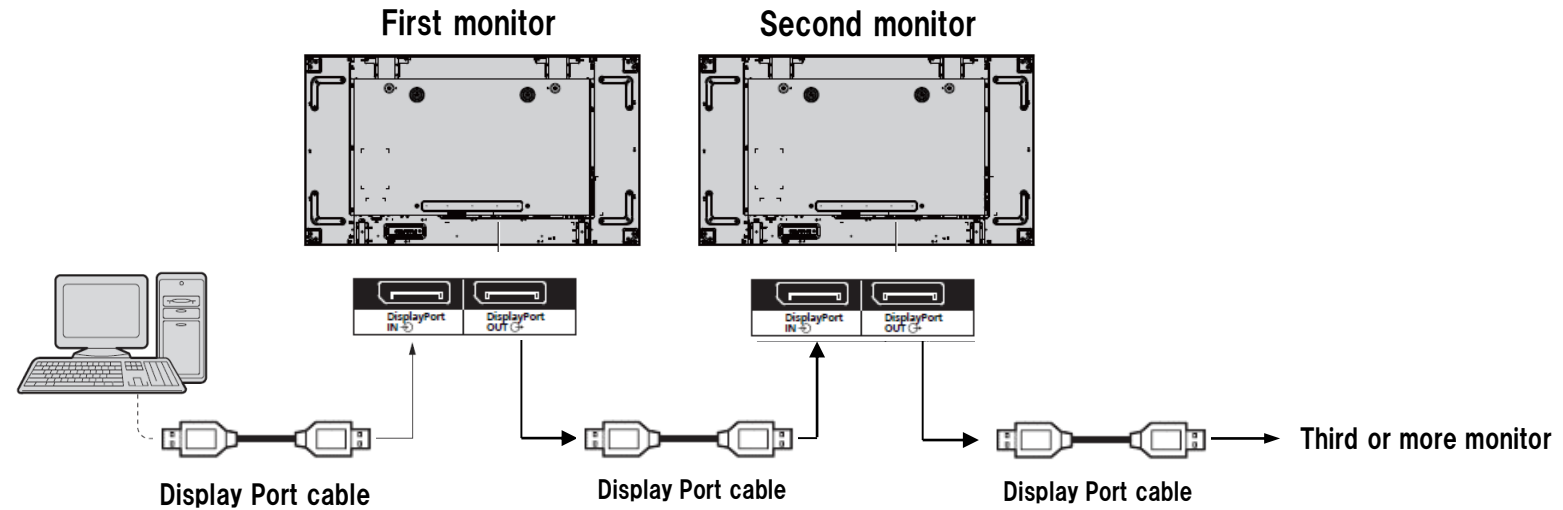
In case of Display Port input



Display Port Daisy Chain Connection (For LfV8/LfV9 model)

Max: 10units

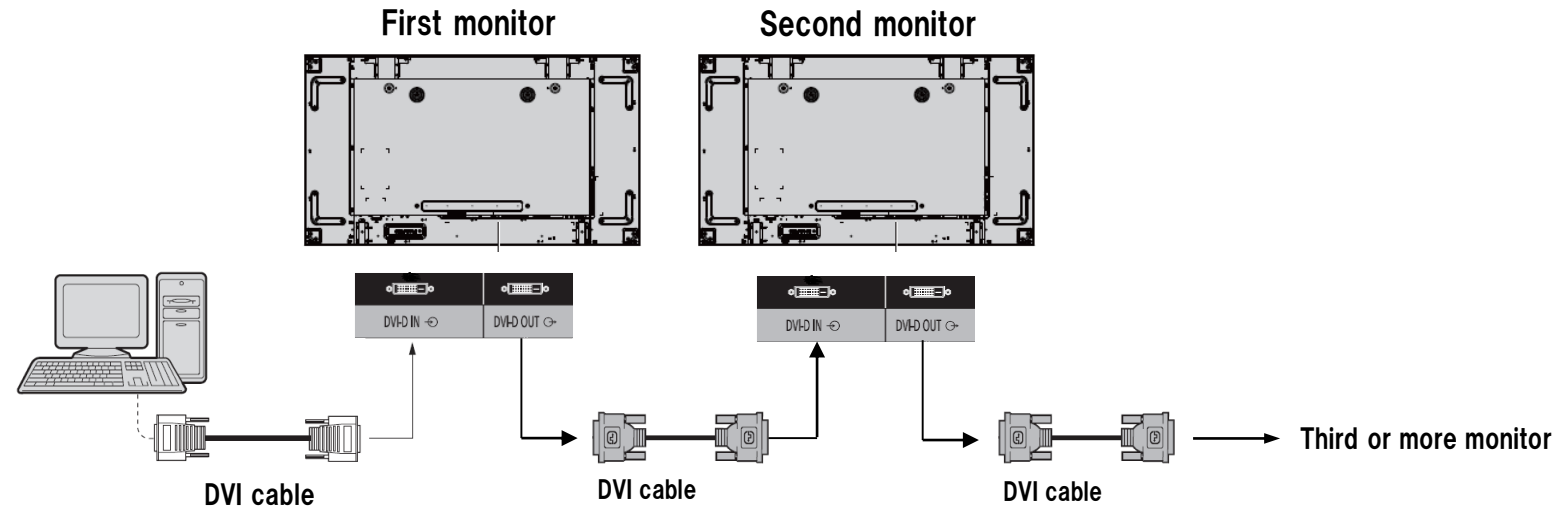
※If contents have HDCP signal,
Max 8units is available.



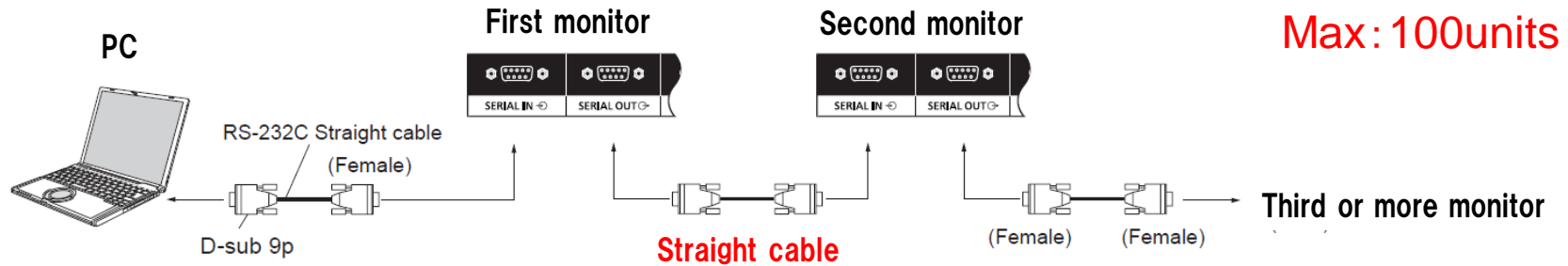
DVI Daisy Chain Connection (For LVF8/LVF9 model)

Max: 10units

※If contents have HDCP signal,
Max 8units is available.

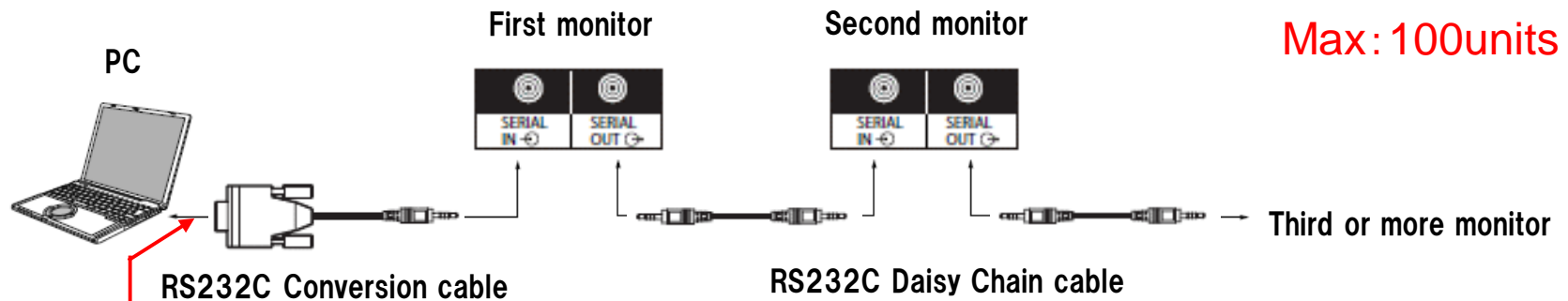


RS-232C Control Connection (For VF1H/VF2H/VF2 model)



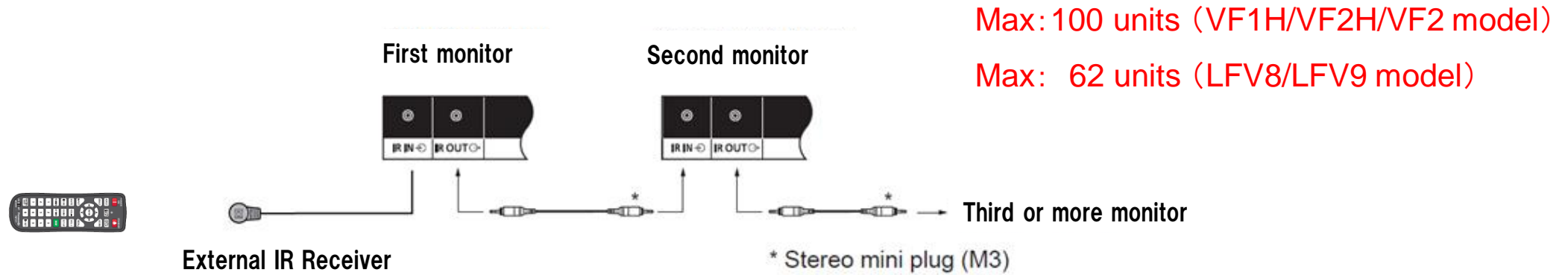
In case of the Digital Link daisy chain connection, no need to connect the RS232C cable. But, connection limitation is same as the Digital Link daisy chain connection.

RS-232C Control Connection (For Lfv8/Lfv9 model)



In case of using extended RS232C cable from PC, please use the RS232C straight cable.

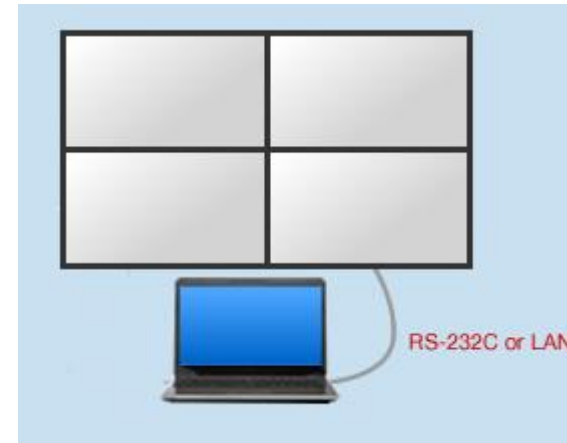
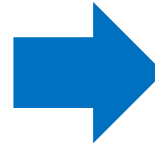
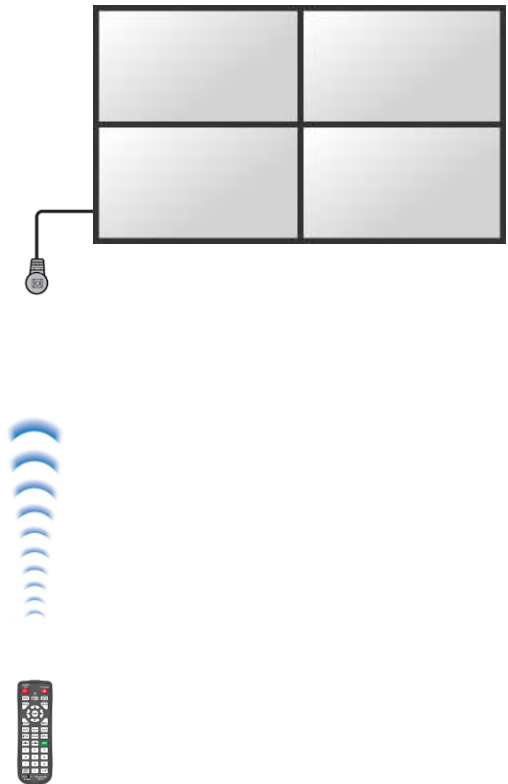
EXTERNAL IR CONNECTION



In case of the Digital Link daisy chain connection of the VF1H/VF2H/VF2 model, no need to connect the IR daisy chain cable (stereo mini plug). But, connection limitation is same as the Digital Link daisy chain connection.

◆ Remote controller IR signal outreach distance

In case of using external IR receiver,
the remote controller IR signal outreach distance
is about 7m.

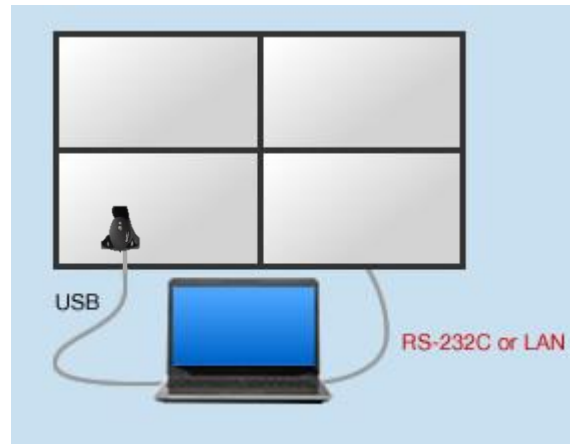


We recommend to use LAN or RS232C
to control the monitor.

◆ Support color calibration

Please refer operation manual of Video Wall Manager Software and TY-VUK10.

Video Wall Manager Software



Color adjustment using color sensor

TY-VUK10 (Auto color adjustment Upgrade Kit)



Auto color adjustment using camera

About maintenance

To maintain normal operation, check for the following regularly.

- Remove dust if it collects at the air vents (part indicated in pink) of the monitor. If left as is, a malfunction may occur due to temperature rise caused by insufficient ventilation.

