

PHILIPS

Unite LED Display

5100 Series

27HDL5178IP
27HDL5193IP
27HDL5112IP
27HDL5115IP
27HDL5118IP



User Manual (English)

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1. Safety Instructions

Safety precautions and maintenance



WARNING: Use of controls, adjustments or procedures other than those specified in this documentation may result in exposure to shock, electrical hazards and/or mechanical hazards.

Read and follow these instructions when connecting and using your display:

This product is intended for use in professional installations in business settings only and is not suitable for domestic purposes. Any use other than that for which this device is intended can void the warranty.

This product contains an operating system. If it is shut down directly using the AC switch, it may damage the program and prevent it from powering on again. If the system is unable to power on due to frequent shutdowns, please try a factory reset. Please note that all data stored in the system will be lost when the display is rebooted after a factory reset.

Operation:

- Keep the display out of direct sunlight and away from stoves or any other heat sources.
- Keep the display away from oil, otherwise the plastic cover may be damaged.
- It is recommended to set the display up in the well-ventilated place.
- Ultra-violet ray filter is necessary of outdoor operation.
- If the product will be used in extreme conditions such as high temperature, humidity, display patterns or operation time etc... It is strongly recommended to contact Philips for Application engineering advice. Otherwise, its reliability and function may not be guaranteed. Extreme conditions are commonly found at Airports, Transit Stations, Banks, Stock market, and Controlling systems.
- Remove any object that could fall into ventilation holes or prevent proper cooling of the display's electronics.
- Do not block the ventilation holes on the cabinet.
- When positioning the display, make sure the power plug and outlet are easily accessible.
- When turning off the display by detaching the power cord, wait 6 seconds before re-attaching the power cord for normal operation.
- Ensure the use of an approved power cord provided by Philips at all times. If your power cord is missing, please contact your local service center.
- Do not subject the display to severe vibration or high impact conditions during operation.
- Do not knock or drop the display during operation or transportation.
- The eye bolt is for usage in short-time maintenance and installation. We suggest not to use the eye bolt for more than 1 hour. Prolong usage is prohibited. Please keep a clear safety area under the display while using the eye bolt.
- If provided with a 3-pin attachment plug on the power cord, plug the cord into a grounded (earthed) 3-pin outlet. Do not disable the power cord grounding pin, for example, by attaching a 2-pin adapter. The grounding pin is an important safety feature.

Maintenance:

- To protect your display from possible damage, do not put excessive pressure on the LED panel. When moving your display, grasp the frame to lift; do not lift the display by placing your hand or fingers on the LED panel.
- Unplug the display if you are not going to use it for an extensive period of time.
- Unplug the display if you need to clean it with a slightly damp cloth. The screen may be wiped with a dry cloth when the power is off. However, never use organic solvent, such as, alcohol, or ammonia-based liquids to clean your display.
- To avoid the risk of shock or permanent damage to the set, do not expose the display to dust, rain, water or an excessively moist environment.
- If your display becomes wet, wipe it with dry cloth as soon as possible.
- If a foreign substance or water gets in your display, turn the power off immediately and disconnect the power cord. Then remove the foreign substance or water, and send the unit to the maintenance center.
- Do not store or use the display in locations exposed to heat, direct sunlight or extreme cold.
- In order to maintain the best performance of your display and ensure a longer lifetime, we strongly recommend using the display in a location that falls within the following temperature and humidity ranges.
- Keep the display dry. To avoid electric shock, do not expose it to rain or excessive moisture.

- **Environmental absolute ratings**

| Item | Min. | Max. | Unit |
|-----------------------|------|------|------|
| Operation temperature | 0 | 40 | °C |
| Storage temperature | -40 | 60 | °C |
| Operation humidity | 0 | 90 | % RH |
| Storage humidity | 0 | 93 | % RH |

- The lifetime of the display stated in this specification is only guaranteed if the display is used under the proper operation conditions.

Service:

- The casing cover should be opened only by qualified service personnel.
- If there is any need for repair or integration, please contact your local service center.
- Do not leave your display under direct sunlight.



If your display does not operate normally, having followed the instructions set out in this document, please contact a technician or your local service center.

Stability Hazard.

The device may fall, causing serious personal injury or death. To prevent injury, this device must be securely attached to the floor/wall in accordance with the installation instructions.

EU Declaration of Conformity

This device complies with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility (2014/30/EU), Low-voltage Directive (2014/35/EU), RoHS directive (2011/65/EU), ErP directive (2009/125/EC).

This product has been tested and found to comply with the harmonized standards for Information Technology Equipment, these harmonized standards published under Directives of Official Journal of the European Union.

ESD Warnings

When user close to the monitor may cause the equipment discharge and reboot to the display of main menu.

Warning:

This equipment is compliant with Class A of EN55032/CISPR 32. In a residential environment this equipment may cause radio interference.

Federal Communications Commission (FCC) Notice (U.S. Only)



NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Use only an RF shielded cable that was supplied with the display when connecting this display to a computer device.

To prevent damage which may result in fire or shock hazard, do not expose this appliance to rain or excessive moisture.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

TPV USA Corp
6525 Carnegie Blvd #200
Charlotte, NC 28211
USA

Polish Center for Testing and Certification Notice

The equipment should draw power from a socket with an attached protection circuit (a three-prong socket). All equipment that works together (computer, display, printer, and so on) should have the same power supply source.

The phasing conductor of the room's electrical installation should have a reserve short-circuit protection device in the form of a fuse with a nominal value no larger than 16 amperes (A).

To completely switch off the equipment, the power supply cable must be removed from the power supply socket, which should be located near the equipment and easily accessible.

A protection mark "B" confirms that the equipment is in compliance with the protection usage requirements of standards PN-93/T-42107 and PN-89/E-06251.

Wymagania Polskiego Centrum Badań i Certyfikacji

Urządzenie powinno być zasilane z gniazda z przyłączonym obwodem ochronnym (gniazdo z kolkiem). Współpracujące ze sobą urządzenia (komputer, monitor, drukarka) powinny być zasilane z tego samego źródła.

Instalacja elektryczna pomieszczenia powinna zawierać w przewodzie fazowym rezerwową ochronę przed zwarciami, w postaci bezpiecznika o wartości znamionowej nie większej niż 16A (amperów).

W celu całkowitego wyłączenia urządzenia z sieci zasilania, należy wyjąć wtyczkę kabla zasilającego z gniazdka, które powinno znajdować się w pobliżu urządzenia i być łatwo dostępne.

Znak bezpieczeństwa "B" potwierdza zgodność urządzenia z wymaganiami bezpieczeństwa użytkowania zawartymi w PN-93/T-42107 i PN-89/E-06251.

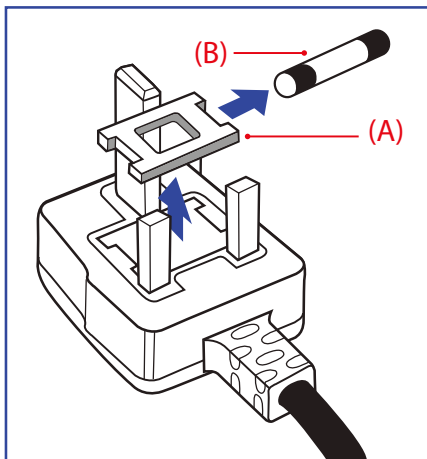
Pozostałe instrukcje bezpieczeństwa

- Nie należy używać wtyczek adapterowych lub usuwać kolka obwodu ochronnego z wtyczki. Jeżeli konieczne jest użycie przedłużacza to należy użyć przedłużacza 3-żyłowego z prawidłowo połączonym przewodem ochronnym.
- System komputerowy należy zabezpieczyć przed nagłymi, chwilowymi wzrostami lub spadkami napięcia, używając eliminatora przepięć, urządzenia dopasowującego lub bezzakłóceńowego źródła zasilania.
- Należy upewnić się, aby nie leżało na kablach systemu komputerowego, oraz aby kable nie były umieszczone w miejscu, gdzie można byłoby na nie nadeptywać lub potykać się o nie.
- Nie należy rozlewać napojów ani innych płynów na system komputerowy.
- Nie należy wpychać żadnych przedmiotów do otworów systemu komputerowego, gdyż może to spowodować pożar lub porażenie prądem, poprzez zwarcie elementów wewnętrznych.
- System komputerowy powinien znajdować się z dala od grzejników i źródeł ciepła. Ponadto, nie należy blokować otworów wentylacyjnych. Należy unikać kładzenia luźnych papierów pod komputer oraz umieszczania komputera w ciasnym miejscu bez możliwości cyrkulacji powietrza wokół niego.

Electric, Magnetic and Electromagnetic Fields ("EMF")

1. We manufacture and sell many products targeted at consumers, which, like any electronic apparatus, in general have the ability to emit and receive electromagnetic signals.
2. One of our leading Business Principles is to take all necessary health and safety measures for our products, to comply with all applicable legal requirements and to stay well within the EMF standards applicable at the time of producing the products.
3. We are committed to develop, produce and market products that cause no adverse health effects.
4. We confirm that if its products are handled properly for their intended use, they are safe to use according to scientific evidence available today.
5. We play an active role in the development of international EMF and safety standards, enabling us to anticipate further developments in standardization for early integration in its products.

Information for U.K. only



WARNING - THIS APPLIANCE MUST BE EARTHED.

Important:

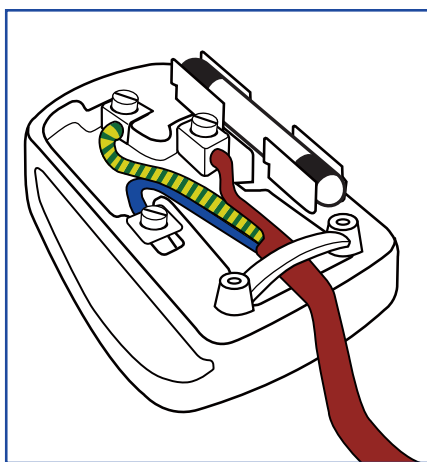
This apparatus is supplied with an approved moulded 13A plug. To change a fuse in this type of plug proceed as follows:+

1. Remove fuse cover and fuse.
2. Fit new fuse which should be a BS 1362 5A, A.S.T.A. or BSI approved type.
3. Refit the fuse cover.

If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate 3-pin plug fitted in its place.

If the mains plug contains a fuse, this should have a value of 5A. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5A.

NOTE: The severed plug must be destroyed to avoid a possible shock hazard should it be inserted into a 13A socket elsewhere.



How to connect a plug

The wires in the mains lead are coloured in accordance with the following code:

BLUE - "NEUTRAL" ("N")

BROWN - "LIVE" ("L")

GREEN & YELLOW - "EARTH" ("E")

1. The GREEN & YELLOW wire must be connected to the terminal in the plug which is marked with the letter "E" or by the Earth symbol or coloured GREEN or GREEN & YELLOW.
2. The BLUE wire must be connected to the terminal which is marked with the letter "N" or coloured BLACK.
3. The BROWN wire must be connected to the terminal which marked with the letter "L" or coloured RED.

Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead - not simply over the three wires.

North Europe (Nordic Countries) Information

Placering/Ventilation

VARNING:

FÖRSÄKRA DIG OM ATT HUVUDBRYTARE OCH UTTAG ÄR LÄTÅTKOMLIGA, NÄR DU STÄLLER DIN UTRUSTNING PÅ PLATS.

Placering/Ventilation

ADVARSEL:

SØRG VED PLACERINGEN FOR, AT NETLEDNINGENS STIK OG STIKKONTAKT ER NEMT TILGÆNGELIGE.

Paikka/Ilmankierto

VAROITUS:

SIJOITA LAITE SITEN, ETTÄ VERKKOJOHTO VOIDAAN TARVITTAESSA HELPOSTI IRROTTAA PISTORASIASTA.

Plassering/Ventilasjon

ADVARSEL:

NÅR DETTE UTSTYRET PLASSERES, MÅ DU PASSE PÅ AT KONTAKTENE FOR STØMTILFØRSEL ER LETTE Å NÅ.

China RoHS

根据中国大陆《电器电子产品有害物质限制使用管理办法》，以下部分列出了本产品中可能包含的有害物质的名称和含量。

| 部件名称 | 有害物质 | | | | | |
|---------|-----------|-----------|-----------|------------------|---------------|-----------------|
| | 铅 (Pb) | 汞 (Hg) | 镉 (Cd) | 六价铬 (Cr (VI)) | 多溴联苯 (PBB) | 多溴二苯醚 (PBDE) |
| 外壳 | O | O | O | O | O | O |
| 显示面板 | X | O | O | O | O | O |
| 电路板组件* | X | O | O | O | O | O |
| 电源适配器 | X | O | O | O | O | O |
| 电源线/连接线 | X | O | O | O | O | O |
| 遥控器 | X | O | O | O | O | O |

本表格依据SJ/T 11364 的规定编制。

*: 电路板组件包括印刷电路板及其构成的零部件，如电阻、电容、集成电路、连接器等。

O: 表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572规定的限量要求以下。

X: 表示该有害物质至少在该部件的某一均质材料中的含量超出GB/T 26572规定的限量要求。

上表中打“X”的部件，应功能需要，部分有害物质含量超出GB/T 26572规定的限量要求，但符合欧盟 RoHS法规要求（属于豁免部分）。

备注：上表仅做为范例，实际标示时应依照各产品的实际部件及所含有害物质进行标示。



此标识指期限（十年），电子电气产品中含有的有害物质在正常使用的条件下不会发生外泄或突变，电子电气产品用户使用该电子电气产品不会对环境造成严重污染或对其人身、财产造成严重损害的期限。

《废弃电器电子产品回收处理管理条例》提示性说明

为了更好地关爱及保护地球，当用户不再需要此产品或产品寿命终止时，请遵守国家废弃电器电子产品回收处理相关法律法规，将其交给当地具有国家认可的回收处理资质的厂商进行回收处理，不当利用或者处置可能会对环境 and 人类健康造成影响。

警告：在居住环境中，运行此设备可能会造成无线电干扰。

警語：使用過度恐傷害視力。

注意事項：

(1) 使用30分鐘請休息10分鐘。

(2) 未滿2歲幼兒不看螢幕，2歲以上每天看螢幕不要超過1小時。

警告使用者：

此為甲類資訊技術設備，於居住環境中使用時，可能會造成射頻擾動，在此種情況下，使用者會被要求採取某些適當的對策。

警告：為避免電磁干擾，本產品不應安裝或使用於住宅環境。

Turkey RoHS:

Türkiye Cumhuriyeti: EEE Yönetmeliğine Uygundur

Ukraine RoHS:

Обладнання відповідає вимогам Технічного регламенту щодо обмеження використання деяких небезпечних речовин в електричному та електронному обладнанні, затвердженого постановою Кабінету Міністрів України від 10 березня 2017 р. № 139

End-of-Life Disposal

Your new Public Information Display contains materials that can be recycled and reused. Specialized companies can recycle your product to increase the amount of reusable materials and to minimize the amount to be disposed of.

Please find out about the local regulations on how to dispose of your old display from your local Philips dealer.

(For customers in Canada and U.S.A.)

This product may contain lead and/or mercury. Dispose of in accordance to local-state and federal regulations. For additional information on recycling contact www.eia.org (Consumer Education Initiative)

Waste Electrical and Electronic Equipment-WEEE

Attention users in European Union private households



This marking on the product or on its packaging illustrates that, under European Directive 2012/19/EU governing used electrical and electronic appliances, this product may not be disposed of with normal household waste. You are responsible for disposal of this equipment through a designated waste electrical and electronic equipment collection. To determine the locations for dropping off such waste electrical and electronic, contact your local government office, the waste disposal organization that serves your household or the store at which you purchased the product.

Attention users in United States:

Please dispose of according to all Local, State and Federal Laws. For the disposal or recycling information, contact: www.mygreenelectronics.com or www.eiae.org.

End of Life Directives-Recycling



Your new Public Information Display contains several materials that can be recycled for new users.

Please dispose of according to all Local, State, and Federal laws.

Restriction on Hazardous Substances statement (India)

This product complies with the "E-Waste (Management) Rules, 2016" CHAPTER V, rule 16, sub-rule (1) . Whereas New Electrical and Electronic Equipment and their components or consumables or parts or spares do not contain Lead, Mercury, Cadmium, Hexavalent Chromium, polybrominated biphenyls and polybrominated diphenyl ethers beyond a maximum concentration value of 0.1% by weight in homogenous materials for lead, mercury, hexavalent chromium, polybrominated biphenyls and polybrominated diphenyl ethers and of 0.01% by weight in homogenous materials for cadmium. except of exemptions set in Schedule 2 of the Rule.

E-Waste Declaration for India



This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment . The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about E -waste please visit <http://www.india.philips.com/about/sustainability/recycling/index.page> and to know where you can drop off your waste equipment for recycling in India please contact on below given contact details.

Helpline number: 1800-425-6396 (Monday to Saturday, 9 a.m. to 5:30 pm)

E-mail: india.callcentre@tpv-tech.com

Batteries




For EU: The crossed-out wheeled bin implies that used batteries should not be put to the general household waste! There is a separate collection system for used batteries, to allow proper treatment and recycling in accordance with legislation.

Please contact your local authority for details on the collection and recycling schemes.

For Switzerland: The used battery is to be returned to the selling point.

For other non-EU countries: Please contact your local authority for correct method of disposal of the used battery.

According to EU directive 2006/66/EC, the battery can't be disposed improperly. The battery shall be separated to collect by local service.



Após o uso, as pilhas e/ou baterias deverão ser entregues ao estabelecimento comercial ou rede de assistência técnica autorizada.

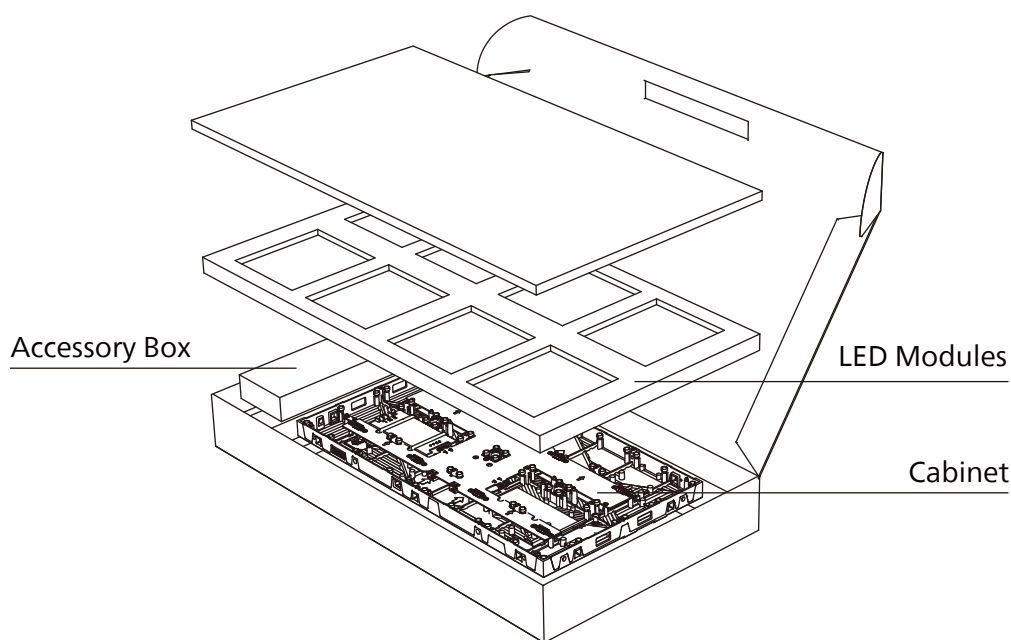
2. Preparation

2.1. Unpacking

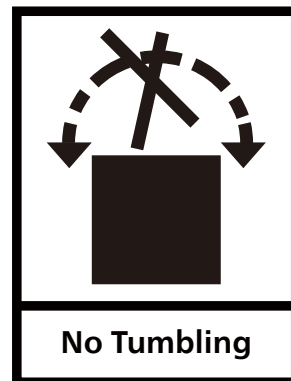
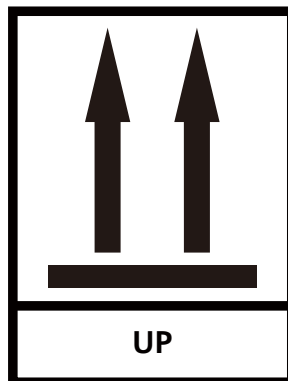
- This product is packed in a carton, together with the standard accessories.
- Any other optional accessories will be packed separately.
- As this product is high and heavy, the operation of moving the device is recommended to be performed by two technicians.
- After opening the carton, ensure that the contents are complete and in good condition.

■ Before Unpacking

- Please read and fully understand unpacking notice before installation.
- Please check the packaging for any abnormalities, such as creaking, dents, etc.
- Please do necessary inspection before you move the product out of the carton.
- Always have an experienced technician install the display to prevent any damage.



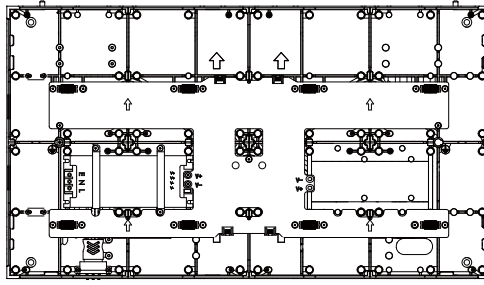
■ Notice



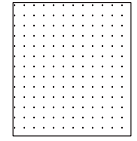
2.2. Package Contents

Please verify that you received the following items with your package content:

- Cabinet x1 pcs
- LED Module x8 pcs
- 750mm LAN Cable (RJ45) x1 pcs
- Cabinet Screw (M6x22) x 4
- 150mm LAN Cable (RJ45) x1 pcs



Cabinet x1



LED Module x8



750mm LAN Cable x1
(RJ45)



Cabinet Screw x4
(M6x22)

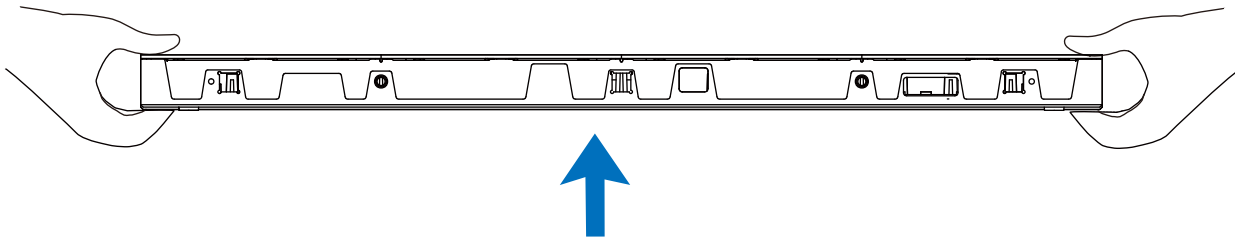


150mm LAN Cable x1
(RJ45)

2.3. Holding the cabinet

Warning:

To prevent damage to the LED, do NOT touch the edge of each LED module when holding the cabinet by hand. Refer to the illustration below for the recommended manner of holding a cabinet.

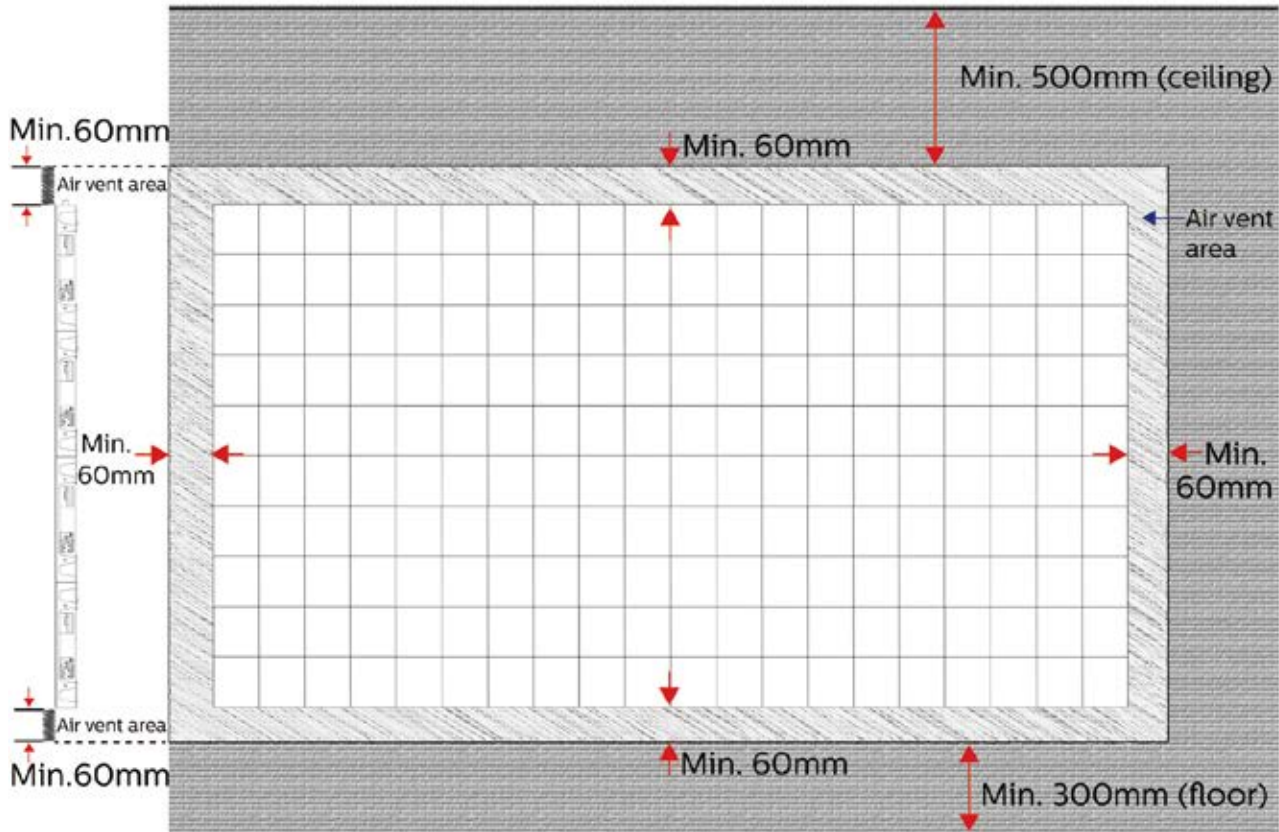


3. Installation

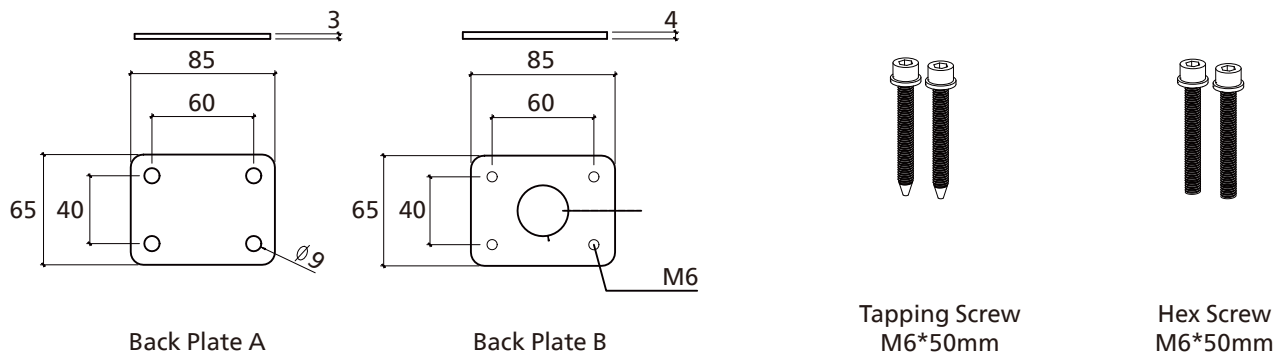
3.1. Cabinet intallation

The following intallation method are based on using 30*30 aluminum extrusion structure.

- Do not drop or apply shock/vibration to the product. Strong impacts may damage the component inside.
- Only a qualified service technician should perform installation.
- Only use approved cabinets.
- Be careful not to damage the corners of the cabinet.
- Install the display in a well-ventilated area.
- Always wear anti-static gloves when touching the display.
- Provide air conditioning around the LED display to allow heat dissipation away from the display.
- To maintain proper ventilation, keep clear space from the mounted displays to the wall. (Refer to the diagram below for the recommended distance between the LED display and wall). Installing the product in poorly ventilated spaces may ddamage the LED.
- For all other regions, apply a power cord that conforms to the AC voltage of the power socket and has been approved by and complies with the safety regulations of the particular country (Type H05W-F, 2G or 3G, 0.75 or 1 mm² should be used).
- Keep the packaging materials appropriately after unpacking the product.
- Only use the power cable provided with this product. If an extension cord is required, please consult your service agent.
- The product should be installed on a flat surface, or the product may tip over. Leave a space between the rear of the product and the wall for proper ventilation. Do not install the product in a kitchen, bathroom or a place exposed to moisture, failure to do so may shorten the life of the internal parts.

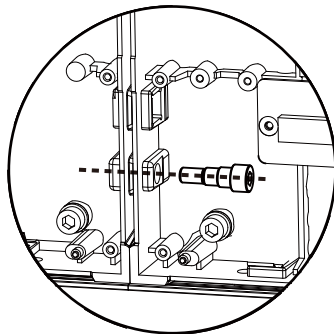
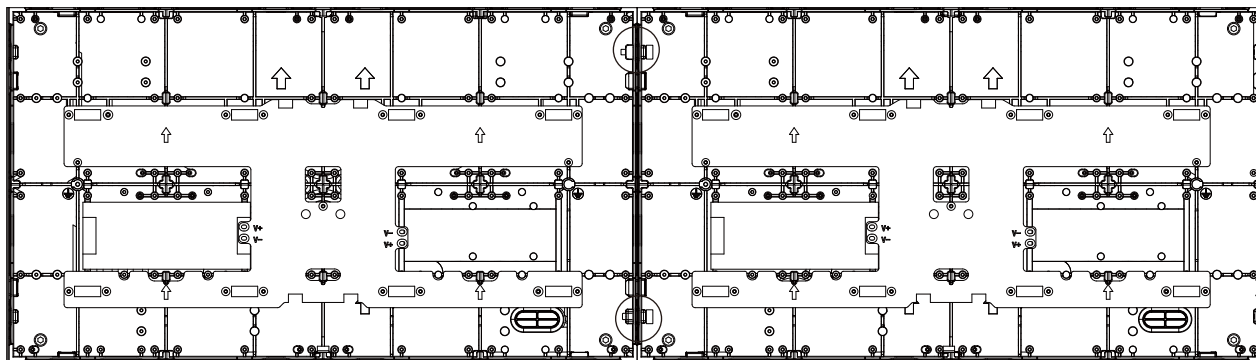


- A wall mount kit (in some regions sold separately or available from third party vendors) allows you to mount the LED display on the wall. For detailed information on installing the wall mount, see the instructions provided with the wall mount. Wall mounting can only be performed from the front side of cabinets.



* The wall mount kit sets are not included.

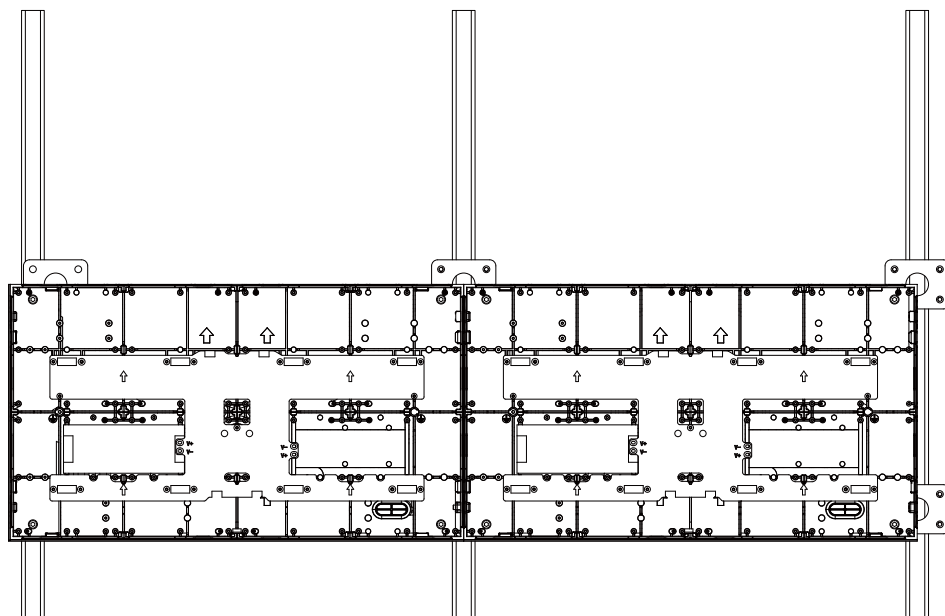
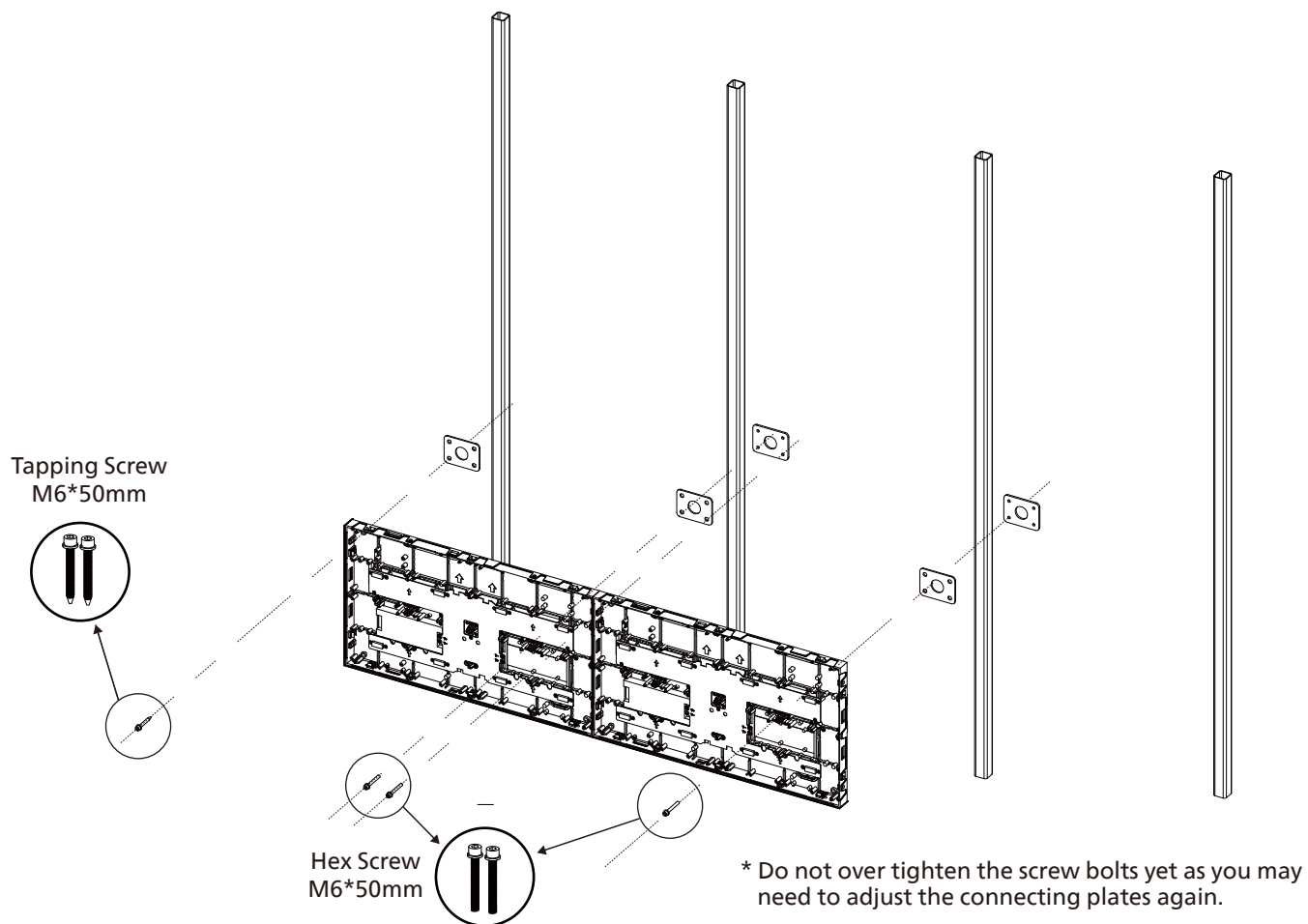
Step 1: Connect 2 cabinets by using cabinet screws before intalling the cabinet on wall mount structure.



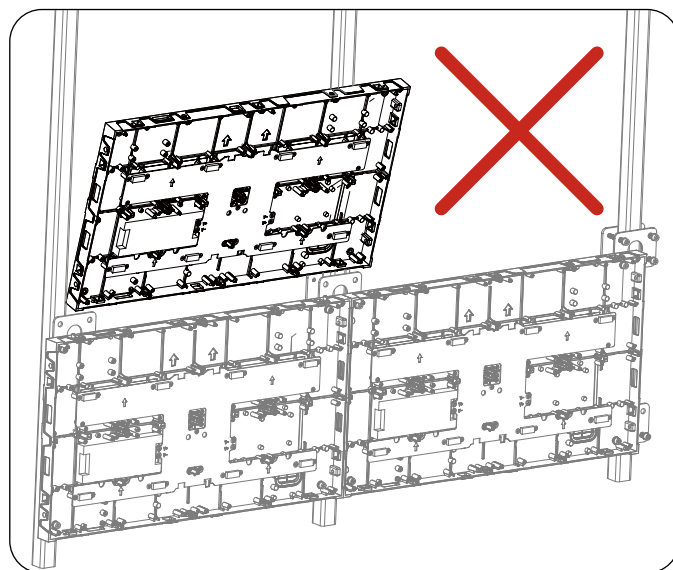
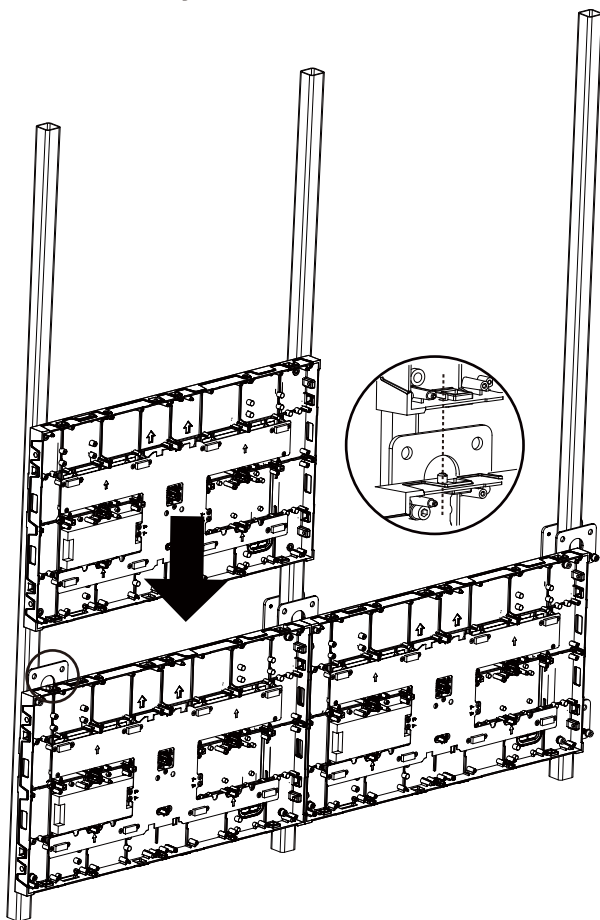
Cabinet Screw x2
(M6x22)

Step 2: Align the cabinet with the connecting plate and secure the cabinet to the holes on the connecting plate.

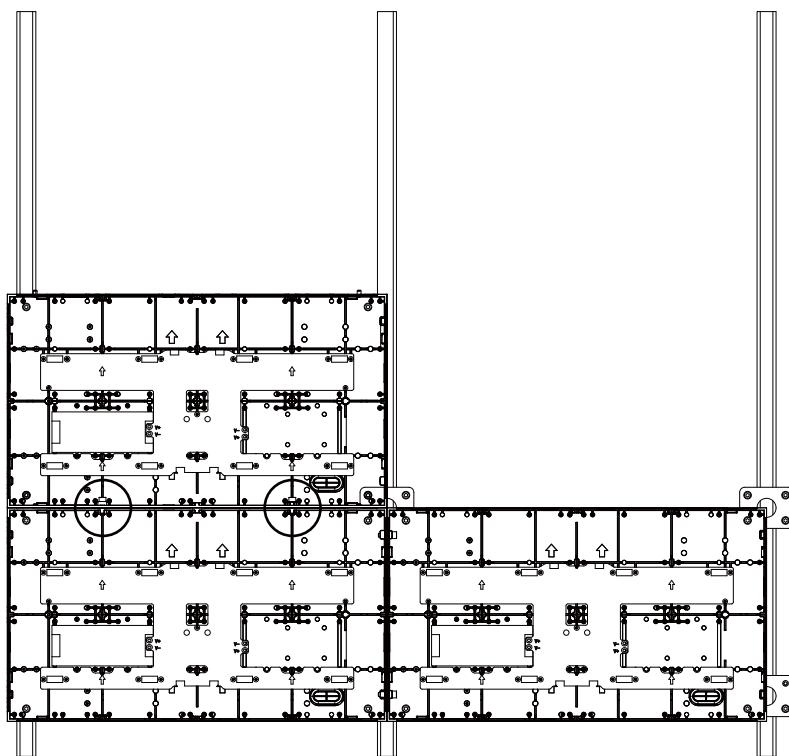
The mounting interface should be strong enough to bear the weight of the display. Ensure that your wall mount bracket has the mounting holes accurately drilled at proper position.



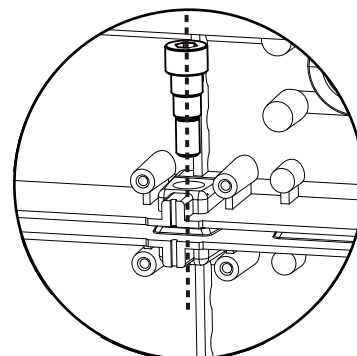
Step 3: When stacking two cabinets on top of each other, hold the cabinet at both side edges and slide it down vertically.



Step 4: Connect the cabinet screw after aligning the cabinet vertically.

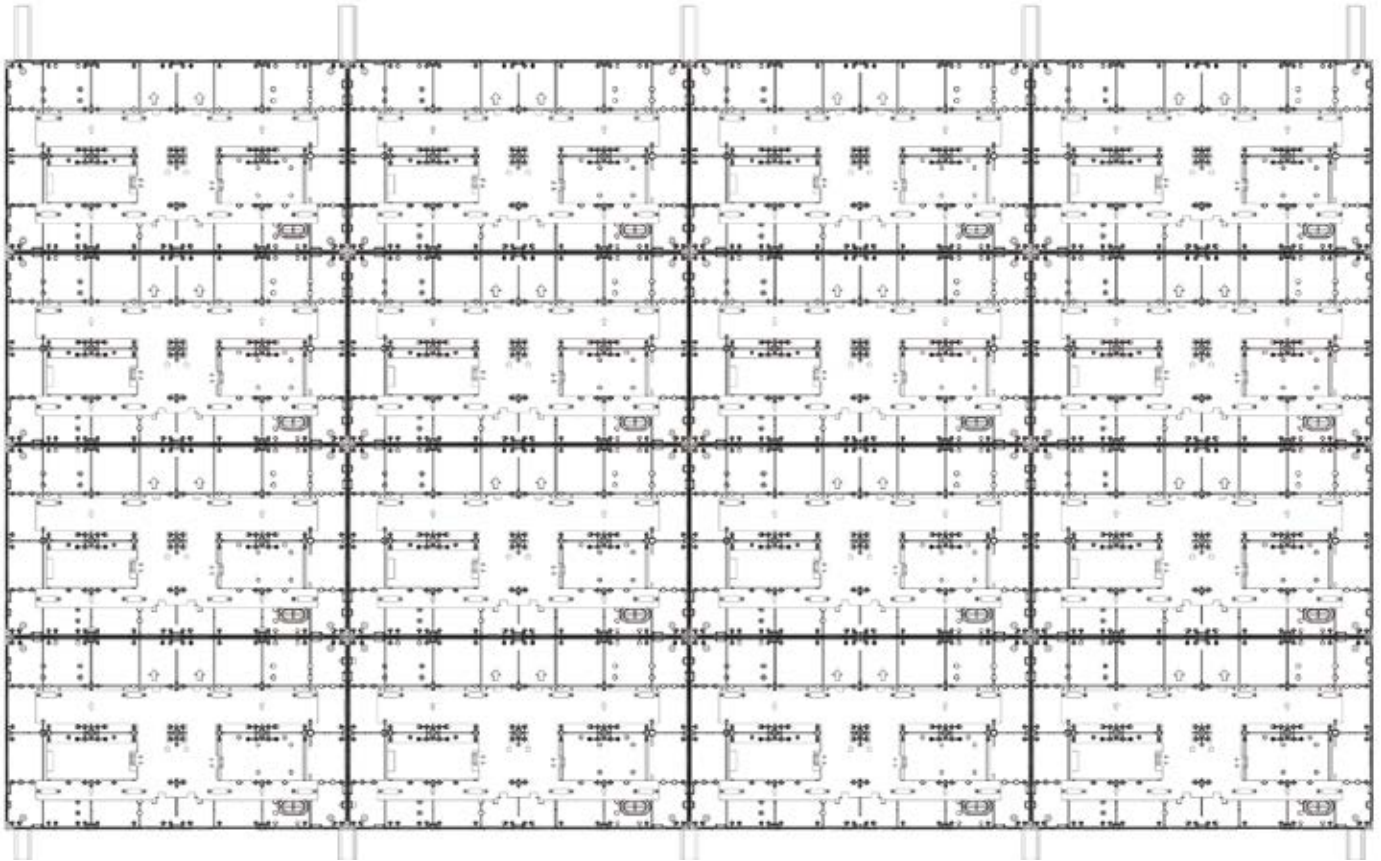


Cabinet Screw x2
(M6x22)



Step 5: Repeat the above steps until all cabinets are mounted onto the bracket.

Below is the example of 4x4 cabinets alignment.



3.2. Edge finishing set intallation

Warning:

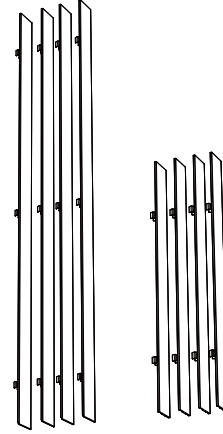
Do not confuse FEK2752 with EFK2750 or EFK2751, as the dimension of EFK2752 is 2mm longer than that of EFK2750 and EFK2751. Please avoid mixing for use.



Optional accessory
CTN: EFK2750



Optional accessory
CTN: EFK2751



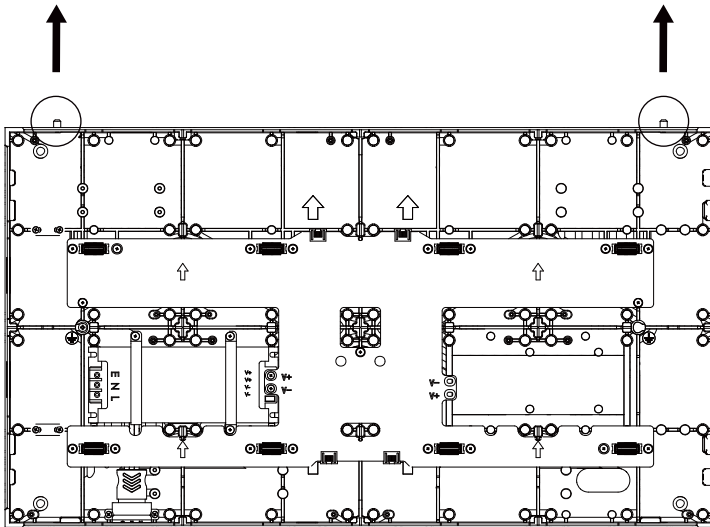
Optional accessory
CTN: EFK2752

* The Edge finishing sets are not included.

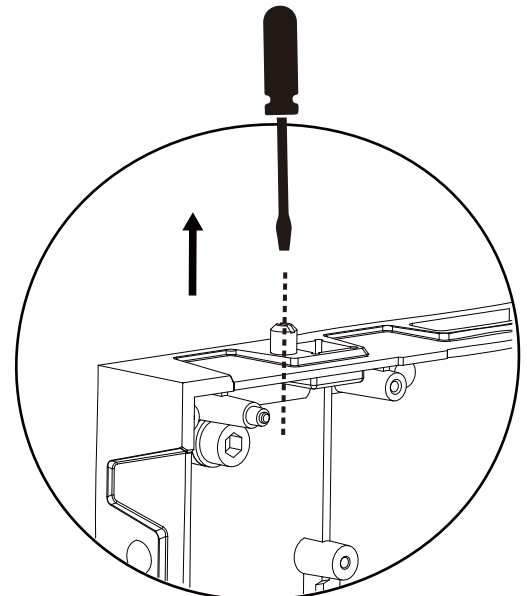
Optional Edge finishing:

| | |
|------------|---|
| EFK2750/00 | Edge Finish 27HDL5xxxIP H-panel length 2pcs |
| EFK2751/00 | Edge Finish 27HDL5xxxIP V-panel length 2pcs |
| EFK2752/00 | Edge Finish 27HDL5xxxIP Corner kit |

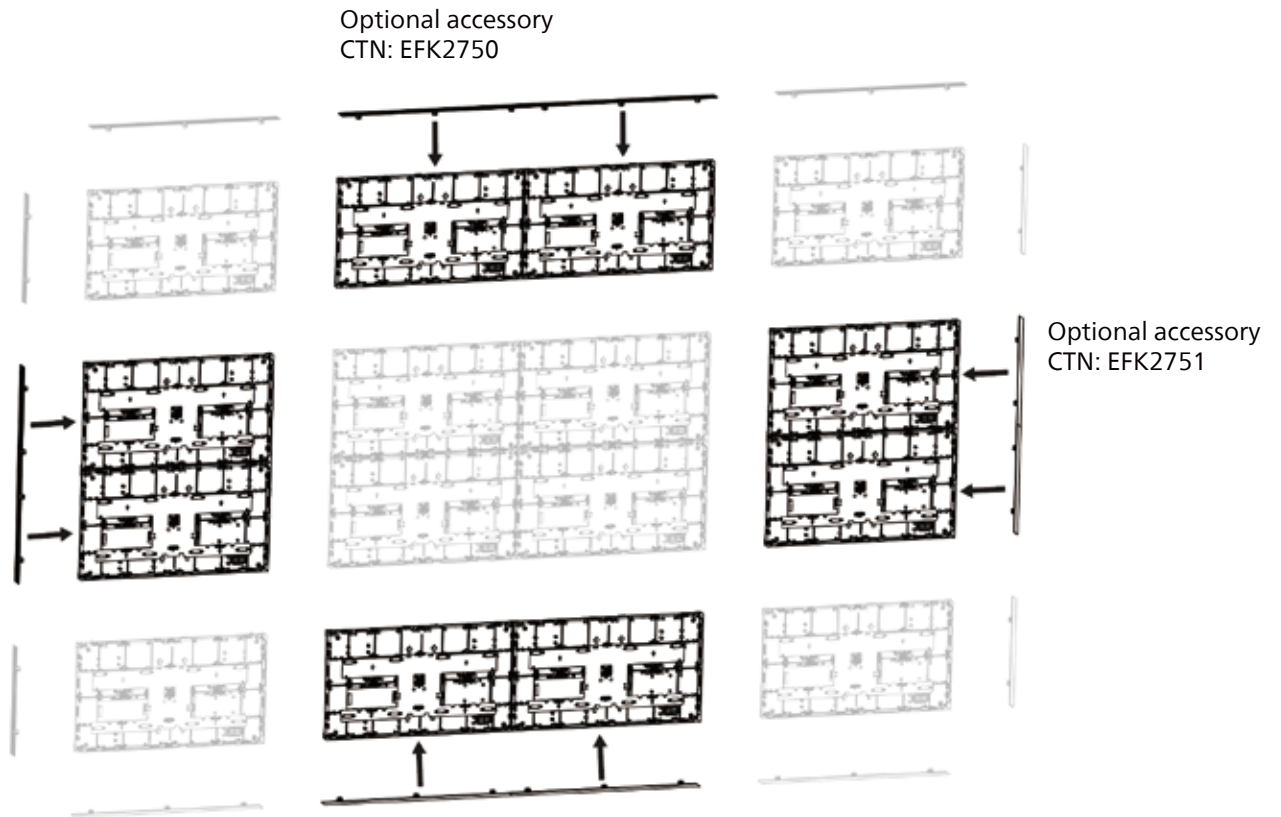
Step 1: Remove the alignment pins from the top row of cabinets.



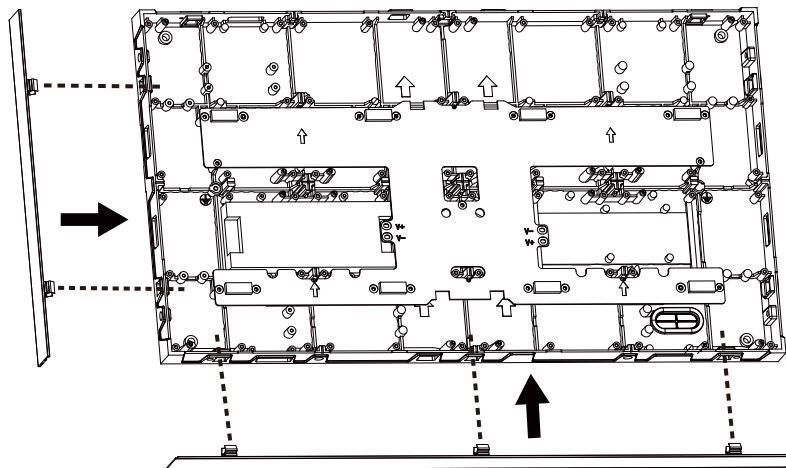
Flat screw driver



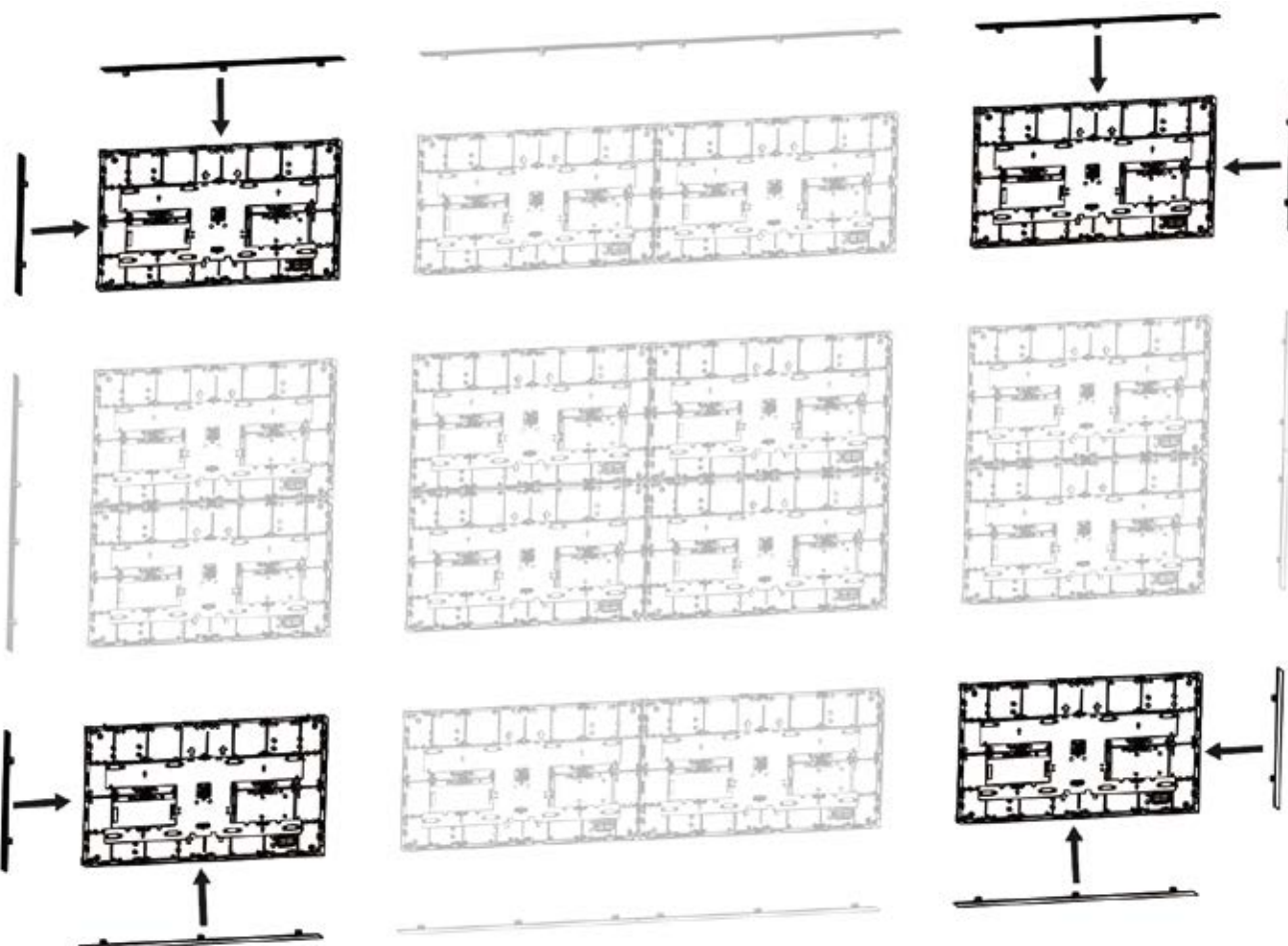
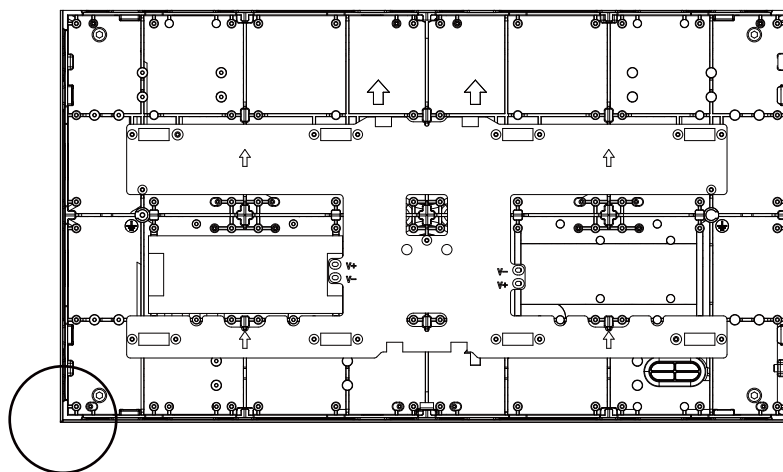
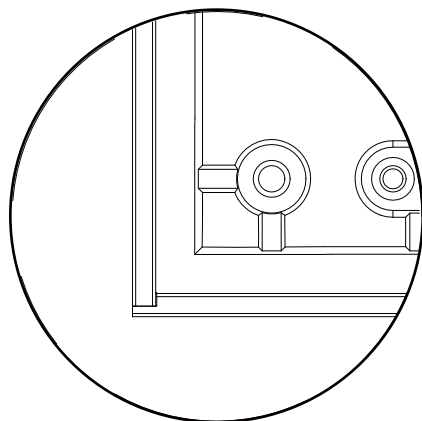
Step 2: Assembly EFK2750 and EFK2751 after all cabinets are mounted onto the bracket.



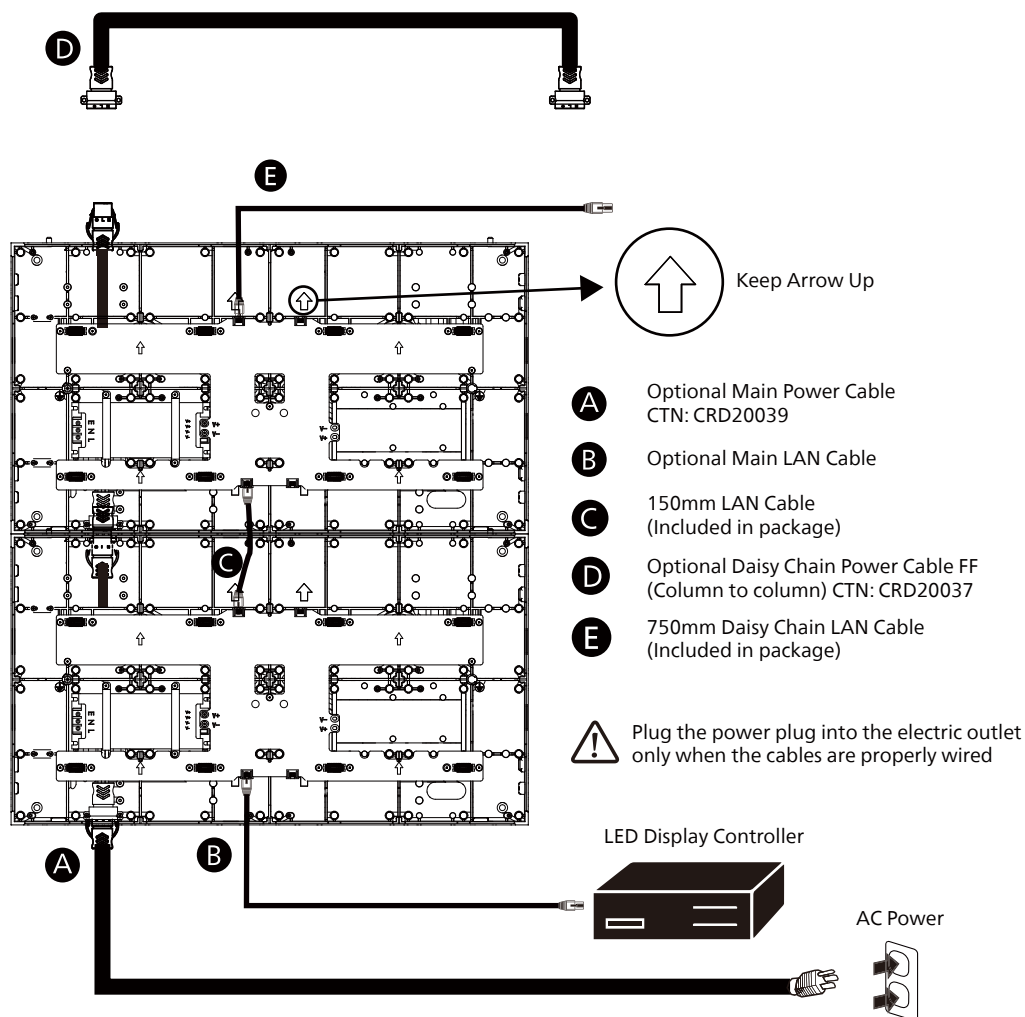
Step 3: Intall the EFK2752 on the conners.



Make sure the conner is fit well after installing EFK2752.



3.3. Connecting the signal and power cables



** Optional power cable. End power plug types vary by country/region.
Optional power cable:

| | |
|-------------|---|
| CRD20039/00 | Power cable/3M/3-pin 27HDL51xxIP EU 1pc |
| CRD20039/05 | Power cable/3M/3-pin 27HDL51xxIP UK 1pc |
| CRD20039/17 | Power cable/3M/3-pin 27HDL51xxIP US 1pc |
| CRD20038/00 | Pwr LT cable 90CM/27HDL51xxIP/BOTTOM/MM 1pc |
| CRD20037/00 | Pwr LT cable 90CM/27HDL51xxIP/TOP/FF 1pc |

Cautions:

Connection is allowed up to 8 cabinets when the 110 Volt AC power supply is used.

Connection is allowed up to 16 cabinets when the 220 Volt AC power supply is used.

Plug the power plug into the electric outlet only when the cables are properly wired.

Turn off the power of all devices first before connecting cables.

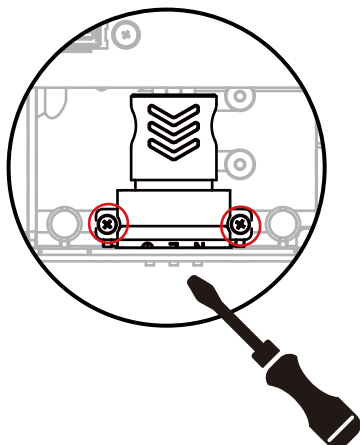
1. Connect the power cable from the "Power Out" port of the first cabinet to the "Power In" port of the second cabinet.
2. Connect the signal cable from the Data port of the first cabinet to Data port of the second cabinet for video signal transmission.
3. Connect the power cable from the "Power In" port of the first cabinet to the power outlet.
4. Connect one end of the data cable of the first cabinet to the LED display controller.
5. Repeating steps 2-3 enables the daisy chain connection.

Note:

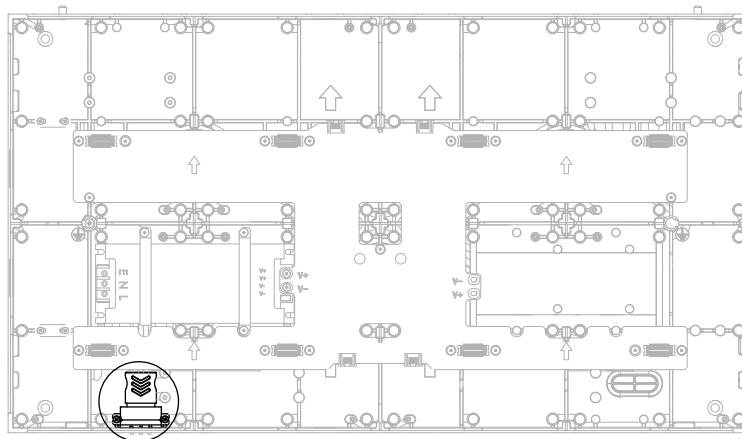
If you install the cabinet with Edge finishing, you will need to go through the main power cabinet and data cable from the back of cabinet.

- Using cross screw driver to remove the input terminal of the power cord in the lower left corner of the Cabinet.

* Just need to remove the power cord screw from the bottom row of cabinets, which is required to connect to the main power cable(CRD20039) and the Daisy Chain Power Cable MM(CRD20038) .

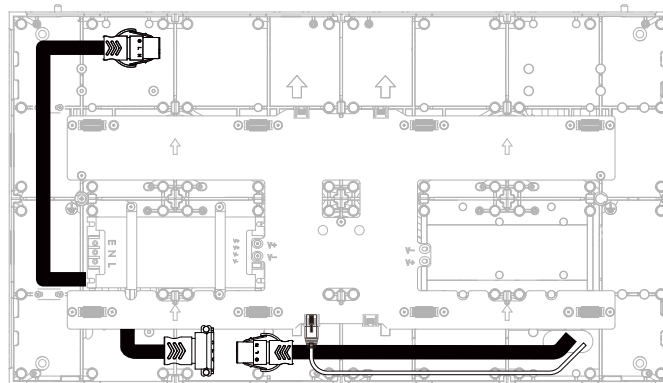
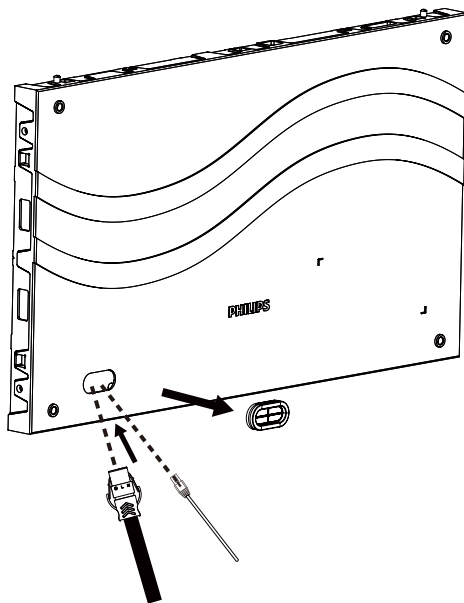


Cross screw driver

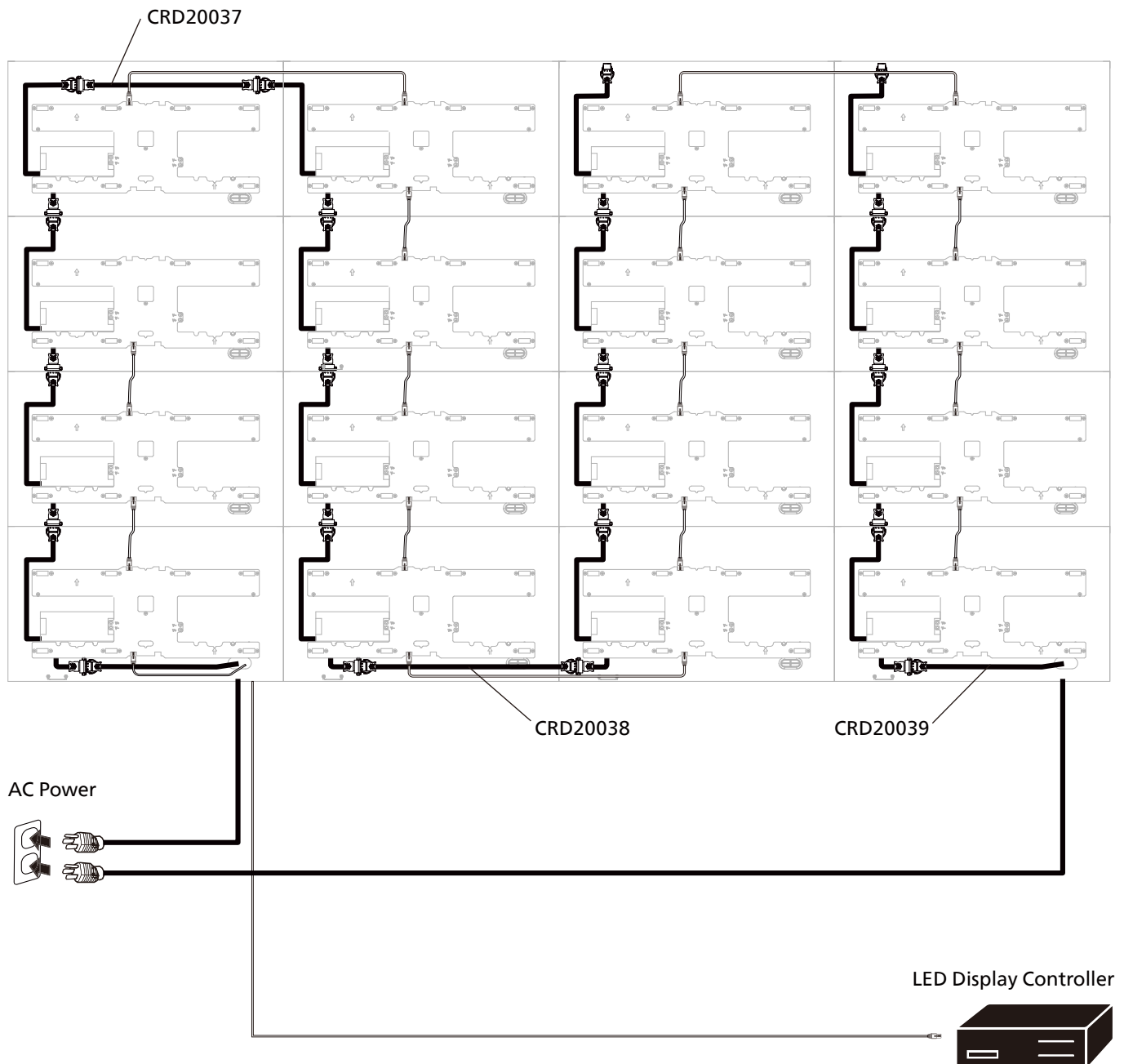


- Remove the silicon block and trough the main power cable and data cable from back to front by the wiring hole.

* Just need to remove silicon block from the first cabinet, which is required to connect to the main power cable(CRD20039).



3.4. Cabling overview



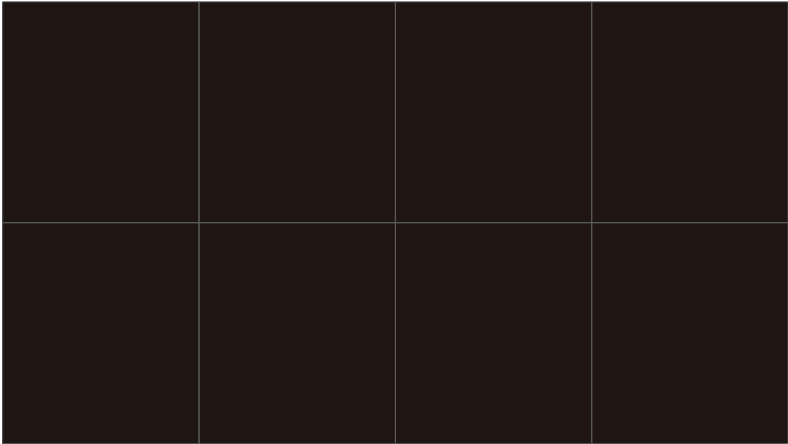
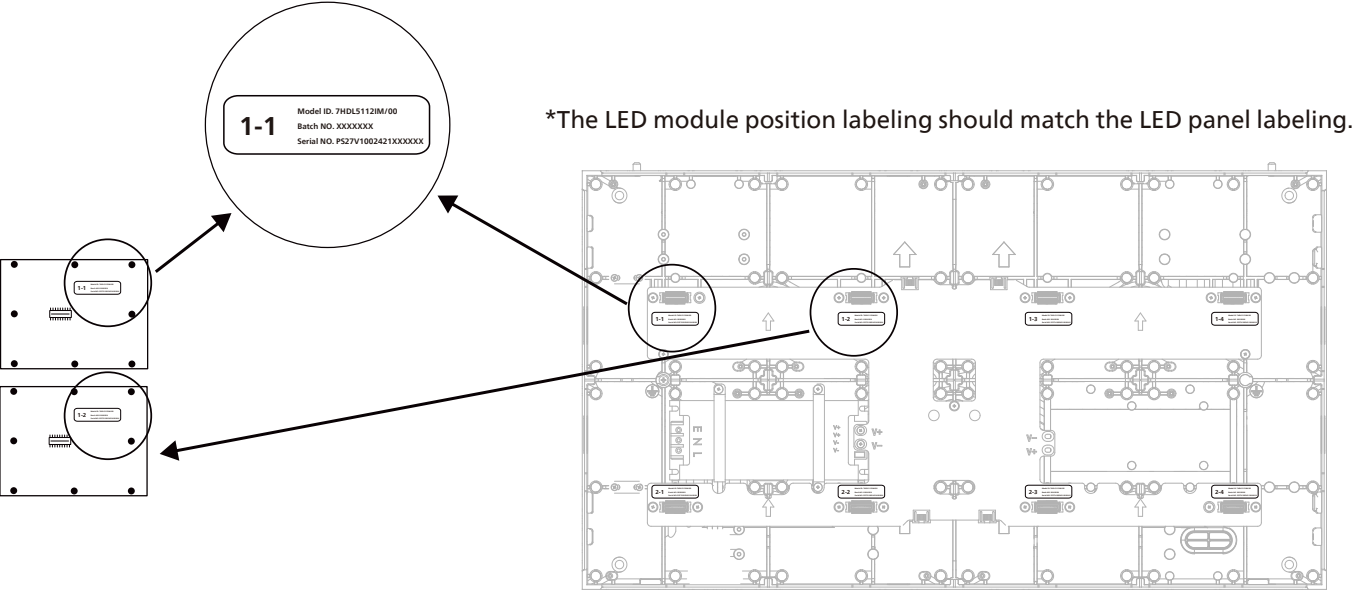
Note:

The cabling overview provided is base on the 27HDL5112IP and the use of 220 Volt AC power supply. For the 5100 series product, the cabling can be adjusted flexibly.

But have to follow the cabling limit:

1. Power cable Connection is allowed up to 8 cabinets when the 110 Volt AC power supply is used.
2. Power cable Connection is allowed up to 16 cabinets when the 220 Volt AC power supply is used.
3. Main data cable is max allowed to run 650,000 pixel pitch.

3.5. Module intallation



4. Technical Specification

LED Module

| Item | Specifications | | | | |
|---|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Model | 27HDL5178IP | 27HDL5193IP | 27HDL5112IP | 27HDL5115IP | 27HDL5118IP |
| Max. brightness(nits) | 550nits±50 | 550nits±50 | 550nits±50 | 550nits±50 | 550nits±50 |
| Color Temperature(K)default | 6500±500 | 6500±500 | 6500±500 | 6500±500 | 6500±500 |
| Brightness Uniformity | ≥97% | ≥97% | ≥97% | ≥97% | ≥97% |
| Pixel Pitch (mm) | 0.78 | 0.93 | 1.25 | 1.56 | 1.87 |
| Module Size (WxH in mm) | 150x168.75 | 150x168.75 | 150x168.75 | 150x168.75 | 150x168.75 |
| Module Resolution (WxH in pixels) | 192x216 | 160x180 | 120x135 | 96x108 | 80x90 |
| Bit-depth(bit) | 16bit | 13bit | 13bit | 13bit | 13bit |
| Scan rate | 64 | 54 | 60 | 54 | 45 |
| View angle | 160/160 | 160/160 | 160/160 | 160/160 | 160/160 |
| Color coordinates | 0.313,0.325 (±0.012Cx,Cy) | 0.313,0.325 (±0.012Cx,Cy) | 0.313,0.325 (±0.012Cx,Cy) | 0.313,0.325 (±0.012Cx,Cy) | 0.313,0.325 (±0.012Cx,Cy) |
| Frame Frequency | 50 & 60 | 50 & 60 | 50 & 60 | 50 & 60 | 50 & 60 |
| Refresh Rate(Hz) | 1920-3840 | 1920-3840 | 1920-3840 | 1920-3840 | 1920-3840 |
| Pixel monitoring | No | No | No | No | No |
| LED module back shell | No | No | No | No | No |
| Flatness of LED module without back shell | ≤0.1mm | ≤0.1mm | ≤0.1mm | ≤0.1mm | ≤0.1mm |
| LED Pole type | Cathode | Cathode | Cathode | Anode | Anode |
| | | | | | |

Power

| Item | Specifications | | | | |
|---|------------------------|-------|-------|-------|-------|
| Cabinet Max Power consumption (W) (BC) | <105 | <86 | <75 | <81 | <65 |
| Cabinet Max Power consumption (W) (AC) | <80 | <64 | <59 | <60 | <50 |
| Cabinet Typical Power consumption (W) | <40 | <45 | <30 | <40 | <30 |
| Power Consumption Cabinet black screen (W) | <32.6 | <38 | <21 | <22 | <21 |
| BTU/M2 (BC) | <1791 | <1406 | <1267 | <1326 | <1153 |
| BTU/M2 (AC) | <1365 | <1049 | <1036 | <982 | <972 |
| Data connector | RJ45 | RJ45 | RJ45 | RJ45 | RJ45 |
| Power connector | 3 pin | 3 pin | 3 pin | 3 pin | 3 pin |
| Input Voltage | AC100-240V (50 & 60Hz) | | | | |

5. Cleaning and Troubleshooting

5.1. Cleaning

Caution When Using the Display

- Do not bring your hands, face or objects close to the ventilation holes of the display. The top of the display is usually very hot due to the high temperature of exhaust air being released through the ventilation holes. Burns or personal injuries may occur if any body parts are brought too close. Placing any object near the top of the display could also result in heat related damage to the object as well as the display itself.
- Be sure to disconnect all cables before moving the monitor. Moving the monitor with its cables attached may damage the cables and thus cause fire or electric shock.
- Disconnect the power plug from the wall outlet as a safety precaution before carrying out any type of cleaning or maintenance procedure.

Front Panel Cleaning Instructions

- The front of the display has been specially treated. Wipe the surface gently using only a cleaning cloth or a soft, lint-free cloth.
- If the surface becomes dirty, soak a soft, lint-free cloth in a mild detergent solution. Wring the cloth to remove excess liquid. Wipe the surface of the display to remove dirt. Then use a dry cloth of the same type to dry.
- Do not scratch or hit the surface of the panel with fingers or hard objects of any kind.
- Do not use volatile substances such as insect sprays, solvents and thinners.

Cabinet Cleaning Instructions

- If the cabinet becomes dirty, wipe the cabinet with a soft, dry cloth.
- If the cabinet is extremely dirty, soak a lint-free cloth in a mild detergent solution. Wring the cloth to remove as much moisture as possible. Wipe the cabinet. Use another dry cloth to wipe over until the surface is dry.
- Do not use solution that contains oil to clean the plastic parts. Such product damage the plastic parts and void the warranty.
- Do not allow any water or detergent to come into contact with the surface of the display. If water or moisture gets inside the unit, operating problems, electrical and shock hazards may result.
- Do not scratch or hit the cabinet with fingers or hard objects of any kind.
- Do not use volatile substances such as insect sprays, solvents and thinners on the cabinet.
- Do not place anything made from rubber or PVC near the cabinet for any extended periods of time.

Clean your machine:

- If you find dirt on the glass surface during use, use a wet paper towel (to avoid dripping water) to wipe it once, and then wipe it with a dry towel (dry paper towel).

5.2. Troubleshooting

Frequently asked questions and common problems that may occur while using the system are explained in this section. Observe the following table containing a list of symptoms and the actions to take to solve the problems.

If a problem persists after performing the following actions, contact technical support.

| Symptom | Possible cause and corrective action |
|----------------------------|---|
| No picture is displayed | <ul style="list-style-type: none"> The power cable is disconnected. Re-connect the power cable. The signal cable is disconnected. Re-connect the signal cable. The main switch on the power distribution box is off. Make sure the power distribution box is switched on. The LED display controller is off. <ul style="list-style-type: none"> > Inspect whether the power connection is correct and the switch has been turned on. > Inspect whether the LED display controller output has signal and shows blank screen. > Check whether the mode and parameter of screen configuration are correct. > Check whether there is image input in input channel and whether it is correctly displayed. |
| The module is blinking | Check the cable connection between the cabinet and power distribution box, and ensure the connection is secure. |
| The module cannot light up | Check the cable connection between the cabinet and power distribution box, and ensure the connection is secure. |

- Do not bring your hands, face or objects close to the ventilation holes of the display. The top of the display is usually very hot due to the high temperature of exhaust air being released through the ventilation holes. Burns or personal injuries may occur if any body parts are brought too close. Placing any object near the top of the display could also result in heat related damage to the object as well as the display itself.

Warranty policy for Philips Professional Display Solutions

Thank you for purchasing this Philips product. Philips products are designed and manufactured with high standards and deliver high quality performance, ease of use and ease of installation. If you encounter any difficulties while using your product, we recommend that you first consult the user manual or the information in the support section of the website, where (depending on the product type) you may find a downloadable user manual, frequently asked questions, instruction videos or a support forum.

LIMITED WARRANTY

In the unlikely event the product requires service, we will arrange for your Philips product to be serviced free-of-charge within the warranty period, provided that the product was used in accordance with the user manual (e.g. in the intended environment).

For these product categories, a partner company of Philips is the warrantor of the product. Please check the documentation supplied with your product.

WHO IS COVERED?

Your Warranty coverage begins from the first date of purchase of the product. You need to provide proof of purchase to receive warranty service. A valid sales receipt or other valid document showing that you purchased the product is considered proof of purchase.

WHAT IS COVERED?

If any defect due to faulty materials and/or workmanship occurs within the warranty period, we will make arrangements for a free of charge service. Where a repair is not possible or not commercially viable, we may replace the product with a new or equivalent refurbished product with similar functionality. Replacement will be offered at our discretion and the warranty will continue from the date of original purchase of the first date of purchase of the product. Please note that all parts, including repaired and replaced parts, are covered only for the duration of the original warranty period.

WHAT IS EXCLUDED? Your warranty does not cover:

- Consequential damages (including but not limited to loss of data or loss of income), nor compensation for activities done by yourself, such as regular maintenance, installing firmware updates or saving or restoring data (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)
- Labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of various types of external devices (e.g., WiFi, antenna, USB dongles, OPS type devices) and other systems outside of the product.
- Reception problems caused by signal conditions or cable or antenna systems outside the unit.
- A product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- If the model or production number on the product has been altered, deleted, removed or made illegible.

The warranty applies on condition that the product has been handled properly for its intended use and in accordance with the operating instructions

To Obtain Warranty Service And Information

For detailed warranty coverage information and additional support requirement and help line, please contact the seller and/ or system integrator you purchased the product from. Please note in the USA, this limited warranty is only valid for Products purchased in the Continental United States, Alaska, and Hawaii.

Before Requesting Service

Please check your user’s manual before requesting service. Adjustments of the controls discussed there may save you a service call.

WARRANTY PERIOD

Warranty period for PHILIPS signage display is listed as below, for areas not covered in this table, please follow their warranty statement.

Standard warranty period for PHILIPS signage display is listed as below, for areas not covered in this table, please follow the local warranty statement.

| Region | Standard Warranty Period |
|---------------|--------------------------|
| USA, Canada | 3 years |
| China | 3 years |
| Japan | 3 years |
| Rest of world | 3 years |
| Mexico | 3 years |
| Brazil | 3 years |
| Chile | 3 years |
| Peru | 3 years |

Note that for professional products, the specific warranty terms of the sale- or purchase agreement may apply.



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Specifications are subject to change without notice.

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