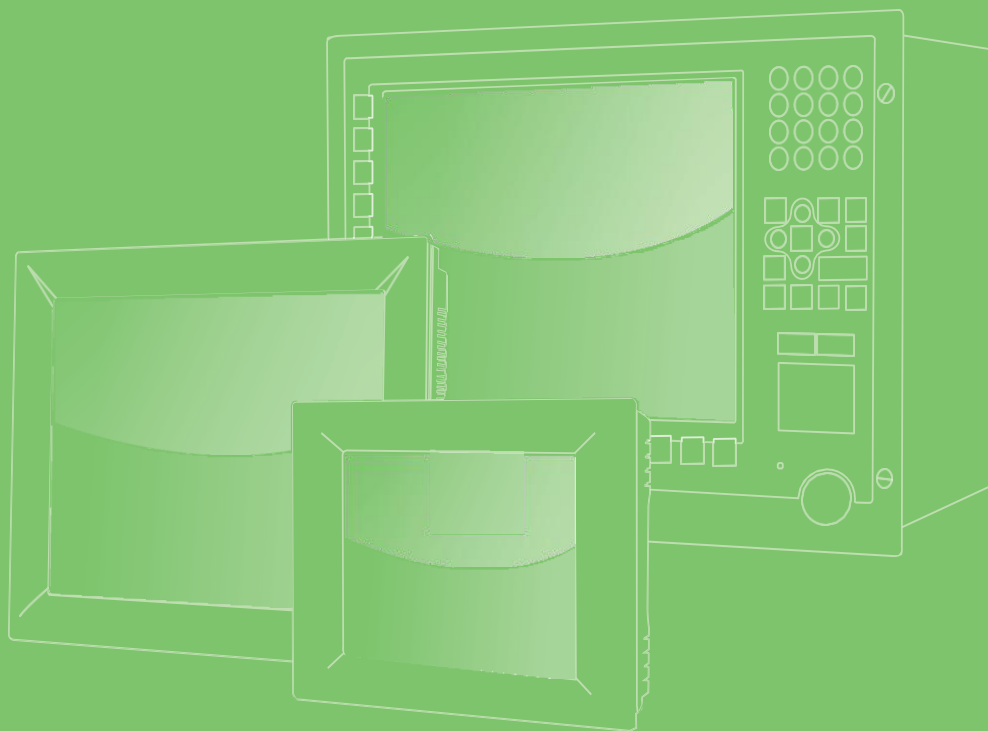


User Manual



FPM-300S Series:

FPM-312S

FPM-315S

FPM-315SW

FPM-321SW

**High Brightness Industrial Monitor
with P-CAP Touch control, Direct
HDMI, DP, VGA and Type-C Ports**

ADVANTECH

Enabling an Intelligent Planet

限用物質含有情況標示聲明書

Declaration of the Presence Condition of the Restricted Substances Marking

設備名稱： Equipment name		液晶顯示器		型號（型式）： Type designation (Type)		FPM-312S	
單元 Unit	限用物質及其化學符號 Restricted substances and its chemical symbols						
	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr+6)	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)	
電路板	—	○	○	○	○	○	
觸控面板	—	○	○	○	○	○	
內外殼 (外殼、內部 框架…等)	○	○	○	○	○	○	
其它固定組件 (螺絲)	○	○	○	○	○	○	
配件 (排線、傳輸 線、網路線… 等)	○	○	○	○	○	○	
備考 1. “超出 0.1 wt %” 及 “超出 0.01 wt %” 係指限用物質之百分比含量超出百分比含量基準值。 Note 1: Exceeding 0.1 wt % and "exceeding 0.01 wt %" indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition. 備考 2. “○” 係指該項限用物質之百分比含量未超出百分比含量基準值。 Note 2: "○" indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence. 備考 3. “—” 係指該項限用物質為排除項目。 Note 3: The "—" indicates that the restricted substance corresponds to the exemption.							

限用物質含有情況標示聲明書

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單元 Unit	限用物質及其化學符號 Restricted substances and its chemical symbols						
	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr+6)	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)	
電路板	—	○	○	○	○	○	
觸控面板	—	○	○	○	○	○	
內外殼 (外殼、內部 框架…等)	○	○	○	○	○	○	
其它固定組件 (螺絲)	—	○	○	○	○	○	
配件 (排線、傳輸 線、網路線… 等)	○	○	○	○	○	○	
備考 1. “超出 0.1 wt %” 及 “超出 0.01 wt %” 係指限用物質之百分比含量超出百分比含量基準值。 Note 1: Exceeding 0.1 wt % and "exceeding 0.01 wt %" indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition. 備考 2. “○” 係指該項限用物質之百分比含量未超出百分比含量基準值。 Note 2: "○" indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence. 備考 3. “—” 係指該項限用物質為排除項目。 Note 3: The "—" indicates that the restricted substance corresponds to the exemption.							

限用物質含有情況標示聲明書

Declaration of the Presence Condition of the Restricted Substances Marking

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電路板	—	○	○	○	○	○
觸控面板	—	○	○	○	○	○
內外殼 (外殼、內部 框架…等)	○	○	○	○	○	○
其它固定組件 (螺絲)	—	○	○	○	○	○
配件 (排線、傳輸 線、網路線… 等)	○	○	○	○	○	○
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設備名稱： Equipment name		液晶顯示器		型號（型式）： Type designation (Type)		FPM-321SW	
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電路板	—	○	○	○	○	○	
觸控面板	—	○	○	○	○	○	
內外殼 (外殼、內部 框架…等)	○	○	○	○	○	○	
其它固定組件 (螺絲)	○	○	○	○	○	○	
配件 (排線、傳輸 線、網路線… 等)	○	○	○	○	○	○	
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This Manual Covers the Following Models:

FPM-300S series

■ **FPM-312S-P5AE**

FPM312SP5A2601-T, FPM312SP5A2602-T, FPM312SP5A2603-T, FPM312SP5A2604-T, FPM312SP5A2605-T, FPM312SP5A2606-T, FPM312SP5A2701-T, FPM312SP5A2702-T, FPM312SP5A2703-T, FPM312SP5A2704-T, FPM312SP5A2705-T, FPM312SP5A2706-T, FPM312SP5A2801-T, FPM312SP5A2802-T, FPM312SP5A2803-T, FPM312SP5A2804-T, FPM312SP5A2805-T, FPM312SP5A2806-T, FPM312SP5A2901-T, FPM312SP5A2902-T, FPM312SP5A2903-T, FPM312SP5A2904-T, FPM312SP5A2905-T, FPM312SP5A2906-T, FPM312SP5A3001-T, FPM312SP5A3002-T, FPM312SP5A3003-T, FPM312SP5A3004-T, FPM312SP5A3005-T, FPM312SP5A3006-T, FPM312SP5A3101-T, FPM312SP5A3102-T, FPM312SP5A3103-T, FPM312SP5A3104-T, FPM312SP5A3105-T, FPM312SP5A3106-T, FPM312SP5A3201-T, FPM312SP5A3202-T, FPM312SP5A3203-T, FPM312SP5A3204-T, FPM312SP5A3205-T, FPM312SP5A3206-T

■ **FPM-315S-P5AE**

FPM315SP5A2601-T, FPM315SP5A2602-T, FPM315SP5A2603-T, FPM315SP5A2604-T, FPM315SP5A2605-T, FPM315SP5A2606-T, FPM315SP5A2701-T, FPM315SP5A2702-T, FPM315SP5A2703-T, FPM315SP5A2704-T, FPM315SP5A2705-T, FPM315SP5A2706-T, FPM315SP5A2801-T, FPM315SP5A2802-T, FPM315SP5A2803-T, FPM315SP5A2804-T, FPM315SP5A2805-T, FPM315SP5A2806-T, FPM315SP5A2901-T, FPM315SP5A2902-T, FPM315SP5A2903-T, FPM315SP5A2904-T, FPM315SP5A2905-T, FPM315SP5A2906-T, FPM315SP5A3001-T, FPM315SP5A3002-T, FPM315SP5A3003-T, FPM315SP5A3004-T, FPM315SP5A3005-T, FPM315SP5A3006-T, FPM315SP5A3101-T, FPM315SP5A3102-T, FPM315SP5A3103-T, FPM315SP5A3104-T, FPM315SP5A3105-T, FPM315SP5A3106-T, FPM315SP5A3201-T, FPM315SP5A3202-T, FPM315SP5A3203-T, FPM315SP5A3204-T, FPM315SP5A3205-T, FPM315SP5A3206-T

■ **FPM-315SW-P5AE**

FPM315SWP5A2601-T, FPM315SWP5A2602-T, FPM315SWP5A2603-T, FPM315SWP5A2604-T, FPM315SWP5A2605-T, FPM315SWP5A2606-T, FPM315SWP5A2701-T, FPM315SWP5A2702-T, FPM315SWP5A2703-T, FPM315SWP5A2704-T, FPM315SWP5A2705-T, FPM315SWP5A2706-T,

FPM315SWP5A2801-T, FPM315SWP5A2802-T, FPM315SWP5A2803-T,
FPM315SWP5A2804-T, FPM315SWP5A2805-T, FPM315SWP5A2806-T,
FPM315SWP5A2901-T, FPM315SWP5A2902-T, FPM315SWP5A2903-T,
FPM315SWP5A2904-T, FPM315SWP5A2905-T, FPM315SWP5A2906-T,
FPM315SWP5A3001-T, FPM315SWP5A3002-T, FPM315SWP5A3003-T,
FPM315SWP5A3004-T, FPM315SWP5A3005-T, FPM315SWP5A3006-T,
FPM315SWP5A3101-T, FPM315SWP5A3102-T, FPM315SWP5A3103-T,
FPM315SWP5A3104-T, FPM315SWP5A3105-T, FPM315SWP5A3106-T,
FPM315SWP5A3201-T, FPM315SWP5A3202-T, FPM315SWP5A3203-T,
FPM315SWP5A3204-T, FPM315SWP5A3205-T, FPM315SWP5A3206-T

■ **FPM-321SW-P5AE**

FPM321SWP5A2601-T, FPM321SWP5A2602-T, FPM321SWP5A2603-T,
FPM321SWP5A2604-T, FPM321SWP5A2605-T, FPM321SWP5A2606-T,
FPM321SWP5A2701-T, FPM321SWP5A2702-T, FPM321SWP5A2703-T,
FPM321SWP5A2704-T, FPM321SWP5A2705-T, FPM321SWP5A2706-T,
FPM321SWP5A2801-T, FPM321SWP5A2802-T, FPM321SWP5A2803-T,
FPM321SWP5A2804-T, FPM321SWP5A2805-T, FPM321SWP5A2806-T,
FPM321SWP5A2901-T, FPM321SWP5A2902-T, FPM321SWP5A2903-T,
FPM321SWP5A2904-T, FPM321SWP5A2905-T, FPM321SWP5A2906-T,
FPM321SWP5A3001-T, FPM321SWP5A3002-T, FPM321SWP5A3003-T,
FPM321SWP5A3004-T, FPM321SWP5A3005-T, FPM321SWP5A3006-T,
FPM321SWP5A3101-T, FPM321SWP5A3102-T, FPM321SWP5A3103-T,
FPM321SWP5A3104-T, FPM321SWP5A3105-T, FPM321SWP5A3106-T,
FPM321SWP5A3201-T, FPM321SWP5A3202-T, FPM321SWP5A3203-T,
FPM321SWP5A3204-T, FPM321SWP5A3205-T, FPM321SWP5A3206-T

Product Warranty (2 years)

Advantech warrants to you, the original purchaser, that each of its products will be free from defects in materials and workmanship for two years from the date of purchase.

This warranty does not apply to any products which have been repaired or altered by persons other than repair personnel authorized by Advantech, or which have been subject to misuse, abuse, accident or improper installation. Advantech assumes no liability under the terms of this warranty as a consequence of such events.

Because of Advantech's high quality-control standards and rigorous testing, most of our customers never need to use our repair service. If an Advantech product is defective, it will be repaired or replaced at no charge during the warranty period. For out-of-warranty repairs, you will be billed according to the cost of replacement materials, service time and freight. Please consult your dealer for more details.

If you think you have a defective product, follow these steps:

1. Collect all the information about the problem encountered. (For example, CPU speed, Advantech products used, other hardware and software used, etc.) Note anything abnormal and list any onscreen messages you get when the problem occurs.
2. Call your dealer and describe the problem. Please have your manual, product, and any helpful information readily available.
3. If your product is diagnosed as defective, obtain an RMA (return merchandise authorization) number from your dealer. This allows us to process your return more quickly.
4. Carefully pack the defective product, a fully-completed Repair and Replacement Order Card and a photocopy proof of purchase date (such as your sales receipt) in a shippable container. A product returned without proof of the purchase date is not eligible for warranty service.
5. Write the RMA number visibly on the outside of the package and ship it prepaid to your dealer.

Declaration of Conformity

CE

This product has passed the CE test for environmental specifications when shielded cables are used for external wiring. We recommend the use of shielded cables. This kind of cable is available from Advantech. Please contact your local supplier for ordering information.

FCC Class A

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.

Technical Support and Assistance

1. Visit the Advantech web site at www.advantech.com/support to obtain the latest product information.
2. Contact your distributor, sales representative, or Advantech's customer service center for technical support if you need additional assistance. Please have the following information ready before calling:
 - Product name and serial number
 - Description of your peripheral attachments
 - Description of your software (operating system, version, application software, etc.)
 - A complete description of the problem
 - The exact wording of any error messages

Safety Instructions

1. Read these safety instructions carefully.
2. Keep this User Manual for later reference.
3. Disconnect this equipment from any AC outlet before cleaning. Use only a damp cloth. Do not use liquid or spray detergents for cleaning.
4. For pluggable equipment, the power outlet socket must be located near the equipment and easily accessible.
5. Protect the equipment from humidity.
6. Place the equipment on a reliable surface during installation. Dropping or letting the equipment fall may cause damage.
7. The openings on the enclosure are for air convection. Protect the equipment from overheating. Do not cover the openings.
8. Ensure that the voltage of the power source is correct before connecting the equipment to a power outlet.
9. Position the power cord away from high-traffic areas. Do not place anything over the power cord.
10. All cautions and warnings on the equipment should be noted.
11. If the equipment is not used for a long time, disconnect it from the power source to avoid damage from transient overvoltage.
12. Never pour liquid into an opening. This may cause fire or electrical shock.
13. Never open the equipment. For safety reasons, the equipment must be installed and removed by a trained skilled person.
14. If any of the following occurs, have the equipment checked by service personnel:
 - The power cord or plug is damaged.
 - Liquid has penetrated the equipment.
 - The equipment has been exposed to moisture.
 - The equipment is malfunctioning, or does not operate according to the user manual.
 - The equipment has been dropped and damaged.
 - The equipment shows obvious signs of breakage.
15. Do not leave the equipment in an environment with a storage temperature of below -30°C (-22°F) or above 80°C (176°F) as this may damage the components. The equipment should be kept in a controlled environment.
16. In accordance with IEC 704-1:1982 specifications, the sound pressure level at the operator's position does not exceed 70 dB (A).
17. The power cord should be connected to a socket-outlet with earthing connection.

18. The earth terminal shall use 18 AWG minimum size with a green-and-yellow conductor to connect to the earth.

DISCLAIMER: These instructions are provided according to IEC 704-1 standards. Advantech disclaims all responsibility for the accuracy of any statements contained herein.

Note! *This product is intended to be supplied by a UL-listed power supply suitable for use at Tma 70°C min., altitude operation up to 2000m, whose output meets PS2 (or LPS), ES1 (or SELV) and output is rated: 24Vdc, 2.5A.*



If you need further assistance, please contact Advantech for further information.

Warning! *This product may cause radio interference if the customer uses DC power. Please be prepared for this.*



Warning! *The customer should use one of the power adapters listed on the product datasheet. Using a power adapter not listed on the product datasheet may cause radio interference.*



Warning! *Avoid exposing FPM-300S to direct sunlight for long periods of time. Direct sunlight hitting the LCD screen can cause it to become very hot. This may damage the LCD as the components are not designed to tolerate high heat.*



1. The power outlet socket should have a grounded connection. This is achieved using a power cord connected to a grounded socket-outlet.
2. The EUT only operates in landscape mode (horizontal 0°).

Consignes de Sécurité

1. Lire attentivement les instructions de sécurité.
2. Conserver ce manuel pour utilisation ultérieure.
3. Débranchez cet équipement de toute prise secteur avant de le nettoyer. Utilisez seulement un chiffon humide. N'utilisez pas de détergent liquide ou pulvérisé pour le nettoyage.
4. Gardez cet équipement à l'abri de l'humidité.
5. Placez cet équipement sur une surface fiable pendant l'installation. Le faire ou bien le laisser tomber peut causer des dégâts.
6. Les ouvertures sur l'enceinte servent à la convection de l'air. Protégez l'équipement contre la surchauffe. NE COUVREZ PAS LES OUVERTURES.
7. Assurez-vous que la tension de la source d'alimentation est correcte avant de connecter l'équipement à l'alimentation.
8. Placez le câble d'alimentation de manière à ce que personne ne puisse marcher dessus. Ne placez rien sur le câble d'alimentation.
9. Toutes les mises en garde et tous les avertissements sur l'équipement doivent être notés.
10. Si l'équipement n'est pas utilisé pendant une longue période, débranchez-le de la source d'alimentation pour éviter tout endommagement dû à une surtension transitoire.

11. Ne jamais verser de liquide dans une ouverture. Cela pourrait provoquer un incendie ou un choc électrique.
12. N'ouvrez jamais l'équipement. Pour des raisons de sécurité, l'équipement doit être ouvert uniquement par du personnel qualifié.
13. Si l'une des situations suivantes se présente, faites vérifier l'équipement par le personnel de service:
 - Un liquide a pénétré dans l'équipement.
 - L'équipement a été exposé à l'humidité.
 - L'équipement ne fonctionne pas bien, ou vous ne pouvez pas le faire fonctionner selon le manuel de l'utilisateur.
 - L'équipement est tombé et endommagé.
 - L'équipement présente des signes évidents de rupture.
14. NE LAISSEZ PAS CET ÉQUIPEMENT DANS UN ENVIRONNEMENT OU LA TEMPÉRATURE DE STOCKAGE PEUT ÊTRE INFÉRIEURE À -30°C (-22°F) OU BIEN SUPÉRIEURE À 80°C (176°F). CECI POURRAIT ENDOMMAGER L'EQUIPEMENT. L'ÉQUIPEMENT DEVRAIT ÊTRE DANS UN ENVIRONNEMENT CONTRÔLÉ.
15. ATTENTION: DANGER D'EXPLOSION SI LA BATTERIE EST INCORRECTEMENT REMPLACÉE. REMPLACER SEULEMENT AVEC LE MÊME TYPE OU ÉQUIVALENT RECOMMANDÉ PAR LE FABRICANT, JETER LES BATTERIES USÉES SELON LES INSTRUCTIONS DU FABRICANT. VEUILLEZ CONTACTER LE FABRICANT, ADVANTECH, POUR LE REMPLACER.
16. Le personnel concerné doit savoir qu'il ne faut pas heurter la section d'angle de l'appareil afin d'éviter tout risque de blessure.
17. La borne de terre doit être utilisée avec une taille minimale de 18 AWG et un conducteur vert et jaune pour se connecter à la terre.

Remarque! Ce produit est destiné à être alimenté par une alimentation certifiée UL, adaptée à une utilisation à une température ambiante minimale (T_{ma}) de 70 °C et jusqu'à une altitude de 2000 m, dont la sortie est conforme aux exigences PS2 (ou LPS), ES1 (ou SELV) et dont les caractéristiques nominales de sortie sont : 24 V c.c., 2,5 A.



Si vous avez besoin d'aide supplémentaire, veuillez contacter Advantech pour plus d'informations.

Attention! Si l'utilisateur client utilise exclusivement l'alimentation en courant continu pour ce produit, il peut provoquer des interférences radio, auquel cas, le client doit prendre les mesures appropriées.



Attention! Si le client doit utiliser un adaptateur secteur, veuillez utiliser l'adaptateur secteur figurant sur la fiche technique du produit. Si le client utilise un adaptateur secteur non répertorié dans la fiche technique du produit, il peut provoquer des interférences radio, auquel cas il doit prendre les mesures appropriées.



Attention! Évitez d'exposer le FPM-300S à la lumière directe du soleil pendant de longues périodes. Les rayons directs du soleil sur un écran LCD peuvent devenir très chauds et endommager physiquement l'écran car les composants ne sont pas conçus pour tolérer une chaleur intense, ce qui raccourcit la durée de vie de l'écran.



安全指示

1. 請仔細閱讀此安全操作說明。
2. 請妥善保存此用戶手冊供日後參考。
3. 用濕抹布清洗設備前，請從插座拔下電源線。請不要使用液體或去汙噴霧劑清洗設備。
4. 對於使用電源線的設備，設備周圍必須有容易接觸到的電源插座。
5. 請不要在潮濕環境中使用設備。
6. 請在安裝前確保設備放置在可靠的平面上，意外跌落可能會導致設備損壞。
7. 設備外殼的開口是用於空氣對流，從而防止設備過熱。請不要覆蓋這些開口。
8. 當您連接設備到電源插座上，請確認電源插座的電壓是否符合要求。
9. 請將電源線佈置在人們不易絆到的位置，並不要在電源線上覆蓋任何雜物。
10. 請注意設備上的所有警告和注意標示。
11. 如果長時間不使用設備，請將其同電源插座斷開，避免設備被超標的電壓波動損壞。
12. 請勿讓任何液體流入通風口，以免引起火災或者短路。
13. 請勿自行打開設備。為了確保您的安全，請透過經認證的工程師來打開設備。
14. 如遇下列情況，請由專業人員來維修：
 - 電源線或者插頭損壞；
 - 設備內部有液體流入；
 - 設備曾暴露在過於潮濕的環境中使用；
 - 設備無法正常工作，或您無法通過用戶手冊來使其正常工作；
 - 設備跌落或者損壞；
 - 設備有明顯的外觀破損。
15. 請勿將設備放置在超出建議溫度範圍的環境，即不要低於 -30°C (-22°F) 或高於 80°C (176°F)，否則可能會損壞設備。
16. 注意：若電池更換不正確，將有爆炸的危險。因此，只可以使用製造商推薦的同一種或者同等型號的電池進行替換。請按照製造商的指示處理舊電池。
17. 根據 IEC 704-1:1982 的規定，操作員所在位置的音量不可高於 70 分貝。
18. 限制區域：請勿將設備安裝於限制區域使用。
19. 免責聲明：該安全指示符合 IEC 704-1 的要求。研華公司對其內容的準確性不承擔任何法律責任。

警告使用者：

1. 使用過度恐傷害視力。
2. 使用 30 分鐘請休息 10 分鐘。
3. 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。
4. [甲類警語]

警告使用者：為避免電磁干擾，本產品不應安裝或使用於住宅環境。

警告!



如果客戶自行為本產品使用直流電源供電，可能會造成無線電干擾，在這種情況下，客戶必須採取適當的措施

警告!



如果客戶需要使用電源適配器，請使用產品數據表中列出的電源適配器。如果客戶使用產品數據表中未列出的電源適配器，可能會造成無線電干擾，在這種情況下，客戶必須採取適當的措施

警告!



請避免將 FPM-300S 長時間暴露在直射陽光下。直射陽光照射到 LCD 屏幕上會導致 LCD 變得非常熱並對 LCD 造成物理損壞，因為這些組件的設計不能承受高溫，從而縮短了 LCD 的使用壽命

液晶顯示器

製造商: 研華股份有限公司

地址: 台北市內湖區陽光街 26 巷 20 弄 1 號

電話: 02-27927818

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Chapter 1

General Information

Sections include:

- Introduction
- Specifications
- LCD Specifications
- Connectors
- Dimensions

1.1 Introduction

The FPM-300S series is an industrial-grade widescreen monitor with a sleek design and anti-UV coated touchscreen. Featuring P-CAP multi-touch, an IP66-rated front bezel, and single-cable USB Type-C connectivity, it is ideal for factory and machine automation applications.

1.2 Specifications

1.2.1 General

Table 1.1: General	
Specifications	FPM-300S
Construction	Die-cast aluminum
Front Panel	Die-cast aluminum – IP66
Video Port	HDMI, DP, VGA, and Type-C
FPM-312S Dimensions	(W x H x D) 295.3 x 233.8 x 37.5 mm
FPM-315S Dimensions	(W x H x D) 359.5 x 283.5 x 49.8 mm
FPM-315SW Dimensions	(W x H x D) 395.7 x 245.1 x 49.8 mm
FPM-321SW Dimensions	(W x H x D) 529.6 x 321.3 x 54.8 mm
Weight (Net)	FPM-312S: 3.6 kg (7.94 lb) FPM-315S: 4.8 kg (10.58 lb) FPM-315SW: 5.5 kg (12.13 lb) FPM-321SW: 7.5 kg (16.53 lb)
Operating Temperature	-20~70 °C (-4 ~ 158 °F)
Storage Temperature	-30 ~ 80 °C (-22 ~ 176 °F)
Relative Humidity	Operating: 95% RH @ 40 °C, non-condensing Non-operating: 95% RH @ 60 °C, non-condensing

1.2.2 Touchscreen

Table 1.2: Touchscreen	
Type	FPM-300S
Interface	USB Type-C
OS Support	Windows® 7, 8, 10,11, XPe, CE and Linux
Hardness	FPM-312S/FPM-315S: 6H FPM-315SW/FPM-321SW: >6 Mohs
Multi Touch	10 points, USB interface in Win 7/8/10/11, Linux

1.3 LCD Specifications

Table 1.3: LCD Specifications				
Display Size	12.1"	15"	15.6"	21.5"
Display Type	XGA TFT LED	XGA TFT LED	Full HD TFT LED	Full HD TFT LED
Resolution	1024 x 768	1024 x 768	1920 x 1080	1920 x 1080
Max. Color	16.7M	16.7M	16.7M	16.7M
Viewing Angle (H/V°)	178/178	176/176	178/178	178/178
Luminance (cd/m²)	1,000	1,800	1,200	1,400
Backlight (hrs)	50,000	50,000	50,000	50,000
Contrast Ratio	1000:1	2500:1	800:1	1000:1

1.4 Connectors

The following connectors are situated on the bottom side of the FPM:

- **DisplayPort**
This port provides digital video input via a standard DisplayPort connector for connection to a DisplayPort-compatible host system.
- **HDMI port**
This port provides digital video input via a standard HDMI connector for connection to an HDMI-compatible host system.
- **VGA port (DB-15)**
This port provides analog video input through a 15-pin DB-15 connector. It is intended for connection to VGA-compatible monitors or display devices.
- **Type-C port**
This port features a USB Type-C connector for video and data transmission. It allows connection to compatible devices using a USB Type-C cable.
- **USB 2.0 port**
This port provides a standard USB Type-A connector for connecting USB 2.0 devices such as a keyboard, mouse, or external storage device.
- **DC 12-24 V power input connector**
This connector must be connected to a DC 12-24 V power supply.

1.5 Interfaces

The following figures show the I/O arrangement of each model of the FPM-300S.

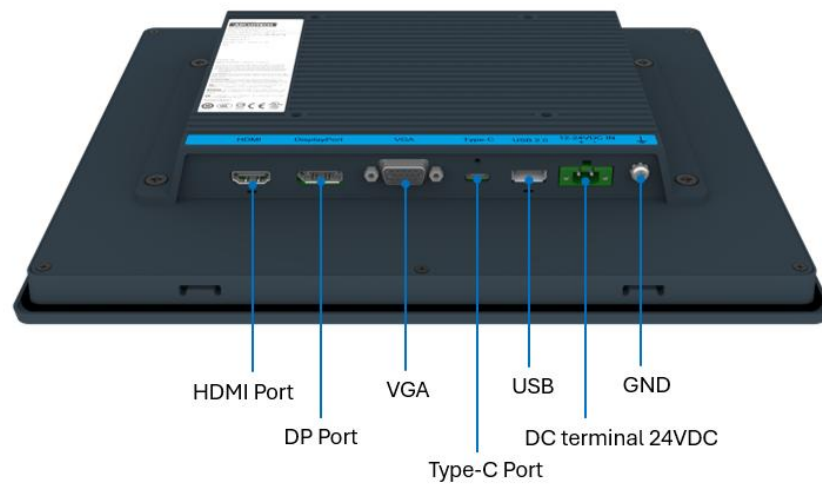


Figure 1.1 I/O Arrangement - FPM-312S and FPM-315S

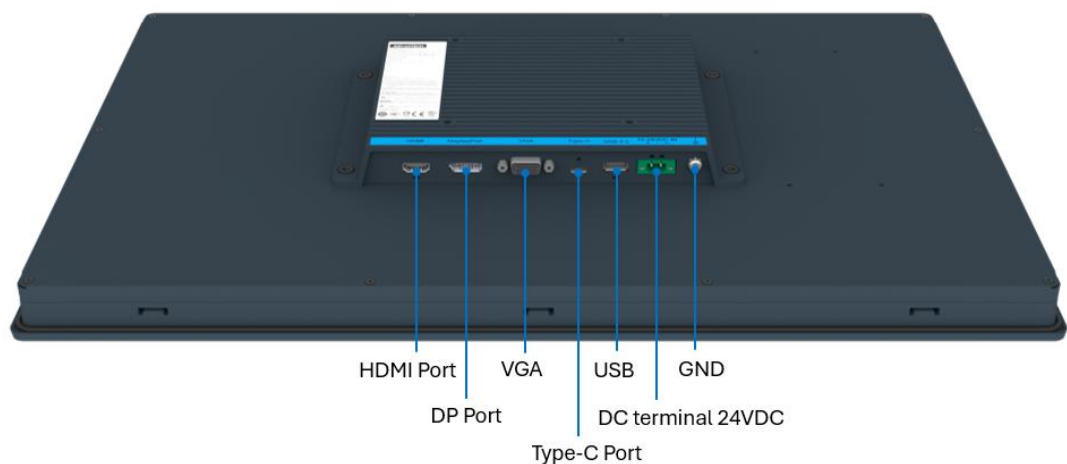
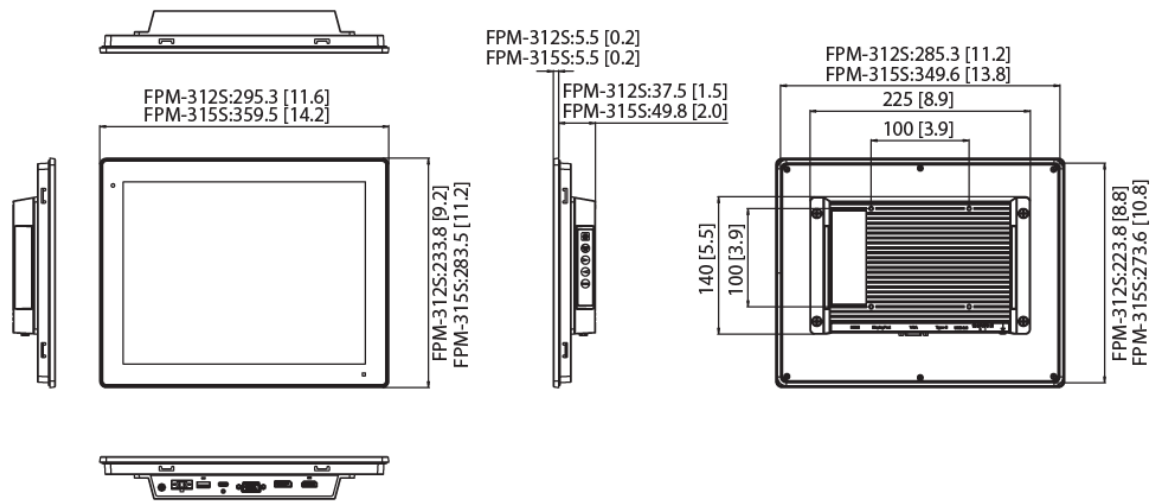


Figure 1.2 I/O Arrangement - FPM-315SW and FPM-321SW

1.6 Dimensions



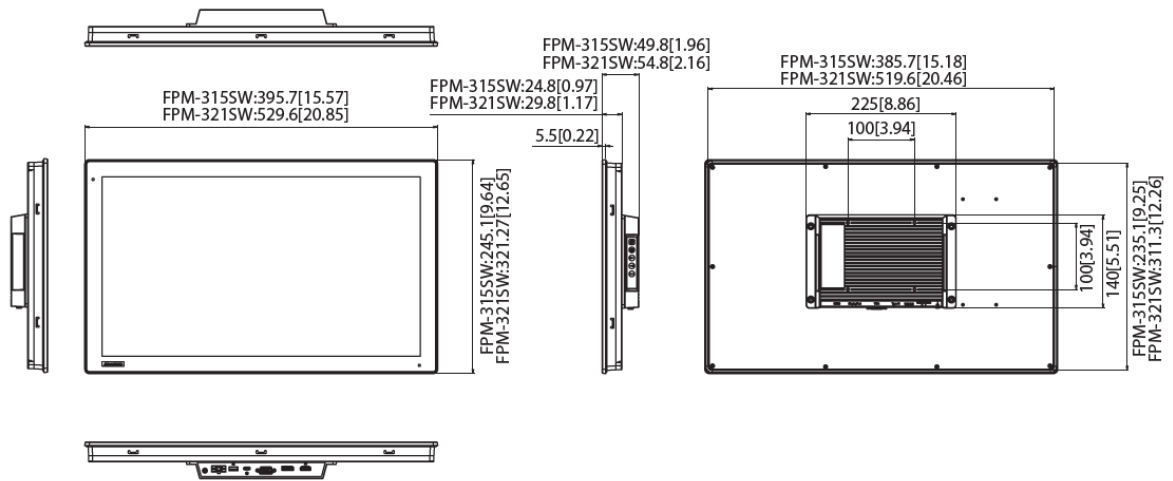
Unit: mm

Panel Cutout Dimensions:

FPM-312S: 286.2-0.4 x 224.7-0.4 mm (11.27 x 8.85 in)

FPM-315S: 350.7-0.4 x 274.7-0.4 mm (13.81 x 10.82 in)

Figure 1.3 FPM-312S/315S Dimensions



Unit: mm

Panel Cutout Dimensions:

FPM-315SW: 386.8-0.4 x 236.2-0.4 mm (15.2 x 9.3 in)

FPM-321SW: 520.7-0.4 x 312.4-0.4 mm (20.5 x 12.2 in)

Figure 1.4 FPM-315SW/321SW Dimensions

Chapter 2

Mounting Methods

Sections include:

- Panel Mounting
- Wall Mounting
- Desktop Stand Mounting
- VESA Mounting
- Power Adapter Bracket Mounting (Optional)

2.1 Mounting the Monitor

The FPM-300S series can be mounted in many different ways.

CAUTION: To ensure optimal product performance and longevity, please install the device in a shaded area. Avoid direct exposure to sunlight to prevent UV damage and excessive heat buildup.

2.1.1 Panel Mount

Before installing the FPM-300S monitor into the panel opening, ensure that the adhesive waterproof gasket on the front bezel is correctly positioned.

1. Cut out a section from the panel based on the dimensions of the monitor.

The dimensions for the panel opening are as follows:

- FPM-312S: 286.2-0.4 x 224.7-0.4 mm (11.27 x 8.85 inch)
- FPM-315S: 350.7-0.4 x 274.7-0.4 mm (13.81 x 10.82 inch)
- FPM-315SW: 386.8-0.4 x 236.2-0.4 mm (15.2 x 9.3 inch)
- FPM-321SW: 520.7-0.4 x 312.4-0.4 mm (20.5 x 12.2 inch)

2. Install the monitor into the panel opening, ensuring adequate air circulation with a required clearance on all sides. Refer to the diagram for the minimum clearance (100mm), air inlet and outlet directions (blue arrows), and a suggested mounting panel thickness of less than 5mm (0.196").

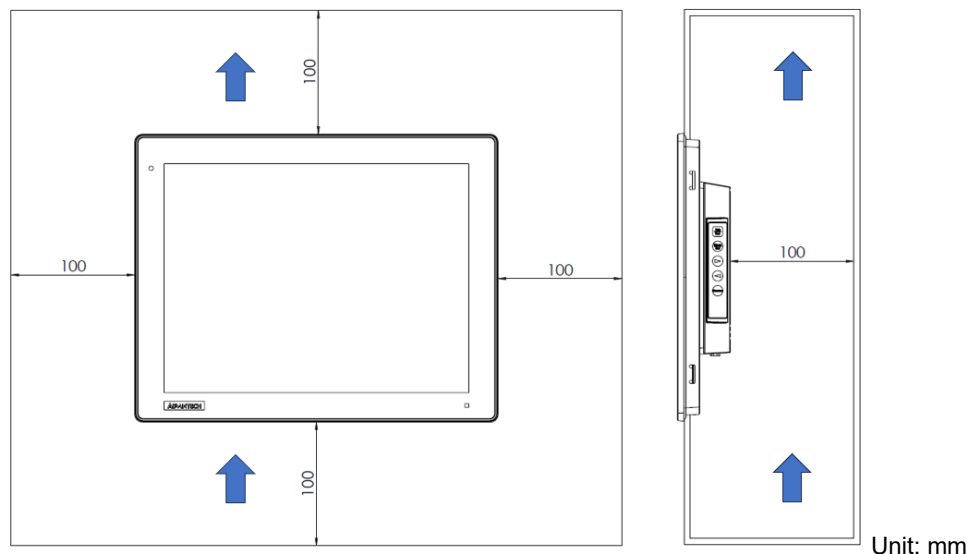


Figure 2.1 Panel Mounting – Positioning

3. Retrieve the clamps with long screws from the accessory pack. Insert the clamps into the holes and slide the clamp in the direction shown in the diagram below. Securely hook the clamps around the four sides of the bezel for a firm hold.

FPM-312S/315S:

8 clamps and 8 screws.
Diameter of screw = M6 mm
Length of screw = 20.0 mm

FPM-315SW/321SW:

10 clamps and 10 screws.
Diameter of screw = M6 mm
Length of screw = 20.0 mm

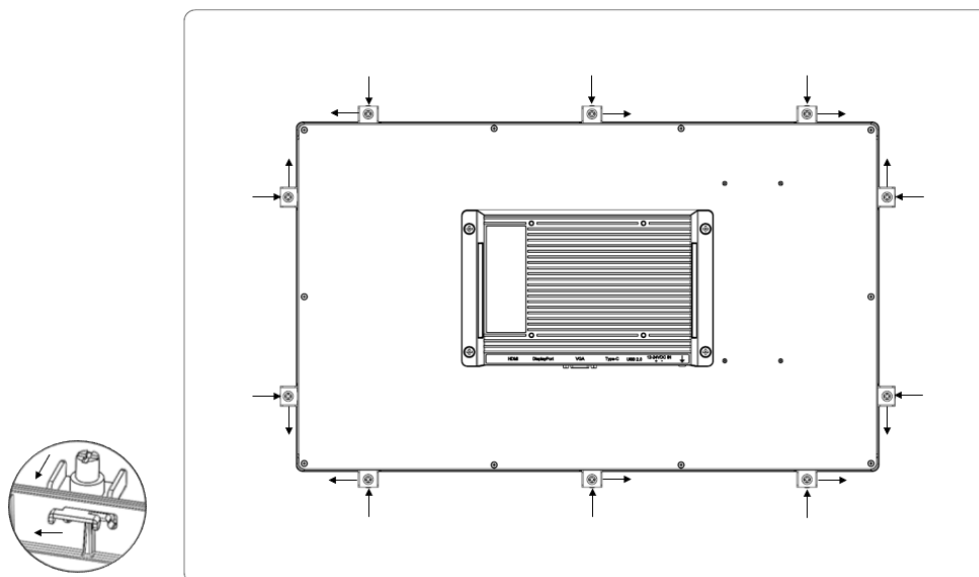


Figure 2.2 Panel Mounting (1)

4. Ensure the brackets remain in place, then tighten the screws by turning them clockwise to a torque setting of 5 kgf-cm. This action will press the mounting panel firmly in place, ensuring a stable installation.

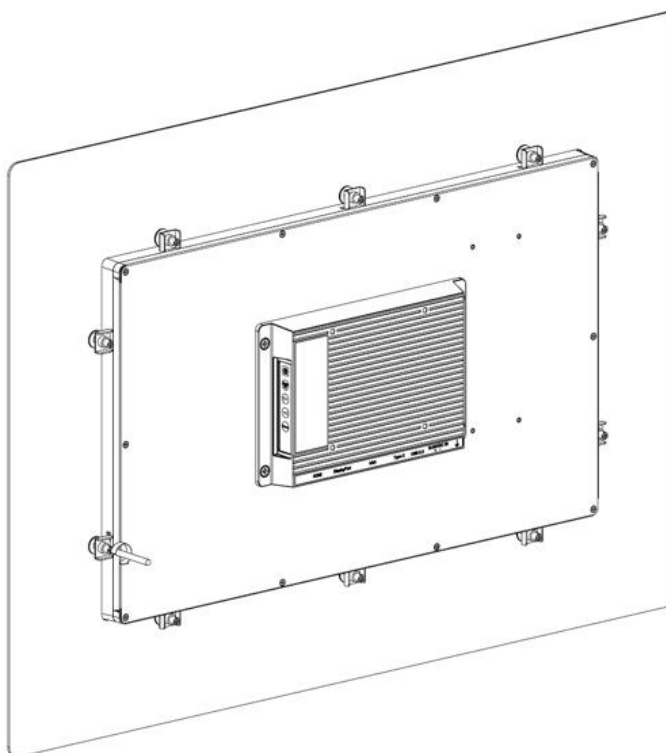


Figure 2.3 Panel Mounting (2)

2.1.2 Wall Mounting

To install the FPM-300S Series on a wall, use the FPM-1000T Series mounting kit. This kit is available as an optional accessory for the FPM-300S Series. Refer to Figure 2.4 and follow the steps below to mount the FPM-300S Series on a wall.

1. Secure the metal bracket to the wall.
2. Install the four supplied screws (M4 × 6–10 mm) into the rear panel of the monitor.
3. Attach the FPM-300S Series to the bracket using the screws installed in Step 2.
4. Ensure the unit is properly seated and secured to complete the wall-mount installation.

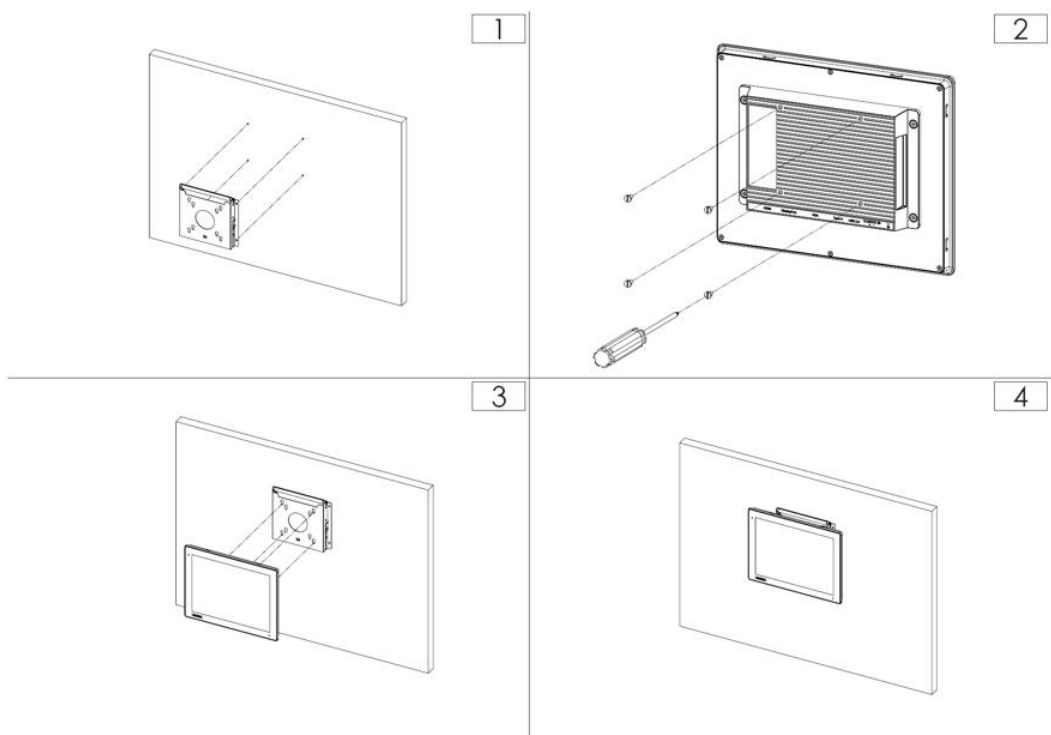


Figure 2.4 Wall Mounting

2.1.3 Desktop Stand Mounting

For desktop installation, use the FPM-1000T mounting kit as a stand. Secure the mounting kit to the rear panel of the FPM-300S Series using two screws (M4 × 6–10 mm).

Note: The FPM-1000T mounting kit is available as an optional accessory for the FPM-300S Series.

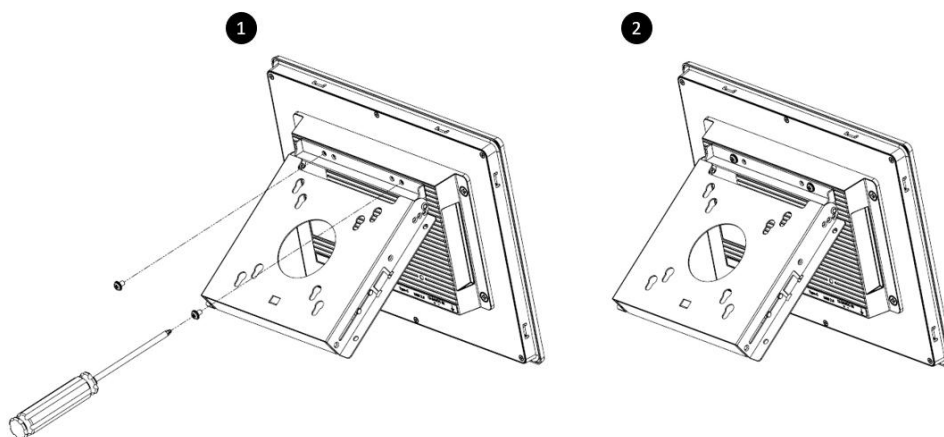


Figure 2.5 Desktop Stand Mounting

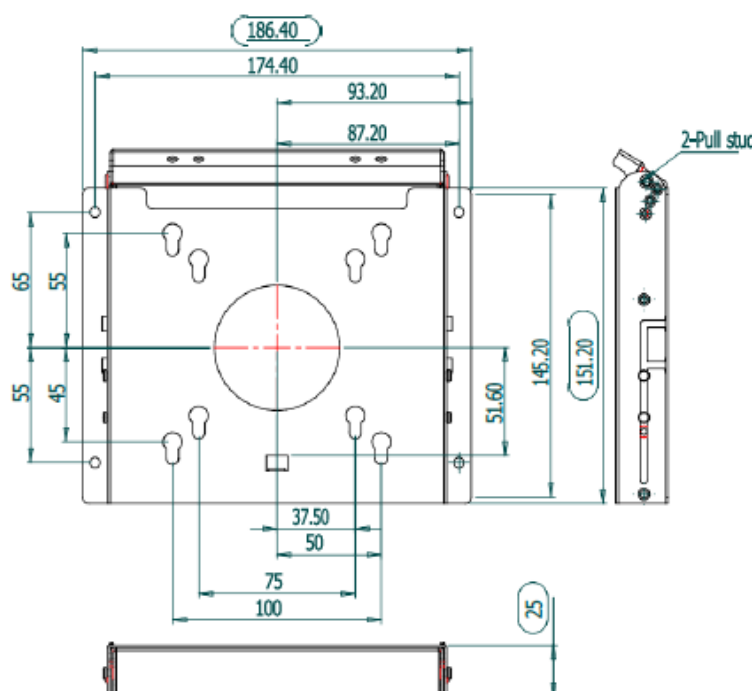


Figure 2.6 FPM-1000T

2.1.4 VESA Mounting

The rear cover of the FPM-300S includes four VESA mounting (100 x 100 mm) holes. Use M4 screws to attach the mounting kit to the FPM-300S.

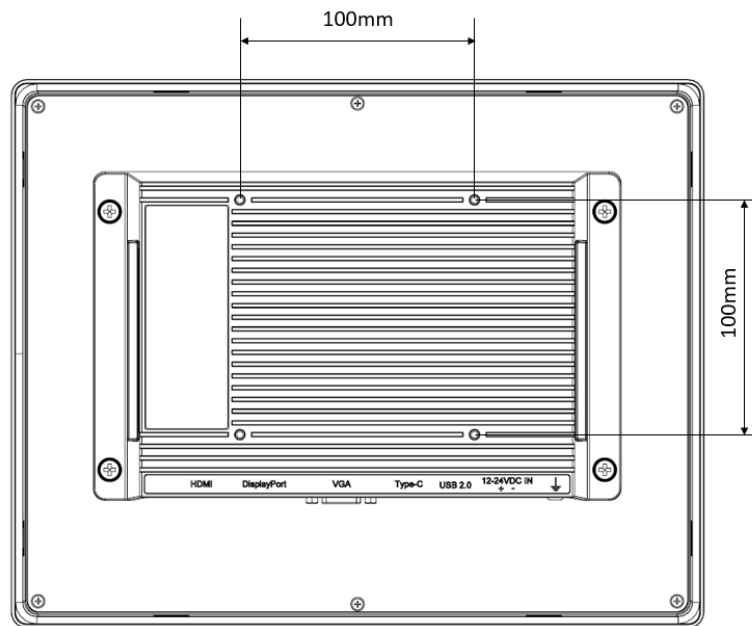


Figure 2.7 VESA Mounting

Warning! Use a suitable mounting apparatus to avoid risk of injury.
Utiliser un appareil de montage approprié pour éviter tout risque de blessure.



Warning! VESA screw mounting specifications: M4. Depth of the screw hole: 10 mm (Max.).
Spécifications de montage de la vis VESA: M4. Profondeur du trou de vis: 10 mm (max.).



2.1.5 Power Adapter Bracket Mounting (Optional)

A metal bracket (P/N: FPM-7000G-ADKE/FPM-200W-ADKE) is available as an optional accessory for the FPM-315SW and FPM-321SW. This bracket secures the power adapter in place and prevents it from hanging or becoming loose.

The metal bracket can be installed on the rear of the monitor as follows:

1. Position the metal bracket over the power adapter and align it with the designated mounting holes.
2. Secure the metal bracket using the supplied screws to complete the installation.

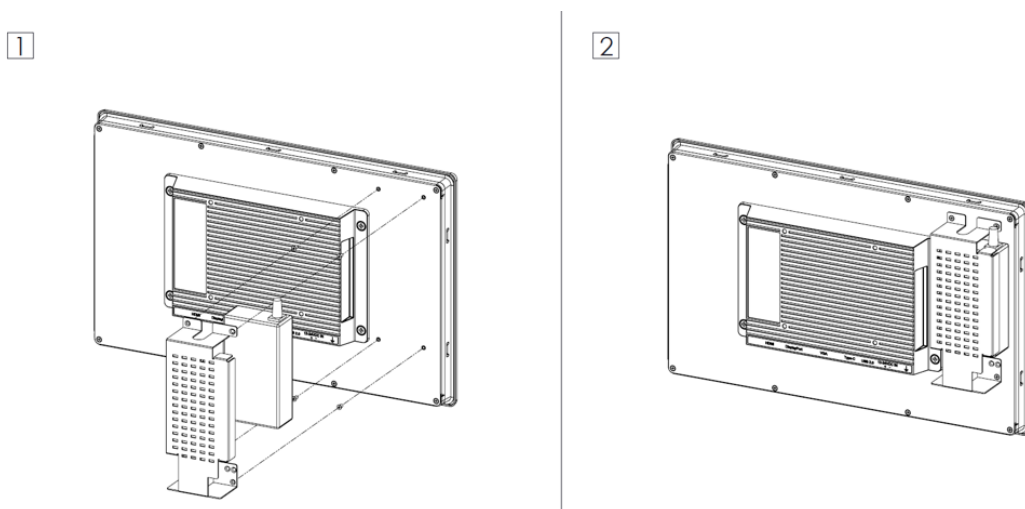


Figure 2.8 Power Adapter Bracket Mounting

Installation and removal of this equipment must be performed by qualified service personnel.

Recommendations for maximum cable distance and wires:

Single copper or multi-core copper wire, at 80°C.

Wire range 12-24 AWG. Wire strip length: 4-5 mm. Screw torque: 7.0 lb-inch.

Chapter 3

Installing the Lockable Kit

3.1 Purpose

The main use of the lockable kit is for securely fixing external I/O cables (such as HDMI cable and USB cable) to the FPM System to make sure the cables have been secured tightly on the monitor to prevent unintentional disconnection.

3.2 Lockable Kit Configuration

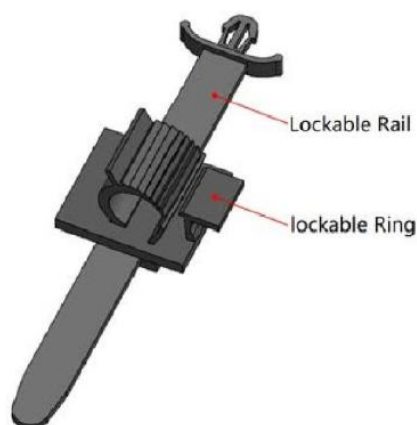


Figure 3.1 Lockable Kit for the FPM-300S

Table 3.1: Lockable Kit for the FPM-300S			
Item	Part No.	Description	Qty
HDMI and USB lockable kit	1990022422S000	Lockable rail: 71.3Lx6.2W mm YJC-64C for UBC-DS31	2
	1990022423S000	Lockable ring: DIA:7.5-8.5 FWM-8K for UBC-DS31	2

3.2.1 Lockable Kit Assembly

Follow the steps below to secure the HDMI and USB cables using the lockable kit:

1. Locate the locking hole on the FPM system below the HDMI and USB 2.0 ports.
2. Insert the lockable rail into the locking hole on the FPM system.
3. Connect the HDMI and USB cables to their respective ports. Route the cables through the lockable ring and secure them in place.
Adjust the locking stopper to match the cable diameter and length.



Figure 3.2 Installing Lockable Kit



Figure 3.3 Secure the Cables with Lockable Kit

Appendix **A**

Touchscreen

A.1 Introduction

The FPM-300S series uses projected capacitive (P-CAP) technology and supports up to 10-point multi-touch in Windows 7, 8, 10 and 11. It features a durable hardness glass surface and connects via a USB Type-C interface for reliable touch operation.

A.2 Touchscreen Specifications

A.2.1 Optical Features

Table A.1: Optical Features				
Specifications	12.1"	15"	15.6"	21.5"
Light Transmission	90±4%	90±4%	≥85%	≥85%
Gloss	80±15GU	80±15GU	90±15GU	90±15GU

A.2.2 Electrical Specifications

Table A.2: Electrical Specifications				
Specifications	12.1"	15"	15.6"	21.5"
Operation Voltage	5.0V (Typ.)			
Contact Current	45mA	90mA	150mA	150mA

A.2.3 Environmental Specifications

Table A.3: Environmental Specifications				
Specifications	12.1"	15"	15.6"	21.5"
Operating Temp.	-20°C~+70°C			
Storage Temp.	-30°C~+80°C			
Humidity	10~90%, non-condensing			

A.3 LED Functions

Table A.4: LED Functions	
On	Blue
Standby	Orange
No Signal	Orange

Appendix **B**

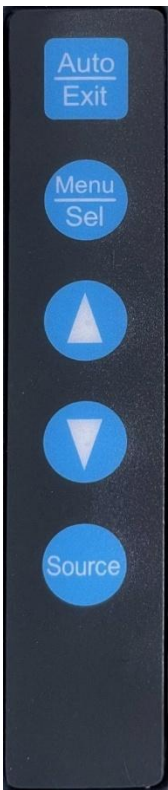
OSD Operation Keypad

B.1 OSD Keypad Overview

The OSD keypad, including five keys, is designed as the OSD operation interface.

B.1.1 OSD Button Description

Table B.1: OSD Button Description	
Auto/Exit	Automatically adjust the clock, phase, H-position and V-position Exit menu
Menu/Sel	Activate the OSD menu Enter/confirm the selected option
Up Arrow (Left/Decrease)	Decrease the brightness Navigate left through the menu Increase the value of the selected option
Down Arrow (Right/Increase)	Increase the brightness Navigate right through the menu Increase the gauge value of the selected option
Source	Changes the input video source



OSD Buttons

B.2 OSD Functions

Each selected value is saved to the LCD memory after the SEL signal is received or when the time-out period expires. Saved values are retained even if the power is turned off.

Note: If a mode is changed before the time-out period, or if the power is turned off before the time-out, the selected value will not be stored.

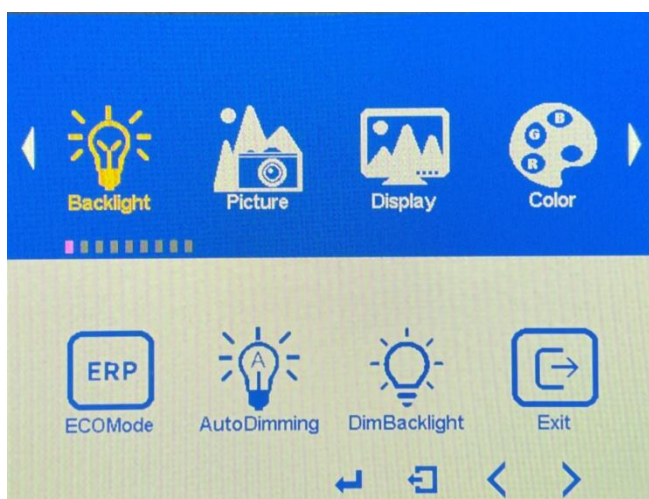
Time-out: 10–60 seconds (adjustable via the OSD setting – “Other”)

The default functions of the OSD are defined in the following sections.

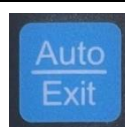
B.2.1 Main Menu

Display the Main Menu: Press the **Menu/Sel** button on the OSD keypad

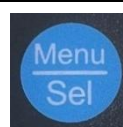
- Main Menu -- Displayed on screen



- Key Functions



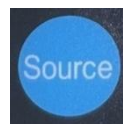
Select to exit the menu or wait for time out



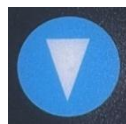
Confirm
Enter the selected option



Navigates left



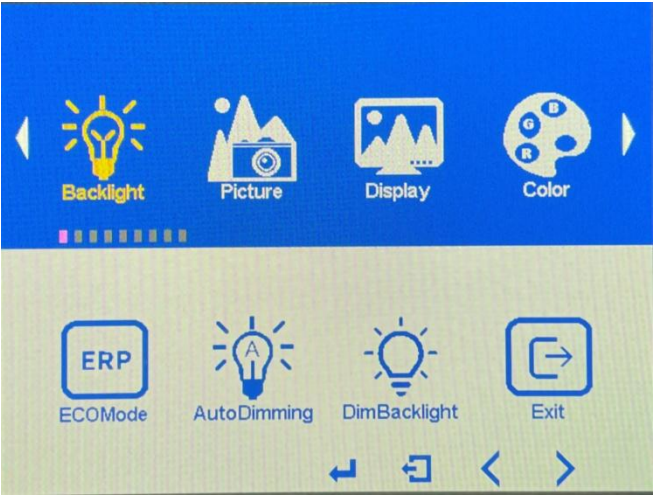
Detects video source



Navigates right

B.2.2 Backlight Menu

- Backlight Menu
To display the menu, press the **Menu/Sel** button on the OSD keypad



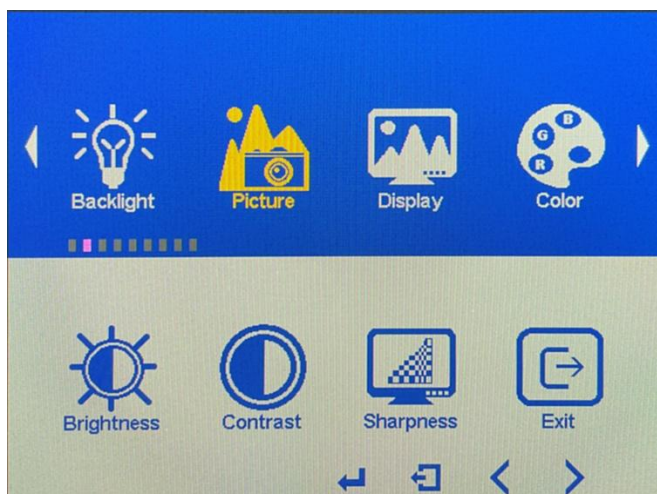
- Available Functions
To enter the Backlight menu, press the **Menu/Sel** button again.

Item	Option / Value
ECO Mode	On/Off
Auto Dimming	On/Off
Dim Backlight	Min ~ Max

B.2.3 Picture Menu

- Picture Menu

To display the Picture menu, press the **Menu/Sel** button, then use the **Down** key to move across the top menu bar and select **Picture**.



- Available Functions

To enter the Picture menu, press the **Menu/Sel** button.

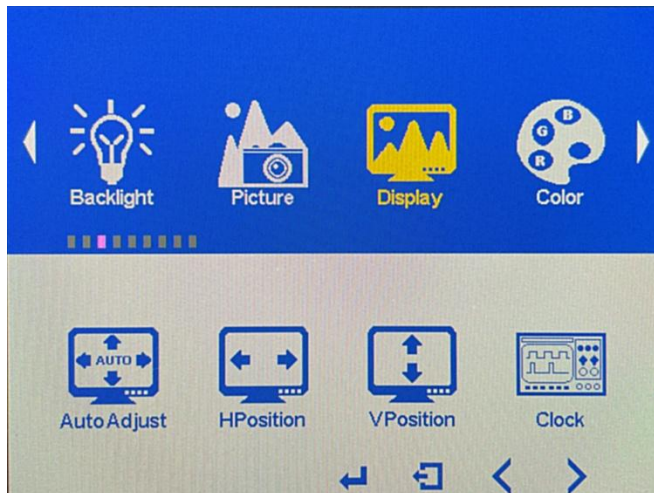
Item	Option / Value
Brightness	0 ~ 100
Contrast	0 ~ 100
Sharpness	0 ~ 4

B.2.4 Display Menu

■ Display Menu

To access the Display menu, press the **Menu/Sel** button, then use the **Down** key to move across the top menu bar and select **Display**.

NOTE: The Display menu may not be available depending on the selected input source.



■ Available Functions

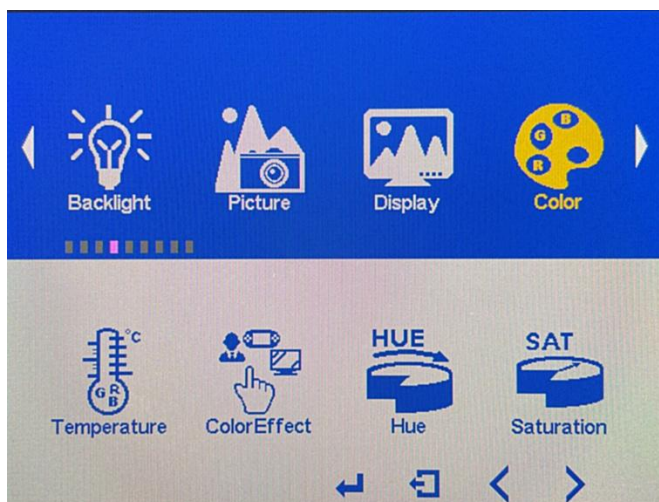
To enter the Display menu, press the **Menu/Sel** button.

Item	Option / Value
Auto Adjust	-
H Position	0 ~ 100
V Position	0 ~ 100
Clock	0 ~ 100
Phase	0 ~ 100
White Balance	-

B.2.5 Color Menu

■ Color Menu

To access the Color menu, press the **Menu/Sel** button, then use the **Down** key to move across the top menu bar and select **Color**.



■ Available Functions

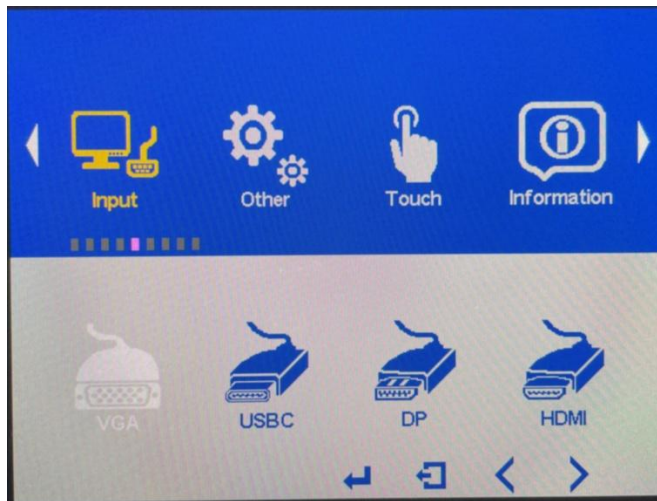
To enter the Color menu, press the **Menu/Sel** button.

Item	Option / Value
Temperature	Cool Normal1 Normal2 Warm Standard User
Color Effect	Standard Game Movie Photo Vivid User
Hue	0 ~ 100
Saturation	0 ~ 100

B.2.6 Input Menu

- Input Menu

To display the Input menu, press the **Menu/Sel** button, then use the **Down** key to move across the top menu bar and select **Input**.



- Available Functions

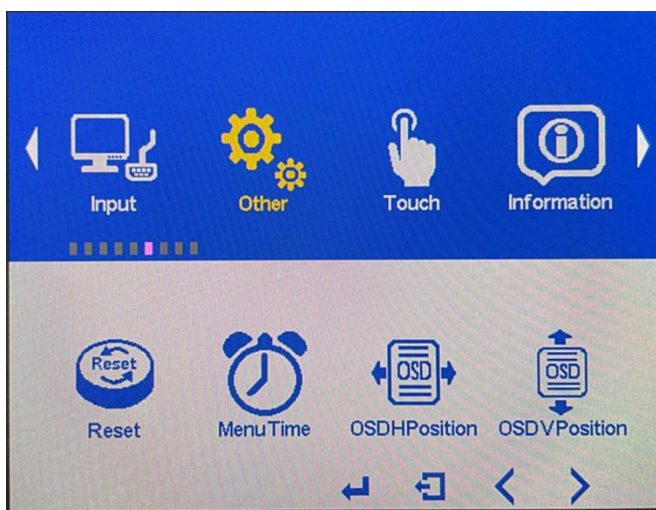
To enter the Input menu, press the **Menu/Sel** button. Use the arrow buttons to navigate through the input options, including:

- VGA
- USB Type-C
- DP
- HDMI

B.2.7 Other Menu

■ Other Menu

To display the Other menu, press the **Menu/Sel** button, then use the **Down** key to move across the top menu bar and select **Other**.



■ Available Functions

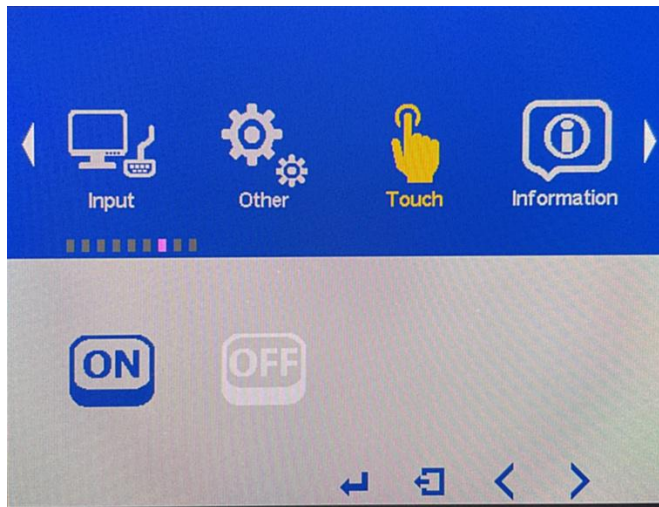
To enter the Other menu, press the **Menu/Sel** button.

Item	Option / Value
Reset	-
Menu Time	10 ~ 60
OSD H Position	0 ~ 100
OSD V Position	0 ~ 100
Language	English Deutsch Francais Español 繁體中文 简体中文 日本語
Transparency	0 ~ 100
Rotate	0, 90, 270, 180

B.2.8 Touch Menu

- Touch Menu

To display the Touch menu, press the **Menu/Sel** button, then use the **Down** key to move across the top menu bar and select **Touch**.



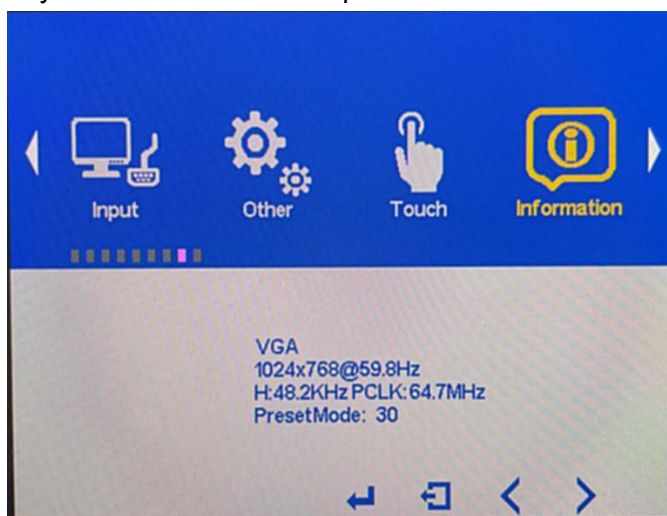
- Available Function: Enable/Disable touch

To enter the Touch menu, press the **Menu/Sel** button. Use the arrow buttons to enable (ON) or disable (OFF) the touch function.

B.2.9 Information Menu

- Information Menu

To display the information, press the **Menu/Sel** button, then use the **Down** key to move across the top menu bar and select **Information**.





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