



**MODEL:  
DM2-W270P(L) and DM2-W315Q(L)**

**27.0" , 31.5" LCD Monitor**

**DisplayPort, HDMI, VGA, IP 65 Protection, RoHS**

## **User Manual**

# Revision

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Date	Version	Changes
MAY 9, 2026	1.00	Initial release



# Safety Instructions

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- en** Warning! Read the user manual before connecting the system to the power source.
  - de** Vorsicht! Bitte lesen Sie die Bedienungsanleitung, bevor Sie das System an eine Stromquelle anschließen.
  - fr** Attention! Avant de brancher le système à la source d'alimentation, consultez le mode d'emploi.
  - it** Avvertenza! Consultare il manuale utente prima di collegare il sistema all'alimentatore.
  - es** Atención! Lea atentamente este manual del usuario antes de operar la fuente de alimentación.
  - zh** 警告! 在將系統連接到電源之前, 請仔細閱讀使用手冊。
  - cn** 警告! 在將系統連接到電源之前, 請仔細閱讀使用手冊。
- 

- en** Warning! To prevent the system from overheating, do not operate it in an area that exceeds the maximum operating temperature described in the user manual.
  - de** Vorsicht! Um eine Überhitzung des Systems zu vermeiden, betreiben Sie es ausschließlich im zulässigen Betriebstemperaturbereich. Dieser ist in der Bedienungsanleitung vermerkt.
  - fr** Attention! Pour éviter la surchauffe du système, ne l'utilisez pas dans une zone dont la température dépasse les limites décrits dans le mode d'emploi.
  - it** Avvertenza! Per evitare che il sistema si surriscaldi, non utilizzarlo in aree che superino la temperatura massima d'esercizio descritta nel manuale utente.
  - es** Atención! Para evitar el excesivo calentamiento del sistema, no opere en las condiciones de temperatura superior a lo recomendado en este manual del usuario.
  - zh** 警告! 為防止系統過熱, 不要在超過使用手冊上記載的產品工作溫度範圍之外操作此系統。
  - cn** 警告! 為防止系統過熱, 不要在超過使用手冊上記載的產品工作溫度範圍之外操作此系統。
-

- en** Warning! Use only the adapter and power cord approved for this system. Use of another type of adapter may risk fire or explosion. Please refer to the user manual for the power adapter specifications.
- de** Vorsicht! Nur zugelassene Netzteile und Netzkabel dürfen verwendet werden. Die Benutzung von anderen Netzteilen kann einen Brand oder eine Explosion zur Folge haben. Prüfen Sie die jeweiligen Spezifikationen in der Bedienungsanleitung.
- fr** Attention! Utilisez exclusivement le câble d'alimentation et l'adaptateur homologués pour ce système. L'utilisation d'un autre type d'adaptateur risquerait de provoquer un incendie ou une explosion. Veuillez référer au mode d'emploi pour les spécifications de l'adaptateur d'alimentation.
- it** Avvertenza! Utilizzare solo l'adattatore e il cavo di alimentazione approvati per questo sistema. L'uso di un altro tipo di adattatore può causare rischio d'incendio o esplosione. Si prega di fare riferimento al manuale utente per le specifiche sull'alimentazione.
- es** Atención! Utilice solamente el adaptador de corriente alterna (CA) con Marcas Conformidad otorgadas. Cualquier otro adaptador no otorgado aumenta el riesgo de explosión o incendio. Por favor consulte el manual del usuario para las especificaciones del adaptador de alimentación.
- zh** 警告! 只能使用經過認證、適用於本系統的電源變壓器與電源線。使用不適用的電源變壓器將可能導致火災或爆炸。電源變壓器規格請參考使用手冊。
- cn** 警告! 只能使用经过认证, 适用于本系统的电源适配器与电源线。使用不适用的电源适配器将可能导致火灾或爆炸。电源适配器规格请参考使用手册。

- 
- en** Warning! Ultimate disposal of this product should be handled according to all national laws and regulations.
- de** Vorsicht! Die Entsorgung dieses Produkts sollte gemäß allen Bestimmungen und Gesetzen des Landes erfolgen.
- fr** Attention! La mise au rebut ou le recyclage de ce produit sont généralement soumis aux lois et/ou directives de respect de l'environnement. Renseignez-vous auprès de l'organisme compétent.
- it** Avvertenza! Lo smaltimento di questo prodotto deve essere eseguito secondo le leggi e i regolamenti locali.
- es** Atención! La disposición final de residuos de este producto se debe cumplir con las normativas y leyes del país.
- zh** 警告! 本產品的廢棄處理應根據該國家的法律和規章進行。
- cn** 警告! 本产品的废弃处理应根据该国家的法律和规章进行。

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\* If you use USB port for charging, please use high wattage power adapter.

# Copyright

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# Manual Conventions

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## **WARNING**

Warnings appear where overlooked details may cause damage to the equipment or result in personal injury. Warnings should be taken seriously.



## **CAUTION**

Cautionary messages should be heeded to help reduce the chance of losing data or damaging the product.



## **NOTE**

These messages inform the reader of essential but non-critical information. These messages should be read carefully as any directions or instructions contained therein can help avoid making mistakes.



## **HOT SURFACE**

This symbol indicates a hot surface that should not be touched without taking care.

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Chapter

1

# Introduction

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## DM2-W270P(L) and DM2-W315Q(L) Monitor

### 1.1 Overview



**Figure 1-1: DM2-W270P(L) and DM2-W315Q(L)**

The DM2-W270P(L) and DM2-W315Q(L) LCD monitors are the latest additions to IEI's advanced flat-panel liquid crystal display series, specifically designed for industrial automation applications. These displays feature high resolution, delivering clear and detailed images. With a front panel rated IP65, they effectively resist dust and water ingress, ensuring stable performance even in harsh industrial environments. Additionally, flexible analog and digital interface options offer users convenient computer connectivity, balancing practicality with broad compatibility.

### 1.2 Features

The DM2-W270P(L) and DM2-W315Q(L) have the following standard features:

- The aluminum front frame supports IP65
- The USB 3.2 Gen1 Type-A supports 7.5 W Power Supply
- Positioning the speakers at the front ensures clear sound delivery even with panel mounting
- The front OSD offers easy access for setting adjustment
- Supports gloved operation and waterproof protection
- Built-in camera, ideal for AI facial recognition
- Anti-glare and anti-UV PCAP

### 1.3 Model Variations

The DM2-W270P(L) and DM2-W315Q(L) LCD monitor base models have a variety of variants. The model variations are listed in the table.

Model Number	LCD	Touchscreen	Power	Speaker	Camera
DM2-W270P	27.0"	Capacitive	9 V~36 V	Yes	YES
DM2-W270PL	27.0"	Capacitive	9 V~36 V	NO	NO
DM2-W315Q	31.5"	Capacitive	9 V~36 V	Yes	YES
DM2-W315QL	31.5"	Capacitive	9 V~36 V	NO	NO



**NOTE:**

The DM2-W270P(L) and DM2-W315Q(L) LCD monitor are offered in two different versions: Full and Lite. The Lite SKU does not include functions such as a camera and speaker.

### 1.4 Applications

The DM2-W270P(L) and DM2-W315Q(L) LCD monitor are designed for rigorous industrial environments where it may be exposed to both heat and moisture. Its durability and strength also make it an ideal choice for public access computers. Some potential applications include:

- Digital surveillance
- Multimedia advertising platform
- General computing
  - Computer-based testing center
  - General purpose information system
  - Mobile nursing station
  - Interactive education use
- Automation & Control
  - Plant environment monitoring
  - Factory automation HMI terminal
  - Shop-floor/MES control

## DM2-W270P(L) and DM2-W315Q(L) Monitor

- Self-service kiosk
  - Full-service receptionist kiosk
  - Hospital self-registration terminal
  - Interactive photo kiosk
  - Video rental kiosk
  - Self-service POS terminal

### 1.5 Front Panel

The front side of the DM2-W270P(L) and DM2-W315Q(L) LCD monitor is a flat panel LCD screen surrounded by an aluminum frame.

The following figure shows a typical monitor front view.

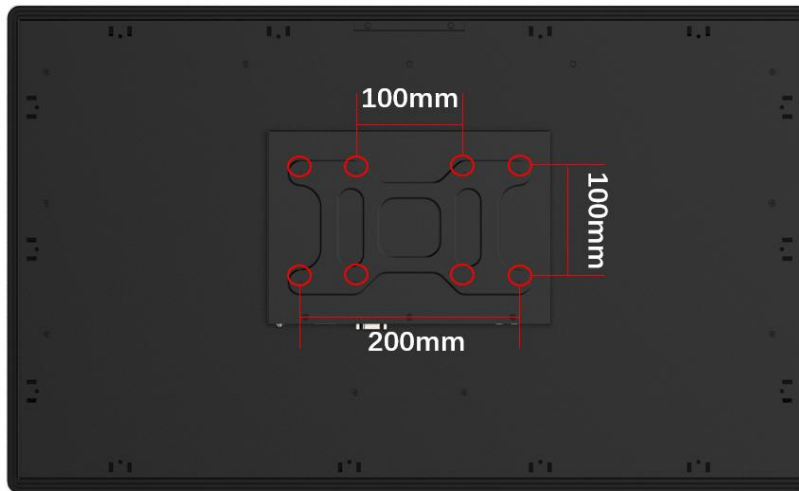


Figure 1-2: Typical Monitor Front View

## 1.6 Rear Panel

The rear panel provides access to retention screw holes that support Video Electronics Standards Association (VESA) mounting.

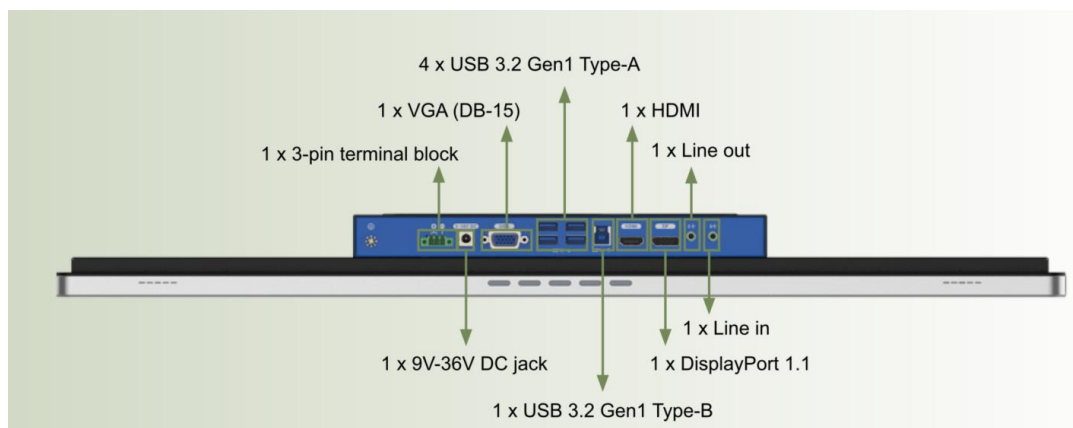
The following figures show the rear panel of the DM2 -W270P(L) and DM2-W315Q(L) .



**Figure 1-3: DM2-W270P(L) and DM2-W315Q(L) Rear View**

## 1.7 Bottom Panel

The bottom panel of the DM2-W270P(L) and DM2-W315Q(L) LCD monitor have the following I/O connectors. All connectors are fully described in the **Chapter 4**.



**Figure 1-4: DM2-W270P(L) and DM2-W315Q(L) Bottom Panel Connectors**

## DM2-W270P(L) and DM2-W315Q(L) Monitor

### 1.8 Technical Specifications

The following tables show the DM2-W270P(L) and DM2-W315Q(L) technical specifications.

#### 1.8.1 DM2-W270P(L) and DM2-W315Q(L) Specifications

Model	DM2-W270P(L)	DM2-W315Q(L)
LCD Display	27.0"(16:9)	31.5"(16:9)
Max. Resolution	2560x1440	3840x2160
Brightness (cd/m <sup>2</sup> )	350	350
Contrast Ratio	1000:1	1000:1
LCD Color	16.7M	16.8M
Viewing Angle (H/V)	178°/178°	178°/178°
Backlight MTBF (hrs.)	30,000	30,000
Touchscreen	10-point projected capacitive touch window (anti-UV, anti-glare surface)	
Touch Controller	Capacitive: ilitek	
OSD Button	5-key	5-key
Power Input	9~36V DC	9~36V DC
Power consumption	12V@4.6A (with USB 7.5W power supply) / 12V@2.5A (without USB 7.5W power supply)	12V@6.7A (with USB 7.5W power supply) / 12V@4.6A (without USB 7.5W power supply)
Camera	Support*	Support*
Speaker	2 x 2W AMP (internal speaker) *	2 x 2W AMP (internal speaker) *
Dimensions (mm) (W x H x D)	636.24 x 393.16 x 52	738.8 x 448.4 x 52
Cutout Dimensions (W x H) (mm)	617 x 368	719.6 x 423.4
Weight (Net/Gross)	10.2/14 kg	11.8/16.5 kg
Enclosure Color	Black	
Front Frame	Aluminum	Aluminum
Rear Cover	Sheet metal	Sheet metal
VESA Mount	VESA 200 x 100	VESA 200 x 100
Optional Mounting Kit	Panel, VESA 200 x 100	Panel, VESA 200 x 100
Operating Temp.	0°C ~ 50°C	0°C ~ 50°C
Storage Temp.	-20°C ~ 60°C	-20°C ~ 60°C
Humidity	10% to 90%@40°C (non-condensing)	
I/O Ports and Switches	1 x VGA (DB-15)	

Model	DM2-W270P(L)	DM2-W315Q(L)
	1 x HDMI 1 x USB 3.2 Gen1 Type-B (Touch Panel Dedicated) 4 x USB 3.2 Gen1 Type-A 1 x Line in 1 x Line out 1 x DisplayPort 1.2 1 x 9V-36V DC jack 1 x 3-pin terminal block	
<b>IP Level</b>	IP 65 compliant front panel	
<b>Safety &amp; EMC</b>	CE, FCC Class B	
<b>Remarks</b>	*The L (Lite) SKU does not include a camera and speaker.	

**Table 1-1: DM2-W270P(L) and DM2-W315Q(L) Specifications**

## 1.9 Physical Dimensions

The following sections describe the physical dimensions for each model of the DM2-W270P(L) and DM2-W315Q(L) LCD monitor.

### 1.9.1 DM2-W270P(L) Physical Dimensions

The physical dimensions of the DM2-W270P(L) are shown in the **Figure 1-5**.

DM2-W270P(L) and DM2-W315Q(L) Monitor

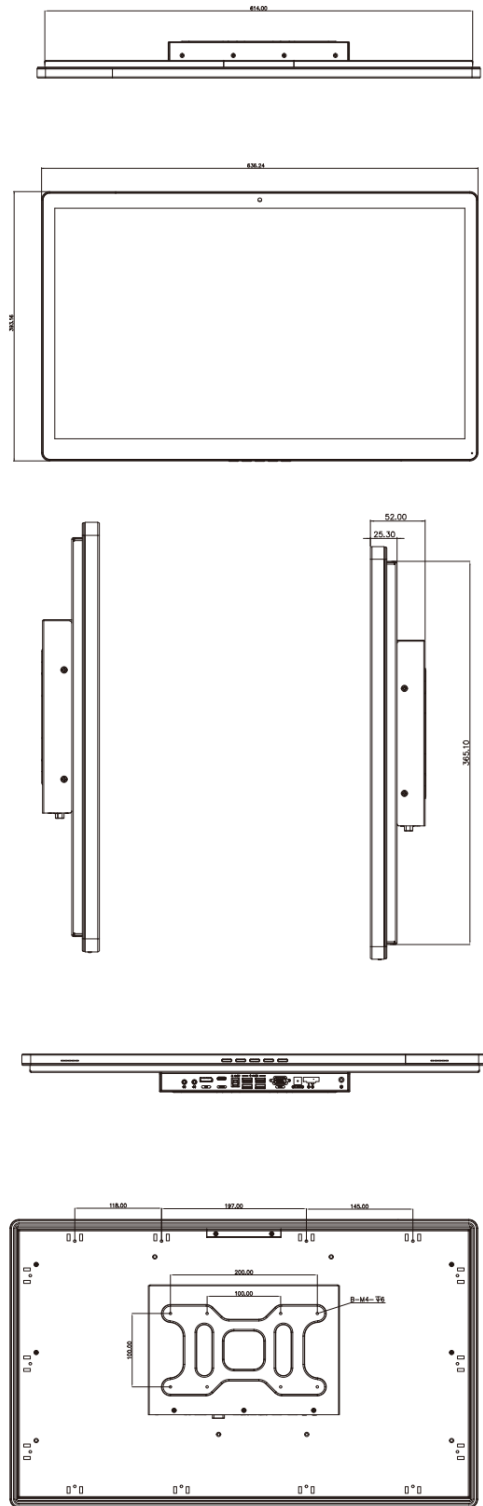
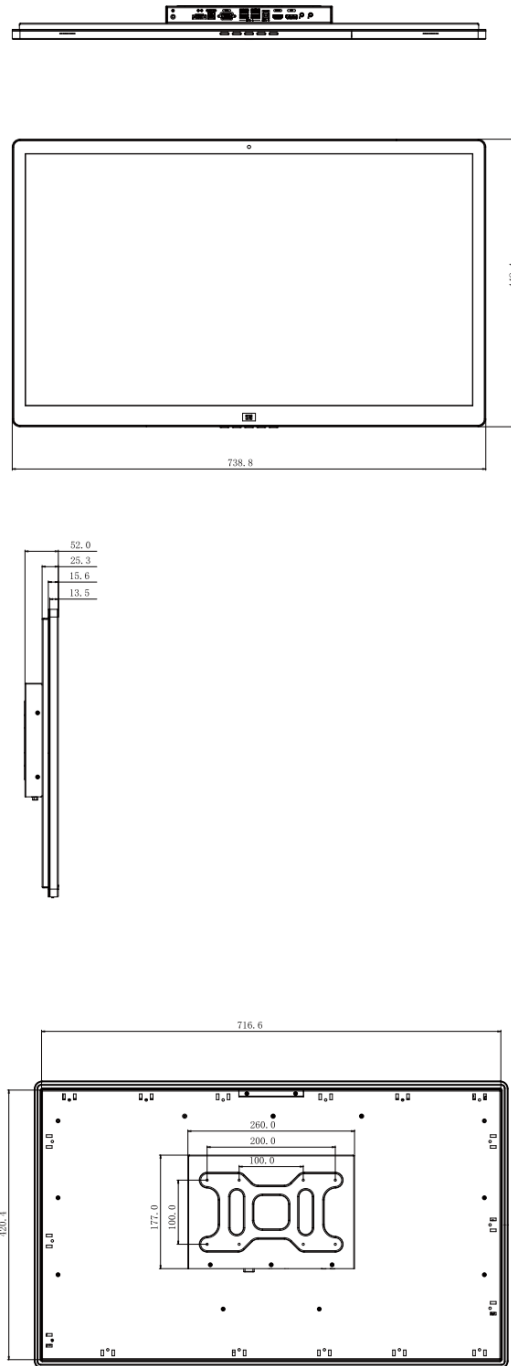


Figure 1-5: DM2-W270P(L) Physical Dimensions (Unit: mm)

**1.9.2 DM2-W315Q(L) Physical Dimensions**

The physical dimensions of the DM2-W315Q(L) are shown in the **Figure 1-6**.



**Figure 1-6: DM2-W315Q(L) Physical Dimensions (Unit: mm)**

Chapter

2

# Unpacking

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## 2.1 Unpacking Procedure

To unpack the DM2-W270P(L) and DM2-W315Q(L) LCD monitor, follow the steps below:



### **WARNING:**

The front side LCD screen has a protective plastic cover stuck to the screen. Only remove the plastic cover after the *DM2-W270P(L)* and *DM2-W315Q(L)* LCD monitor have been properly installed. These ensure the screen are protected during the installation process.

---

- Step 1:** Use box cutters, a knife or a sharp pair of scissors to cut the sealed top of the external (second) box.
- Step 2:** Open the external (second) box.
- Step 3:** Use box cutters, a knife or a sharp pair of scissors to cut the sealed top of the internal (first) box.
- Step 4:** Lift the monitor out of the boxes.
- Step 5:** Remove both polystyrene ends, one from each side.
- Step 6:** Remove the plastic cover from the DM2-W270P(L) and DM2-W315Q(L) LCD monitor.
- Step 7:** Make sure all the components listed in the packing list are present.

## DM2-W270P(L) and DM2-W315Q(L) Monitor

### 2.2 Packing List

The DM2-W270P(L) and DM2-W315Q(L) monitor is shipped with the following components:

Quantity	Item	Image
1	DM2-W270P(L) and DM2-W315Q(L)	
1	USB 3.2 Gen 1 Type A to Type B cable	
1	3-pin terminal block	
4	VESA screws	
Refer to the <b>Table 3-1</b> for the specific quantity	Panel mount kit	

**Table 2-1: Packing List**

If any of the above items are missing or damaged, contact the distributors or sales representatives immediately.

## 2.3 Optional Items

The following items are optional accessories for the DM2-W270P(L) and DM2-W315Q(L) monitor:

	DM2-W270P(L)	DM2-W315Q(L)
<b>Power Adapter</b>	63040-010096-050-RS (96W) 63040-010060-200-RS (60W) (Recommend for users without USB 3.2 GEN1 Type-A power requirements)	
<b>Power Cord</b>	32702-003600-100-RS (EU)	

**Table 2-2: Optional Accessories for the DM2-W270P(L) and DM2-W315Q(L) Monitor**

Chapter

**3**

# Installation

---

### 3.1 Installation Precautions

---

**CAUTION:**

Some SKUs of the DM2-W270P(L) and DM2-W315Q(L) have more than one power supply connection point. To reduce the risk of electric shock, disconnect all power sources before installing or maintaining the DM2-W270P(L) and DM2-W315Q(L).

---

When installing the DM2-W270P(L) and DM2-W315Q(L) LCD monitor, please follow the precautions listed below:

- **Read the user manual:** The user manual provides a complete description of the DM2-W270P(L) and DM2-W315Q(L) LCD monitor, installation instructions and configuration options.
- **DANGER! Disconnect power:** Power to the monitor must be disconnected when installing the DM2-W270P(L) and DM2-W315Q(L) LCD monitor, or before any attempt is made to access the rear panel. Electric shock and personal injury might occur if the rear panel of the monitor is opened while the power cord is still connected to an electric outlet.
- **Qualified personnel:** The DM2-W270P(L) and DM2-W315Q(L) LCD monitor must be installed and operated only by trained and qualified personnel. Maintenance, upgrades, or repairs may only be carried out by qualified personnel who are familiar with the associated dangers.
- **Mounting:** Since the monitor may weigh up to 8 kg (excluding a swing arm or other accessories), please ensure at least two people assist in mounting the monitor.
- **Air circulation:** Make sure there is sufficient air circulation when installing the monitor. Leave at least 5 cm of clearance around the monitor to prevent overheating.
- **Grounding:** The monitor should be properly grounded. The voltage feeds must not be overloaded. Adjust the cabling and provide external overvoltage protection

## DM2-W270P(L) and DM2-W315Q(L) Monitor

according to the electrical values indicated on the label attached to the back of the monitor. Ensure the power cord is connected to a grounded socket-outlet.

- **Anti-static discharge:** The rear panel of the monitor must be removed to configure the monitor's AD board. When doing so, be sure the monitor is disconnected from its power source and take all necessary safety precautions to avoid electrocution and static discharge to the AD board. The use of a grounded wrist strap and an anti-static work pad is recommended.

### 3.2 Mounting the Monitor

The DM2-W270P(L) and DM2-W315Q(L) LCD monitor can be mounted in a panel, cabinet, rack or wall. The monitor can also be mounted on a monitor arm or stand. The mounting methods are described below.



#### CAUTION:

When mounting the monitor, ensure the retention screws or bolts are tightened securely, but avoid over tightening. Over tightening the retention screws or bolts may cause them to become stripped, rendering them useless.

---

#### 3.2.1 Panel Mounting

Each model of the DM2-W270P(L) and DM2-W315Q(L) LCD monitor have a series of mounting slots located on the top, side and bottom panels for mounting the monitor to a panel.

The **Table 3-1** lists the number of mounting clamps and holders required to mount the monitor to a panel.

Model	Panel Mount Kit 19XM0SFE0-0004601-000-RS
DM2-W270P(L)	14
DM2-W315Q(L)	17

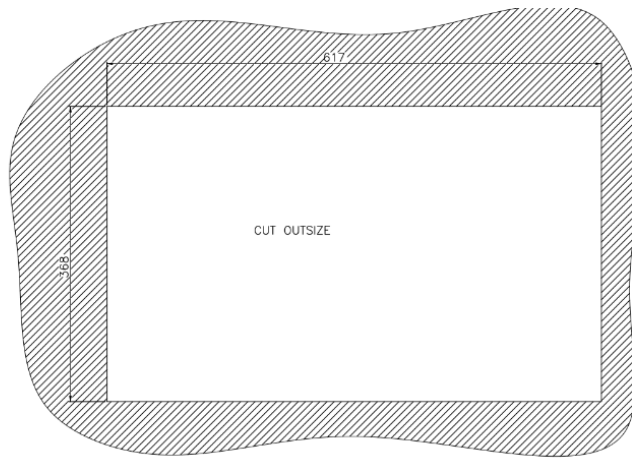
**Table 3-1: Panel Mount Kit**



**Figure 3-1: Panel Mount Kit 19XM0SFE0-0004601-000-RS**

To mount the DM2-W270P(L) and DM2-W315Q(L) LCD monitor into a panel, please follow the steps below.

- Step 1:** Select the position on the panel to mount the monitor.
- Step 2:** Cut out a section of the panel that corresponds to the rear panel dimensions of the monitor. Take care that the panel section that is cut out is smaller than the overall size of the metal frame that surrounds the monitor but just large enough for the rear panel of the monitor to fit through.



**Figure 3-2: DM2-W270P(L) Cutout Dimensions (Unit: mm)**

## DM2-W270P(L) and DM2-W315Q(L) Monitor

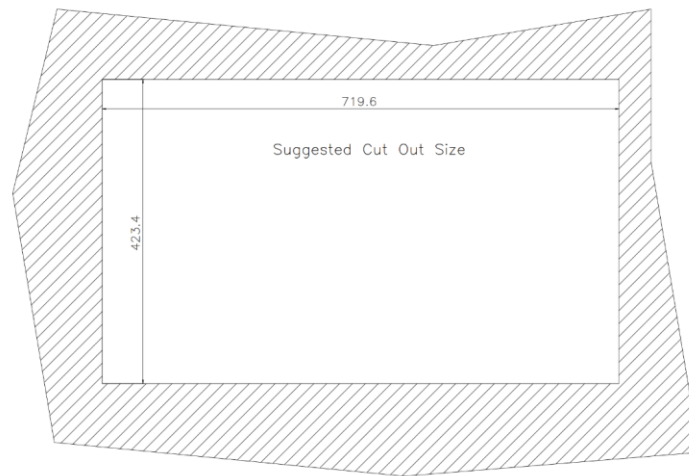


Figure 3-3: DM2-W315Q(L) Cutout Dimensions (Unit: mm)

**Step 3:** Slide the monitor through the hole until the aluminum frame is flush with the panel (Figure 3-4).

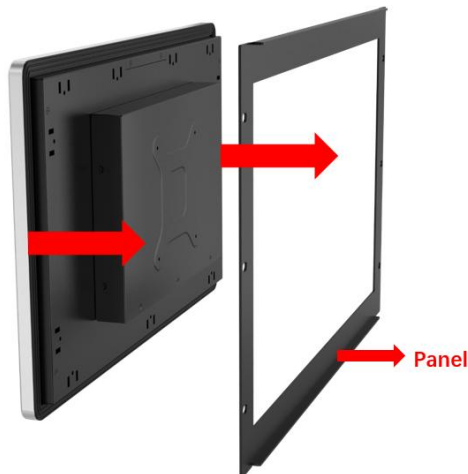


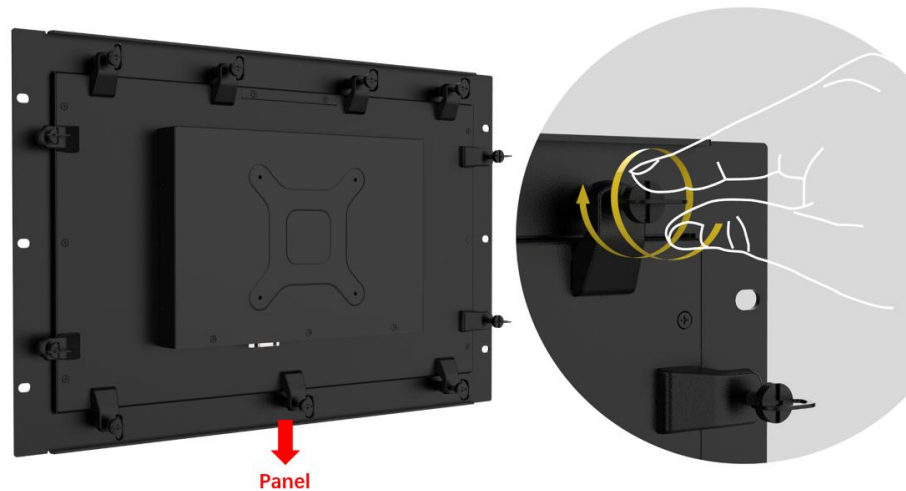
Figure 3-4: Slide into the Panel

**Step 4:** Insert the panel mounting clamps into the pre-formed holes of the clamp holders (Figure 3-5).



**Figure 3-5: Secure the Mounting Clamp Holders**

**Step 5:** Tighten the screws that pass through the panel mounting clamps until the plastic caps at the front of all the screws are firmly secured to the panel (**Figure 3-6**).



**Figure 3-6: Panel Mounting Clamp Installation**

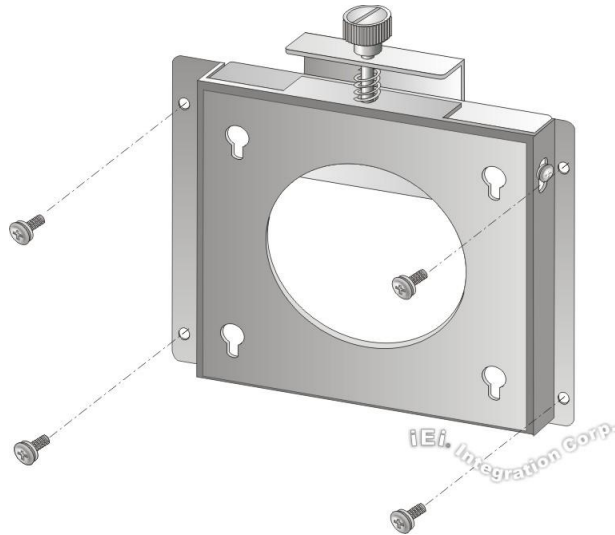
### **3.2.2 Wall Mounting**

Each model of the DM2 series LCD monitor has 8 holes on the rear panel for installing the monitor onto the wall. Due to the large size and heavy weight of the monitor, for safety reasons, 100\*200 holes are chosen for installation. To install the DM2 series LCD monitor on the wall, please follow the steps below.

**Note: The Wall mounting kit is not provided. Only screws are provided.**

## DM2-W270P(L) and DM2-W315Q(L) Monitor

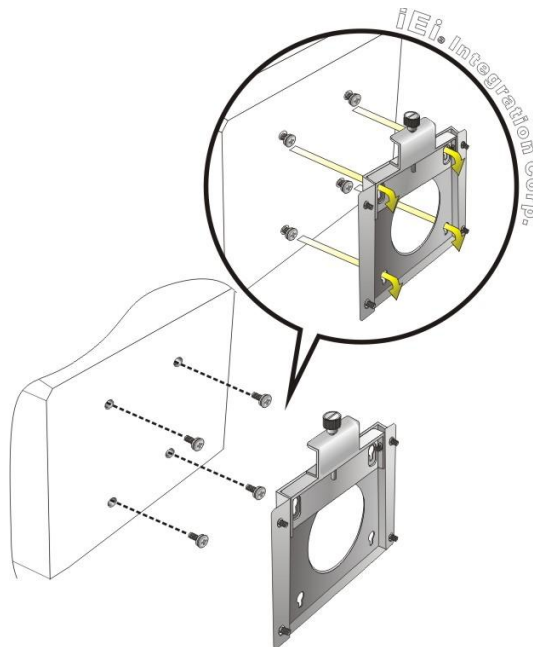
**Step 1:** Attach the wall mounting kit to the mounting surface with the included screws. Make sure it is attached securely (**Figure 3-7**).



**Figure 3-7: Attach Wall Mounting Kit to the Wall**

**Step 2:** Screw the mounting screws to the mounting holes on the rear of the DM2 Series (**Figure 3-8**).

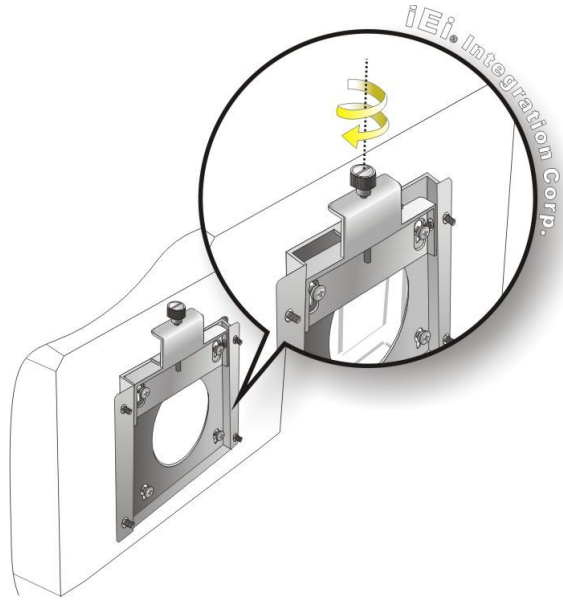
**Step 3:** Hook the DM2 series onto the mounting holes of the wall mounting kit (**Figure 3-8**).



**Figure 3-8: Hook onto the Wall Mounting Kit**

**Step 4:** Tighten the top screw on the wall mounting kit to securely hold the DM2 Series in place.

After this screw is tightened, the DM2 Series should not be able to move.



**Figure 3-9: Tighten Retention Screw**

Chapter

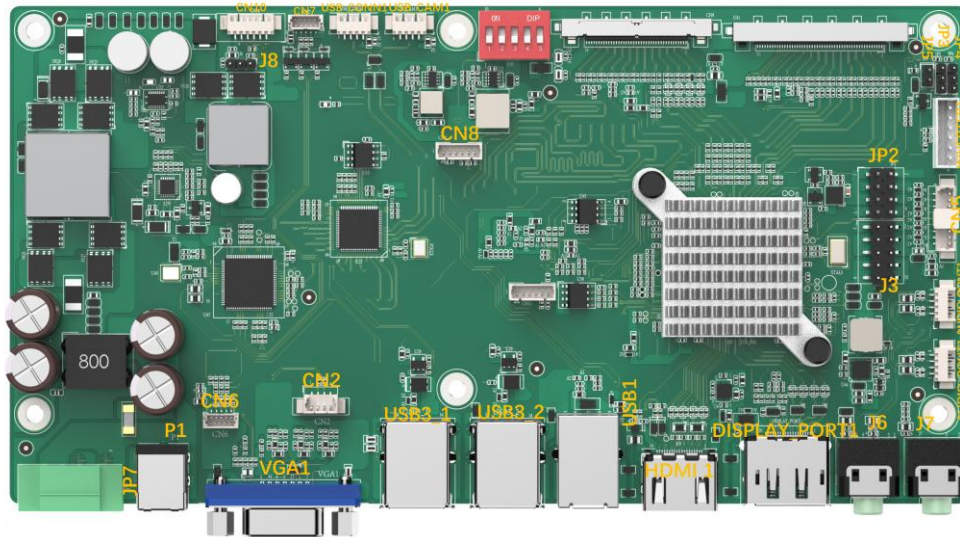
4

# Connectors

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### 4.1 Peripheral Interface Connectors

The DM2-W270P(L) and DM2-W315Q(L) LCD monitor AD board comes with a number of peripheral interface connectors and configuration jumpers. The connector locations are shown in the Internal Peripheral Connectors.



**Figure 4-1: AD Board Layout Diagram**

### 4.2 Internal Peripheral Connectors

Internal peripheral connectors are found on the motherboard and are only accessible when the motherboard is outside of the chassis. The **Table 4-1** below shows a list of the internal peripheral connectors on the DM2-W270P(L) and DM2-W315Q(L) LCD monitor AD board.

Connector	Type	Label
LVDS POWER	8-pin header	JP2
EN CTRL Voltage Level	3-pin header	JP3
PWM CTRL Voltage Level	3-pin header	JP4
PWM/DC Jumper	2-pin header	JP5
Right Audio Output	4-pin wafer	AUDIO_ROUT1
Left Audio Output	4-pin wafer	AUDIO_LOUT1

## DM2-W270P(L) and DM2-W315Q(L) Monitor

Connector	Type	Label
OSD Keypad Connector	9-pin wafer	CN5
Backlight Inverter Connector	6-pin wafer	INVERTER1
USB_CAM Connector	4-pin wafer	USB_CAM1
Internal USB 2.0 connector	4-pin wafer	USB_CONN1
VGA_EDID Port	4-pin wafer	CN2
MCU ICE Connector	5-pin wafer	CN6
LED Indicator Interface	5-pin wafer	CN7
Backlight Power Connector	10-pin header	J3
I2C_VDD	3-pin header	J8

**Table 4-1: Internal Peripheral Interface Connectors**

### 4.2.1 LVDS POWER (JP2)

PIN	DESCRIPTION	PIN	DESCRIPTION
1-2	3.3V ( default )	3-4	5V
5-6	12V	7-8	10V

**Table 4-2: LVDS POWER (JP2) Pinouts**

### 4.2.2 EN CTRL Voltage Level (JP3)

PIN	DESCRIPTION	PIN	DESCRIPTION
1-2	5V	3-2	3.3V ( default )

**Table 4-3: EN CTRL Voltage Level (JP3) Pinouts**

### 4.2.3 PWM CTRL Voltage Level (JP4)

PIN	DESCRIPTION	PIN	DESCRIPTION
1-2	5V	3-2	3.3V ( default )

**Table 4-4: PWM CTRL Voltage Level (JP4) Pinouts**

#### 4.2.4 PWM/DC Jumper (JP5)

STATUS	DESCRIPTION
Open	PWM
Short	DC

Table 4-5: PWM/DC Jumper (JP5) Pinouts

#### 4.2.5 Right Audio Output (AUDIO\_ROUT1)

PIN	DESCRIPTION	PIN	DESCRIPTION
1	GND	2	SPK_R+
3	SPK_R-	4	GND

Table 4-6: Right Audio Output (AUDIO\_ROUT1) Pinouts

#### 4.2.6 Left Audio Output (AUDIO\_LOUT1)

PIN	DESCRIPTION	PIN	DESCRIPTION
1	GND	2	SPK_L+
3	SPK_L-	4	GND

Table 4-7: Left Audio Output (AUDIO\_LOUT1) Pinouts

#### 4.2.7 OSD Keypad Connector (CN5)

PIN	DESCRIPTION	PIN	DESCRIPTION
1	+5V_B	2	+12V_B
3	KEYPAD_AUTO	4	KEYPAD_LEFT
5	KEYPAD_RIGHT	6	KEYPAD_ENTER
7	KEYPAD_POWER	8	GND
9	SC_3V3_B		

Table 4-8: OSD Keypad Connector (CN5) Pinouts

#### 4.2.8 Backlight Inverter Connector (INVERTER1)

PIN	DESCRIPTION	PIN	DESCRIPTION
1	12V	2	12V
3	ON/OFF	4	ADJ

## DM2-W270P(L) and DM2-W315Q(L) Monitor

5	GND	6	GND
---	-----	---	-----

**Table 4-9: Backlight Inverter Connector (INVERTER1) Pinouts**

### 4.2.9 USB\_CAM1 Connector (USB\_CAM1)

PIN	DESCRIPTION	PIN	DESCRIPTION
1	+5V_USB2-3	2	DM7_L
3	DP7_L	4	GND

**Table 4-10: USB\_CAM1 Connector (USB\_CAM1) Pinouts**

### 4.2.10 Internal USB 2.0 Connector (USB\_CONN1)

PIN	DESCRIPTION	PIN	DESCRIPTION
1	+5V_USB2-1	2	DM5_L
3	DP5_L	4	GND

**Table 4-11: Internal USB 2.0 Connector (USB\_CONN1) Pinouts**

### 4.2.11 VGA\_EDID Port (CN2)

PIN	DESCRIPTION	PIN	DESCRIPTION
1	NC	2	DDCSDA_VGA
3	DDCSCL_VGA	4	GND

**Table 4-12: VGA\_EDID Port (CN2) Pinouts**

### 4.2.12 MCU ICE Connector (CN6)

PIN	DESCRIPTION	PIN	DESCRIPTION
1	VCC_MCU_3V3	2	MCU_SWDIO
3	MCU_SWDCLK	4	MCU_RST
5	GND		

**Table 4-13: MCU ICE Connector (CN6) Pinouts**

### 4.2.13 LED Indicator Interface (CN7)

PIN	DESCRIPTION	PIN	DESCRIPTION
1	GND	2	LED3

3	LED2	4	LED1
5	SYS_3V3	6	

**Table 4-14: LED Indicator Interface (CN7) Pinouts**

#### 4.2.14 Backlight Power Connector (J3)

PIN	DESCRIPTION	PIN	DESCRIPTION
1	+5V	2	BKL_VCC
3	BKL_VCC	4	+12V
5	BKL_VCC	6	+12V
7	+10V	8	BKL_VCC
9	+10V	10	BKL_VCC

**Table 4-15: Backlight Power Connector (J3) Pinouts**

#### 4.2.15 I2C\_VDD(J8)

PIN	DESCRIPTION
1-2	5V
3-2	+3V3MCU (default)

**Table 4-16: I2C\_VDD(J8) Pinouts**

### 4.3 External Peripheral Connectors

The **Table 4-17** below lists the bottom panel connectors on the DM2-W270P(L) and DM2-W315Q(L) industrial monitors. Pinouts of these connectors can be found in the following sections.

Connector	Type	Label
Grounding Screw	Screw	N/A
9V–36V Terminal Block	3-pin terminal	JP7
DC-in Jack	2-pin jack	P1
VGA Connector	15-pin female	VGA1
USB 3.2 Gen 1 Connector	USB 3.2 Gen 1 Type A	USB3_1

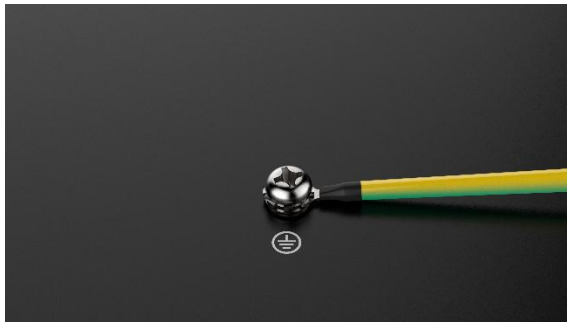
## DM2-W270P(L) and DM2-W315Q(L) Monitor

Connector	Type	Label
USB 3.2 Gen 1 Connector	USB 3.2 Gen 1 Type A	USB3_2
USB for Touch Panel Connector	USB 3.2 Type B	USB1
HDMI Connector	HDMI Connector	HDMI1
DisplayPort Connector	DisplayPort	DISPLAY_PORT1
Audio Jack (Line-out)	5-pin jack	J6
Audio Jack (Line-in)	5-pin jack	J7

**Table 4-17: External Peripheral Interface Connectors**

### 4.3.1 Grounding Screw

The grounding screw attaches the grounding wire to the monitor, ensuring that any unintended electrical surge is safely diverted away from other components or users and towards the earth.



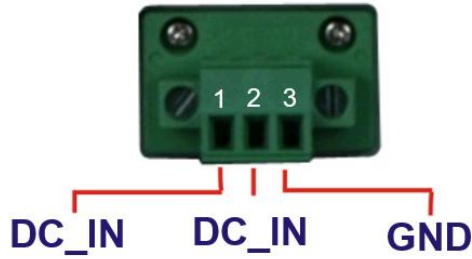
**Figure 4-2: Grounding Screw**

### 4.3.2 9V-36V Terminal Block (JP7)

Connect the leads of 9V – 36V DC power supply into the terminal block. Make sure that the power and grounding wires are attached to the correct sockets of the connector.

PIN	DESCRIPTN
1	DC_IN
2	DC_IN
3	GND

**Table 4-18: 9V–36V Terminal Block (JP7) Pinouts**



**Figure 4-3: 3-Pin Terminal Block**

### 4.3.3 DC-in Jack (P1)

The lockable power connector connects to the power adapter and provides 9V~36V power to the monitor.

PIN	DESCRIPTN
1	DC_IN
2	GND

**Table 4-19: DC-in Jack (P1) Pinouts**



**Figure 4-4: DC-in Jack**

### 4.3.4 VGA Connector (VGA1)

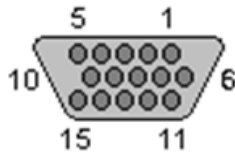
Use the bottom panel standard 15-pin female VGA connector to connect the monitor to the system graphics interface.

PIN	DESCRIPTION	PIN	DESCRIPTION	PIN	DESCRIPTION
1	RED	6	GROUND	11	NC
2	GREEN	7	GROUND	12	DDCDAT
3	BLUE	8	GROUND	13	HSYNC

## DM2-W270P(L) and DM2-W315Q(L) Monitor

4	NC	9	NC	14	VSYNC
5	GROUND	10	GROUND	15	DDCCLK

**Table 4-20: VGA Connector (VGA1) Pinouts**



**Figure 4-5: VGA Connector**

### 4.3.5 USB 3.2 Gen 1 Connector (USB3\_1)

PIN	DESCRIPTION	PIN	DESCRIPTION
1	+5V_USB3-1	12	DP2_L
2	DM1_L	13	GND
3	DP1_L	14	RXN_DS2_L
4	GND	15	RXP_DS2_L
5	RXN_DS1_L	16	GND
6	RXP_DS1_L	17	TXN_DS2_L
7	GND	18	TXP_DS2_L
8	TXN_DS1_L		
9	TXP_DS1_L		
10	+5V_USB3-2		
11	DM2_L		

**Table 4-21: USB 3.2 Gen 1 Connector (USB3\_1) Pinouts**

### 4.3.6 USB 3.2 Gen 1 Connector (USB3\_2)

PIN	DESCRIPTION	PIN	DESCRIPTION
1	+5V_USB3-3	12	DP4_L
2	DM3_L	13	GND
3	DP3_L	14	RXN_DS4_L
4	GND	15	RXP_DS4_L
5	RXN_DS3_L	16	GND

PIN	DESCRIPTION	PIN	DESCRIPTION
6	RXP_DS3_L	17	TXN_DS4_L
7	GND	18	TXP_DS4_L
8	TXN_DS3_L		
9	TXP_DS3_L		
10	+5V_USB3-4		
11	DM4_L		

**Table 4-22: USB 3.2 Gen 1 Connector (USB3\_2) Pinouts**

### 4.3.7 USB for Touch Panel Connector (USB1)

Use the bottom panel standard USB touch panel connector to connect the monitor to the system graphics interface.

PIN	DESCRIPTION	PIN	DESCRIPTION
1	+5V_USB	2	DM0_L -
3	DPO_L	4	GND
5	TXN_UP_L -	6	TXP_UP_L
7	GND	8	RXN_UP_L
9	RXP_UP_L	G1/G2	USB1_GND

**Table 4-23: USB for Touch Panel Connector (USB1) Pinouts**



**Figure 4-6: USB for Touch Panel Connector**

### 4.3.8 HDMI Connector (HDMI1)

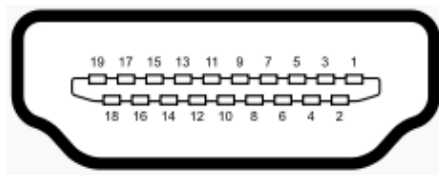
The HDMI connector connects to a display device with HDMI interface.

PIN	DESCRIPTION	PIN	DESCRIPTION
1	HDMI1_RX2P	2	GND
3	HDMI1_RX2N	4	HDMI1_RX1P
5	GND	6	HDMI1_RX1N

## DM2-W270P(L) and DM2-W315Q(L) Monitor

PIN	DESCRIPTION	PIN	DESCRIPTION
7	HDMI1_RX0P	8	GND
9	HDMI1_RX0N	10	HDMI1_RXCP
11	HDMI1_C_DET	12	HDMI1_RXCN
13	HDMI1_CEC	14	NC
15	HDMI1_DDCCLK	16	HDMI1_DDCSDA
17	GND	18	HDMI1_5V
19	HDMI1_HPDET		

**Table 4-24: HDMI Connector (HDMI1) Pinouts**



**Figure 4-7: HDMI Connector**

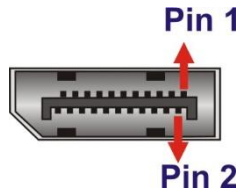
### 4.3.9 DisplayPort Connector (DISPLAY\_PORT1)

The DisplayPort connector transmits a digital signal to compatible DisplayPort display devices such as a TV or computer screen.

PIN	DESCRIPTION	PIN	DESCRIPTION
1	LANE3N	2	GND
3	LANE3P	4	LANE2N
5	GND	6	LANE2P
7	LANE1N	8	GND
9	LANE1P	10	LANE3N
11	GND	12	LANE3P
13	GND	14	GND
15	DP_AUX_CHP	16	DP_CABLE
17	DP_AUX_CHN	18	DP_HPDP
19	GND	20	VCC
G1	GND	G2	GND
G3	GND	G4	GND

**Table 4-25: DisplayPort Connector (DISPLAY\_PORT1) Pinouts**

PIN	DESCRIPTION	PIN	DESCRIPTION
-----	-------------	-----	-------------



**Figure 4-8: DisplayPort Connector**

**4.3.10 Audio Jack (Line-out) (J6)**

PIN	DESCRIPTION	PIN	DESCRIPTION
1	AUDIO_GND	2	AUDIO_SOUT_L
3	AMP_INL	4	AMP_INR
5	AUDIO_SOUT_R	6	

**Table 4-26: Audio Jack (Line-out) (J6) Pinouts**

**4.3.11 Audio Jack (Line-in) (J7)**

PIN	DESCRIPTION
1	AUDIO_GND
2	LINE_INR
3	AUDIO_GND
4	AUDIO_GND
5	LINE_INL

**Table 4-27: Audio Jack (Line-in) (J7) Pinouts**

Chapter

**5**

# **On-Screen-Display (OSD) Controls**

---

## 5.1 OSD Keypad

The DM2-W270P(L) and DM2-W315Q(L) features an On-Screen Display (OSD) menu, allowing users to adjust device settings through on-screen menus and information. These settings include brightness, contrast, color, input source selection, volume control, and more. Users can easily optimize display effects to enhance their experience. The **Figure 5-1** shows the OSD keypad of the DM2-W270P(L) and DM2-W315Q(L) LCD monitors.



**Figure 5-1: OSD Keypad**

The functions of each button are described in the following table.

<b>Button 1: Backlight</b>	Adjusts the intensity of the LCD backlight.
<b>Button 2: Audio</b>	Adjust the volume of the sound.
<b>Button 3: Input</b>	Quickly select the input interface.
<b>Button 4: Settings</b>	Adjust screen Picture, Audio, Analog, Input, Temperature, Hue, Gamma, Color Effect, Over Drive, Aspect Ratio, Ultra Vivid, USB, Display, Rotate, and others. View monitor Information.

## DM2-W270P(L) and DM2-W315Q(L) Monitor

<b>Button 5: LCD ON/OFF</b>	Turn on or turn off the LCD screen.
<b>Button 1 and Button 3</b>	Press the button 1 and button 3 simultaneously to lock the OSD. Press them again to unlock.
<b>Button 3 and Button 4</b>	Press and hold buttons 3 and 4 simultaneously to enter the burn-in test screen. Exit by holding and hold button 5 to shut down or power on again.

Table 5-1: OSD Control Buttons

## 5.2 OSD Settings Menu Structure

The following table shows the OSD Settings menu structure for the DM2-W270P(L) and DM2-W315Q(L) LCD monitor.

Level 1	Level 2	Value	Default Value
<b>Picture</b>	<b>Backlight</b>	0 to 100	44
	<b>Brightness</b>	0 to 100	50
	<b>Contrast</b>	0 to 100	50
	<b>Sharpness</b>	0 to 100	50
<b>Audio</b>		0 to 100	100
<b>Analog*</b>	<b>Auto Adjust</b>		
	<b>H Position</b>	0 to 100	Dynamic value
	<b>V Position</b>	0 to 100	
	<b>Clock</b>	0 to 100	
	<b>Phase</b>	0 to 100	
<b>Input</b>	<b>Auto Select</b>		Auto Select
	<b>VGA</b>		
	<b>DP</b>		
	<b>HDMI</b>		
<b>Color</b>	<b>Temperature</b>	9300K, 7500K, 6500K, User	6500K
	<b>HUE</b>	HUE	50
		SAT	50
	<b>Gamma</b>	OFF, 1.8, 2.0, 2.2	2.2
	<b>Color Effect</b>	Standard, Game, Movie, Photo	Standard

Over Drive	OD Gain(on)	0 to 100	50
Aspect Ratio		Full, 16:9, 4:3, 5:4, Origin	Full
Ultra Vivid		OFF, L, M, H	OFF
USB		USB1, USB2	USB Full ON
Display	Rotate	0°, 90°, 270°, 180°	0°
Other	Reset		
	Menu Time	10 to 60	10
	OSD	0 to 100	0
Information			
*The "Display" menu is only available when using VGA connection.			

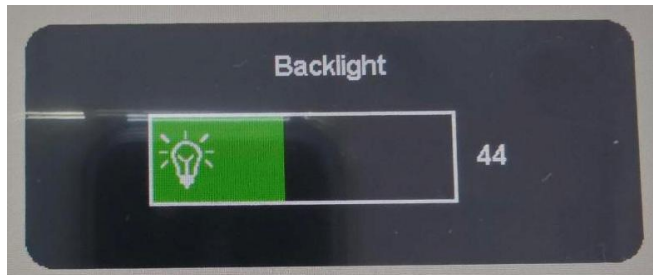
**Table 5-2: OSD Menu Structure**

## 5.3 Using the OSD

The OSD menu options are described below.

### 5.3.1 Backlight Button

The Backlight function is shown in **Figure 5-2**.



**Figure 5-2: Backlight**

**Backlight** Adjusts the intensity of the LCD backlight.

### 5.3.2 Audio Button

The Audio function is shown in **Figure 5-3**

## DM2-W270P(L) and DM2-W315Q(L) Monitor

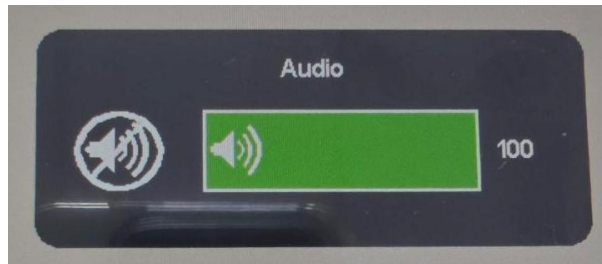


Figure 5-3: Audio

**Audio** Adjusts the volume of the audio

### 5.3.3 Input Button

Input options are shown in **Figure 5-4**.



Figure 5-4: Input Menu

Input options are described below.

- Auto Select** Selects the input device to use automatically.
- VGA** This item sets the input device to VGA.
- DP** This item sets the input device to DisplayPort.
- HDMI** This item sets the input device to HDMI

### 5.3.4 Settings Button

#### 5.3.4.1 Picture and Audio Setting

The Picture and Audio Setting are shown in **Figure 5-5**.



**Figure 5-5: Picture and Audio Setting**

- |                   |   |
|-------------------|---|
| <b>Backlight</b>  | Adjusts the intensity of the LCD backlight.   |
| <b>Brightness</b> | The brightness option adjusts the brightness of screen. This function adjusts the offset value of ADC. Setting this value too high or too low will affect the quality of image. |
| <b>Contrast</b>   | This function adjusts the gain value of ADC. Adjusting this value too high or too low will affect the quality of image.   |
| <b>Sharpness</b>  | Adjusts the sharpness level. This option softens the edges around objects on the screen.  |
| <b>Audio</b>      | Adjust the volume and mute directly.  |

## DM2-W270P(L) and DM2-W315Q(L) Monitor

### 5.3.4.2 Analog and input Setting

The Analog and input Setting are shown in **Figure 5-6**. The Analog menu is only available when using VGA connection.

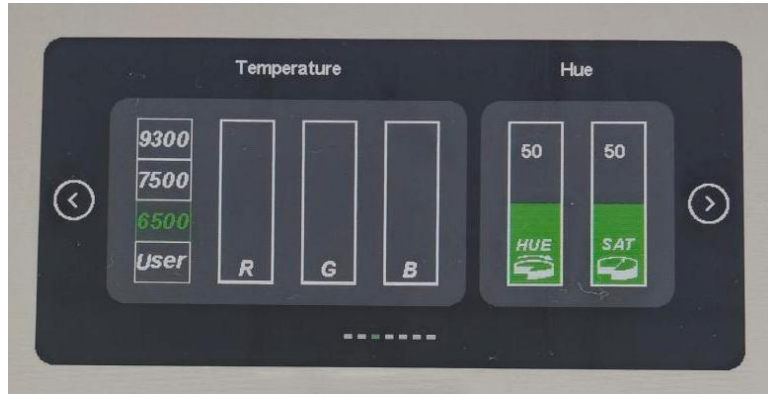


**Figure 5-6: Analog and input Setting**

<b>Auto Adjust</b>	Automatically adjusts the LCD screen position.
<b>H Position</b>	Adjusts the horizontal position of the display screen.
<b>V Position</b>	Adjusts the vertical position of the display screen.
<b>Clock</b>	Adjusts frequency to fill display.
<b>Phase</b>	Adjusts the phase control of image.
<b>Input</b>	Choose for your own use or select the input device you want to set, such as VGA/DP/HDMI.

### 5.3.4.3 Temperature and Hue Setting

Temperature and Hue Setting are shown in **Figure 5-7**.



**Figure 5-7: Temperature and Hue Setting**

#### Temperature

Adjust the Settings of the screen's white base and the overall color atmosphere.

- **9300k** – NTSC standard Kelvin
- **7500k** – NTSC standard Kelvin
- **6500k** – NTSC standard Kelvin
- **User** – This item allows fine-tuning for color hue balance among Red, Green, and Blue if images look garish or unrealistic.

#### Hue

Adjust the color tone of the screen. Changing this setting will shift the overall color balance between red and green, or between blue and yellow.

Adjust the color saturation of the image. A higher value yields more **SAT (Saturation)** vibrant and saturated colors, while a lower value makes colors progressively weaker, eventually resulting in a monochrome image.

## DM2-W270P(L) and DM2-W315Q(L) Monitor

### 5.3.4.4 Gamma, Color Effect and over Drive Setting

Gamma, Color Effect and over Drive Setting are shown in **Figure 5-8**.



**Figure 5-8: Gamma, Color Effect and Over Drive Setting**

<b>Gamma</b>	This item allows adjustment of the Gamma. (Control the brightness of the intermediate tone)
<b>Color Effect</b>	The function of changing the display color style can quickly adapt to the visual needs in different application scenarios.
<b>Over Drive</b>	Accelerate the response speed of the LCD and reduce the trailing and ghosting caused by rapid changes in the picture. (Adjust to the best gear carefully according to the actual situation)

### 5.3.4.5 Aspect Ratio, Ultra Vivid and USB Setting

Aspect Ratio, Ultra Vivid and USB Setting are shown in **Figure 5-9**.



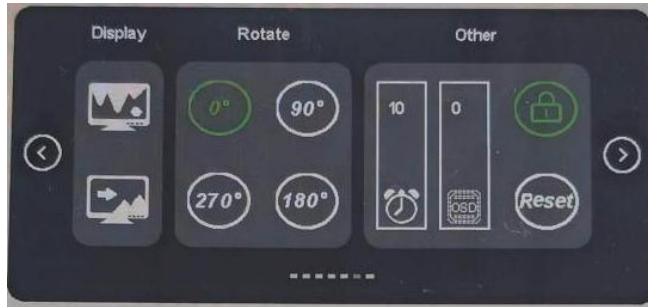
**Figure 5-9: Aspect Ratio, Ultra Vivid and USB Setting**

<b>Aspect Ratio</b>	Select the ratio of the width to the height of the monitor screen.
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- Ultra Vivid      Select the intensity or effect level of this mode.
- USB Setting      The control center for managing the USB interface of the display.

**5.3.4.6 Display, Rotate and Other Setting**

Display, Rotate and Other Setting are shown in **Figure 5-10**.



**Figure 5-10: Display, Rotate and Other Setting**

- Display**      Rotate the screen up and down in the right direction.
- Rotate**      Select the rotation Angle of the OSD display window.  
  
**Time:** Determines how many seconds the OSD screen stays on screen before it disappears when OSD is left unattended.
- Other**      **OSD:** Adjust the transparency of the OSD screen.  
  
**Reset:** Restores the default OSD settings. Note that this will restore all default display settings.

## DM2-W270P(L) and DM2-W315Q(L) Monitor

### 5.3.4.7 Information Menu

The Information menu provides information on the LCD monitor, such as firmware versions, Mode, input resolution and so on.



Figure 5-11: Information Menu

### 5.3.5 LCD ON/OFF Button

The LCD ON/OFF function is shown in **Figure 5-12**

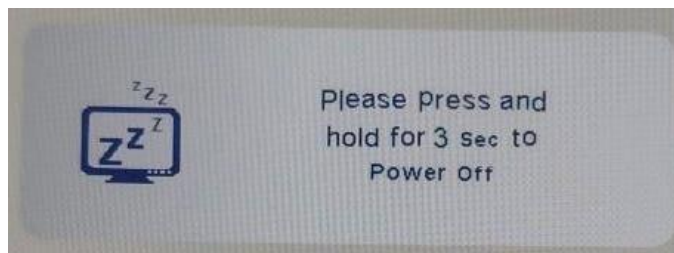


Figure 5-12: LCD ON/OFF

Appendix

A

# Regulatory Compliance

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## DM2-W270P(L) and DM2-W315Q(L) Monitor

### DECLARATION OF CONFORMITY



This equipment has been tested and found to comply with specifications for CE marking. If the user modifies and/or installs other devices in the equipment, the CE conformity declaration may no longer apply.

### FCC WARNING



This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

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.

Appendix

**B**

# Safety Precautions

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## DM2-W270P(L) and DM2-W315Q(L) Monitor



### WARNING:

The precautions outlined in this chapter should be strictly followed. Failure to follow these precautions may result in permanent damage to the DM2-W270P(L) and DM2-W315Q(L).

## 7.1 Safety Precautions

Please follow the safety precautions outlined in the sections that follow:

### 7.1.1 General Safety Precautions

Please ensure the following safety precautions are adhered to at all times.

- **Follow the electrostatic precautions** outlined below whenever the DM2-W270P(L) and DM2-W315Q(L) are opened.
- **Make sure the power is turned off and the power cord is disconnected** whenever the DM2-W270P(L) and DM2-W315Q(L) are being installed, moved or modified.
- **Do not apply voltage levels that exceed the specified voltage range.** Doing so may cause fire and/or an electrical shock.
- **Electric shocks can occur** if the DM2-W270P(L) and DM2-W315Q(L) chassis is opened when the DM2 Series is running.
- **Do not drop or insert any objects** into the ventilation openings of the DM2-W270P(L) and DM2-W315Q(L).
- **If considerable amounts of dust, water, or fluids enter the DM2-W270P(L) and DM2-W315Q(L)**, turn off the power supply immediately, unplug the power cord, and contact the DM2-W270P(L) and DM2-W315Q(L) vendor.
- **DO NOT:**
  - Drop the DM2-W270P(L) and DM2-W315Q(L) against a hard surface.
  - Strike or exert excessive force onto the LCD panel.
  - Touch any of the LCD panels with a sharp object
  - In a site where the ambient temperature exceeds the rated temperature

### 7.1.2 Anti-static Precautions

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**WARNING:**

Failure to take ESD precautions during the installation of the DM2-W270P(L) and DM2-W315Q(L) may result in permanent damage to the DM2-W270P(L) and DM2-W315Q(L) and severe injury to the user.

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Electrostatic discharge (ESD) can cause serious damage to electronic components, including the DM2-W270P(L) and DM2-W315Q(L). Dry climates are especially susceptible to ESD. It is therefore critical that whenever the DM2-W270P(L) and DM2-W315Q(L) are opened and any of the electrical components are handled, the following anti-static precautions are strictly adhered to.

- ***Wear an anti-static wristband:*** Wearing a simple anti-static wristband can help to prevent ESD from damaging any electrical component.
- ***Self-grounding:*** Before handling any electrical component, touch any grounded conducting material. During the time the electrical component is handled, frequently touch any conducting materials that are connected to the ground.
- ***Use an anti-static pad:*** When configuring or working with an electrical component, place it on an anti-static pad. This reduces the possibility of ESD damage.
- ***Only handle the edges of the electrical component:*** When handling the electrical component, hold the electrical component by its edges.

## DM2-W270P(L) and DM2-W315Q(L) Monitor

### 7.1.3 Product Disposal



#### CAUTION:

Risk of explosion if the battery is replaced by an incorrect type;

Replacement of a battery with an incorrect type that can defeat a safeguard (for example, in the case of some lithium battery types);

Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion;

Leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas;

A battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas;

Dispose of used batteries according to instructions and local regulations.

- Outside the European Union – If you wish to dispose of used electrical and electronic products outside the European Union, please contact your local authority so as to comply with the correct disposal method.
- Within the European Union – The device that produces less waste and is easier to recycle is classified as electronic device in terms of the European Directive 2012/19/EU (WEEE), and must not be disposed of as domestic garbage.



EU-wide legislation, as implemented in each Member State, requires that waste electrical and electronic products carrying the mark (left) must be disposed of separately from normal household waste. This includes monitors and electrical accessories, such as signal cables or power cords. When you need to dispose of your

display products, please follow the guidance of your local authority, or ask the shop where you purchased the product. The mark on electrical and electronic products only applies to the current European Union Member States.

Please follow the national guidelines for electrical and electronic product disposal.

## **7.2 Maintenance and Cleaning Precautions**

When maintaining or cleaning the DM2-W270P(L) and DM2-W315Q(L), please follow the guidelines below.

### **7.2.1 Maintenance and Cleaning**

Prior to cleaning any part or component of the DM2-W270P(L) and DM2-W315Q(L), please read the details below.

- Except for the LCD panel, never spray or squirt liquids directly onto any other components. To clean the LCD panel, gently wipe it with a piece of soft dry cloth or a slightly moistened cloth.
- The interior of the DM2-W270P(L) and DM2-W315Q(L) do not require cleaning. Keep fluids away from the DM2-W270P(L) and DM2-W315Q(L) interior.
- Be cautious of all small removable components when vacuuming the DM2-W270P(L) and DM2-W315Q(L).
- Turn the DM2-W270P(L) and DM2-W315Q(L) off before cleaning the DM2-W270P(L) and DM2-W315Q(L).
- Never drop any objects or liquids through the openings of the DM2-W270P(L) and DM2-W315Q(L).
- Be cautious of any possible allergic reactions to solvents or chemicals used when cleaning the DM2-W270P(L) and DM2-W315Q(L).
- Avoid eating, drinking and smoking within vicinity of the DM2-W270P(L) and DM2-W315Q(L).

### **7.2.2 Cleaning Tools**

Some components in the DM2-W270P(L) and DM2-W315Q(L) may only be cleaned using a product specifically designed for the purpose. In such case, the product will be explicitly

## DM2-W270P(L) and DM2-W315Q(L) Monitor

mentioned in the cleaning tips. Below is a list of items to use when cleaning the DM2-W270P(L) and DM2-W315Q(L).

- Cloth – Although paper towels or tissues can be used, a soft, clean piece of cloth is recommended when cleaning the DM2-W270P(L) and DM2-W315Q(L).
- Water or rubbing alcohol – A cloth moistened with water or rubbing alcohol can be used to clean the DM2-W270P(L) and DM2-W315Q(L).
- Using solvents – The use of solvents is not recommended when cleaning the DM2-W270P(L) and DM2-W315Q(L) as they may damage the plastic parts.
- Vacuum cleaner – Using a vacuum specifically designed for computers is one of the best methods of cleaning the DM2-W270P(L) and DM2-W315Q(L). Dust and dirt can restrict the airflow in the DM2-W270P(L) and DM2-W315Q(L) and cause its circuitry to corrode.
- Cotton swabs - Cotton swabs moistened with rubbing alcohol or water are excellent tools for wiping hard to reach areas.
- Foam swabs - Whenever possible, it is best to use lint free swabs such as foam swabs for cleaning.

Appendix

C

# Hazardous Materials Disclosure

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## DM2-W270P(L) and DM2-W315Q(L) Monitor

### 8.1 RoHS II Directive (2015/863/EU)

The details provided in this appendix are to ensure that the product is compliant with the RoHS II Directive (2015/863/EU). The table below acknowledges the presences of small quantities of certain substances in the product, and is applicable to RoHS II Directive (2015/863/EU).

Please refer to the following table.

Part Name	Toxic or Hazardous Substances and Elements									
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (CR(VI))	Polybrominated Biphenyls (PBB)	Polybrominated Diphenyl Ethers (PBDE)	Bis(2-ethylhexyl) phthalate (DEHP)	Butyl benzyl phthalate (BBP)	Dibutyl phthalate (DBP)	Diisobutyl phthalate (DIBP)
Housing	O	O	O	O	O	O	O	O	O	O
Display	O	O	O	O	O	O	O	O	O	O
Printed Circuit Board	O	O	O	O	O	O	O	O	O	O
Metal Fasteners	O	O	O	O	O	O	O	O	O	O
Cable Assembly	O	O	O	O	O	O	O	O	O	O
Fan Assembly	O	O	O	O	O	O	O	O	O	O
Power Supply Assemblies	O	O	O	O	O	O	O	O	O	O
Battery	O	O	O	O	O	O	O	O	O	O
<p>O: This toxic or hazardous substance is contained in all of the homogeneous materials for the part is below the limit requirement in Directive (EU) 2015/863.</p> <p>X: This toxic or hazardous substance is contained in at least one of the homogeneous materials for this part is above the limit requirement in Directive (EU) 2015/863.</p>										

## 8.2 China RoHS

此附件旨在确保本产品符合中国 RoHS 标准。以下表格标示此产品中某有毒物质的含量符合中国 RoHS 标准规定的限量要求。

本产品上会附有“环境友好使用期限”的标签，此期限是估算这些物质“不会有泄漏或突变”的年限。本产品可能包含有较短的环境友好使用期限的可替换元件，像是电池或灯管，这些元件将会单独标示出来。

部件名称	有毒有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (CR(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
壳体	○	○	○	○	○	○
显示	○	○	○	○	○	○
印刷电路板	○	○	○	○	○	○
金属螺帽	○	○	○	○	○	○
电缆组装	○	○	○	○	○	○
风扇组装	○	○	○	○	○	○
电力供应组装	○	○	○	○	○	○
电池	○	○	○	○	○	○

○: 表示该有毒有害物质在该部件所有物质材料中的含量均在 SJ/T11364-2014 與 GB/T26572-2011 标准规定的限量要求以下。

X: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T11364-2014 與 GB/T26572-2011 标准规定的限量要求。