

# **IPPL Series**

## **Industrial Touch Monitor**

### **User Manual**

Version 1.0



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# Compliance

## CE

This product has passed CE tests for environmental specifications and limits. This product is in accordance with the directives of the European Union (EU). If users modify and/or install other devices in this equipment, the CE conformity declaration may no longer apply.

## FCC

This product has been tested and found to comply with the limits for a Class B device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with manufacturer's instructions, may cause harmful interference to radio communications.

## WEEE



This product must not be disposed of as normal household waste, in accordance with the EU directive for waste electrical and electronic equipment (WEEE - 2012/19/EU). Instead, it should be disposed of by returning it to a municipal recycling collection point. Check local regulations for disposal of electronic products.

## Green IBASE



This product complies with RoHS 2 restrictions, which prohibit the use of certain hazardous substances in electrical and electronic equipment. The following substances must not exceed the specified concentrations:

- Hexavalent chromium: 1,000 ppm
- Poly-brominated biphenyls (PBBs): 1,000 ppm
- Poly-brominated diphenyl ethers (PBDEs): 1,000 ppm
- Cadmium: 100 ppm
- Mercury: 1,000 ppm
- Lead: 1,000 ppm
- Bis(2-ethylhexyl) phthalate (DEHP): 1,000 ppm
- Butyl benzyl phthalate (BBP): 1,000 ppm
- Dibutyl phthalate (DBP): 1,000 ppm
- Diisobutyl phthalate (DIBP): 1,000 ppm

## Important Safety Information

Read the following precautions carefully before using the device.

### Environmental conditions:

- Place the device horizontally on a stable and solid surface to prevent it from falling and causing serious damage.
- Ensure there is adequate space around the device to ensure proper ventilation and cooling.

### Care for your iBASE products:

- Before cleaning the device, turn it off and unplug all cables, including the power cable, to avoid electrical shock.
- Clean the device chassis using neutral cleaning agents or diluted alcohol applied with a cloth, then dry it using a separate, dry cloth.
- Use a computer vacuum cleaner to remove dust and prevent clogging of air vents or slots.



## WARNING

### Attention during use:

- Avoid using this product near water.
- Do not spill water or any other liquids on your device.
- Do not place heavy objects on top of the device.
- Use the device with the type of power specified on the marking label. If unsure of the type of power available, consult your distributor or local power company.
- Do not walk on the power cord or allow anything to rest on it.
- If using an extension cord, ensure that the total ampere rating of the devices plugged into it does not exceed the cord's capacity.

### Avoid Disassembly

Do not disassemble, repair or modify the device in any way. Disassembly, modification, or any attempt at repair could generate hazards and cause damage to the device, even bodily injury or property damage, and will void any warranty.



## CAUTION

Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

## Warranty Policy

- **IBASE standard products:**

24-month (2-year) warranty from the date of shipment. If the date of shipment cannot be ascertained, product serial numbers can be used to determine the approximate shipping date.

- **3<sup>rd</sup>-party parts:**

12-month (1-year) warranty from delivery for the 3<sup>rd</sup>-party parts that are not manufactured by IBASE, such as CPUs, memory, HDDs, power adapters, panels and touchscreens.

- **Warranty Exclusions:**

Products that fail due to misuse, accident, improper installation, or unauthorized repair will be considered out of warranty. Customers will be responsible for repair and shipping charges.

## Technical Support & Services

1. Visit the IBASE website at [www.ibase.com.tw](http://www.ibase.com.tw) to find the latest information about the product.
2. If you need any further assistance from your distributor or sales representative, prepare the following information of your product and elaborate upon the problem.
  - Product model name
  - Product serial number
  - Detailed description of the problem
  - The error messages in text or in screenshots if there is any
  - The arrangement of the peripherals
  - Software in use (such as OS and application software, including the version numbers)
3. If repair service is required, please go to the IBASE website to apply for an RMA number.

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# Chapter 1

## General Information

The information provided in this chapter includes:

- Features
- Packing List
- Optional Accessories
- Specifications
- Product View
- Dimensions

## 1.1 Introduction

The IPPL-W215 is an industrial monitor that is the perfect match for the ACS embedded system to become an IXPC. The IXPC-W215 industrial modular panel PC is an innovative two-in-one interactive display solution that seamlessly integrates a 21.5" fully waterproof touch screen (IPPL-W215) with a high-power PD 60W rugged embedded system (ACS200) via a USB Type-C single cable connection. It offers two different combination modes, rear mounted or within 2 meters range through an industrial-grade waterproof Type-C cable.



Designed for smart factories, industrial automation, smart retail, POS and kiosks, the IXPC-W215 offers high performance, easy installation, and superior connectivity. The IPPL-W215 features a Full HD (1920x1080) LCD panel with a wide viewing angle and a projected capacitive touchscreen, delivering 800-nit brightness for excellent visibility. Its IP65-rated front panel and IP54-rated body ensure waterproof protection, making it ideal for harsh environments. Its VESA 100x100mm mounting and 6mm T&V-slot linear rail groove design allows for flexible installation. Paired with the ACS200, a high-performance embedded system powered by Intel® Atom® x7000E Series, N-series or Core™ 3 Processor N355, it ensures seamless edge computing performance with expandable M.2 slots for WiFi, 4G/5G, Nano SIM slot and dual storage RAID 1 support.

With a single USB Type-C cable supporting data, video, and power delivery up to 60W, the IXPC-W215 simplifies cabling, reduces clutter, and enhances reliability. Whether used in POS, production lines, or industrial control systems, this highly adaptable and modular panel PC redefines efficiency and performance in the industrial computing landscape. Its modular structure, industrial-grade durability, and seamless connectivity set a new standard for next-generation industrial panel PCs.

## 1.2 Features

- PCAP (Projected Capacitive Touch) – Cover Glass 1.8 or 3mm
- Fully Waterproof Design (Front Panel IP65 and Body IP54)
- Auto dimming function
- USB-C single cable connection with ACS Box PC (20V/3A)
- Compliance with EU 6mm T&V-Slot™ Linear Rail
- Supports OSD button locking function
- Reserve HDMI, Audio out, DC-IN and USB 2.0 x2 for K/B, Card Reader, Barcode Scanner
- Internal USB 2.0 x2 Reserved for Touch and Camera
- Wide Range Power Input +12V ~ 24 VDC
- 15.6" support 350 and 500nits FHD panel (only 12V)
- 21.5" support 250, 500, 1500 nits FHD Panel
- 27" support 300, 500, 1500 nits FHD panel

## 1.3 Packing List

Your product package should include the items listed below. If any of the items below is missing, contact the distributor or the dealer from whom you purchased the product.

- IPPL series Touch Monitor
- USB Type-C Cable (200CM)
- M5 T-Nut for T/V slot x 10pcs on bezel
- ACS200, 300 Series Box PC Bolt Kit

## 1.4 Optional Items

- HD or FHD USB Camera Module
- IR remote controller
- Stereo Speaker 3W
- UV and IR-Cut Heat Blocking Film

## 1.5 Specifications

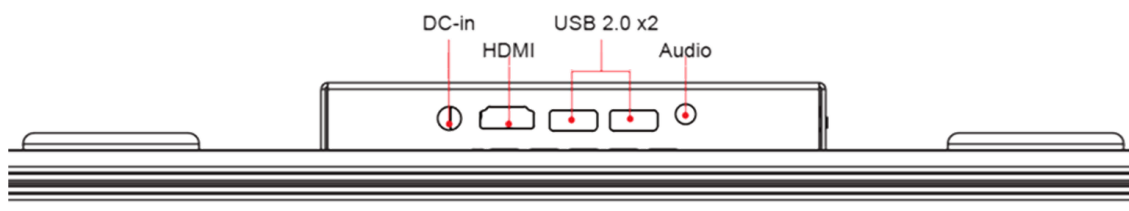
IPPL Series Specifications	
Display Size	15.6 inch 1920x1080 350 or 500nits FHD panel
	21.5 inch 1920x1080 250, 500 or 1500nits FHD panel
	27 inch 1920x1080 300, 500 or 1500nits FHD panel
Touch	Projected Capacitive Touch (10 Points Multi-Touch)
Side External I/O	USB Type-C waterproof connector (IPX7)
Reserve Bottom I/O (Open the cover w/o fully waterproof)	DC-IN 12~24V for monitor when not enough USB-C PD power supply. <18 inch DC-IN 12V only. 1x HDMI-IN 2x USB 2.0 1x 3.5mm Earphone Jack Socket
OSD Button	5x Button 1 x LED indicator
Construction	Aluminum + SGCC
Chassis Color	Gray & Gray
Mounting	VESA mounting (100x100mm) Side Mount via T-Slot nut ACS Series Mounting KIT
Dimensions and Weight	15.6" 402mm(W) x 251mm(H) x 40mm(D) 3.5Kg
	21.5" 540mm(W) x 331.3mm(H) x 40mm(D) 5.6Kg
	27" 662mm(W) x 401mm(H) x 40mm(D) 9.5Kg
Certification	CE/ FCC Class B/ LVD
Environment	
Operating Temperature	0°C~45°C
Storage Temperature	- 10°C~60°C
Relative Humidity	5~90% @ 45°C, (non-condensing)
Vibration	<ul style="list-style-type: none"> <li>Operating: 0.5Grms / 5~500Hz</li> <li>Non-operating: 1Grms / 5~500Hz</li> </ul>
Shock	<ul style="list-style-type: none"> <li>Operating: 30G/11 ms Duration</li> <li>Non-operating: 40G/11 ms Duration</li> </ul>

All specifications are subject to change without prior notice.

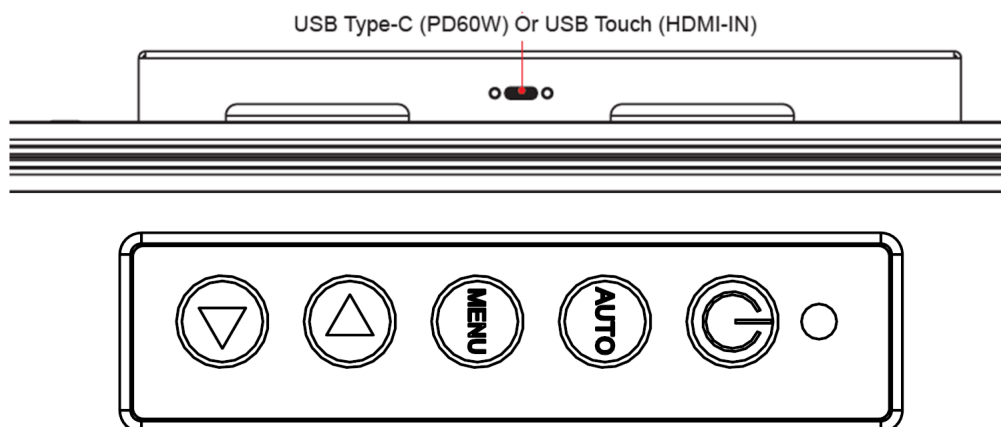
### 1.6 Product View



#### Open Cover for Bottom I/O



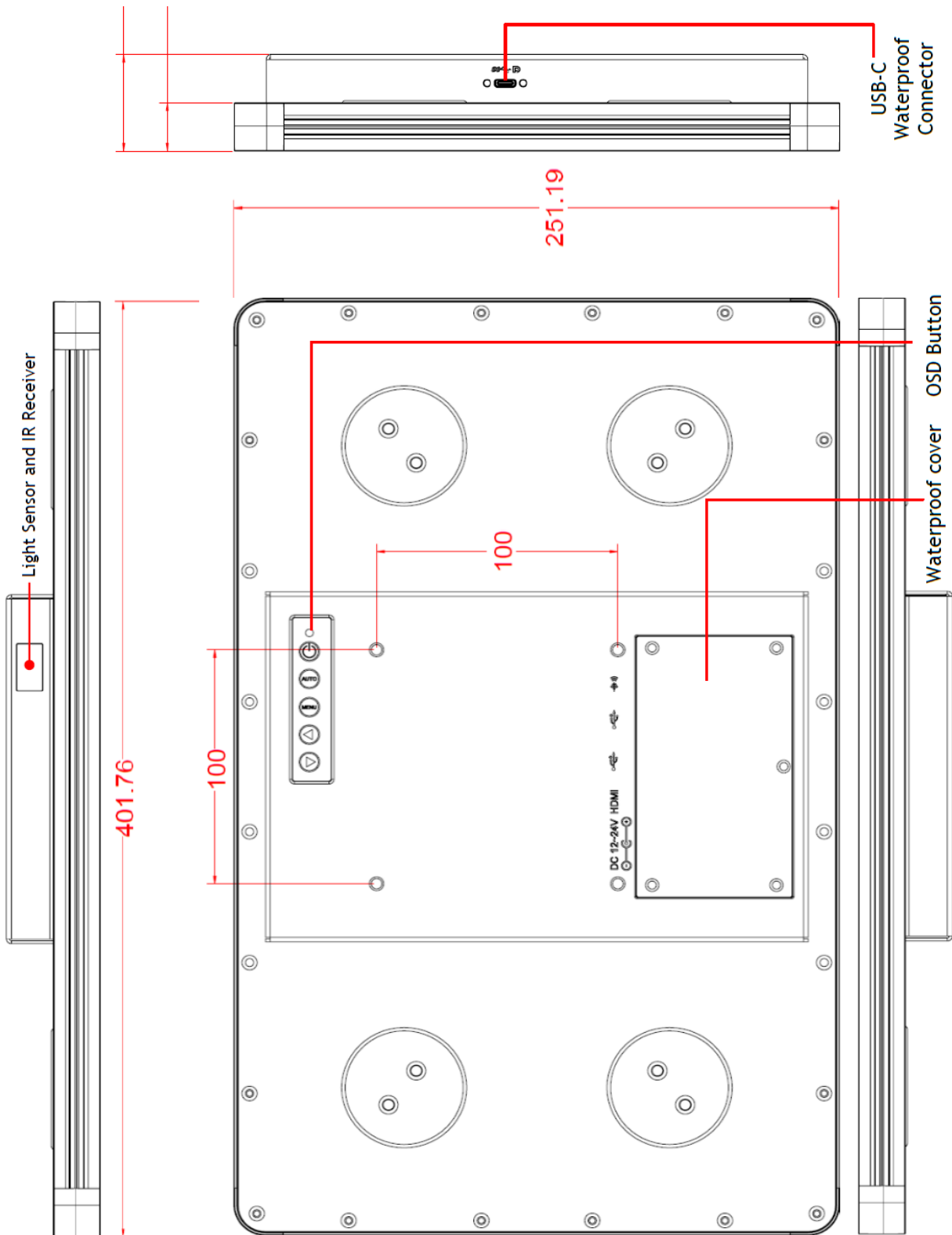
#### Side External I/O (Waterproof Type-C) Single Cable Connection



1.7 Dimensions

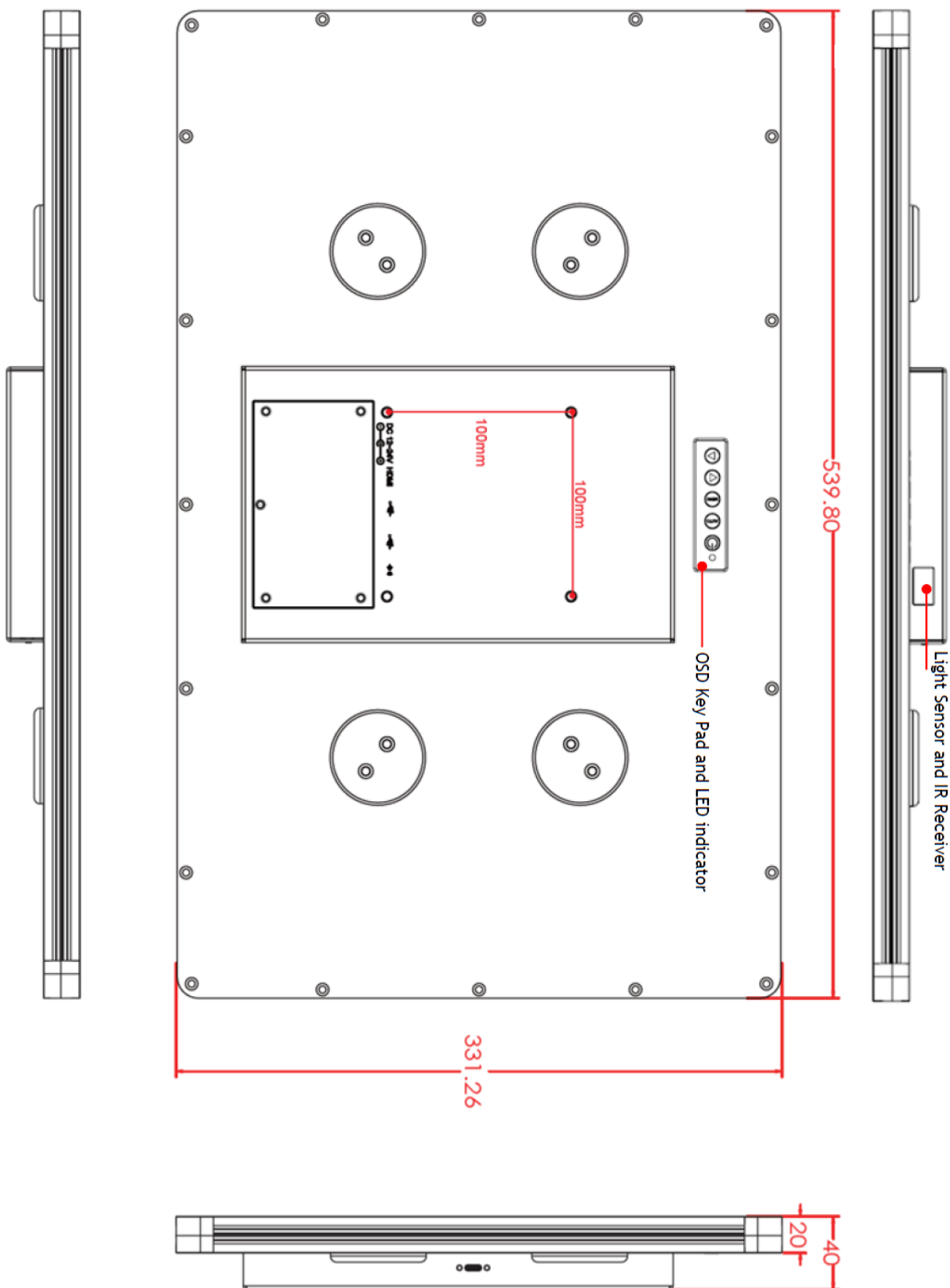
Unit: mm

IPPL-W156 Series Dimensions

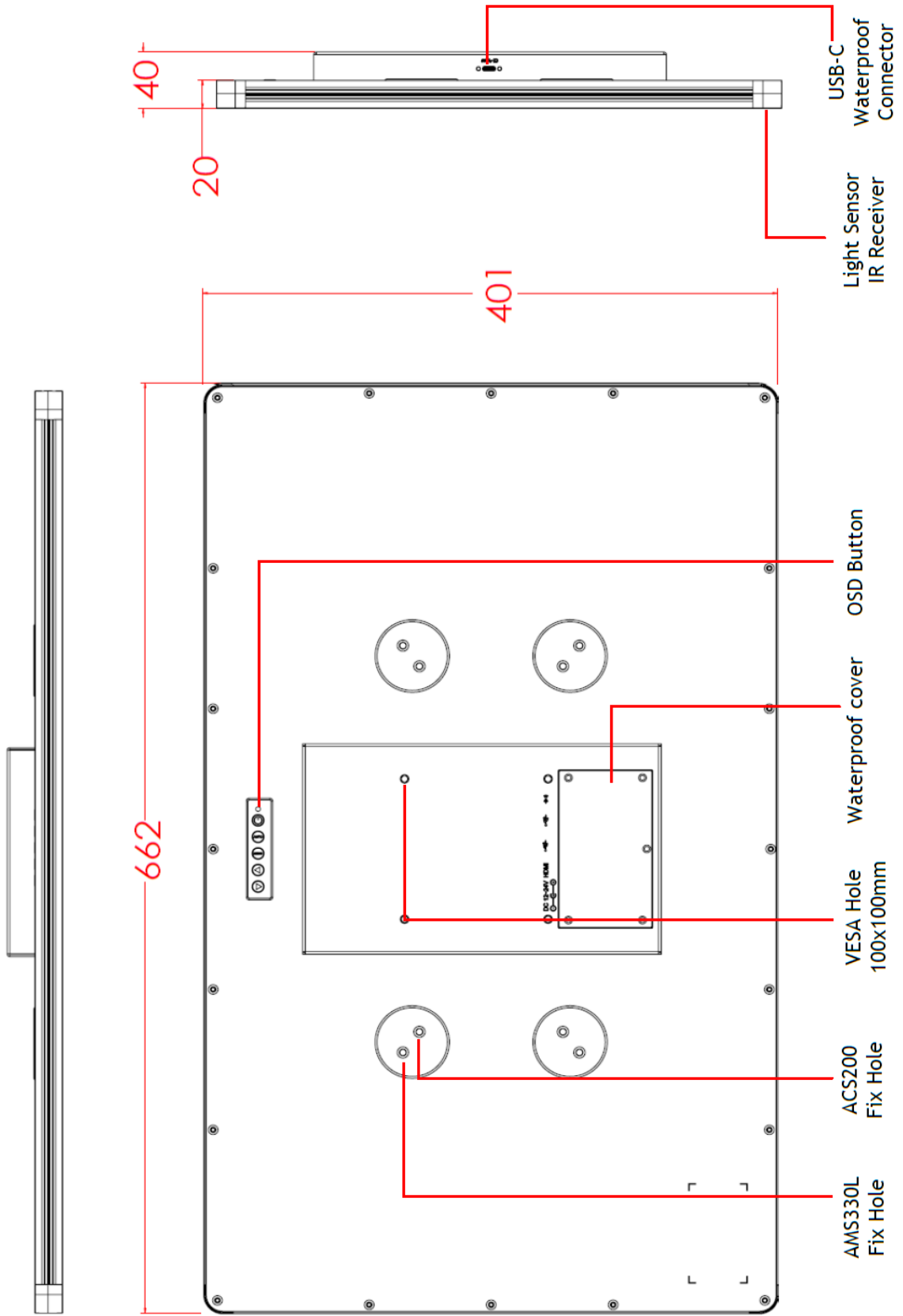


Unit: mm

IPPL-W215 Series Dimensions



IPPL-W270 Series Dimensions



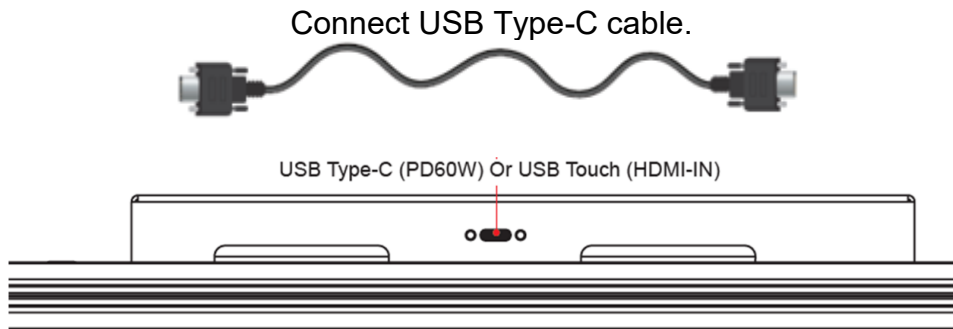
## Chapter 2

# Hardware Configuration

The information provided in this chapter includes:

- Installations
- Information and locations of connectors

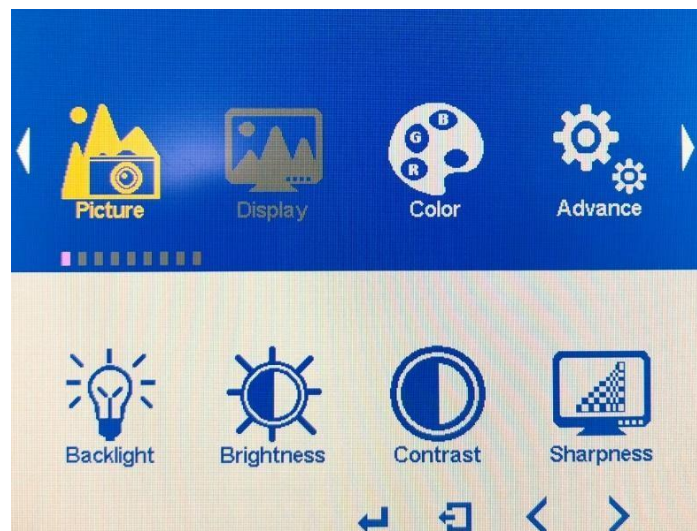
## 2.1 Installations



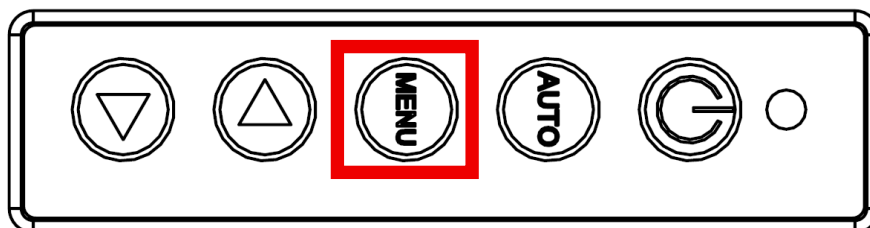
DC-IN 12 or 24V for monitor when not enough USB-C PD power supply.  
Such as laptop USB-C 5V/3A need extra DC-IN 12V.

## 2.2 OSD Menu


OSD Menu instruction on the control keys.





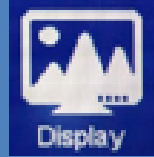
1. Press the MENU-button to activate the OSD window.















2. Press Up or Down to navigate through the functions. Once the desired function is highlighted, press the Menu-button to activate it. If there is a sub-menu, press Up or Down to navigate through the sub-menu functions.
3. After adjusting the value, press Menu-button to save the value.
4. Press Menu-button to select Exit. It will exit the OSD Window.





Main Menu	Sub-Menu	Description	Default
 Picture	 Backlight	Adjust the Value of Backlight.	Default = 100 Min. / Max: 0/100
	 Brightness	Adjust the Value of Brightness.	Default = 50 Min. / Max: 0/100
	 Contrast	Adjust the Value of Contrast.	Default = 50 Min. / Max: 0/100
	 Sharpness	Adjust the Value of Sharpness.	Default = 2 Min. / Max: 0/4

Main Menu	Sub-Menu	Description	Default
 Display	 Disp Rotate	Disp. Rotate	Default=0 0 / 180









Main Menu	Sub-Menu	Description	Default
 Display	 Disp Rotate	Disp. Rotate	Default = 0 0 / 180

Main Menu	Sub-Menu	Description	Default
 Color	 Panel Uniformity	Panel Uniformity	Default=On On/Off
	 Gamma	Gamma : Off, 1.8, 2.0, 2.2	Default=Off
	 Temperature	Temperature : 9300、7500、6500、5800、 sRGB User	Default=User
	 Hue	Adjust the Value of Hue.	Default=50
	 Saturation	Adjust the Value of Saturation.	Default=50

Main Menu	Sub-Menu	Description	Default
 Advance	 Aspect Ratio	Aspect Ratio : Full, 16:9, 4:3, 5:4, 1:1, User	Default=Full
	 Over Drive	Over Drive : On/Off、OD Gain (0~100)	Default=Off Gain Default=50
	 DDCCI	DDCCI ( On/Off )	Default=On
	 Light Sensor	Light Sensor ( On/Off )	Default=Off
	 Power Control	USB Power Control : On/Off On : USB provide 5V when When Power saving mode. Off : USB no power when When Power saving mode.	Default=On

Main Menu	Sub-Menu	Description	Default
 Input	 Auto Select	Auto Select Signal	Default
	 D0: USB-C	USB Type-C Signal (DP Signal)	
	 D1: HDMI	HDMI Signal	

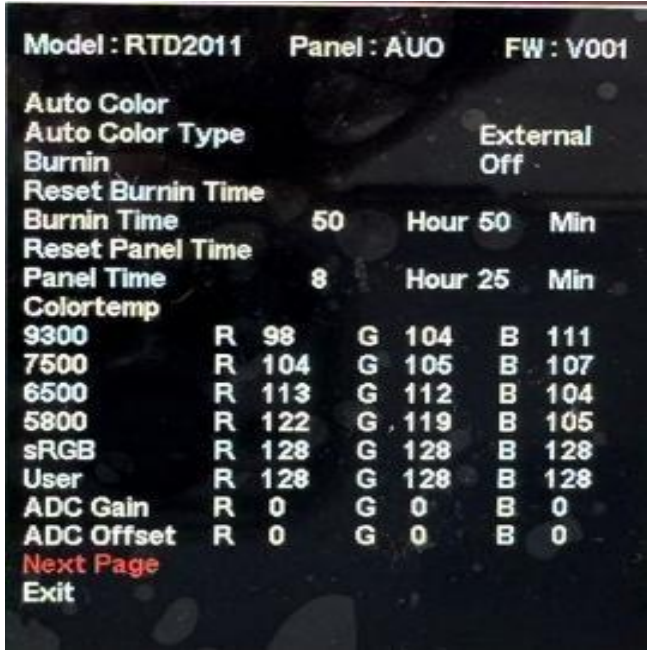
Main Menu	Sub-Menu	Description	Default
 Audio	 Volume	Adjust the Value of Volume.	Default=50 Min. / Max : 0/100
	 Mute	Select the Audio Mute (On/Off)	Default=Off
	 AudioSource	Select Analog or Digital Audio	Default = Input Signal

Main Menu	Sub-Menu	Description	Default
 Other	 Reset	Return to Factory Default	
	 Menu Time	Adjust OSD Menu Time.	Default=10 Min. / Max : 10/60
	 OSD H Position	Adjust OSD H. Position.	Default=50 Min. / Max : 0/100
	 OSD V Position	Adjust OSD V. Position.	Default=50 Min. / Max : 0/100
	 Language	Select OSD Language : English、繁體中文	Default=English
	 Transparency	OSD Menu Transparency	Default=0
	 Rotate	OSD Menu Rotate 0, 90, 270	Default=0

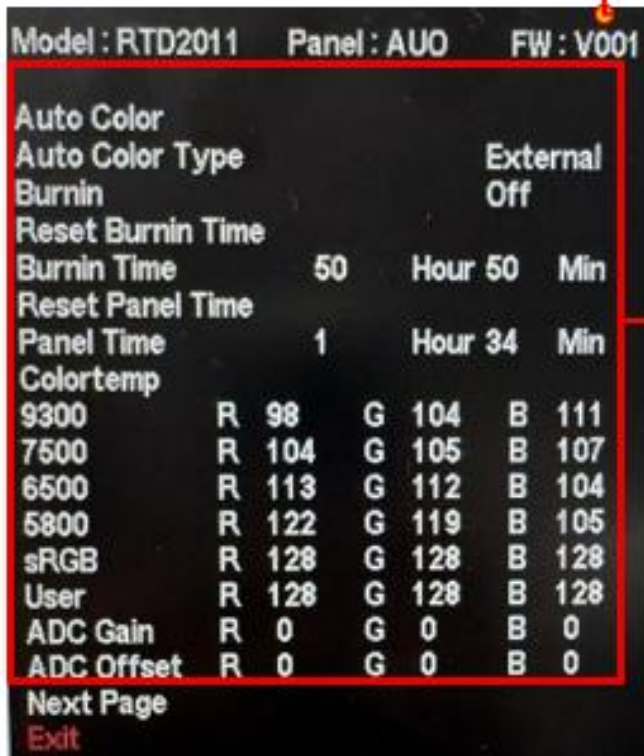
Main Menu	Description
	 <p data-bbox="596 674 807 701">Light Sensor = Off</p>  <p data-bbox="596 1111 807 1137">Light Sensor = On</p> <p data-bbox="596 1171 1177 1198">Enter the OSD Information and press Menu Key.</p> <p data-bbox="596 1223 1294 1249">The light sensor will show the ambient light readings.</p>

## 2.3 Factory Mode

OSD Press Menu + Down Key - enter Factory Mode.



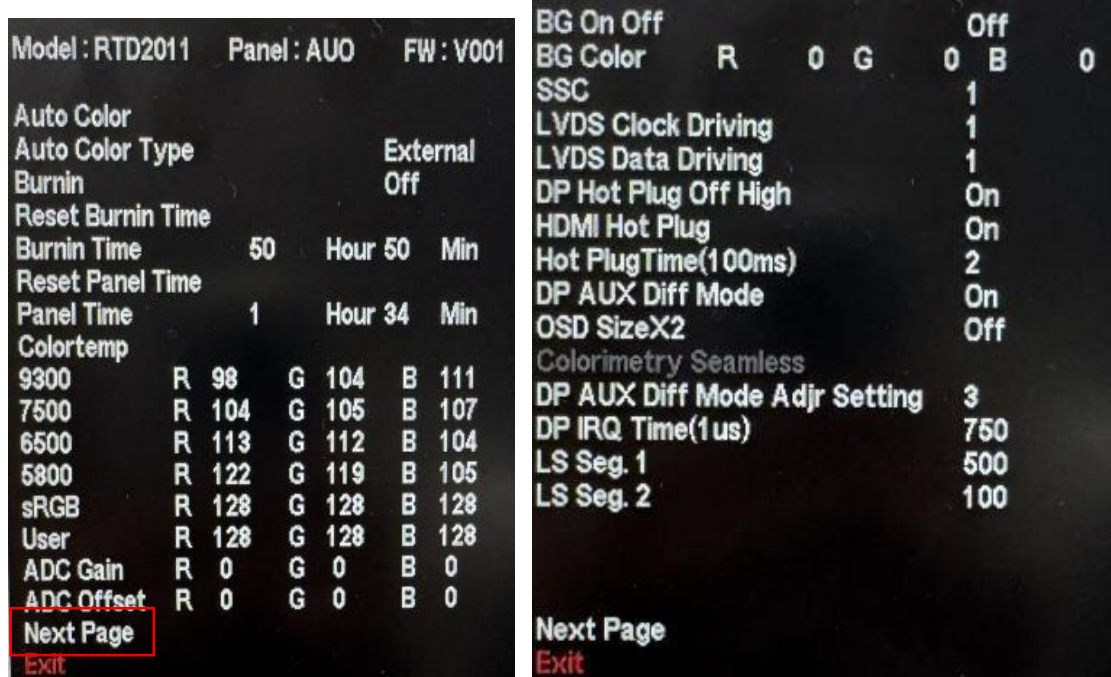
Firmware Version



For R&D Reference

## 2.4 Auto Dimming Adjust

Select "Next Page" and enter.

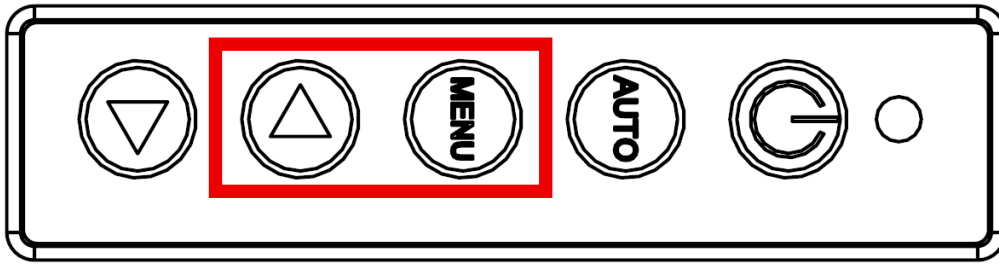


LS Seg.1 > 500 → Maximum brightness of panel backlight. Duty cycle = 100%

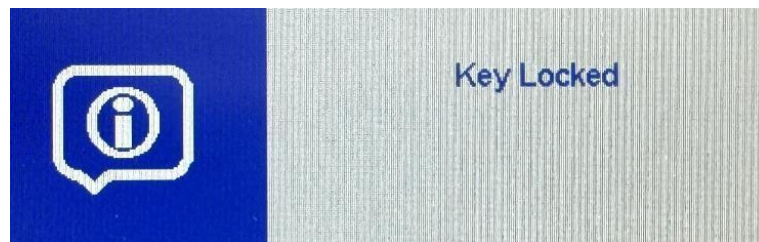
100~500 → Middle brightness of panel backlight. Duty cycle = 50%

LS Seg.2 < 100 → Minimum brightness of panel backlight. Duty cycle = 20%

## 2.5 OSD Key Lock Function



Press Menu + Up Key - Enable “ Key Lock ”



Press Menu + Up Key again - Disable “ Key Lock ”

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