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# PB3701 LCD Display User Manual



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# SAFETY INFORMATION

CE



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

## Waste Electrical and Electronic Equipment-WEEE



This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product

For Private Households in the European Union. To help conserve natural resources and ensure the product is recycled in a manner that protects human health and the environment, we would like to bring your attention to the following:

- The crossed-out dustbin on the device or outer packaging indicates the product is compliant with European WEEE (Waste Electrical and Electronic Equipment) Directive
- Always dispose of the old devices separately from household waste
- Batteries should be removed beforehand and disposed separately to the right collection system
- You are responsible with regard to the deletion of personal data on old devices before disposal
- Private households can hand in their old devices free of charge
- For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product

## Turkey RoHS

Türkiye Cumhuriyeti: EEE Yönetmeliğine Uygundur.

## Ukraine RoHS

Обладнання відповідає вимогам Технічного регламенту щодо обмеження використання деяких небезпечних речовин в електричному та електронному обладнанні, затвердженого постановою Кабінету Міністрів України від 3 грудня 2008 № 1057.

# PRECAUTIONS



## Symbols used in this manual

	This icon indicates the existence of a potential hazard that could result in personal injury or damage to the product.
	This icon indicates important operating and servicing information.

## Notice

- Read this User Manual carefully before using the LCD display and keep it for future reference.
- The product specifications and other information provided in this User Manual are for reference only. All information is subject to change without notice. Updated content can be downloaded from our web site at [www.agneovo.com](http://www.agneovo.com).
- To protect your rights as a consumer, do not remove any stickers from the LCD display. Doing so may affect the determination of the warranty period.

## Cautions When Setting Up

- Do not place the LCD display near heat sources, such as a heater, exhaust vent, or in direct sunlight.
- Do not cover or block the ventilation holes in the housing.
- Place the LCD display on a stable area. Do not place the LCD display where it may subject to vibration or shock.
- Place the LCD display in a well-ventilated area.
- Do not place the LCD display outdoors.
- To avoid the risk of shock or permanent damage to the set, do not expose the display to dust, rain, water or an excessively moist environment.
- Do not spill liquid or insert sharp objects into the LCD display through the ventilation holes. Doing so may cause accidental fire, electric shock or damage the LCD display.

# PRECAUTIONS

## Cautions When Using

- Use only the power cord supplied with the LCD display.
- The power outlet should be installed near the LCD display and be easily accessible.
- If an extension cord is used with the LCD display, ensure that the total current consumption plugged into the power outlet does not exceed the ampere rating.
- Do not allow anything to rest on the power cord. Do not place the LCD display where the power cord may be stepped on.
- If the LCD display will not be used for an indefinite period of time, unplug the power cord from the power outlet.
- To disconnect the power cord, grasp and pull by the plug head. Do not tug on the cord; doing so may cause fire or electric shock.
- Do not unplug or touch the power cord with wet hands.
- When turning off the display by detaching the power cord, wait 6 seconds before re-attaching the power cord for normal operation.
- Do not knock or drop the display during operation or transportation.

## Cleaning and Maintenance

- To protect your display from possible damage, do not put excessive pressure on the LCD panel. When moving your display, grasp the frame to lift; do not lift the display by placing your hand or fingers on the LCD panel.
- Unplug the display if you need to clean it with a slightly damp cloth. The screen may be wiped with a dry cloth when the power is off. However, never use organic solvent, such as, alcohol, or ammonia-based liquids to clean your display.
- If your display becomes wet, wipe it with dry cloth as soon as possible.
- If a foreign substance or water gets in your display, turn the power off immediately and disconnect the power cord. Then remove the foreign substance or water, and send the unit to the maintenance center.
- In order to maintain the best performance of your display and ensure a longer lifetime, we strongly recommend using the display in a location that falls within the following temperature and humidity ranges.
  - ◆ Temperature: 0-40°C (32-104°F)
  - ◆ Humidity: 20-80% RH



### Warning:



Unplug the power cord from the power outlet and refer to qualified service

personnel under the following conditions:

- ◆ When the power cord is damaged.
- ◆ If the LCD display has been dropped or the housing has been damaged.
- ◆ If the LCD display emits smoke or a distinct odor.

# PRECAUTIONS

## Notice for the LCD Display

- In order to maintain the stable luminous performance, it is recommended to use low brightness setting.
- Due to the lifespan of the lamp, it is normal that the brightness quality of the LCD display may decrease with time.
- When static images are displayed for long periods of time, the image may cause an imprint on the LCD display. This is called image retention or burn-in.
  - ◆ To prevent image retention, do any of the following:
    - Set the LCD display to turn off after a few minutes of being idle.
    - Use a screen saver that has moving graphics or a blank white image.
    - Execute the ANTI-BURN-IN function of the LCD display. See **Other > ANTI-BURN-IN** section.
    - Switch desktop backgrounds regularly.
    - Adjust the LCD display to low brightness settings.
    - Turn off the LCD display when the system is not in use.
  - ◆ Things to do when the LCD display shows image retention:
    - Turn off the LCD display for extended periods of time. It can be several hours or several days.
    - Use a screen saver and run it for extended periods of time.
    - Use a black and white image and run it for extended periods of time.
- There are millions of micro transistors inside the LCD display. It is normal for a few transistors to be damaged and to produce spots. This is acceptable and is not considered a failure.
- **IMPORTANT:** Always activate a moving screen saver program when you leave your display unattended. Always activate a periodic screen refresh application if the unit will display unchanging static content. Uninterrupted display of still or static images over an extended period may cause “burn in”, also known as “after-imaging” or “ghost imaging”, on your screen. This is a well-known phenomenon in LCD panel technology. In most cases, the “burned in” or “after-imaging” or “ghost imaging” will disappear gradually over a period of time after the power has been switched off.
- **WARNING:** Severe “burn-in” or “after-image” or “ghost image” symptoms will not disappear and cannot be repaired. This is also not covered under the terms of your warranty.

# CHAPTER 1: PRODUCT DESCRIPTION

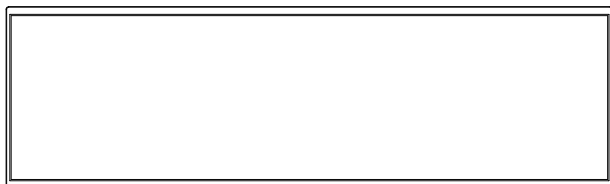
## 1.1 Unpacking

- This product is packed in a packaging box which contains standard accessories.
- Any other optional accessories will be packed separately.
- Considering the size and weight of the display, it is recommended that this product is carried out by two persons.
- After opening the packaging box, ensure that the included items are in good condition and complete.

## 1.2 Package Contents

When unpacking, check if the following items are included in the package. If any of them is missing or damaged, contact your dealer.

☐ **LCD Display**



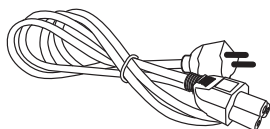
☐ **Quick Start Guide**



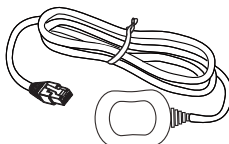
☐ **Remote Control**



☐ **Power Cord**



☐ **IR receiver cable**



☐ **Battery x 2**



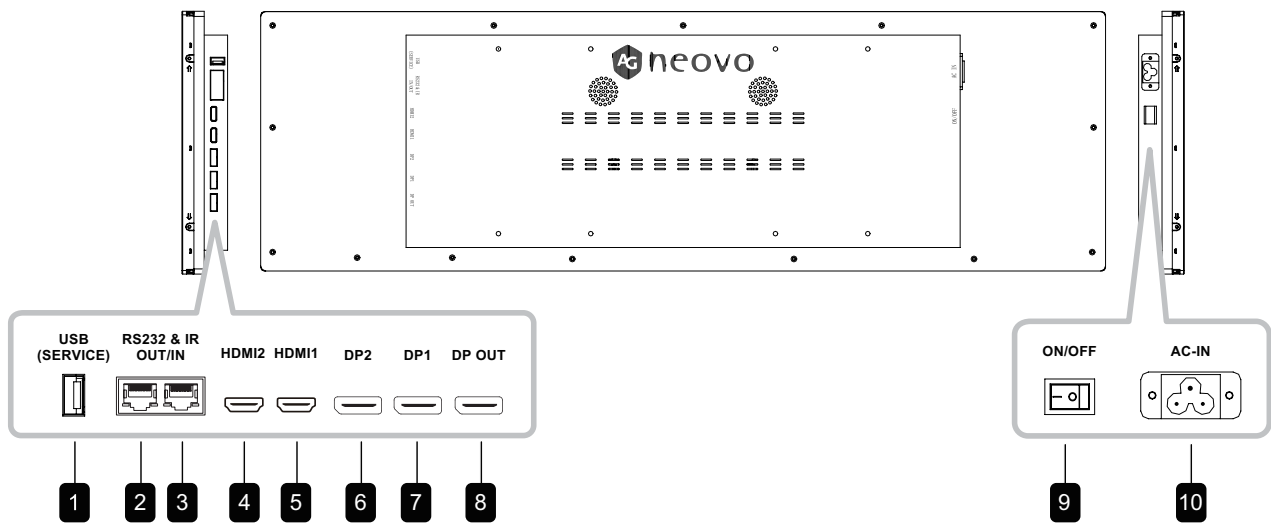
### Note:

- ◆ Remote control is shipped with the supplied AAA batteries.
- ◆ You might like to save the package box and packing material for shipping the display.

# PRODUCT DESCRIPTION

## 1.3 LCD Display Overview

### 1.3.1 Input/Output Terminals



#### 1 USB(SERVICE)

USB Port for firmware upgrade.

#### 2 RS232 & IR OUT

Connect RS232/IR output via RJ45 cable to additional displays.

#### 3 RS232 & IR IN

Connect RS232/IR input from external equipment.

#### 4 HDMI2

Connects HDMI signals input.

#### 5 HDMI1

Connects HDMI signals input.

#### 6 DP2

Connect DisplayPort signals input.

#### 7 DP1

Connect DisplayPort signals input.

#### 8 DP OUT

Connect DP in port of other LCD Unit to realize multi-display.

#### 9 ON/OFF

Switch the main power on/off.

#### 10 AC IN

AC power input from the wall outlet.

#### Note:

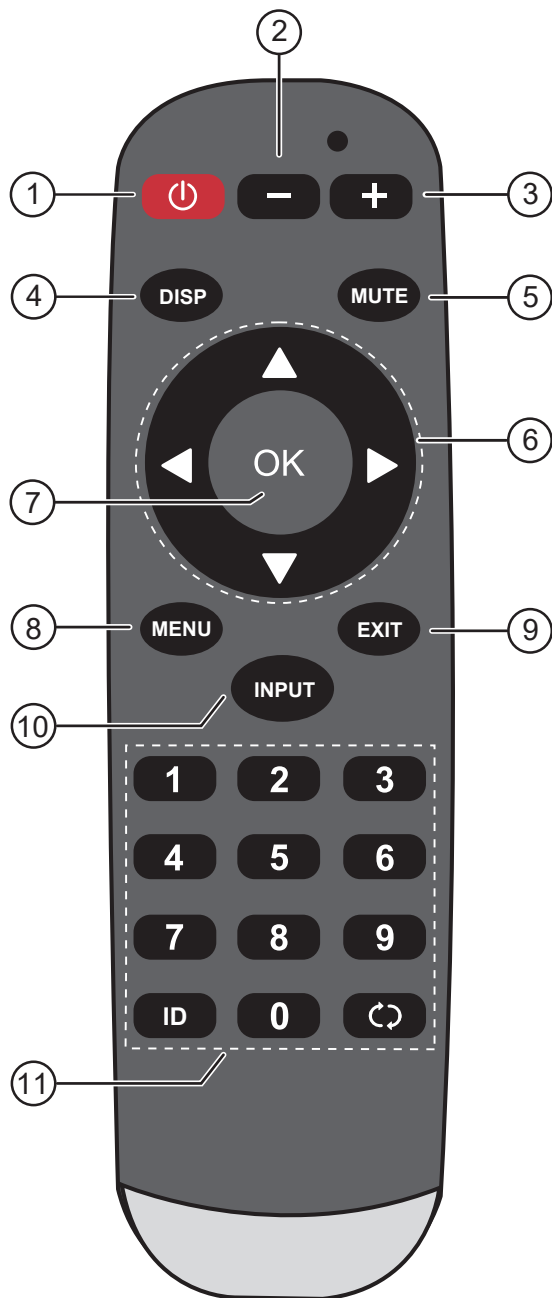
- ◆ Signals input via RS232-IN can be output via RS232-OUT.
- ◆ DP-OUT port supports the output of signals input via HDMI/DP ports.
- ◆ To obtain sound display effect, it is recommended to use the provided wires or wires of a well-known brand.



# PRODUCT DESCRIPTION

## 1.4 Remote Control

### 1.4.1 General Functions



- 1 [⏻] POWER button**  
Turns the display on/off.
- 2 [−] VOLUME button**  
Decreases audio volume.
- 3 [+ ] VOLUME button**  
Increases audio volume.
- 4 [ DISP ] button**  
No function.
- 5 [ MUTE ] button**  
Turns the mute function on or off.
- 6 [ ▲ ] [ ▼ ] [ ◀ ] [ ▶ ] Navigation buttons**  
Navigates through menus, selects items, and adjusts values.
- 7 [ OK ] button**  
Chooses items or accepts the settings made in the OSD menu.
- 8 [ MENU ] button**  
Access the OSD menu.
- 9 [ EXIT ] button**  
Exit the current operations.
- 10 [ INPUT ] button**  
Switches the video input source.
- 11 [ NUMERIC KEYS ] button**  
No function.

#### Note:

- ♦ Remark: When the product is different from the picture, the product prevails.

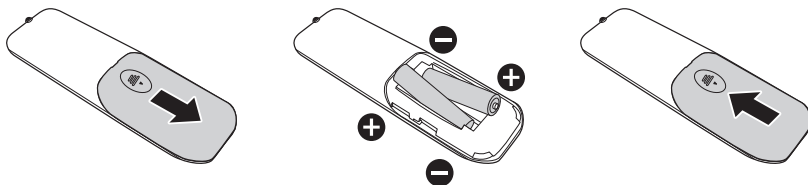
# PRODUCT DESCRIPTION

## 1.4.2 Inserting the Batteries in the Remote Control

The remote control is powered by two 1.5V AAA batteries.

To install or replace batteries:

- 1 Press and then slide the cover to open it.
- 2 Align the batteries according to the (+) and (-) indications inside the battery compartment.
- 3 Replace the cover.



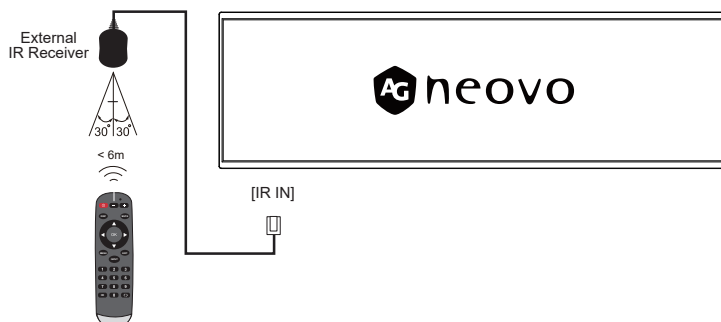
## 1.4.3 Handling the Remote Control

- Do not subject to strong shock.
- Do not allow water or other liquid to splash the remote control. If the remote control gets wet, wipe it dry immediately.
- Avoid exposure to heat and steam.
- Other than to install the batteries, do not open the remote control.

## 1.4.4 Operating Range of the Remote Control

Point the top of the remote control toward the display's remote control sensor (on the left or right side) when pressing a button.

When using the remote control, the distance from the remote control to the sensor on the display should be less than 6m/20ft, and the horizontal and vertical angles should be less than 30°.



### Caution:

The incorrect use of batteries can result in leaks or bursting. Be sure to follow these instructions:

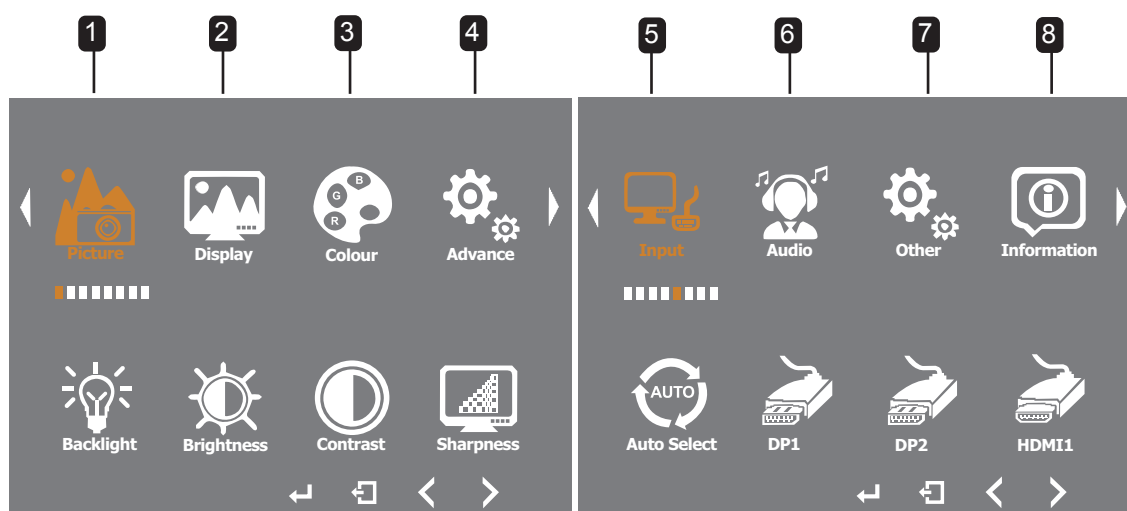
- ◆ Place “AAA” batteries matching the (+) and (-) signs on each battery to the (+) and (-) signs of the battery compartment.
- ◆ Do not mix battery types.
- ◆ Do not combine new batteries with used ones. It causes shorter life or leakage of batteries.
- ◆ Remove the dead batteries immediately to prevent them from liquid leaking in the battery compartment. Don't touch exposed battery acid, as it can damage your skin.

### Note:

- ◆ If you do not intend to use the remote control for a long period, remove the batteries.
- ◆ The remote control may not function properly when the remote control sensor on this display is under direct sunlight or strong illumination, or when there is an obstacle in the path of signal transmission.

# CHAPTER 2: ON SCREEN DISPLAY MENU

## 2.1 OSD Menu Tree



Main Menu	Submenu	Description	Range
1. Picture	• Backlight	Adjusts the level of backlight brightness that suits the best for your viewing preferences.	0-100
	• Brightness	Adjusts the level of overall picture brightness that suits the best for your viewing preferences.	0-100
	• Contrast	Adjusts the level of overall picture contrast that suits the best for your viewing preferences.	0-100
	• Sharpness	Adjusts the level of overall picture sharpness that suits the best for your viewing preferences.	0-6
2. Display	• Display Rotate	Select whether the screen should be reversed for physical application.	0 ° 180°

# ON SCREEN DISPLAY MENU

Main Menu	Submenu	Description	Range
3. Colour	• Gamma	The relationship between the input value and the brightness of the display output affects the distribution of tones from highlights to shadows on the original	1.8 2.0 2.2 2.4
	• Temperature	Colour Temperature: Selects a colour temperature for the image. A lower colour temperature will have a reddish tint, whilst a higher colour temperature gives off a more bluish tint.  Note: To adjust independently the value of red, green, and blue, set the colour temperature to User.	User
	• Hue	Chromaticity: The range and quality of colors that a monitor can display	0-100
	• Saturation	Saturation: The purity of colors, the purer the purity, the higher the saturation, and the higher the saturation, the brighter the colors in the image	0-100
4. Advance	• Aspect Ratio	Selects the picture aspect ratio that suits the best for your viewing environment.	Full 16:9 4:3 5:4 1:1
	• Over Drive	Enhances the display response time.	ON/OFF OD Gain
	• DDC/CI	DDC/CI communication protocol switch, that enable the computer host to adjust monitor parameters.	ON OFF
	• DP MST	Through the DP cable, multiple image signals can be transmitted simultaneously to connect multiple monitors.  * No support HDMI Input source.	OFF DP1 DP2
	• Clone Mode	All screens display the same image. DP-OUT port supports the output of signals input via HDMI/DP ports.	ON OFF
5. Input	• Auto Select • DP1 • DP2 • HDMI1 • HDMI2	Signal source switching	Auto Select DP1 DP2 HDMI1 HDMI2
6. Audio	• Volume	Volume control	0-100
	• Mute	Mute switch selection	ON OFF

# ON SCREEN DISPLAY MENU

Main Menu	Submenu	Description	Range
7.Other	• Reset	Resets all settings in the Setting menu to the factory preset values.	
	• Language	Select the OSD language.	English Français Deutsch Español 中文
	• Monitor ID	Enters the LCD display's ID if using multiple displays.	1-255
	• OSD Timer	Sets the length of time (in seconds) the OSD screen is displayed. When the time elapses, the OSD screen is automatically inactivated.	10-60
	• OSD H Position	Moves the OSD window to the left or right of the screen.	0-100
	• OSD V Position	Moves the OSD window up or down the screen.	0-100
	• Transparency	Adjust the OSD background color transparent	0-10
	• Rotate	Rotate OSD menu from 0-270	0 90 270 180
	• Anti-Burn-In	Enables or disables Anti-Burn-In function per 2 hours.	ON OFF
8.Information	• Input Source • Signal • FW Version • Backlight Count • Anti-Burn-In Count	Current Timing Information	

# CHAPTER 3: APPENDIX

## 3.1 Warning Message

Warning Messages	Cause	Solution
No display on the screen	<ol style="list-style-type: none"> <li>1. The power cord is disconnected.</li> <li>2. The main power switch on the back of the display is not turned on.</li> <li>3. The selected input is not connected.</li> <li>4. The display is in standby mode.</li> </ol>	<ol style="list-style-type: none"> <li>1. Connect the power cord.</li> <li>2. Ensure that the power switch is on.</li> <li>3. Connect the signal to the display.</li> <li>4. Ensure IR Receiver is correctly connected and placed in a location visible to the IR remote. The IR Remote should turn the set on as long as IR receiver is visible to it.</li> </ol>
Interference appears on the display or noise can be heard	It is caused by surrounding electrical equipment or fluorescent lamps.	Move the display to other location to see if the interference can be reduced.
The color is abnormal	The signal cable is not connected correctly.	Ensure that the signal cable is firmly connected to the back of the display.
The screen is distorted with abnormal patterns	<ol style="list-style-type: none"> <li>1. The signal cable is not connected correctly.</li> <li>2. The input signal exceeds the capacity of the display.</li> </ol>	<ol style="list-style-type: none"> <li>1. Ensure that the signal cable is firmly connected.</li> <li>2. Check the video signal source to see if it is out of the range of the display. Please specifications of check the this display according to the section of technical specifications.</li> </ol>
Sound can be heard, but there is no image	The signal cable of input source is not connected correctly.	Ensure the video input and audio input is connected correctly.
Image can be seen but sound cannot be heard	<ol style="list-style-type: none"> <li>1. The signal cable of input source is not connected correctly.</li> <li>2. The volume is turned to the minimum.</li> <li>3. The digital audio output is turned on, e.g. PCM output is turned on.</li> </ol>	<ol style="list-style-type: none"> <li>1. Ensure the video input and audio input is connected correctly.</li> <li>2. Press the [-/+] button and you can hear the sound.</li> <li>3. Turn off the sound output in the sound settings.</li> </ol>

# APPENDIX

## 3.2 Supported Resolutions

RESOLUTION	Clock Frequency MHz	Horizontal Frequency KHz	Vertical Frequency Hz
640x480p @75Hz	31.500	37.500	75.000
800x600p @60Hz	40.000	37.879	60.317
800x600p @75Hz	49.500	46.875	75.000
1024x768p @60Hz	65.000	48.363	60.004
1024x768p @75Hz	78.750	60.023	75.029
1152x864p @75Hz	108.000	67.500	75.000
1280x1024p @60Hz	108.000	63.981	60.020
1280x1024p @75Hz	134.999	79.976	75.024
1600x1200p @60Hz	162.000	75.000	60.000
1920x1080p @60Hz	148.352	67.433	59.940
1920x540 @60Hz	74.250	960.000	60.000

\*Only in the table resolution is supported

# APPENDIX

## 3.3 Cleaning

### Caution When Using the Display

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

### Front Panel Cleaning Instructions

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

### Cabinet Cleaning Instructions

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



# APPENDIX

## 3.4 Troubleshooting

Follow the solutions below to solve these common problems, and contact us if the problem persists.

Symptom	Possible Cause	Remedy
The Power indicator does not come on	<ul style="list-style-type: none"><li>• The monitor is not powered on.</li></ul>	<ul style="list-style-type: none"><li>• Check if the power cord is connected, and switch ON the monitor.</li></ul>
The Power indicator is on, but no image is displayed	<ul style="list-style-type: none"><li>• The Video wire is detached or connected improperly.</li><li>• No video signal input.</li></ul>	<ul style="list-style-type: none"><li>• Connect or replace the video wire, and ensure proper and correct connection.</li><li>• Check the signal source, and check if it is properly connected at the output end.</li></ul>
Image jerking or ripple	<ul style="list-style-type: none"><li>• There exists an electric device that interferes with the video signals.</li></ul>	<ul style="list-style-type: none"><li>• Turn off the electric device, or relocate the monitor.</li></ul>
Dim or extremely bright screen	<ul style="list-style-type: none"><li>• Low or high brightness/contrast.</li></ul>	<ul style="list-style-type: none"><li>• Check the brightness/contrast settings, or restore to default settings.</li></ul>
Colour difference	<ul style="list-style-type: none"><li>• Improper chromatic saturation.</li><li>• Improper RGB values or colour temperature.</li></ul>	<ul style="list-style-type: none"><li>• Check the chromatic saturation.</li><li>• Adjust the RGB values or reset the colour temperature.</li><li>• Restore to default settings.</li></ul>
Image distortion	<ul style="list-style-type: none"><li>• Improper aspect ratio.</li></ul>	<ul style="list-style-type: none"><li>• Reset the aspect ratio.</li></ul>

# CHAPTER 4: SPECIFICATIONS

## 4.1 Display Specifications

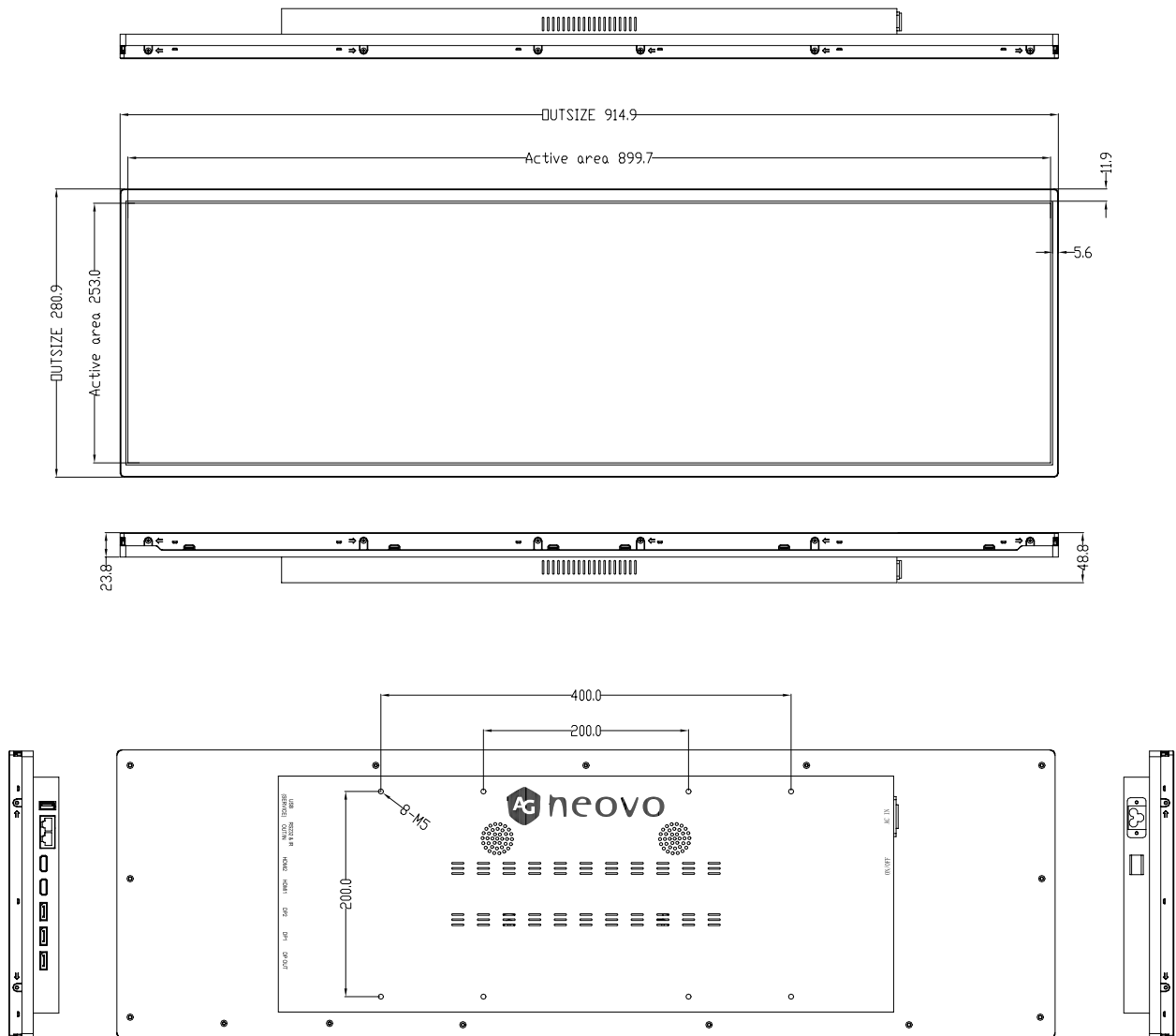
PB3701		
Panel	Panel Type	LED-Backlit TFT LCD (IPS Technology)
	Panel Size	37"
	Max. Resolution	1920 x 540
	Pixel Pitch	0.469 mm
	Brightness	700 cd/m <sup>2</sup>
	Contrast Ratio	1000:1
	Viewing Angle (H/V)	178°/178°
	Display Colour	16.7M
	Response Time	5 ms
	Surface Treatment	Anti-Glare Treatment (Haze 25%), 3H Hard Coating
Frequency (H/V)	H Freq.	30 kHz - 81 kHz
	V Freq.	56 Hz - 76 Hz
Input	DisplayPort	1.2 x 2
	HDMI	2.0 x 2
Output	DisplayPort	x 1
External Control	IR/RS232 In	RJ45 x 1
	IR/RS232 Out	RJ45 x 1
Other connectivity	USB	2.0 x 1 (Service Port)
	Internal Speakers	5W x 2
Power	Power Supply	Internal
	Power Requirements	AC 100-240V, 50/60 Hz
	On Mode	24W(On)
	Standby Mode	< 0.5W
	Off Mode	0W
Operating Conditions	Temperature	0°C-40°C (32°F-104°F)
	Humidity	10%-90% (non-condensing)
Storage Conditions	Temperature	-20°C-60°C (4°F-140°F)
	Humidity	5%-95% (non-condensing)
Mounting	VESA FPMPI	Yes (400 x 200 & 200 x200 mm )
Dimensions	Bezel Width	11.9 mm (Top/Bottom) 5.6 mm (Left/Right)
	Product w/o Base (W x H x D)	914.9 x 280.9 x 48.8 mm (36.0" x 11.0" x 1.9")
	Packaging (W x H x D)	1000.0 x 380.0 x 115.0 mm (39.3" x 14.9" x 4.5")
Weight	Product w/o Base	7.2 Kg (15.9 lb)
	Packaging	9.6 Kg (21.2lb)

Note:

♦ All specifications are subject to change without prior notice.

# SPECIFICATIONS

## 4.2 Display Dimensions



### AG Neovo

Company Address: 5F-1, No. 3-1, Park Street, Nangang District, Taipei, 11503, Taiwan.

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PB3701 Eprel registration number: 2278810

PB3710\_UM\_V010