

LM/TM-30XXE/32XXE Monitor
User Manual



Package Contents

- ✓ 9.7" LM/TM-3X10E or 14" LM/TM-3X14E or 15" LM/TM-3X15E
 POS Monitor.....(x 1)
- ✓ VGA Cable.....(x 1)
- ✓ USB type A to B cable.....(x 1)
 (For TM-30XXE/32XXE Only)
- ✓ Mounting kits(x 1)
- ✓ User Manual.....(x 1)

Specifications

LM-30XXE/32XXE Models

	LM-3010E	LM-3014E	LM-3015E	LM-3210E	LM-3215E
Display					
LCD Panel	9.7" TFT LCD	14" TFT LCD	15.0" TFT LCD	9.7" TFT LCD	15.0" TFT LCD
Resolution (H) x (V)	1024 x 768	1366 x 768	1024 x 768		
Touch					
Touch type	N/A				
Interface	N/A				
General Specification					
Display Interface	VGA				
Power Supply	12V from Posiflex terminal VGA port				

TM-30XXE/32XXE Models

	TM-3010E	TM-3014E	TM-3015E	TM-3215E
Display				
LCD Panel	9.7" TFT LCD	14" TFT LCD	15.0" TFT LCD	
Resolution (H) x (V)	1024 x 768	1366 x 768	1024 x 768	
Touch				
Touch type	Bezel-free P-CAP touch panel			Resistive touch panel
Interface	USB			
General Specification				
Display Interface	VGA			
Power Supply	12V from Posiflex terminal VGA port			

19610903010 Ver. Original
<http://www.posiflex.com>

Views of LM/TM-3X10E

Front View

9.7" LM-3210E LCD Panel



9.7" LM-3010E LCD Panel

9.7" TM-3010E P-Cap Touch Panel

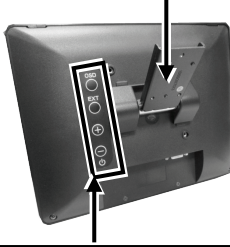


Rear View

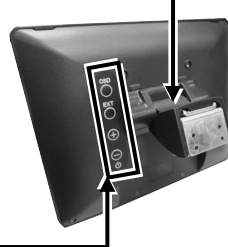
Mounting Bracket for HS series Terminals



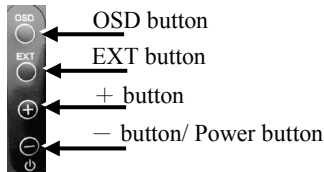
Mounting Bracket for KS series Terminals



Mounting Bracket for XT series Terminals



OSD Control Button



I/O Ports of LM-3X10E



VGA Port

Power LED Indicator

DC-IN Power Jack

I/O Ports of TM-3010E



VGA Port

Power LED Indicator

USB (Type B) Port

DC-IN Power Jack

Views of the LM/TM-3014E

Front View

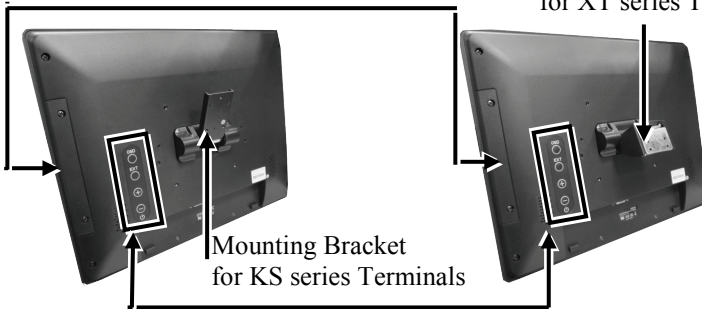
14" LM-3014E LCD Panel
14" TM-3014E P-Cap Touch Panel



Rear View

Side Mount Cover

Mounting Bracket
for XT series Terminals



OSD Control Button



OSD button

EXT button

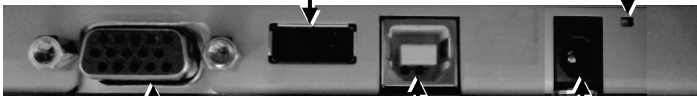
+ button

- button/ Power button

I/O Ports

USB Port

Power LED Indicator



VGA Port

USB (Type B) Port

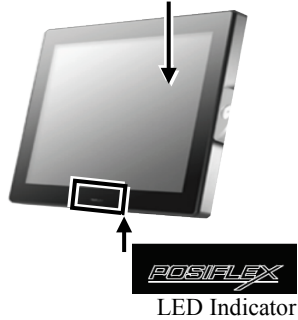
DC-IN Power Jack

Views of the LM/TM-3015E/3215E

Front View

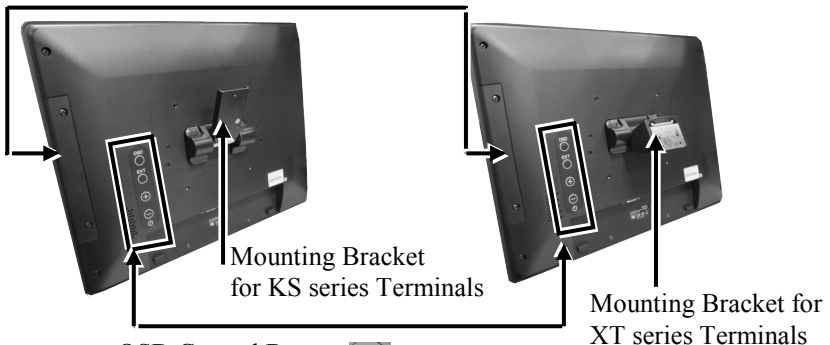
15" LM-3215E LCD Panel
15" TM-3215E Resistive Touch Panel

15" LM-3015E LCD Panel
15" TM-3015E P-Cap Touch Panel

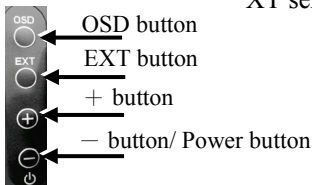


Rear View

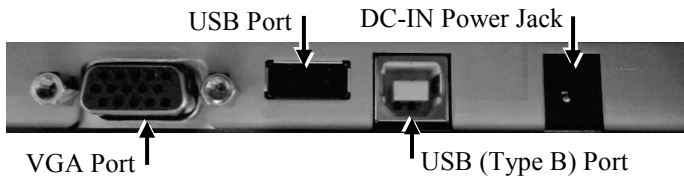
Side Mount Cover



OSD Control Button



I/O Ports



Installing LM/TM-30XXE/32XXE

According to the model type of your monitor and terminal, the relevant instructions are provided below to help you mount your monitors onto your Posiflex terminals. During installation, please ensure the terminal is properly turned off and disconnected from the power sources to avoid potential hazards.

Mounting to HS series Terminals

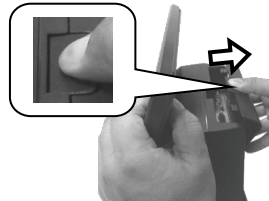
1. Lay your POS terminal on a flat surface with its rear facing towards you.



2. Press down the release tab of top I/O interface cover.



3. Pull the top I/O cover in the direction shown by the arrow in the figure to remove the cover.



4. Position the monitor on a flat surface. While keeping it steady with one hands, pull the rear mounting bracket upright as shown in the figure.

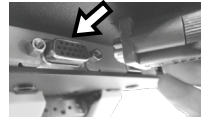


5. Support your monitor to align its mounting bracket with four screw holes at the back of your terminal. Secure the mounting bracket with four #6-32-10L fixing screws.

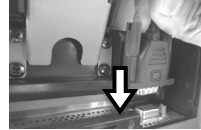


6. Connect the monitor to the terminal using VGA cable.

6.1 Connect one end of the VGA cable to the VGA port at the bottom I/O plate of your monitor.

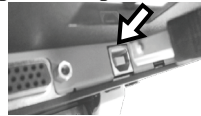


6.2 Take the other end of VGA cable to insert it into the VGA port of your terminal.

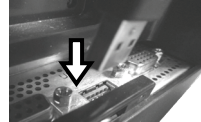


7. For TM series users, connect the monitor to the terminal using USB type A to B cable to enable touch function for your monitor. **If the monitor you are using isn't TM series, please skip this step.**

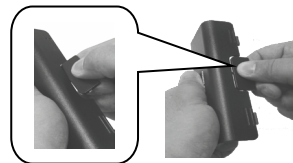
7.1 Grab Type-B connector of USB cable, and then insert it into Type-B USB port of your monitor



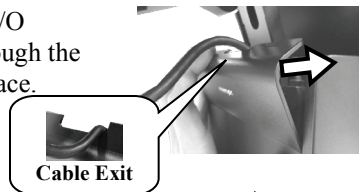
7.2 Properly attach Type-A connector of USB cable to your POS terminal.



8. Break the release tab of the top I/O interface cover for HS series terminal.



9. After tucking the extra cable into the I/O compartment and thread the cable through the cable exit, push the back cover into place.



10. After ensuring the monitor is well installed, tilt your monitor up or down to your desired angle. While setting up the tilting adjustment, be careful not to press on the LCD panel.

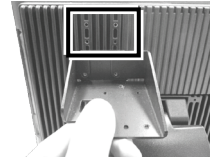


Mounting to KS Terminals

1. Position your terminal with its rear facing towards you.



2. Take L type mounting bracket out of the package. Align the four screw holes of the mounting bracket with the hole pattern at the back of the terminal.



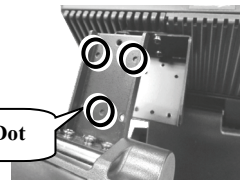
3. Insert four #6-32-12L fixing screws into the screw holes and then tighten the screws to secure the mounting bracket.



4. Lay the monitor on a flat surface with the screen facing downward and its I/O ports facing toward you. While holding the monitor steady with one hand, pull the monitor bracket upright.

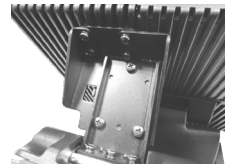


5. Lift the monitor to align three screw holes on the monitor bracket with those on the bracket attached to the terminal using the alignment dots.

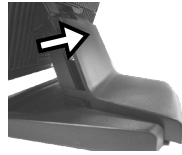


Alignment Dot

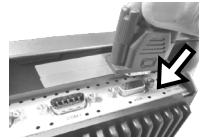
6. Properly attach two brackets with three #6-32-6L fixing screws. Make sure the monitor is well mounted onto your terminal.



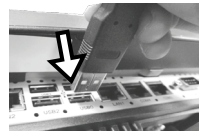
7. Pull outward the locking levers and then remove the neck cover in the direction shown by the arrow.



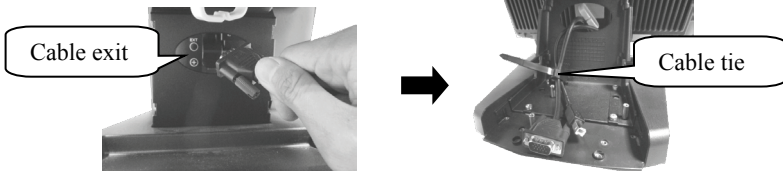
8. Connect VGA cable to the terminal.



9. For TM series users, attach Type-A connector of USB cable to your POS terminal. **If the monitor you are using isn't TM series, please skip this step.**



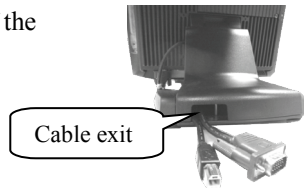
10. Pass the cables through the cable exit, route them along the cable passage, and fasten the cables with cable tie as shown in the picture.



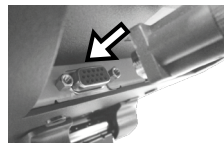
11. Push back the neck cover into place.



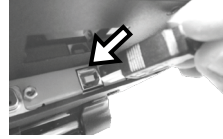
12. Make sure the cables can be pulled out of the cable exit from the base.



13. Connect VGA cable to your monitor.



- For TM series users, grab Type-B connector of USB cable, and then insert it into Type-B USB port of your monitor to enable touch function.



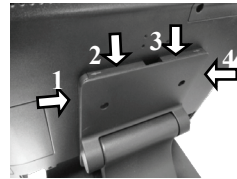
If the monitor you are using isn't TM series, please skip this step.

- The installation is completed. While tilting the screen up or down in the direction shown by the arrow, do not press on the LCD panel.



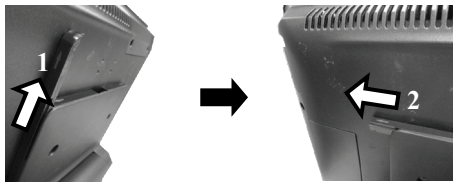
Mounting to XT Terminals with Gen 7E/8E Base

- Position your terminal with its rear facing toward you. At the edges of the base stand bracket are located two shorter horizontal rails (2) (3) and two longer vertical rails (1) (4), which are used to hold your cable into place.

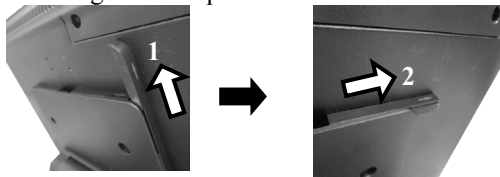


- Release the rail from the base.

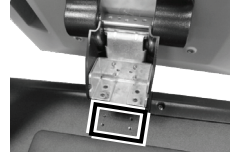
To run the cable through the cable passage on the left, according to the sequence number, first remove the longer rail and then the shorter one from the base stand by sliding them in the direction shown by the arrow.



Or, if you prefer to thread the cable through the cable passage on the right side, first remove the longer rail and then shorter one from the base stand according to the sequence number.



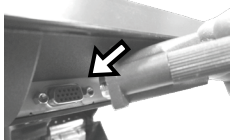
3. After positioning your terminal with its screen facing downwards, lift the monitor and then align the four fixing screw holes on its mounting bracket with the hole pattern at the rear of the terminal as shown in the figure.



4. Insert four #6-32-10L screws into the screws holes and then tighten them to secure the mounting bracket.



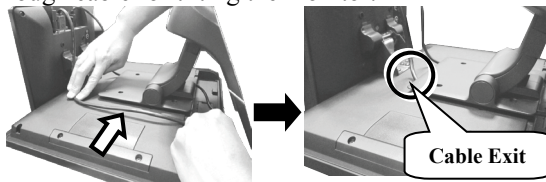
5. Take the VGA cable out of the package, and then connect it to your monitor.



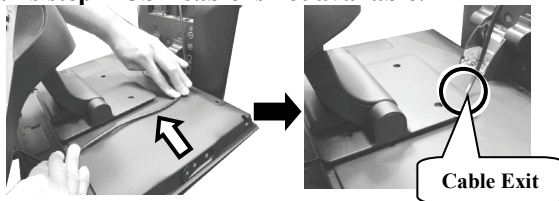
6. For TM series users, plug Type-B connector of USB cable into Type-B USB port of your monitor to enable touch function. **If the monitor you are using isn't TM series, please skip this step.**



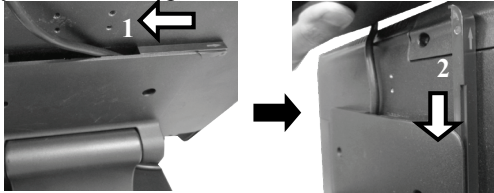
7. While pushing the VGA cable into cable passages on the left side, also reserve the enough cable for tilting the monitor.



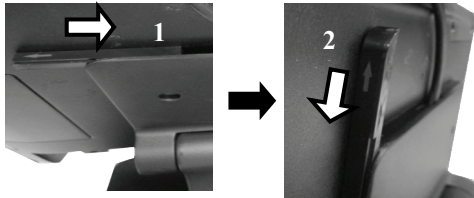
8. For TM series users, tuck USB cable through the cable passage on the right side. Reserve the enough cable needed for tilting the monitor. **Please skip this step if USB cable is not available.**



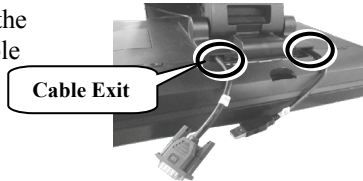
9. Push the rails back to the base.
 If the cable is threaded through the cable passage on the right, by following the sequence number, first slide the shorter rail horizontally and then longer one vertically into place in the direction shown by the arrow to fix your cable into place.



Alternatively, if you intend to lock the cable into the cable passage on the left, according to the sequence number, first slide the shorter rail and then longer one into place in the direction shown by the arrow.



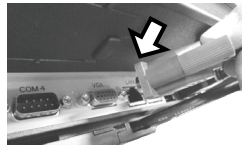
10. After the rails are sild back, make sure the cables can be pull out of the bottom cable exits.



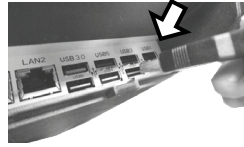
11. Set up your terminal upright and then tile the screen all the way up. Remove the cover for the bottom I/O compartment of the terminal.



12. Connect VGA cable to your terminal.



13. For TM series users, attach Type-A connector of USB cable to your POS terminal to enable touch function for your monitor. **If the monitor you are using isn't TM series, please skip this step.**



14. Tuck the extra cable into the bottom I/O compartment. Push back the cover to close the I/O compartment.



15. After ensuring the monitor is well installed, tilt your monitor up or down to your desired angle. While setting up the tilting adjustment, be careful not to press on the LCD panel.



Installing an Magnetic Stripe Reader (Optional)

To expand functionality of your monitors, it allows you to additionally mount an optional magnetic stripe reader (MSR), SL-104 for LM/TM-3014E models or SL-105 for LM/TM-3X15E models. Before installing the peripheral device, make sure that the monitor is properly powered off and is disconnected from the external power source. For the detailed installation instructions of MSR, please be advised to refer to the relevant user manual.

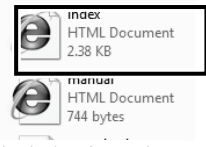
Identifying your Monitor as Secondary Touchscreen Monitor in Extended Mode

Based on the type of your touch panels, you are required to adopt different approaches to set up TM series as the extended monitor when you attempt to extend the desktop across multiple monitors. In the following section the related descriptions will be offered to help you achieve the purpose.

For TM-3215E Model with Resistive Touchscreen

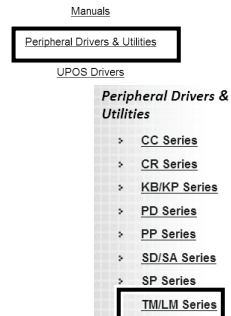
For TM-3215E users, please follow the below instructions to complete installation of *The Dual Touch Manager*, a tool designed to allow your monitor to work as a secondary touchscreen monitor in extended mode.

1. Make sure that the monitor is well connected to your POS terminal with USB type A to B cable.
2. Insert the Peripheral Information CD, which is included in the package, into your CD-ROM. Locate and double click the **index** file.
3. Click on **Peripheral Drivers & Utilities**.



Posiflex Peripheral Drivers & Manuals v1.3

4. Click on **TM/LM Series** at the left side of the menu.



5. Click on the Setup icon of **USB Dual Touch Manager** to install the USB Dual Touch Manager.

TM Series

Description	Version	Setup
USB Dual Touch Manager	3.03	⚙️
↳ USB Single Touch Manager	2.07	⚙️
↳ USB Monitor Driver	7.6	⚙️

6. Follow the instructions to complete the manager installation. After the installation is finished, restart your terminal.

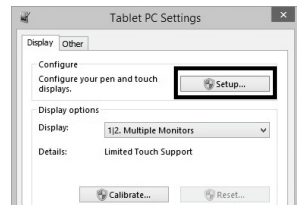
For TM-30XXE Models with P-CAP Touchscreen

If your monitors are TM-30XXE models, you may configure the display settings from Control Panel in Microsoft Windows to identify the monitor as the secondary touchscreen monitor. Please go through the below steps to complete configuration.

1. Make sure that the monitor is well connected to your POS terminal with USB type A to B cable.
2. Go to **Control Panel>Display Settings**, change your display settings to extended mode.
3. Go to **Control Panel**, and then click on **Tablet PC Settings** item.



4. In **Tablet PC Settings** dialogue box, click on **Setup** button.



5. Following the instruction shown on the screen, click on the screen that you want to identify as the primary touchscreen display.

Touch this screen to identify it as the touchscreen.

If this is not the Tablet PC screen, press Enter to move to the next screen. To close the tool, press Esc.

6. Press **Enter** button to proceed the configuration.

Press Enter to proceed to the next step to complete your configuration

7. Click on the screen you want to use as the secondary touchscreen display.

Touch this screen to identify it as the touchscreen.

If this is not the Tablet PC screen, press Enter to move to the next screen. To close the tool, press Esc.

Powering ON/OFF your Monitor

To start up LM/TM-30XXE/32XXE, you have to make sure that the monitor is well connected to POS terminals and electricity is supplied to the monitor either through POS terminal or through external power sources. For the users who prefer Posiflex POS terminal as primary power sources to power your monitor using VGA cable, please also refer to the **Activating Power Output to VGA Port via BIOS Settings** section to confirm that VGA port of your terminal is indeed enabled.

Power ON LM/TM-30XXE/32XXE

Press the power button of the terminal to power up the terminal. Few seconds later the monitor will be initiated automatically.

Power OFF LM/TM-30XXE/32XXE

After following the standard shutdown procedure to shut down your terminal, the monitor will be consequently turned off.

Activating Power Output to VGA port via BIOS Settings

In general, Posiflex terminals will disable the VGA controller in BIOS due to safety concerns. In the case of using your terminal to supply power to monitors, it is required to manually enable the VGA output of the terminals in BIOS settings so that the monitor is able to extract power from the Posiflex terminals. However, if the monitor you are using is not manufactured by Posiflex, it is strongly suggested to deactivate the VGA port of your terminal in preventing your device from being damaged.

The following will describe the steps required to enable VGA port in BIOS setting. Also, please **DO NOT** plug the VGA cable into VGA connectors while the terminal is still running.

1. Make sure that LM/TM-30XXE/32XXE is well connected to the Posiflex terminals using the VGA cable.
2. Press the power button of the POS to power on the POS. During the boot process, hit **F2** key to access BIOS setting.
3. Navigate through BIOS using arrow and Enter keys to access the setting of VGA port. If it is set to be disabled, hit **Enter** key to enable the VGA port.
4. Switch to **Exit** tab and select **Exit Saving Changes** option. Choose **Yes** in Setup Confirmation message box to save your configurations.
5. After rebooting your POS, make sure the monitor is correctly detected.

Power LED Indicator

Power LED indicator, which is either located at the bottom of the screen or on bottom I/O plate depending on your model type, is used to notify users of the current status of your monitor by emitting various LED signals. Please refer to the below chart to accurately interpret the indicators status to facilitate your troubleshooting.

9.7” LM/TM-3X10E or 14” LM/TM-3014E

Status	Description
ON, solid green	System power ON
ON, solid orange	System Standby
OFF	System power OFF

15” LM/TM-3X15E

Status	Description
ON, solid blue	System power ON
ON, solid green	System Standby
OFF	System power OFF

Setting up Display Resolution for Your Monitor

The below chart defines the list of recommended display settings for LM/TM-30XXE/32XXE. Improper display configuration will prevent the monitor from properly displaying the image and lead to a warning message of “out of range” prompted on the screen.

14” LM/TM-3014E

Display Resolution	Horizontal Frequency (KHz)	Refresh Rate (Hz)
640 x 480	31.47	60.00
800 x 600	37.88	60.32
1024 x 768	48.36	60.00
1280 x 720	45.00	60.00
1360 x 768	47.71	60.01
1366 x 768	47.71	59.79

9.7” LM/TM-3X10E or 15” LM/TM-3X15E

Display Resolution	Horizontal Frequency (KHz)	Refresh Rate (Hz)
640 x 400	37.9	70
640 x 480	31.5	60
	37.9	72
	37.5	75
720 x 400	37.9	70
800 x 600	35.1	56
	37.9	60
	48.1	72
	46.9	75
1024 x 768	48.4	60





Using the OSD Menu

OSD, as known as On-Screen Display, is employed to assist users in adjusting a variety of monitor-related settings depending on personal preference. Through this section, it is expected to familiarize you with the options which are accessible via OSD menu, and to optimize your experiences with LM/TM-30XXE/32XXE.

Power & OSD Buttons

Power & OSD buttons are available on the rear, right-hand side of the LCD monitor. Each of four OSD controls works differently in various occasions. Please refer to the below figure to get an idea of how they could possibly function in relation to OSD menu.




Icon	Description
 OSD button	<ul style="list-style-type: none"> ● to activate the OSD menu ● to select the specific menu option
 EXT button	<ul style="list-style-type: none"> ● to exit from the current configuration
 “+” Button	<ul style="list-style-type: none"> ● to navigate through OSD menu options ● to increase the value of the specific item ● auto-adjustment feature
 “-” Button/Power Button	<ul style="list-style-type: none"> ● to navigate through OSD menu options ● to decrease the value of the specific item ● turn on/off the monitor




To help you get started with the OSD menu, the following points are guidelines you are suggested to go through:

1. Firstly, press the **OSD** button to access the OSD menu.
2. Scroll through OSD menu options using either the “+” or “-” button.
3. Press the **OSD** button to select the particular menu option of interest. It will lead you to its sub-menu page if the selected menu option contains sub-menu items.
4. Under the selected menu item with available sub-menu items, use the “+” or “-” button to switch among different items. Then, press the OSD button to select the sub-menu item which you intend to adjust.
5. Use the “+” or “-” button to adjust the value of the selected OSD item. Then, press the **OSD** button to save settings.
6. Press the **EXT** button to exit from the current configuration.

OSD Options

Please refer to the following table for further explanation of the accessible items.

OSD Menu Options	Sub-menu items & Description
 Picture	<ul style="list-style-type: none"> ➤ Backlight Press the “+” button to increase backlight intensity; Press the “-” button to decrease backlight intensity. ➤ Brightness Press the “+” button to increase brightness; Press the “-” button to decrease brightness. ➤ Contrast Press the “+” button to increase contrast; Press the “-” button to decrease contrast. ➤ Sharpness Press the “+” button to increase sharpness; Press the “-” button to decrease sharpness.

OSD Menu Options	Sub-menu items & Description
 Display	<ul style="list-style-type: none"> ➤ Auto Adjustment Execute the auto-tune function for OSD menu, which will automatically perform fine tune of the image quality for optimizing screen performance. ➤ H Position Press the “+” button to move the screen to the right; Press the “-” button to move the screen to the left. ➤ V Position Press the “+” button to move the screen up; Press the “-” button to move the screen down. ➤ Pixel Clock Use the “+” or “-” button to adjust the Clock setting for VGA input. ➤ Phase Use the “+” or “-” button to adjust the Phase setting for VGA input.
 Other	<ul style="list-style-type: none"> ➤ Reset Restore the current menu back to the default setting. ➤ Menu Time Specify the length of time for OSD menu to stay active on the screen. ➤ Language Specify the language used in the OSD menu.
 Information	<p>Display information regarding display resolution, horizontal/vertical sync frequency, pixel clock (PCLK), etc.</p>

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