LM/TM-31XXE/33XXE Standalone POS Monitor User Manual

POSIFLEX

Package Contents
✓ 9.7" LM/TM-3X10E or 14" LM/TM-3X14E or 15" LM/TM-3X15E Standalone POS Monitor………….(x 1)
✓ VGA Cable………………………..(x 1)
✓ USB type A to B cable...……….....(x 1) (For TM series monitors Only)
✓ Power Adapter…………………….(x 1)
✓ User Manual………………………(x 1)
✓ Information CD (for TM series monitors Only)…....(x 1)

Product Features
For LM-31XXE/33XXE models
● LM-31XXE with slim bezel-free design; LM-33XXE with slim bezel-type design
● 9.7" or 15" TFT LCD panel or 14" wide screen TFT LCD panel
● VESA mounting support

For TM-31XXE/33XXE models
● TM-31XXE with slim bezel-free design; TM-33XXE with slim design
● 9.7" or 15" TFT LCD panel or 14" wide screen TFT LCD panel
● P-CAP touch panel for TM-31XXE; 5-wire resistive touch panel for TM-3315E
● VESA mounting support
● Optional side attachment support for LM/TM-3X15E (SL-105)
  Optional side attachment support for LM/TM-3114E (SL-104)

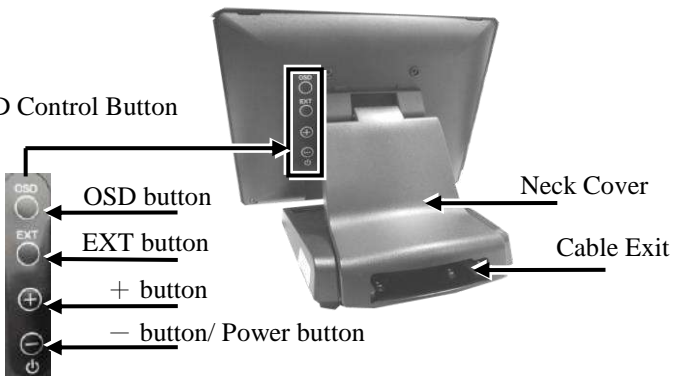# Views of LM/TM-3X10E
Front View

9.7" LM-3310E LCD Panel

9.7" LM-3110E LCD Panel
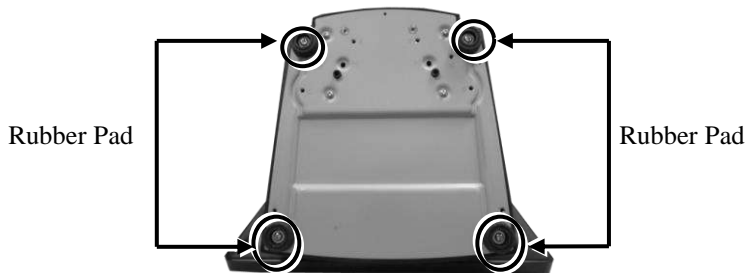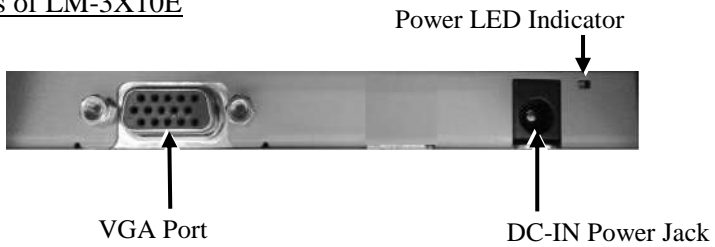9.7" TM-3110E P-Cap Touch Panel
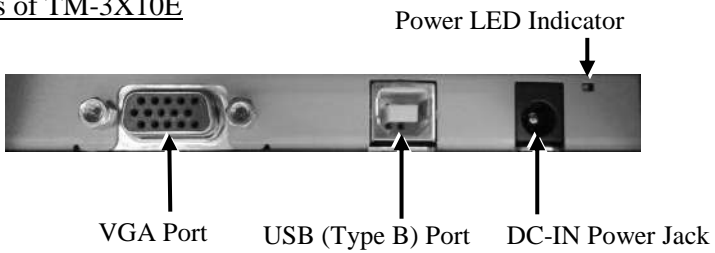
Rear View

OSD Control Button

OSD button

EXT button

＋ button

－ button/ Power button

Neck Cover

Cable Exit

Bottom View

Rubber Pad   Rubber Pad

I/O Ports of LM-3X10E

Power LED Indicator

VGA Port   DC-IN Power Jack

I/O Ports of TM-3X10E

Power LED Indicator

VGA Port   USB (Type B) Port   DC-IN Power Jack

3

Views of the LM/TM-3114E
Front View

14" LM-3114E LCD Panel
14" TM-3114E P-Cap Touch Panel

Gen 7L Base

Rear View

Side Mount Cover

OSD Control Button

OSD button

EXT button

+ button

− button/ Power button

Neck Cover

Cable Cover

Cable Exit

Bottom View

Rubber Feet with Fixing Screw

Cable Exit

Cable Holder

Rubber Feet with Fixing Screw

I/O Ports

USB Port

Power LED Indicator

VGA Port   USB (Type B) Port   DC-IN Power Jack
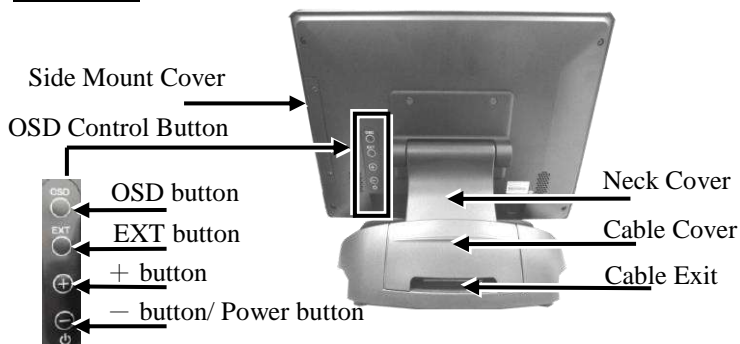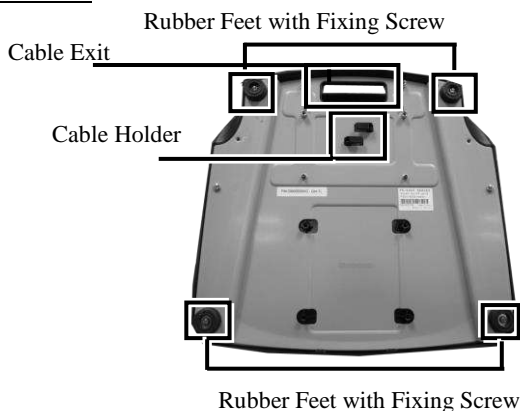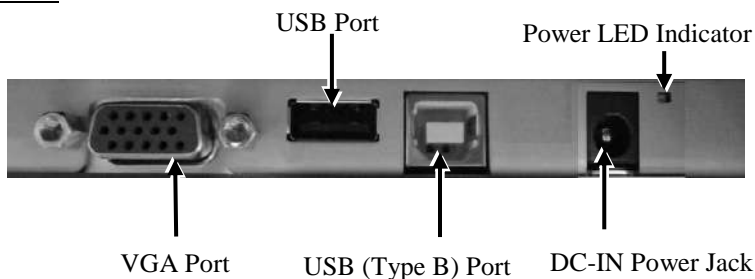
Views of the LM/TM-3115E/3315E
Front View

15" LM-3315E LCD Panel   15" LM-3115E LCD Panel
15" TM-3315E Resistive Touch Panel   15" TM-3115E P-Cap Touch Panel

Gen 7L Base

LED indicator

POSIFLEX

LED indicator

Rear View

Side Mount Cover

OSD Control Button

OSD button

EXT button

+ button

− button/ Power button

Neck Cover

Cable Cover

Cable Exit

5

Bottom View

Rubber Feet with Fixing Screw

Cable Exit

Cable Holder

Rubber Feet with Fixing Screw

I/O Ports

USB Port

VGA Port   USB (Type B) Port   DC-IN Power Jack
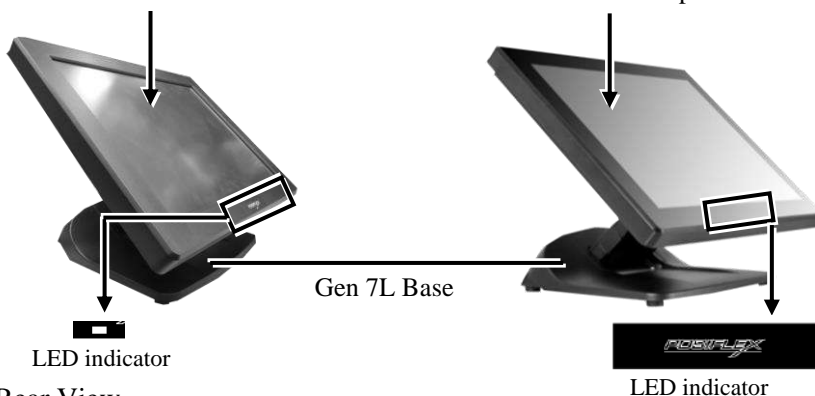
Positioning your monitor for a Perfect Viewing Angle
9.7" LM/TM-3110E/ 3310E

With simpler and lighter design, the miniature standalone base for 9.7" LM-3110E/TM-3310E makes it easy for you to set up the tilt angle. Please refer to below suggestion to tilt your monitors:

To find the ideal viewing angle for 9.7" LM/TM series monitors, please adjust the monitor up or down in the direction indicated by the arrow. Be careful NOT to touch the panel while tilting the screen.

14" or 15" LM/TM-31XXE/33XXE

Different from the miniature base used by 10" LM/TM series monitors, the adjustable Gen 7L base featuring its unique tilt adjustment mechanism allows you to determine an ideal position for 14" and 15" LM/TM-31XXE/33XXE series monitors. In general, it provides three standard positioning solution as the below figures suggested: flat folded mode, low profile mode, and full extended mode.

14" or 15" LM/TM-31XXE/33XXE with Gen 7L Base

**Flat folded mode**   **Low profile mode**   **Full extended mode**

LM/TM-31XXE/33XXE will be set up beforehand in **flat folded mode** before being packaged into the box for shipping. After it is unpacked, you may re-adjust the monitor in either **low profile mode** or **full extended mode** according to your situation. The following describes the steps of adjusting Gen 7L base connected to the monitor among different positioning modes.

1. Unpack LM/TM-31XXE/33XXE, which is supposed to be set in **flat folded mode**, out of the package box and then lay your POS system on a flat surface.

2. Steady the base stand with one hand, and then tilt the screen downwards.
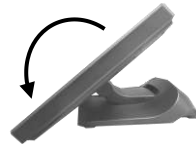
3. Position your monitor in **Full Extended mode**.
  3.1 After grabbing the bottom edge of the screen with your hand, gently move the screen upward until the screen is locked into place with a click sound.
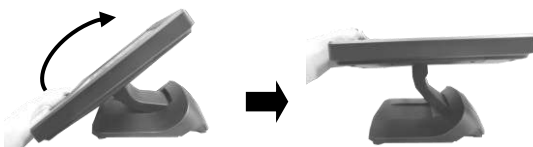
  3.2 With the screen facing toward you, tilt the screen up or down to your desired angle. Please do not press on the LCD panel while setting up the tilt angle.
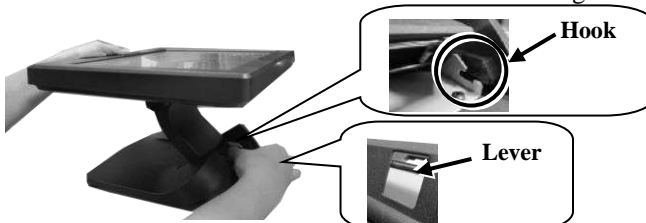
4. Restore your monitor to **Flat Folded mode** from **Full Extended mode**.
  4.1 Tilt your screen in a horizontal position. Then, remove the cable cover from the base stand.

  4.2 Support the screen with one hand holding onto its bottom edge. While pulling the lever backwards, move the screen downwards until the lever is lifted off the hook as shown in the figure

  Hook

  Lever

  4.3 Push the cable cover back.

  4.4 Tilt the screen again to the horizontal position.

5. Position the monitor in **Low Profile mode**.
   5.1 Follow Step 4 to set up the monitor in **Flat Folded mode**.

   5.2 Tilt the screen all the way down

   5.3 To tilt screen up or down to your desired angle, please be advised to keep the base stand steady with one hand to do so. Do NOT press on the LCD panel while setting up the tilt angle.

Connecting VGA and USB Cables

The following section will provide the instructions on how to connect power adapter, VGA and USB type A to B cables, and introduce helpful cable-routing tips you may need to use while organizing cables.

For TM-31XXE/33XXE users, please note that USB type A to B cable needs to be well attached to both of your monitor and terminal to allow touch screen function to work normally.

1. Lay the monitor with its rear facing toward you and tilt the screen all the way down.
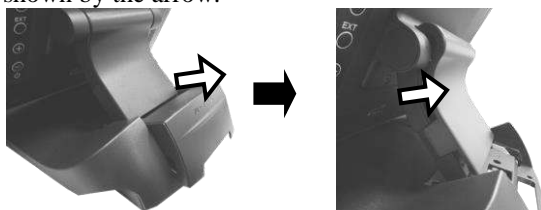
9.7" LM/TM-3110E/3310E 14" or 15" LM/TM-31XXE/33XXE

2. Adjust the screen downwards, and release the cable cover from the base.

For 9.7" LM/TM-3110E/3310E monitors, please directly remove the neck cover from the base.

If you are using 14" or 15" LM/TM-series monitors, refer to the below figures to first remove cable cover and then neck cover in the direction shown by the arrow.

3. After adjusting the screen to the horizontal position, take one end of the VGA cable and have it passed through the cable exit.

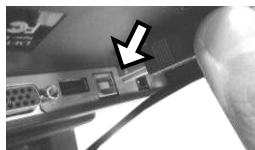**Cable Exit**   **Cable Exit**
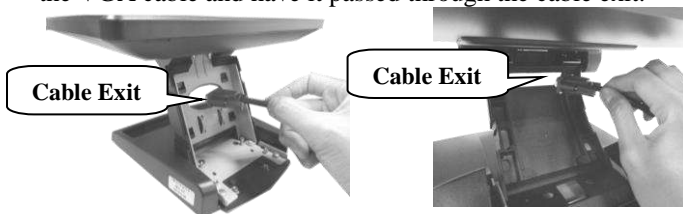
9.7" LM/TM-3110E/3310E   14" or 15" LM/TM-31XXE/33XXE

4. Secure the VGA cable to the VGA port at the bottom I/O plate of your monitor.

5. Grab Type-B connector of USB cable to route it through the cable, and then insert it into Type-B USB port of your monitor.

6.   If you intend to use Power adapter to supply power to your monitor, thread the cable of power adapter through cable exit, connect it to DC-IN power connector of the monitor and then another end to the electrical outlet.
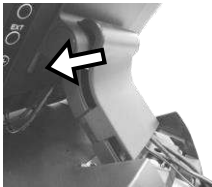
7.   Move the screen all the way down. Then, place back the cover into place.

For 9.7" LM/TM-3110E/3310E users, please place the neck cover back into place.

If you are using 14" or 15" LM/TM series monitors, first push back the neck cover and then slide back the cable cover.

8.   Properly attach Type-A connector of USB cable and VGA cable to your POS terminal.

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-3114E 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-3315E Model with Resistive Touchscreen

For TM-3315E 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.

   index
   HTML Document
   2.38 KB

   manual
   HTML Document
   744 bytes

3. Click on **Peripheral Drivers & Utilities**.

   Posiflex Peripheral Drivers & Manuals v1.3

   Manuals

   Peripheral Drivers & Utilities

   UPOS Drivers

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

   Peripheral Drivers & Utilities
   > CC Series
   > CR Series
   > KB/KP Series
   > PD Series
   > PP Series
   > SD/SA Series
   > SP Series
   > TM/LM Series

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-31XXE Models with P-CAP Touchscreen

If your monitors are TM-31XXE 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.

13

Powering ON/OFF your Monitor

To start up LM/TM-31XXE/33XXE, 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-31XXE/33XXE

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-31XXE/33XXE

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. **For those users who intend to power the monitors using power adaptor included in your package, you may skip this section.** Besides, please DO NOT plug the VGA cable into VGA connectors while the terminal is still running.

1. Make sure that LM/TM-31XXE/33XXE 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 of the indicators status to facilitate your troubleshooting.

9.7" LM/TM-3X10E or 14" LM/TM-3114E

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-31XXE/33XXE. 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-3114E

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
	56.5	70
	60	75

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-31XXE/33XXE.

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	• to activate the OSD menu • to select the specific menu option
EXT button	• to exit from the current configuration
"+" Button	• to navigate through OSD menu options • to increase the value of the specific item • auto-adjustment feature
"−"Button/Power Button	• 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	➢ **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.
Display	➢ **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.

OSD Menu Options	Sub-menu items & Description
Other	➢ **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	Display information regarding display resolution, horizontal/vertical sync frequency, pixel clock (PCLK), etc.

Specifications
LM-31XXE/33XXE Models

	LM-3110E	LM-3114E	LM-3115E	LM-3310E	LM-3315E
Display					
LCD Panel	9.7" TFT LCD	14" TFT LCD	15" TFT LCD	9.7" TFT LCD	15" TFT LCD
Resolution (H) x (V)	1024 x 768	1366 x 768	1024 x 768		
Contrast Ratio	500 : 1	650 : 1	600 : 1	500 : 1	600 : 1
Brightness	270 cd/m2	200 cd/m2	350cd/m2	270 cd/m2	350cd/m2
Touch					
Touch type	N/A				
Interface	N/A				
General Specification					
Display Interface	VGA				
Power Supply	12V / 18W		12V / 50W	12V / 18W	12V / 50W

TM-31XXE/33XXE Models

	TM-3110E	TM-3114E	TM-3115E	TM-3315E
Display				
LCD Panel	9.7" TFT LCD	14" TFT LCD	15" TFT LCD	
Resolution (H) x (V)	1024 x 768	1366 x 768	1024 x 768	
Contrast Ratio	500 : 1	650 : 1	600 : 1	
Brightness	270 cd/m2	200 cd/m2	350cd/m2	300cd/m2
Touch				
Touch type	Bezel-free P-CAP touch panel			5-wire Resistive touch panel
Interface	USB			
General Specification				
Display Interface	VGA			
Power Supply	12V / 18W		12V / 50W	

※ *The product information and specifications are subject to change without prior notice. To get the detailed information on LM/TM-31XXE/33XXE, please check this model from Posiflex Global Website (http://www.posiflex.com/en-global/Download/download).*