

4K
ULTRA HD



32" Wide 4K Ultra HD Touch Monitor

LM-3237-26-4K

USER'S MANUAL

General Description

1-1, Overview

This zero-bezel monitor is designed for commercial and industrial applications, such as kiosks, digital signage, military, security, industrial equipment, and instrumentation equipment. This product can provide high brightness / contrast to achieve better viewing effect and good reliability at wide environments conditions.

1-2, Features

- 1mm ultra thin bezel thickness.
- LED backlight.
- 350 Nits sunlight readable display.
- 4K Ultra HD (3840 x RGB x 2160 pixels) resolution.
- VA mode with wide viewing angle.
- PCAP 10-point touch
- RoHS Compliance.
- 5 keys OSD controls.
- USB Type-B Connector.
- DP / DVI / HDMI Video Input and auto detection video system.

1-3, Application

Industrial Applications, especially for kiosk and public signage display.

1. Specifications

The following items are characteristic summary on the table at 25°C condition

Item	Specification	Unit	Note	
LCD Panel	Active Screen Size	698.40(H) x 392.85(V) (31.5 inches diagonal)	mm	
	Resolution	3840(H) x 2160(V)	pixels	
	Pixel Pitch	0.181(H) x 0.181(V)	mm	
	Pixel Arrangement	RGB Vertical Stripe		
	Display Mode	VA Mode, Normally Black		
	Display Colors	1.073G	colors	
	Brightness	350	nits	
	Contract Ratio	3000:1		
	Response Time	9.5ms (on/off)		
	Aspect Ratio	16:9		
Touch Screen	Technique	PCAP 10-point touch		
	Material	Ultra-Thin tempered glass Light transmittance over 87%		
	Working Life	Over 60 million times click touch		
	Touching Tool	Finger or Stylus		
	Response Time	8ms		
Graphic	Input Connector	DP, DVI, HDMI		
Power	Power Input	DC 12V (Adapter)	VAC	
Power Consumption	Operation Mode	60 (Max)	W	
	Saving Mode	2.5 (Max)	W	
Physical	Dimension	750.4(W)*452.7(H)*56.5(D)	mm	
	Weight	Approx. 11	KG	
Environment	Operating Temp.	-10~50	°C	1
	Storage Temp.	-20~60	°C	
Reliability	Backlight MTBF	30,000	Hours	
	Warranty	12	month	
	ON/OFF Cycle	36,000	cycle	
DCC	Plug & Play	DDC 2B Compliance		
Function	OSD Key	5 keys (Power, Exit, ▲, ▼, Menu)		
	Wall Mount	VESA standard 200 x 200	mm	

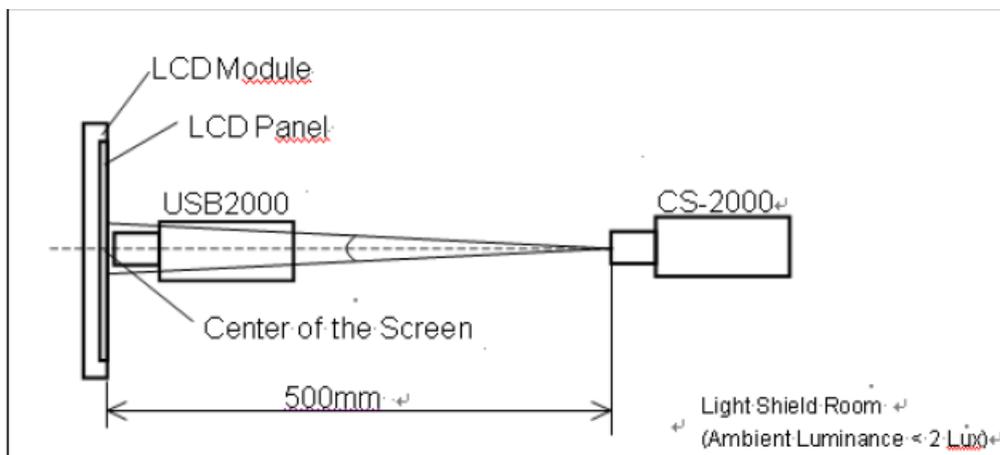
Note 1: The unit should not be exposed to corrosive chemicals.

Optical Characteristics

The relative measurement methods of optical characteristics are shown below.

Item	Sym	Condition	Min.	Typ.	Max.	Unit	Note	
Center Luminance of White	Lc	Normal Direction	250	350		CD/m ²		
Center Color Chromaticity or White	Red		Rx	Typ – 0.03	0.685	Typ + 0.003		
			Ry		0.310			
	Green		Gx		0.260			
			Gy		0.685			
	Blue		Bx		0.150			
			By		0.060			
	White		Wx		0.313			
			Wy		0.329			
Uniformity	5 points		δW	65	75			%
Contrast Ratio		CR	2000	3000				
View Angle	Horizontal	θ_{x+}	80	89		Deg.		
		θ_{x-}	80	89				
	Vertical	θ_{y+}	80	89				
		θ_{y-}	80	89				
Response Time		T_R		9.5	20	ms		
		T_F						
Crosstalk (in 60Hz)					1.5	%		

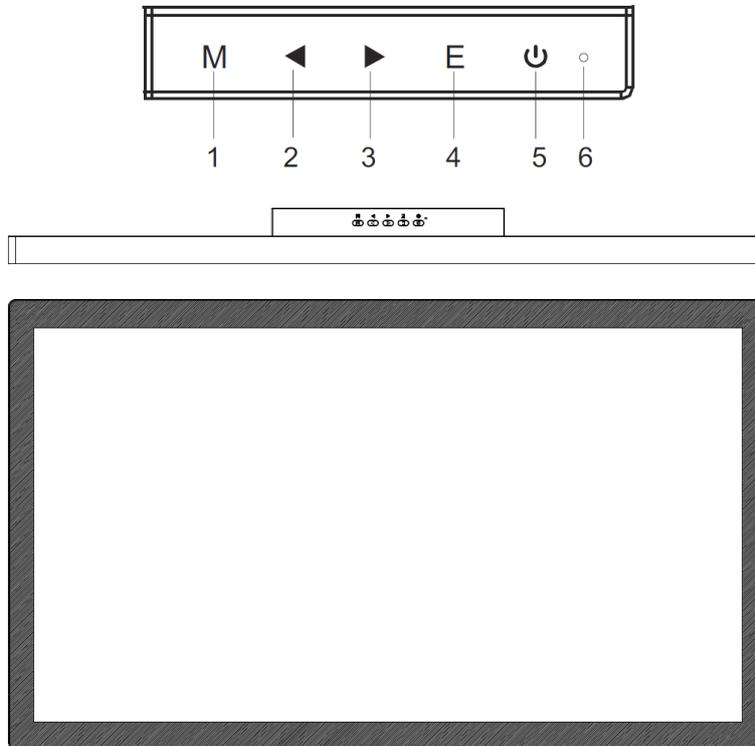
Measurement Setup:



The LCD module should be stabilized at given temperature for 40min. to avoid abrupt temperature change during measuring.

2. OSD Functions

OSD Key Instruction



Description of Key Function

1	M	Pops up the menu/Backs to the previous menu (in case of main menu exits from the whole menu).
2	◀	When the menu is activated, used as the left function selection key, and decreases progressively the value of the progress bar; when the menu is inactivated, used as the specified shortcut mode hot key.
3	▶	When the menu is activated, used as the right function selection key, and increases progressively the value of the progress bar; when the menu is inactivated, used as the specified shortcut mode hot key.
4	E	If the menu is activated, chooses the corresponding function.
5	⏻	Power switch: Powers on/off the monitor.
6	LED Power Indicator	Blue: in normal switch-on state; flickering in blue: in power-saving state.

Note: The physical keys of the specific model shall govern.

Operation Menu (OSD) Function Descriptions

First level menu item	First level menu icon	Second level menu item	Second level menu icon	Third level menu item	Third level menu icon	Description	
Brightness		NONE	NONE	NONE	NONE	Adjust display brightness	
Contrast		NONE	NONE	NONE	NONE	Adjust display contrast	
DCR		On		NONE	NONE	Activate dynamic contrast	
		Off		NONE	NONE	Inactive dynamic contrast	
		Return		NONE	NONE	Return to the previous menu	
		Exit		NONE	NONE	Exit from the whole menu	
Mode		Standard		NONE	NONE	Normal work mode	
		Movie		NONE	NONE	Movie mode	
		FPS		NONE	NONE	FPS game mode	
		RTS		NONE	NONE	RTS game mode	
		EyeSaver		NONE	NONE	Eye protection ray filter application mode	
		Return		NONE	NONE	Return to the previous menu	
		Exit		NONE	NONE	Exit from the whole menu	
Color Temp.		Cool		NONE	NONE	Set as cold color temperature	
		Warm		NONE	NONE	Set as warm color temperature	
		User		Red			Fine tuning of red color temperature
				Green			Fine tuning of green color temperature
				Blue			Fine tuning of blue color temperature
		Return		NONE	NONE	Return to the previous menu	
		Exit		NONE	NONE	Exit from the whole menu	
Aspect		Auto		NONE	NONE	Automatically adjust picture aspect ratio	
		16:9		NONE	NONE	Picture in 16:9 mode	
		4:3		NONE	NONE	Picture in 4:3 mode	
		Return		NONE	NONE	Return to the previous menu	
		Exit		NONE	NONE	Exit from the whole menu	
Input		DVI		NONE	NONE	DVI (digital) signal input	
		HDMI		NONE	NONE	HDMI (digital) signal input	
		DisplayPort		NONE	NONE	Display port (digital) signal input	
		Return		NONE	NONE	Return to the previous menu	
		Exit		NONE	NONE	Exit from the whole menu	

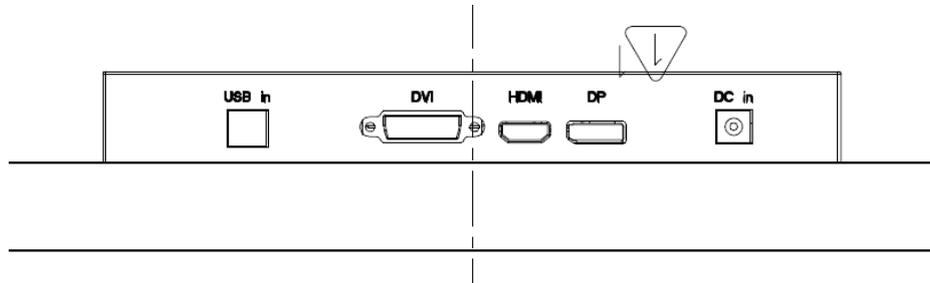
First level menu item	First level menu icon	Second level menu item	Second level menu icon	Third level menu item	Third level menu icon	Description
Adjust		Auto adjust		NONE	NONE	Automatically adjust the horizontal/vertical location, focusing and clock of pictures
		Auto color		NONE	NONE	Adjust the white balance of pictures
		Gamma		Gamma1		Adjust color tone brightness grey 1
				Gamma2		Adjust color tone brightness grey 2
				Return		Return to the previous menu
				Exit		Exit from the whole menu
Other		Language		English		English
				Française		Française
				Deutsch		Deutsch
				العربية		العربية
				Español		Español
				한국어		한국어
				Return		Return to the previous menu
				Exit		Exit from the whole menu
		Power Off		On		Automatically turn off after saving power for 1min
				Off		Inactivate the function of timed switch-off
				Return		Return to the previous menu
				Exit		Exit from the whole menu
		Reset		YES		Reset to factory setup
				NO		Exit from this function
				Return		Return to the previous menu
				Exit		Exit from the whole menu

First level menu item	First level menu icon	Second level menu item	Second level menu icon	Third level menu item	Third level menu icon	Description
		Over driver		Off		Normal mode
				Normal		OD general mode, reduce motion blur
				Extreme		OD extra-high mode, reduce motion blur
				Return		Return to the previous menu
				Exit		Exit from the whole menu
		SOUNU		NONE	NONE	Only available on supported mode
		Return		NONE	NONE	Return to the previous menu
		Exit		NONE	NONE	Exit from the whole menu
Exit		NONE	NONE	NONE	NONE	Exit from the whole menu

Note: The functions may be adjusted due to specific model or the upgrade of software version. The physical model shall govern.

3. Installing the Monitor

Customer ports and instruction as below:



If the computer is turned on, you must turn it off before continuing.

Do not plug-in or turn-on the power to the monitor until instructed to do so.

1. Attach the monitor base (Bypass)
2. Connect the PC video cable.
3. Connect the power cable to the monitor.
4. Route the cables via the cable clip.
5. Connect-to and turn-on the power.

Special Note:

- If the video card does not support the current resolution, please adjust the resolution to 16:9 format (1366 X 768 or 1920 X 1080 and so on).
- When the monitor is operating continuous, the chassis will be “warm”.

Trouble Shooting

If experiencing trouble with the monitor, or it fails to operate correctly, please refer to the following instructions before calling for repairs.

Trouble	Suggestion
1. The picture does not appear	<ul style="list-style-type: none">● Check to see that all the I/O and power cables is firmly seated in the socket.● Check the power LED is lighting when the monitor was turned on.● Check if the brightness control is at the appropriate position, not at the minimum.
2. The screen is not synchronized	<ul style="list-style-type: none">● Check if the I/O signal cable is firmly seated in the socket.● Check if the output level matches the input level.● Make sure the signal timings of the computer system are within the specification of the monitor.
3. The position of the screen is not in the center	<ul style="list-style-type: none">● Adjust the H-position, and V-position, or perform the auto adjustment or memory recall.
4. The screen is too bright (too dark)	<ul style="list-style-type: none">● Check if the brightness or contrast control is at the appropriate position.
5. The screen is shaking or waving	<ul style="list-style-type: none">● Press the auto adjustment control to adjust. Moving all objects which emit a magnetic field such as motor or transformer, away from the monitor. Check if the specific voltage is applied.● Check if the signal timing of the computer system is within the specification of monitor.

If you are unable to correct the fault by using this chart, stop using your monitor and contact us.

Appendix 1: Mechanical Drawing (Preliminary)

