

# **EX-91151 Display Monitor User Manual**

<b><u>Release Date</u></b>	<b><u>Revision</u></b>
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# Warning!

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This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions manual. It may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

Electric Shock Hazard – Do not operate the machine with its back cover removed. There are dangerous high voltages inside.

## Disclaimer

**This information in this document is subject to change without notice.**

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# Chapter 1

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## 1.1 Features

15" TFT XGA LCD with luminance of 400 cd/m<sup>2</sup>  
Front panel NEMA 4/IP 65 rated  
Resistive touch screen (optional)  
Panel mount/VESA mount  
DVI, Video or S-Video input  
Supports wide-ranging resolutions from 640x480 to up to 1600x1200  
with auto phase and auto position

## 1.2 Specifications

### Display

Display: 15" color active TFT flat panel display  
Maximum resolution: 1024 x 768 (native mode)  
Maximum colors: 16.2M  
Luminance: 400 cd/m<sup>2</sup> (EX-91151)  
Viewing angle: 170°(H), 170°(V) for EX-91151W; 140°(H), 125°(V) for EX-91151  
Backlight life: CCFL 4 tubes (EX-91151); 50,000 hrs  
OSD controls/indicators: automatic screen, setup (OSD), brightness, contrast, horizontal/vertical position, image lock, color balance, video information, power on and sync detection  
Touch screen: resistive antiglare  
OS compatibility: Win 95/98, XP, 2000, NT4.0, QNX, Linux  
Internal Power Adapter: Input: 100~240±10%V AC, full ranging  
Output: 12V DC @5A

### Mechanical

Construction: steel chassis and aluminum front panel  
Mounting Options: panel mount/VESA mount  
OSD on the front side  
Dimensions: 390(W) x 310(H) x 65.5mm (D)  
Cutout Dimensions: 305.8(W) x 290mm (H)  
Weight: 5.32kg

## Environmental

Operating temperature: 0 to 50 (32 to 122 )

Storage temperature: -20 to 60 (-4 to 140 )

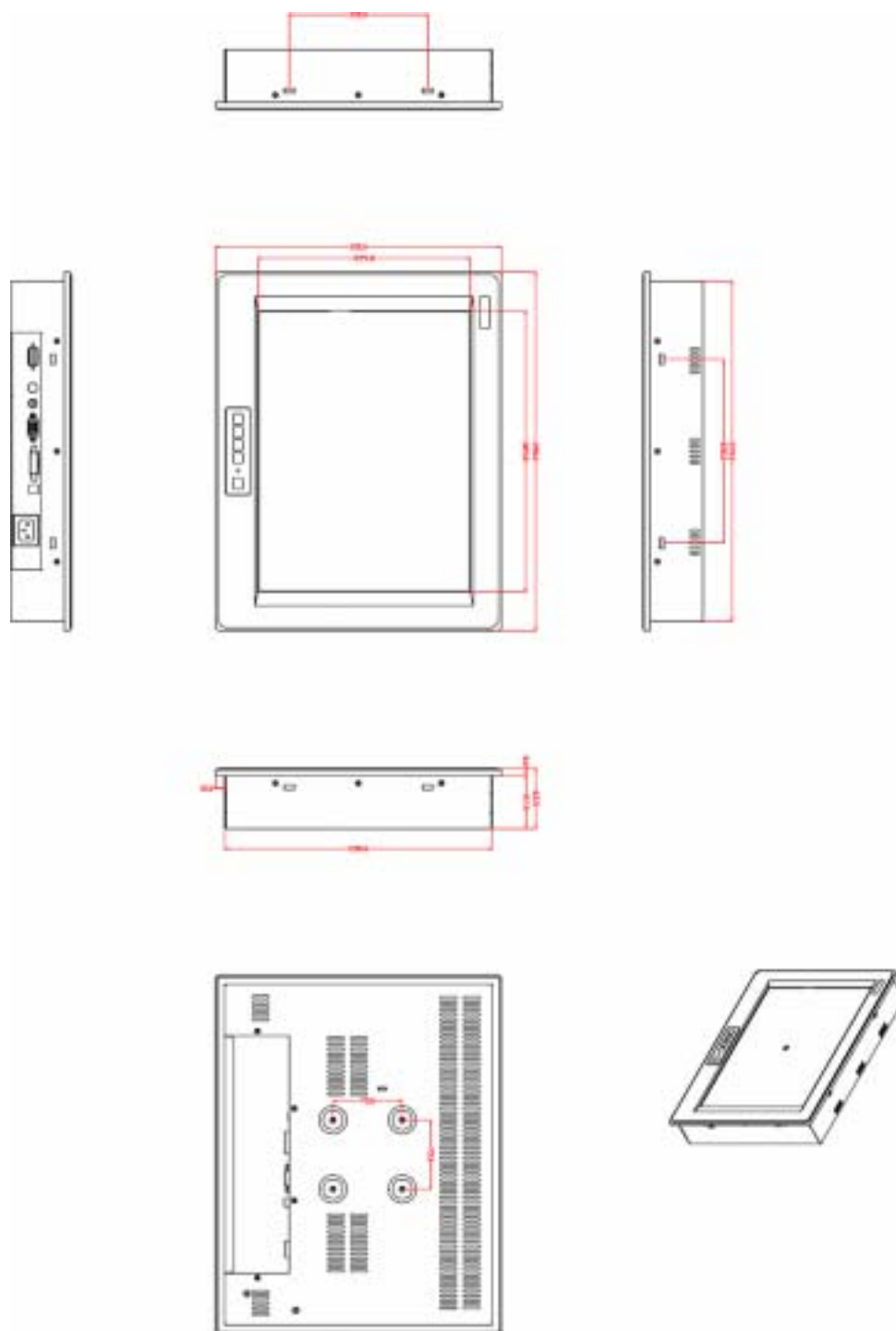
Relative humidity: 10 to 95% @40 , non-condensing, without touch screen

Vibration: 1G peak, 5~500Hz (at random)

Shock: 15G peak acceleration (11 msec.duration)

EMC: CE, FCC Class A

## 1.3 Dimensions



**Figure 1.1: Dimensions of the EX-91151**

## 1.4 Brief Description of the EX-91151

The EX-91151 features an excellent viewing ability for monitoring and control applications. It is available with resistive touch screen that is easy to use and maintain.

The front panel of the display monitor is sealed with gasket for NEMA 4/IP 65 rating when it is panel-mounted in a NEMA rated cabinet or enclosure.



**Figure 1.2: Front View of the EX-91151**



**Figure 1.3: Rear View of the EX-91151**

## 1.5 Display Mode


Display Mode		Hori. Sync (KHz)	Vert. Sync. (Hz)
VGA 640 x 480		31	60
		38	72
		38	75
SVGA 800 x 600		35	56
		38	60
		48	72
		47	75
XGA 1024 x 768		48	60
		56	70
		60	75
SXGA	1152 x 864	68	75
	1280 x 1024	64	60
		80	75





# Chapter 2

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## 2.1 Front Panel Controls

 Power switch: To turn ON or OFF the power

 Shift the icon to the right side or shift it up










 Shift the icon to the left side or shift it down

 Menu: To enter OSD menu for related icon and item.

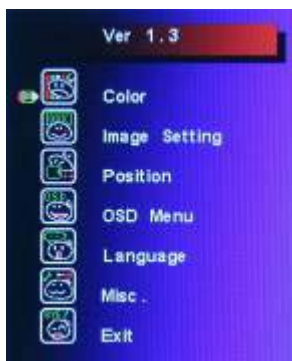
 Auto Button: One-touch auto adjustment

## 2.2 OSD Controls

To make any adjustment, select the following:

1. Press  (Menu) to show the OSD menu or disable the OSD menu.
2. Select the icon that you wish to adjust with the (/ or +/-) key in the menu.
3. Press  (Menu) and then choose the item with the (/ or +/-) key.
4. Press  (Menu) and then adjust the quality with the (/ or +/-) key.

## 2.3 Main Menu



In the **Main** menu, there are the following items:

- Color
- Image Setting
- Position
- OSD Menu
- Language
- Misc
- Exit



For **Color**, check out the following:

- Contrast
- Brightness
- Color Adjust
- Color Temp
- Back



For **Image setting**, check out the following:

- Clock
- Phase
- Gamma
- Sharpness
- Back



In the **Position**, there are the following:

- H. Position
- V. Position
- Back



In the **OSD** menu, there are:

- OSD H. Pos.
- OSD V. Pos.
- OSD Timer
- Back



In the **Language** menu, there are:

- English
- Frances
- Germany
- Spanish
- Traditional Chinese
- Simplified Chinese
- Japanese





In the **Misc** menu, there are:



- Signal Source
  - Select VGA: Analogue VGA Input
  - Select DVI: Digital DVI-D Input
  - Select AV: Composite Video Input
  - Select SV: S-Video Video Input
- Reset
- Back

## 2.4 AD Board (TB-6020) OSD Functions





### 1.) Getting into Burn-in Mode

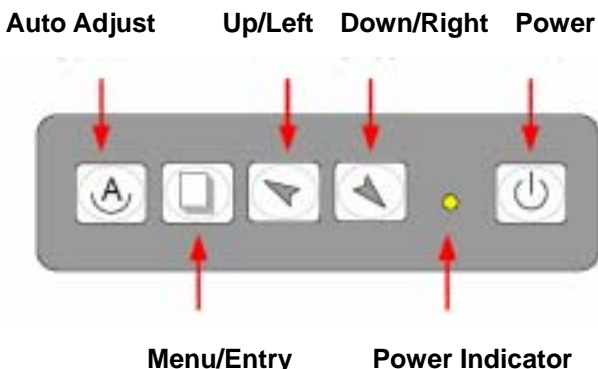
Before setting into a burn-in mode, first disconnect the AC power cord. Then press (don't let them go) the   buttons until the AC power cord is connected and the "RGB" appears on the top left corner of your screen. Now it can be put into the burn-in mode for changing colors.

### 2.) Getting Out of Burn-in Mode

Before getting out of the burn-in mode, please first disconnect the AC power cord. Then press the  button (If not workable, press the  button and don't let them go) until the AC power cord is connected. Please don't let your fingers go until the AC power cord is connected again and the wording of "RGB" appears on the top left corner of your screen, and wait for 3 second. Under the non-signal entry situation, if **Cable Not Connected** is seen, exit is thus successfully made.

### When the Burn-in Mode is Unable to Eradicate...

- 1.) If the "RGB" is still on the top left corner of the screen, press  to enter "Miscellaneous" and choose "Reset", and then **Yes**, and press . When the screen goes black, disconnect power and repeat the above steps.
- 2.) If the "RGB" is not found, disconnect the AC power cord first. Then press the   buttons (don't let them go) until the AC power cord is connected, and wait for 2 to 3 seconds. When "RGB" appears, repeat the above steps.
- 3.) Functions of OSD Keys

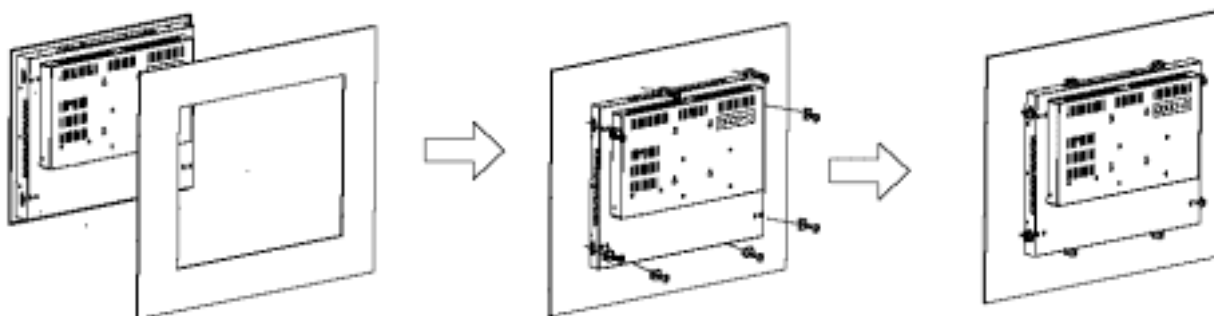


# Appendix

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## Panel Mounting

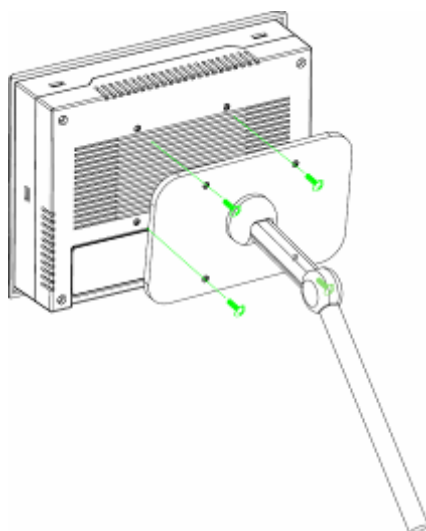
The EX-91151 display monitor is designed to be panel-mounted as shown in Figure A. Just carefully place the unit through the hole and tighten the given 8 screws from the rear to secure the mounting.



**Figure A: Panelmounting of the EX91151**

## VESA 75 Mounting (optional)

The EX-91151 display monitor can be VESA-mounted as an option. Just carefully mount the arm onto the rear of the unit by fastening the given four screws as shown in Figure B.



**Figure B: VESA-mounting of the EX-91151**