

Installation and user instructions for:

VFS32WHDA

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## CE INFORMATION

The product must be installed according to the currently valid installation regulations for EMC to guarantee the designed use and to prevent EMC problems.

The device supplied with this manual is according to the EC, EMC Directive, 2014/30/EU & LVD 2014/35/EU

## SAFETY PRECAUTIONS

1. Do not modify the three-prong grounding type monitor power plug in any way.
2. Operate this unit only from the type of power source indicated on the label.
3. Do not block or cover ventilation openings on the back or bottom of the monitor cabinet.
4. Do not place this monitor near a radiator or heating vent.
5. Do not push objects of any kind through cabinet openings. This may result in fire or electrical shock.
6. Before adding attachments always ask a service technician to perform routine safety tests to determine that equipment is in safe operating condition. Ground potential tests should be part of the routine safety check made by the service technician.
7. Do not place monitor on an unstable surface, stand, or shelf where it may fall and injure personnel or damage equipment.
8. Route power cords so that they cannot be walked upon or tripped over. Do not allow anything to rest on the power cord.
9. Do not install monitor in wet areas, or where it may be exposed to rain or water. Do not spill liquid of any kind on the unit.
10. Unplug the power cord from the unit before cleaning the display. Use only a damp cloth. Do not use alcohol, spirits, or ammonia to clean the display. **DO NOT ATTEMPT TO CLEAN THE INTERIOR OF THIS UNIT- THIS ACTION MUST BE PERFORMED BY THE SERVICE TECHNICIAN AS REQUIRED DURING NORMAL MAINTENANCE.**
11. Refer all servicing to qualified service personnel. **REMOVAL OF BACK COVER BY UNAUTHORIZED PERSONNEL MAY EXPOSE THE USER TO DANGEROUS VOLTAGES OR OTHER HAZARDS.**
12. Unplug the unit immediately and notify the service technician:
  - A. If liquid has been spilled into the display or the display has been exposed to rain or water.
  - B. If the unit has been dropped or the casing is damaged.
  - C. If fuses continue to blow.
  - D. If the power cord is damaged or frayed.
  - E. If a distinct change from normal operation is apparent.

When replacement parts are required, be sure that the service technician uses components specified by the manufacturer which have the same characteristics as the original parts.

**UNAUTHORIZED SUBSTITUTIONS MAY RESULT IN FIRE, ELECTRICAL SHOCK OR OTHER HAZARDS.**

Upon completion of any service or repairs, ask the technician to perform safety checks to determine that the equipment is in safe operating condition.

**WARNING: SERIOUS SHOCK HAZARDS EXIST WITHIN THE COVERS OF THIS MONITOR. DO NOT OPEN THE COVERS UNDER ANY CIRCUMSTANCES, THERE ARE NO USER SERVICEABLE COMPONENTS INSIDE**

## Before You Begin

Read these instructions before installing or operating this product.

**Note:** This installation should be made by a qualified service person and should conform to local codes.

This manual provides installation and operation information. To use this document, you must have the following minimum qualifications:

- A basic knowledge of CCTV systems and components
- A basic knowledge of electrical wiring and low-voltage electrical connections

### Intended use

Only use this product for its designated purpose; refer to the product specification and user documentation.

### Customer Support

For assistance in installing, operating, maintaining and troubleshooting this product refer to this document and any other documentation provided. If you still have questions, please contact Norbain Technical Support and Sales:

**Norbain SD, Inspired, Easthampstead RD, Bracknell , RG12 1YQ, England.  
UK +44 (0) 118 912 5000**

**Note:** You should be at the equipment and ready with details before calling Technical Support.

### Conventions Used in this Manual

**Boldface** or button icons highlight command entries. The following **WARNING, CAUTION** and **Note** statements identify potential hazards that can occur if the equipment is not handled properly:



**\* WARNING:**

Improper use of this equipment can cause severe bodily injury or equipment damage.



**\*\* Caution:**

Improper use of this equipment can cause equipment damage.

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**Note:** Notes contain important information about a product or procedure.



This apparatus is manufactured to comply with the radio interference. A Declaration of Conformity in accordance with the following EU standards has been made. The manufacturer declares that the product supplied with this document is compliant the provisions of the EMC Directive 2014/30/EU, the CE Marking Directive 93/68 EEC and all associated amendments.



All lead-free products offered by the company comply with the requirements of the European law on the Restriction of Hazardous Substances (RoHS) directive: 2011/65/EU, which means our manufacture processes and products are strictly “lead-free” and without the hazardous substances cited in the directive.

The crossed-out wheeled bin mark symbolizes that within the European Union the product must be collected separately at the product end-of-life. This applies to your product and any peripherals marked with this symbol. Do not dispose of these products as unsorted municipal waste.

\* This symbol indicates electrical warnings and cautions.

\*\* This symbol indicates general warnings and cautions.

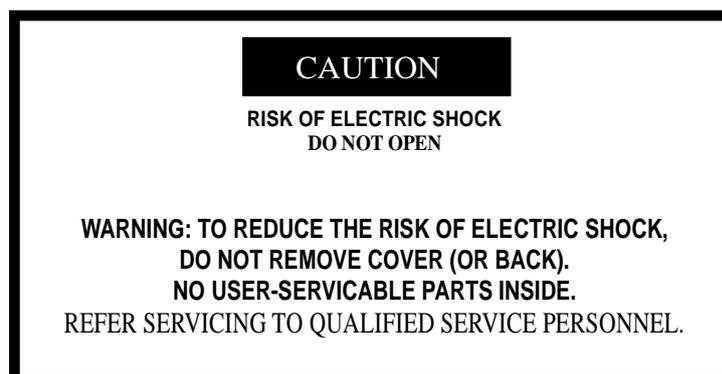
NORBAIN SD reserves the right to make changes to the product and specification of the product from time to time without prior notice.

#### **WARNINGS AND CAUTIONS:**

To reduce the risk of fire or electric shock, do not insert any metallic objects through the ventilation grills or other openings on the equipment.

#### **WARNING**

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.



## 1. Scope

This specification is used to define the performance of VFS32WHDA color TFT LED monitor. This system also supports both video input and PC input. In video input mode, the system can automatically detect the CVBS, AHD and TVI signal. In PC mode, this system can support up to 1920 x 1080 VESA standard.

The user friendly OSD menu is also provided to make this system easy to operate.

## 2. Functional Specifications

### 2.1 Power Supply

The power supply spec is listed below, AC INPUT

AC power input range : Rated voltage 100 – 240 Vac +/- 10%, 47~63Hz, 0.74 Amps max.

\* Power consumption : 60 W max.

\* Power efficiency : 80% typical at normal line input and full load.

### 2.2 Video Characteristics

Composite Video (CVBS) / AHD 2.0 1080P / TVI 2.0 1080P: 1.0 Vp-p (0.5 – 1.5Vpp), Automatic switching from 75 unbalanced termination to Hi-Z with loop-through operation.

Y/C (S-video): 1.0 Vp-p (0.5 – 1.5Vpp), Automatic switching from 75 unbalanced Termination to Hi-Z with loop-through operation.

### 2.3 PC Input

- **VGA Input**

Analog RGB: 0.707 Vp-p. Support VESA Standard Timing

- **HDMI Input**

HDMI Compatible Interface Digital Signal: TMDS. HDCP: HDCP 1.1

### 2.4 Audio Input

Signal Level: 1.0 Vrms

## **2.5 Environmental**

### **Temperature**

Operating: 0<sup>0</sup>C to +40<sup>0</sup>C

Storage: -20<sup>0</sup>C to +60<sup>0</sup>C

### **Humidity**

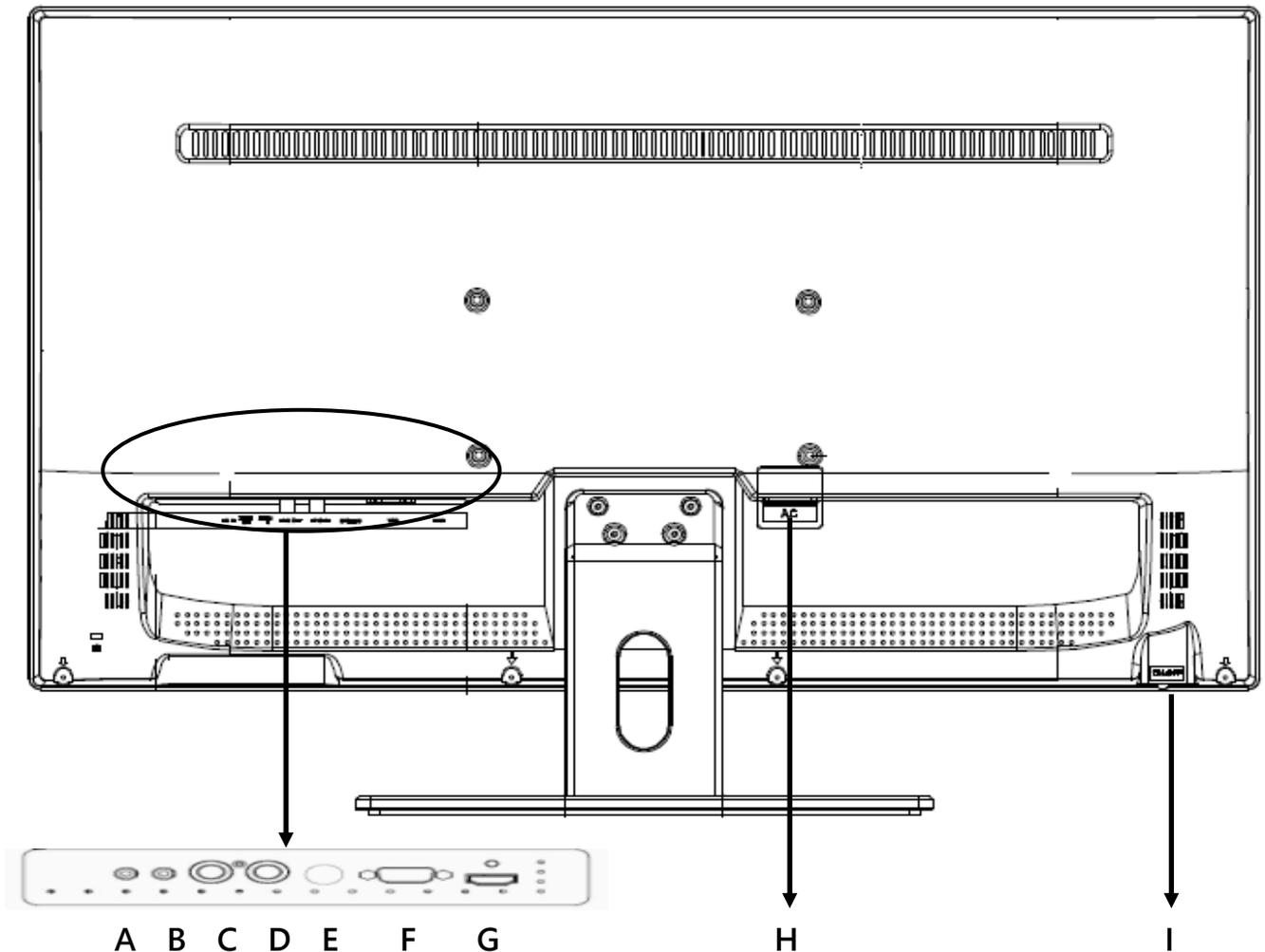
Operating: 10% to 85% (non-condensing)

Storage: 10% to 95% (non-condensing)

## **2.6 EDID**

This series of displays support EDID, but does not support DDC2B function.

## 2.7 Connectors



A. AUDIO OUTPUT: Phone Jack, Stereo.

B. AUDIO INPUT: Phone Jack, Stereo.

C. AHD/TVI/CVBS OUT – Analog HD - AHD / TVI 2.0 & Analog SD – CVBS (PAL / NTSC) Loop through output.

D. AHD/TVI/CVBS IN – Analog HD - AHD / TVI 2.0 & Analog SD – CVBS (PAL / NTSC) input.

E. S-VIDEO (Y/C) INPUT: Mini-DIN 4 pins Connector.

F. .VGA INPUT: D-SUB 15 pins Connector.

G. HDMI INPUT: HDMI Connector.

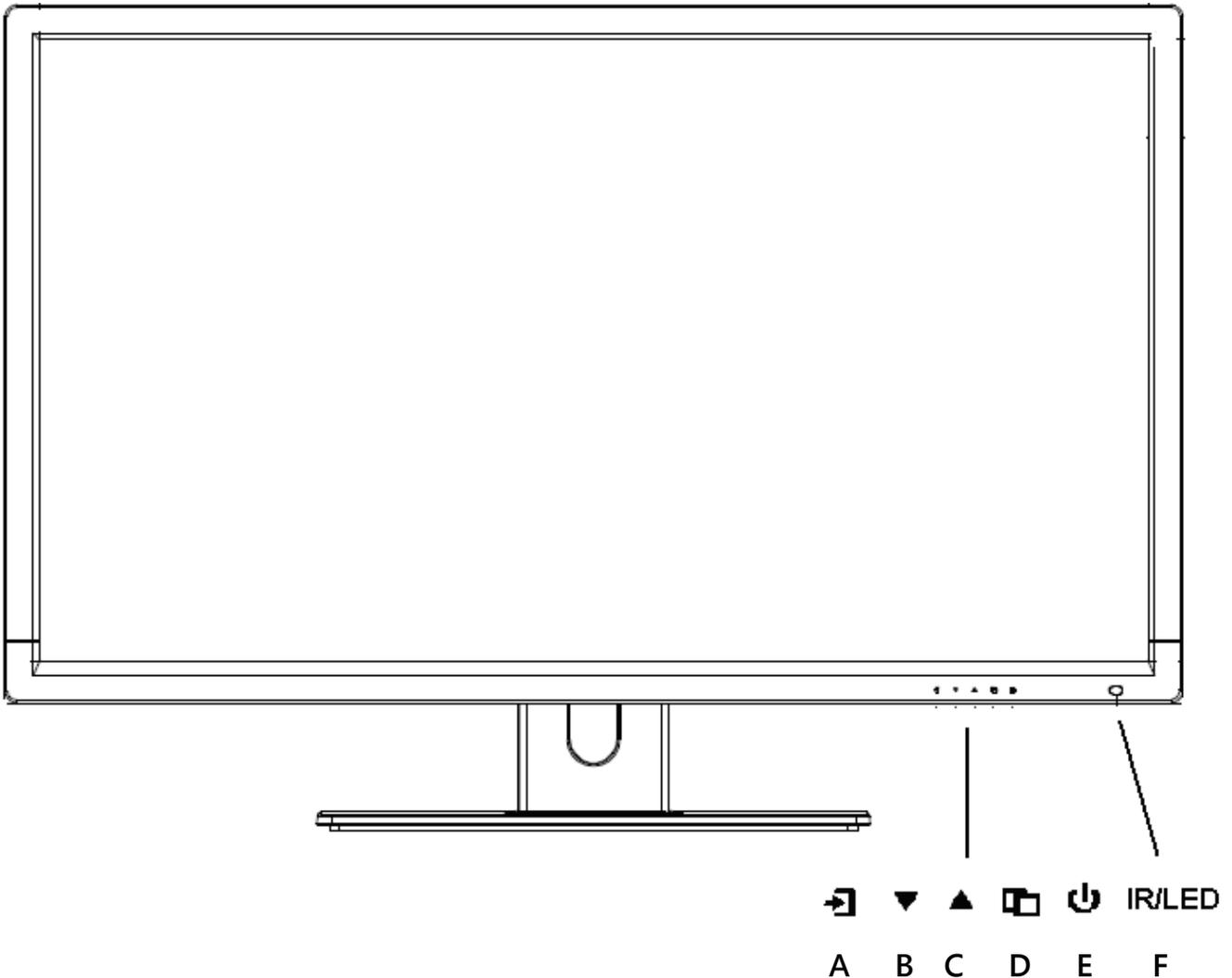
H. AC Input: AC Power Plug IEC 320, C14

I. Power Switch: Power Switch Press the Switch to turn ON or turn OFF the monitor Power

## Set up sequence

1. Make sure the power of PC and/or Video source were turned off.
  2. Plug the Video signal and VGA cable to monitor.
  3. Turns the PC and/or Video source power on.
  4. Plug the AC power cord onto AC Socket.
- (Use reverse sequence to tear down the monitor)

## 3. Controls and indicators



A. "  " Source button

- Press the button to show source menu. Select HDMI, S-Video, VGA and VIDEO(AHD/TVI/CVBS) input signal

**B. " ▼ " Down buttons**

- Press the buttons to scrolling the cursor to desired function.
- Press the buttons to decrease the value of selected function in sub OSD menu.

**C. " ▲ " Up button**

- Press the buttons to scrolling the cursor to desired function.
- Press the buttons to increase the value of selected function in sub OSD menu.

**D. "  " Menu button**

- Press the button to show the OSD main menu.
- As a confirmation key during the OSD operation.

**E. "  " Power button**

Press the button to turn ON or turn OFF the monitor

**F. POWER LED Indication**

- Green - Power on
- LED light off - Power off / Sleep mode (PC/HDMI mode only)

## Remote control



Power: Power On or Off the monitor

Mute: Mute the audio

Key Lock: Lock and unlock push buttons Menu/

Left/ Right/ Up/ Down/ OK/ Exit:

Monitor OSD control

◀ ▶ : Hot key for volume control

Auto: VGA mode picture Adjust

VIDEO: Select Video source

S-VIDEO: Select S-Video source

Info: Display Monitor source information

HDMI: Select HDMI source.

VGA: Select VGA source.

SDI: Reserve

## 4. OSD Menu

### Hot key :

Quick adjust keys from front panel hot keys :



VOLUME :

Press ▲ or ▼ button to select the function and press ▲ / ▼ buttons to adjust the volume , then press □ to exit OSD menu.

KEY LOCK : Push □ for 6 sec to enable this function.



KEY UN-LOCK : Push □ for 6 sec to disable this function.



## VGA & HDMI Mode OSD Menu structure :

Use  to select the VIDEO (AHD/TVI/CVBS), S-VIDEO, VGA or HDMI the menu structure within each varies, refer to sections below on how to set-up each option.



## VGA Mode :

Press  to bring up the MAIN MENU Page. The following page will appear

Press  /  to select an icon, then Press  to change the values in the sub menu.

### VGA MAIN MENU



### HDMI MAIN MENU





## MAIN ADJUST :



1. Press ▲ / ▼ to select an icon.
2. Press to select item,
3. Press ▲ / ▼ to adjust the value
4. Press to return



**VIVID MODE** : Select the VIVID MODE (0~3 and USER)  
 USER, 0: TEXT, 1: PHOTO, 2: MOVIE, 3: GAME



**BRIGHTNESS** : Adjust the brightness value



**CONTRAST** : Adjust the contrast value



**BACKLIGHT** : Adjust the backlight value



**VOLUME** : Adjust the volume



**EXIT** : Press to return to the main menu



## COLOR ADJUST :

Set the color temperature of the LED monitor for the CIE coordinate 9300°k or 6500°k or USER MODE.



1. Press ▲ / ▼ to select an icon
2. Press □ to select adjust item,
3. Press ▲ / ▼ to adjust the value.
4. Press □ to return

USER COLOR : Adjust the color temperature.



RED : Adjust the RED value for user mode.



GREEN : Adjust the GREEN value for user mode.



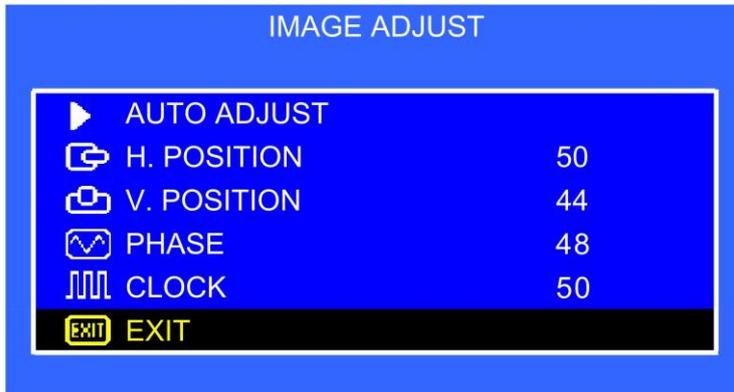
BLUE : Adjust the BLUE value for user mode.



EXIT : Press □ to return to the main menu



## IMAGE ADJUST (VGA ONLY) :



1. Press ▲ / ▼ to select an icon
2. Press 🔍 to select adjust item
3. Press ▲ / ▼ to adjust the value
4. Press 🔍 to return



**AUTO ADJUST** : Press 🔍 to auto adjust the H. Position. Position, Phase, Clock



**H. POSITION** : Adjust the horizontal position value.



**V. POSITION** : Adjust the vertical position value.



**PHASE** : Adjust the phase value.



**CLOCK** : Adjust the clock value.



**EXIT** : Press 🔍 to return to the main menu.



## INFORMATION :

Press 🔍 to get the VGA timing information





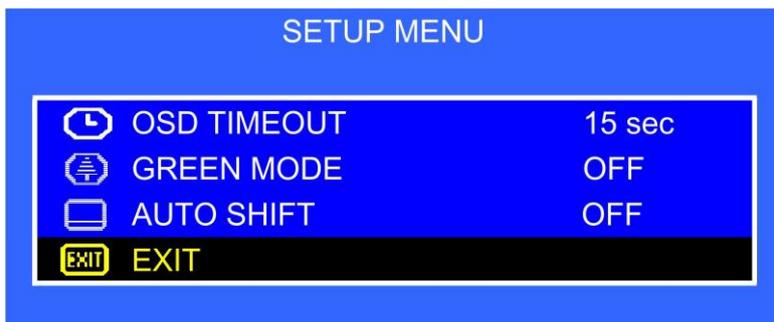
**LANGUAGE** : Press to enter the sub-menu



1. Press ▲ / ▼ to select language
2. Press to enter



**SETUP MENU** :



1. Press ▲ / ▼ to select an icon
2. Press to select adjust item
3. Press ▲ / ▼ to adjust the value
4. Press to return



**OSD TIMEOUT** : Adjust the OSD Show time (5 ~120 sec)



**GREEN MODE** : Off or On (5 min~10 min)

OFF – No function

ON – Screen will reduce back light to 80% within (5 min to 10 min)

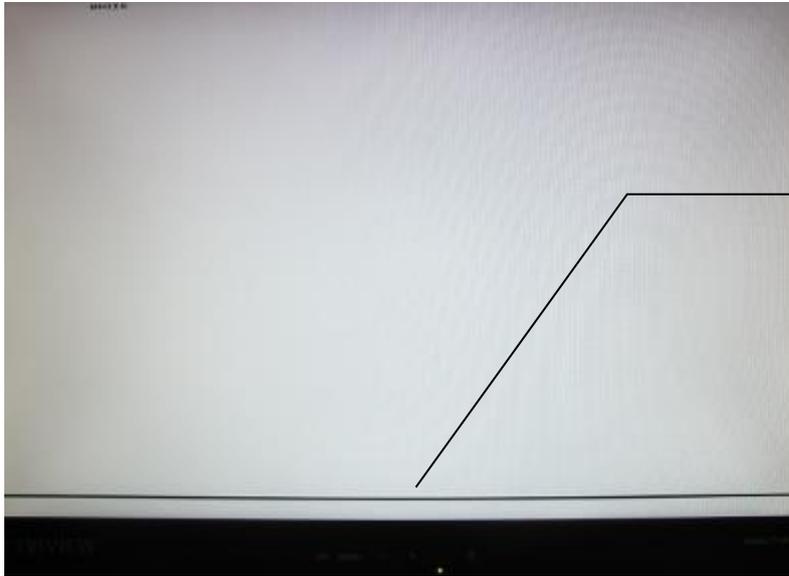
Screen will back to normal when any button is being touched.



**AUTO SHIFT** : Adjust AUTO SHIFT function ON/OFF

OFF – No Function

ON – Every one hour there will one scan line from top to bottom ( Every 1 second down one scan line) to prevent panel sticking.



AUTO SHIFT Scan Line

**EXIT** : Press  to return to the main menu



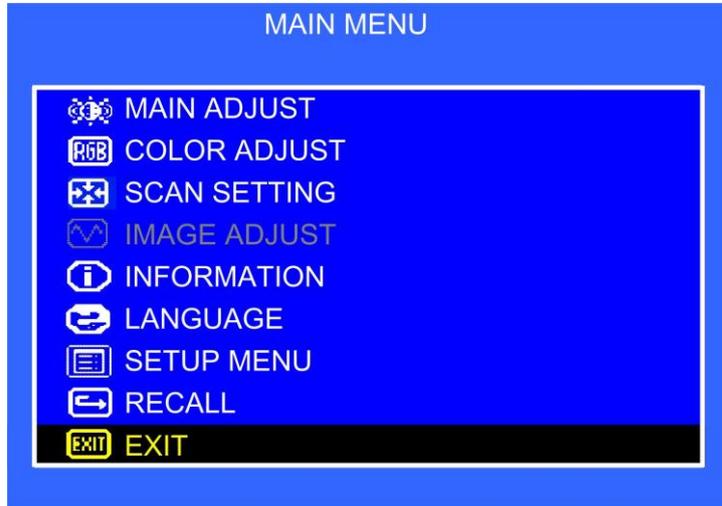
**RECALL** :

Brightness, Contrast, Volume, User Color Default, Vivid Mode, OSD Timeout, Green Mode, Auto Shift return to default Value.

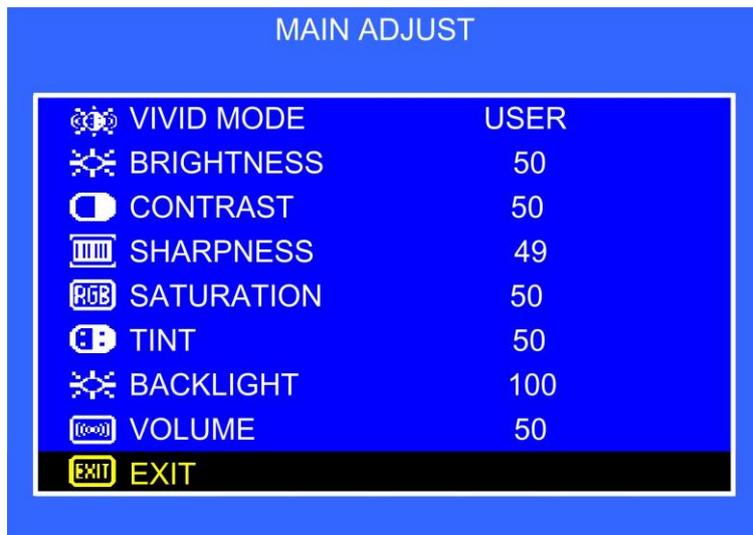
## Video Mode :

Press  to bring up the MAIN MENU Page. The following page will appear

Press  /  to select an icon, then Press  to change the values in the sub menu.



## MAIN MENU



1. Press  /  to select an icon
2. Press  to select item
3. Press  /  to adjust the value
4. Press  to return



VIVID MODE : Select the VIVID MODE (0~3 and USER)  
USER, 0: TEXT, 1: PHOTO, 2: MOVIE, 3: GAME



BRIGHTNESS : Adjust the brightness value.



CONTRAST : Adjust the contrast value.



SHARPNESS : Adjust Image sharp.



SATURATION : Adjust Image saturation.



TINT : Adjust Image tint. (Without PAL).



BACKLIGHT : Adjust the backlight value



VOLUME : Adjust the volume .



EXIT : Press  to return to the main menu.



## COLOR ADJUST :

Set the color temperature of the LED monitor for the CIE coordinate 9300°k or 6500°k or USER MODE



1. Press ▲ / ▼ to select an icon
2. Press □ to select adjust item,
3. Press ▲ / ▼ to adjust the value
4. Press □ to return

USER COLOR : Adjust the color temperature.



RED : Adjust the RED value for user mode.



GREEN : Adjust the GREEN value for user mode.



BLUE : Adjust the BLUE value for user mode.



EXIT : Press □ to return to the main menu



## SCAN SETTING :



1. Press ◀ / ▶ to select Underscan / Overscan state.
2. Press □ to return



## INFORMATION :

Press □ to get the timing information



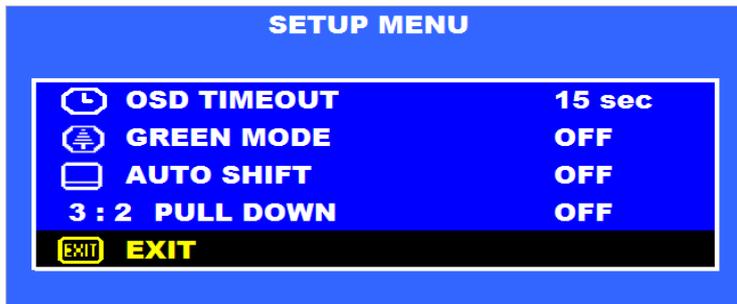
LANGUAGE : Press □ to enter the sub-menu



1. Press ▲ / ▼ to select language
2. Press □ to enter



## SETUP MENU :



1. Press ▲ / ▼ to select an icon
2. Press to select adjust item
3. Press ▲ / ▼ to adjust the value
4. Press to return



**OSD TIMEOUT** : Adjust the OSD Show time (5 ~120 sec)



**GREEN MODE** : Off or On (5 min~10 min)

OFF – No function

ON – Screen will reduce back light to within (5 min to 10 min)

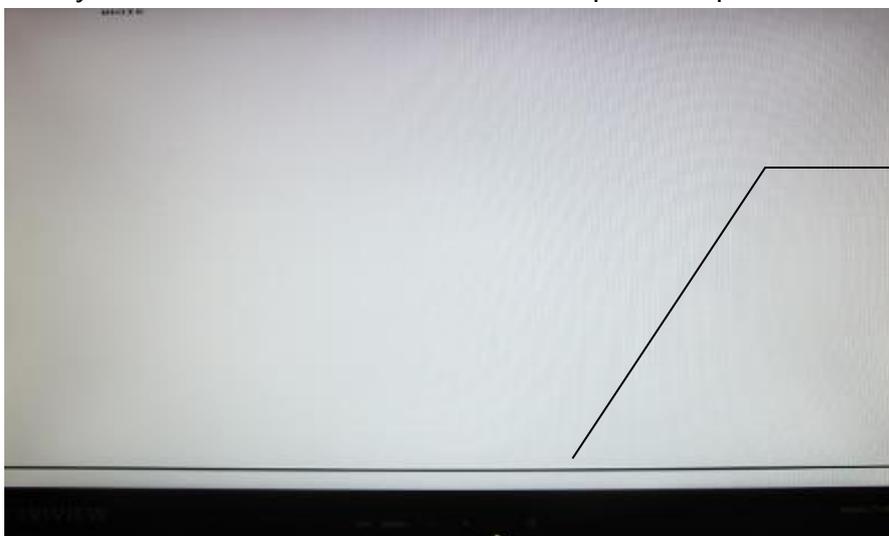
Screen will back to normal when any button is being touched.



**AUTO SHIFT** : Adjust AUTO SHIFT function ON/OFF

OFF – No Function

ON – Every one hour there will one scan line from top to bottom  
(Every 1 second down one scan line) to prevent panel sticking.



AUTO SHIFT Scan Line

**3:2 PULL DOWN** 3:2 PULL DOWN: Select ON/OFF of 3:2 Pull Down.

**EXIT** EXIT : Press  to return to the main menu.

**RECALL** :  
Brightness, Contrast, Sharpness, Saturation, Tint, Volume, Vivid Mode, User Color, OSD Timeout, Green Mode, Auto Shift, Backlight return to default Value.

## **5. Regulatory Agency**

### **5.1 Safety Approvals**

This series design shall meet the standards of the following domestic and foreign agencies:

CE LVD : EN60950-1

### **5.2 EMI/EMS Emission Approvals**

This series design shall meet following EMI/EMS specifications:

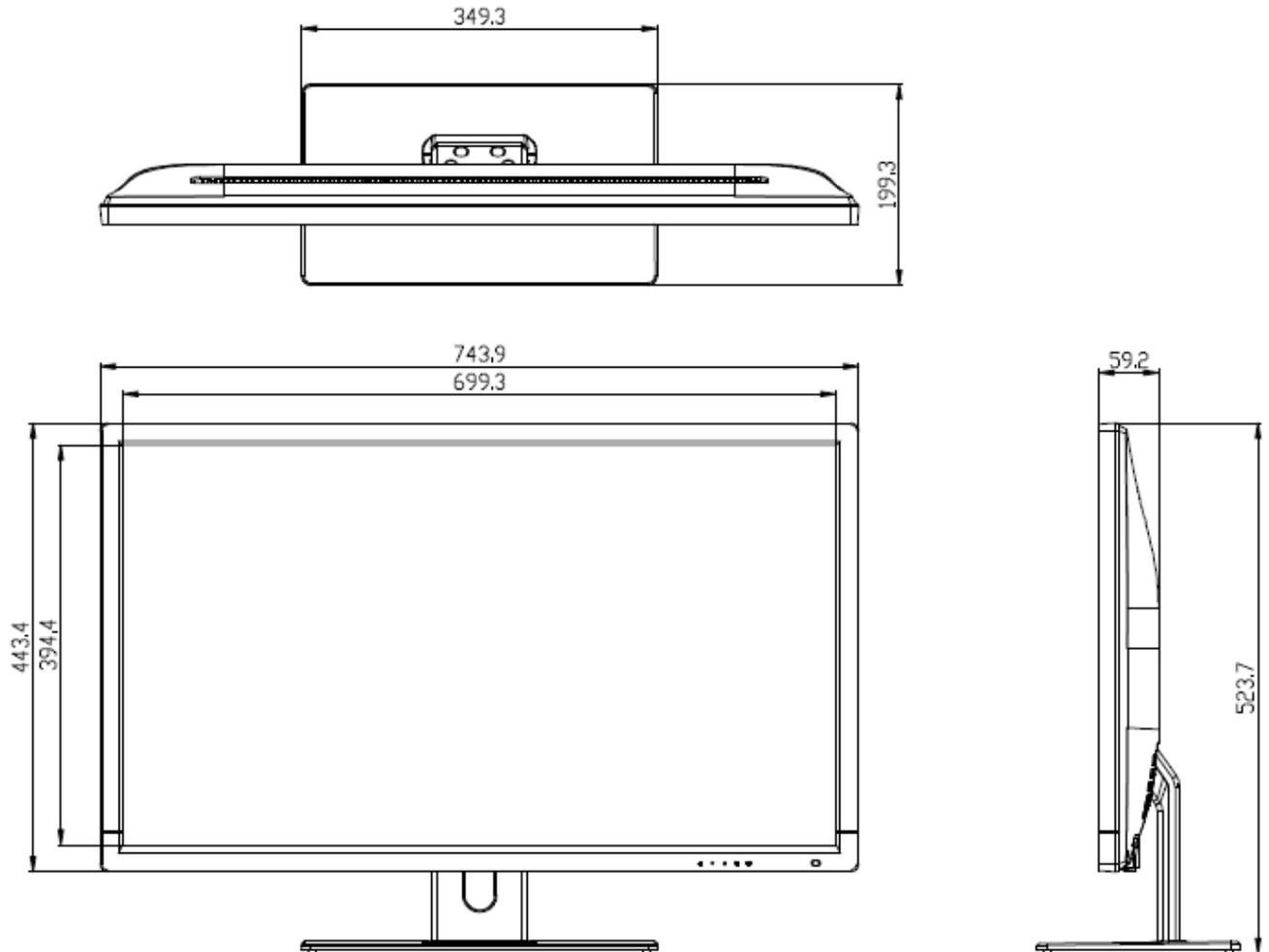
FCC Compliance: FCC Rules and Regulations, Part 15, subpart B, Class B.

CE COMPLIANCE: EN55032 class B, EN55024, EN50130-4

## 6. Mechanical

6.1 Cabinet Material: Plastic Finish: Black

6.2 Dimensions (mm)

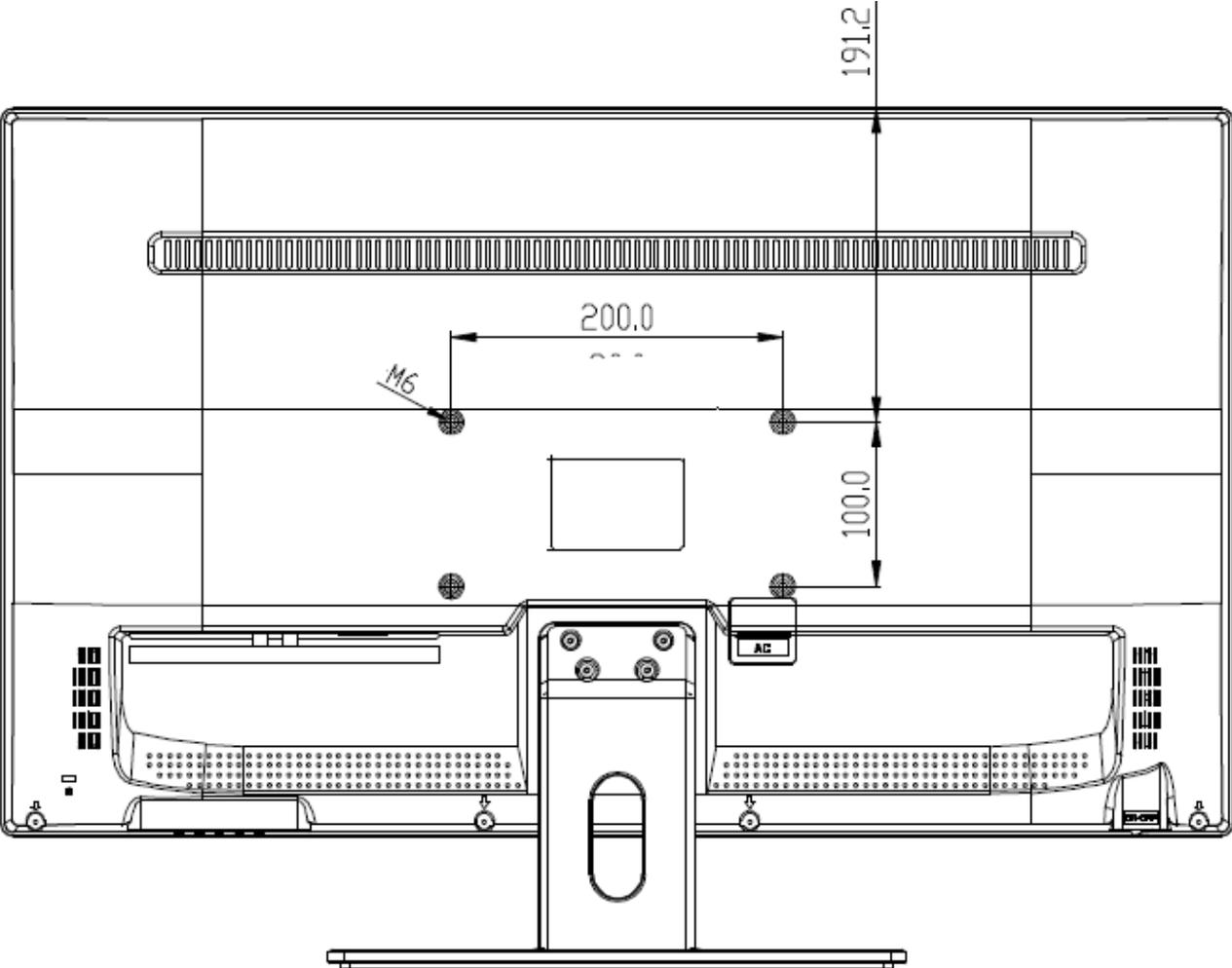


6.3 Packaging Dimensions (WxHxD)

850 x 655 x 180 mm

**Wall Mount Notes:**

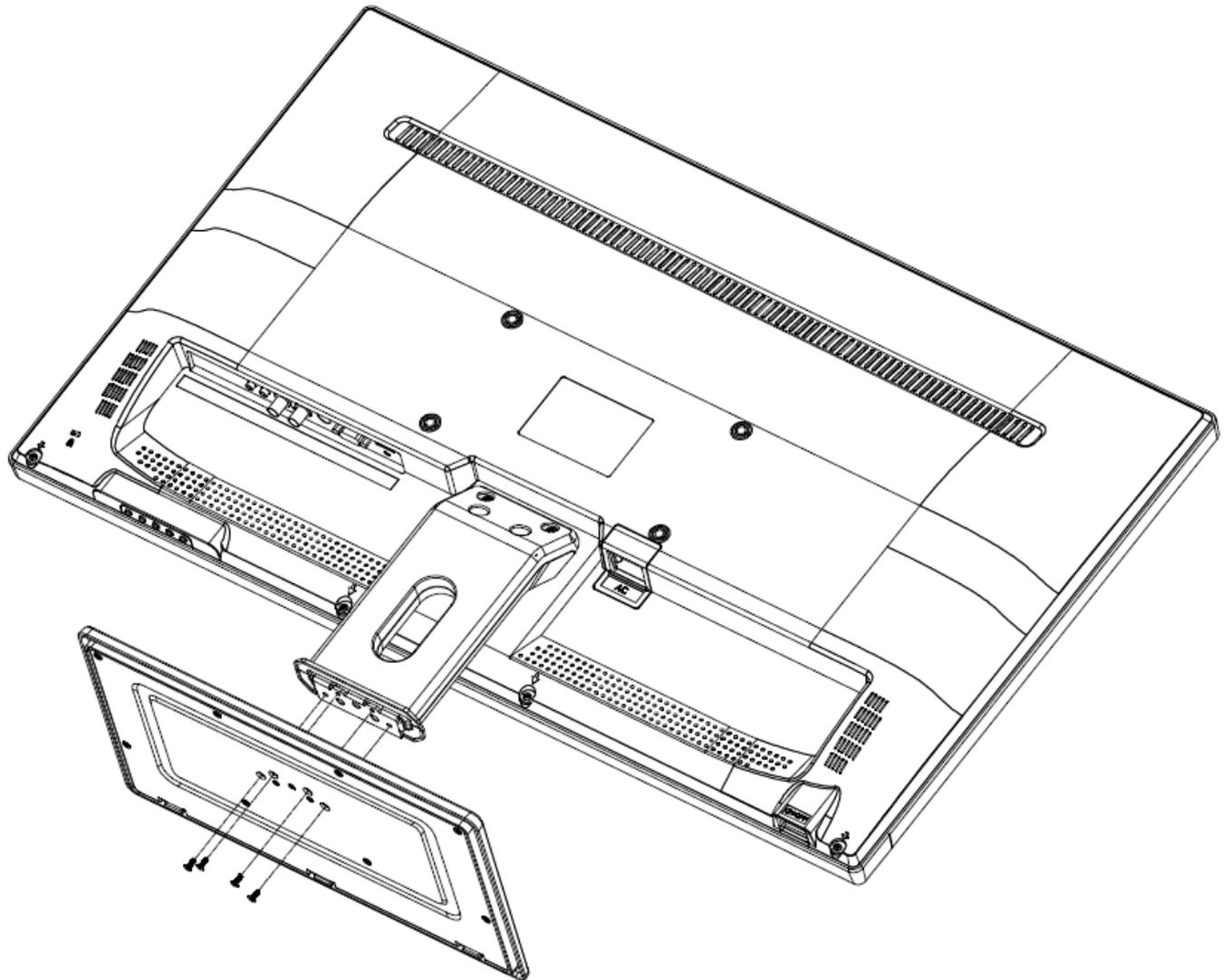
VESA Hole : 200x100 mm



## Base Assembly Installation

Assembling Base and Neck

Screw TYPE 4 \* 12 mm x 4 PCS



Norbain SD  
Inspired  
Easthampstead RD  
Bracknell  
RG12 1YQ