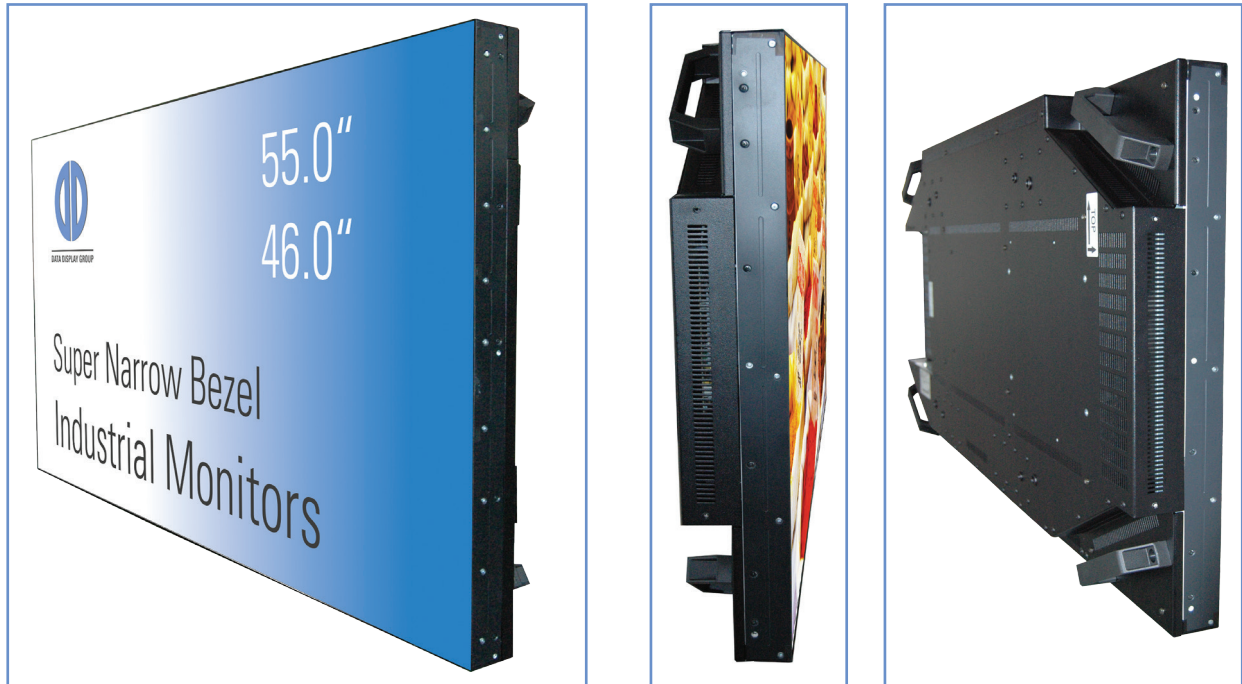


# USER MANUAL

## Super Narrow Bezel Monitors 46"/ 55" LAV

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**SNB Monitor (46"/ 55")  
with VGA, HDMI, DVI, RS 232**



DATA DISPLAY GROUP



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# 1. General Specifications

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## Scope of Document

This user manual is valid for Super Narrow Bezel 46" and 55" monitors. Article numbers: DS-91-235; DS-91-303

**Important note:** This user manual is complemented by other additional documents when indicated.

All documents are also available for download from Data Display Group web site: [www.datadisplay-group.com](http://www.datadisplay-group.com).

## Monitor versions:

SNB 46"/ 55" Lavinia: Monitor with integrated AD converter board, 1 x VGA, 1 x HDMI, 1 x DVI, 1 x RS232.

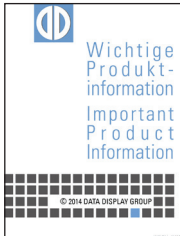


## 2. Scope of Delivery

When unpacking the monitor, please check if the following accessories are included in the shipment:



Note: Pictures can differ from actually supplied products.



☐ Product information\*



☐ Accompanying DVD\*  
(Manuals, Datasheets,  
Driver, Drawings)



☐ DVI cable\*



☐ Power cable\*



☐ RS232 modem cable\*



☐ Remote control incl. Batteries per video wall\*

\* The representation is a representation only.

### 3. General Safety Regulations

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#### Safety information

Please read this safety information carefully for your personal safety and for the prevention of property damage.

In case of a malfunction immediately disconnect the power plug and contact your dealer or the next Data Display Group service center. A malfunction is also considered if the housing, a control element or cable is damaged or if liquids or other objects penetrate the monitor.

Please read the safety information carefully before installing devices. If you have any doubts about whether the device may be used in a particular environment, please contact our service partner.

#### Repairs

Repairs may only be carried out by authorized technical personnel. Unauthorized access or improper repairs might cause serious property damage or cause danger to the user. In addition to that, any legitimate warranty claim expires.

#### Electrical connection

Disconnect the monitor from mains before carrying out any work. Do not touch or connect data cables or power cables during thunderstorms.

#### System start-up

Before system start-up slowly adjust the monitor temperature to the ambient temperature. Do not expose device to direct heat radiation. In case of condensation, please wait minimum 12 hours before setting the monitor into operation. The monitor may only be installed and operated as described in this documentation or the corresponding data sheets. Only qualified personnel may carry out the initial installation and system start-up.

#### Qualified personnel

Qualified personnel, in terms of the safety information of this documentation, are persons who are qualified to activate, ground and label devices, systems and circuits according to the safety standards.

#### Operation

For a trouble-free and safe operation of the product, adequate transportation, storage, installation and assembly as well as careful handling and maintenance are essential. The device is only certified for in-door operation. Avoid extreme ambient conditions. Protect the monitor from dust, humidity and heat. Do not expose the monitor to direct sunlight.

#### Transport

Unpack the monitor at place of installation. Use only original packaging for transportation. Please observe these rules for any later transport.

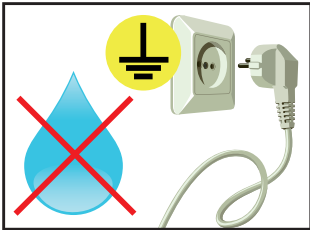
#### Condensation

Avoid condensation during transport at low temperatures or at extreme fluctuations of temperature.

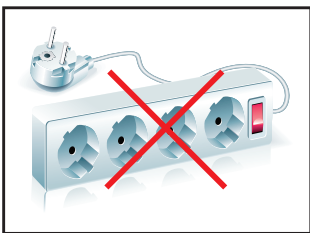
### Safety guidelines for the handling of LCD monitors



- If the device is not in use over a longer period of time, unplug the power cable.
- To unplug the device without problems, sockets have to be easily accessible.
- Do not unplug the power cable while the device is powered on, except for emergencies.
- Ensure that the power cable does not get pinched or kinked.
- Do not place heavy objects on the power cable.



- Do not use damaged or loose sockets to plug in the device.
- Plug the device in earthed sockets only.
- Operate the device with our power cables included in the delivery only.
- Use undamaged power cables only.
- When plugging in and out, do not touch the power cable with wet hands.
- Ensure that the power cable is plugged in the socket safely and correctly.



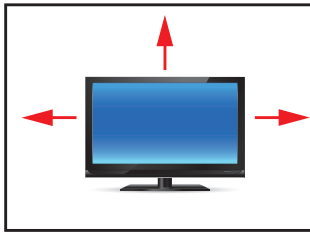
- Do not use multiple sockets to plug several devices into a single socket.



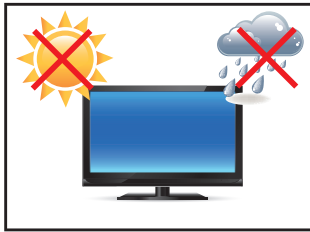
- According to size, devices may be difficult to handle and very heavy. Ensure that at least two people lift and carry the device.
- Put down the device slowly and carefully to avoid damaging the LCD screen. Ensure that the device stands stable.
- Keep packaging away from children. Danger of suffocation!
- Use our specified and professionally mounted wall mounting only.



- Do not put objects onto the device.
- Do not place candles, heaters or humidifier near the device.
- Keep the device away from fireplaces and flammable materials.



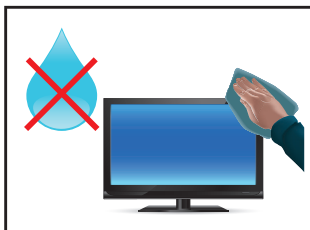
- Ensure sufficient ventilation of the device.
- Keep a minimum distance of at least 10 mm devices to the wall, for devices with integrated PC of at least 40 mm.
- Pay attention to the compliance with the operating temperature.



- Do not install the device in places where it is exposed to environmental impacts such as rain or direct sunlight.
- Do not install the device in places where it is exposed to high humidity, dust or smoke. In case of doubt, please contact your sales partner.



- Please use a soft, moist cloth for cleaning.
- For cleaning the screen, please only use commercially available screen cleaner. Do not spray the cleaner onto the device directly but onto a cloth.
- Please clean ventilation slots regularly to ensure a good air circulation.



- Protect your device from splash water.
- When cleaning, please make sure that no liquids get into the device.
- Screens and surfaces can be scratched easily. Therefore, please use the prescribed cloth only.



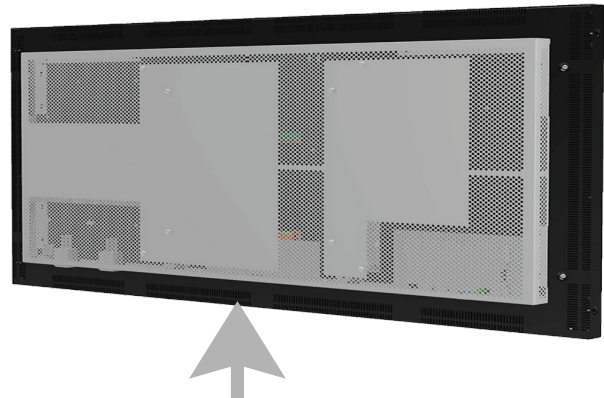
- Caution high voltage! Never open the device yourself.
- In case of unusual noises, burnt smell or smoke unplug the power cable.
- Do not insert objects into the device through the ventilation slots.
- If the same picture is displayed over a longer period of time, an after-image may arise.
- When exchanging batteries, pay attention to the polarity. Keep batteries away from children and ensure an environmentally correct disposal.

## 4. First Installation

### Position of connectors and controls

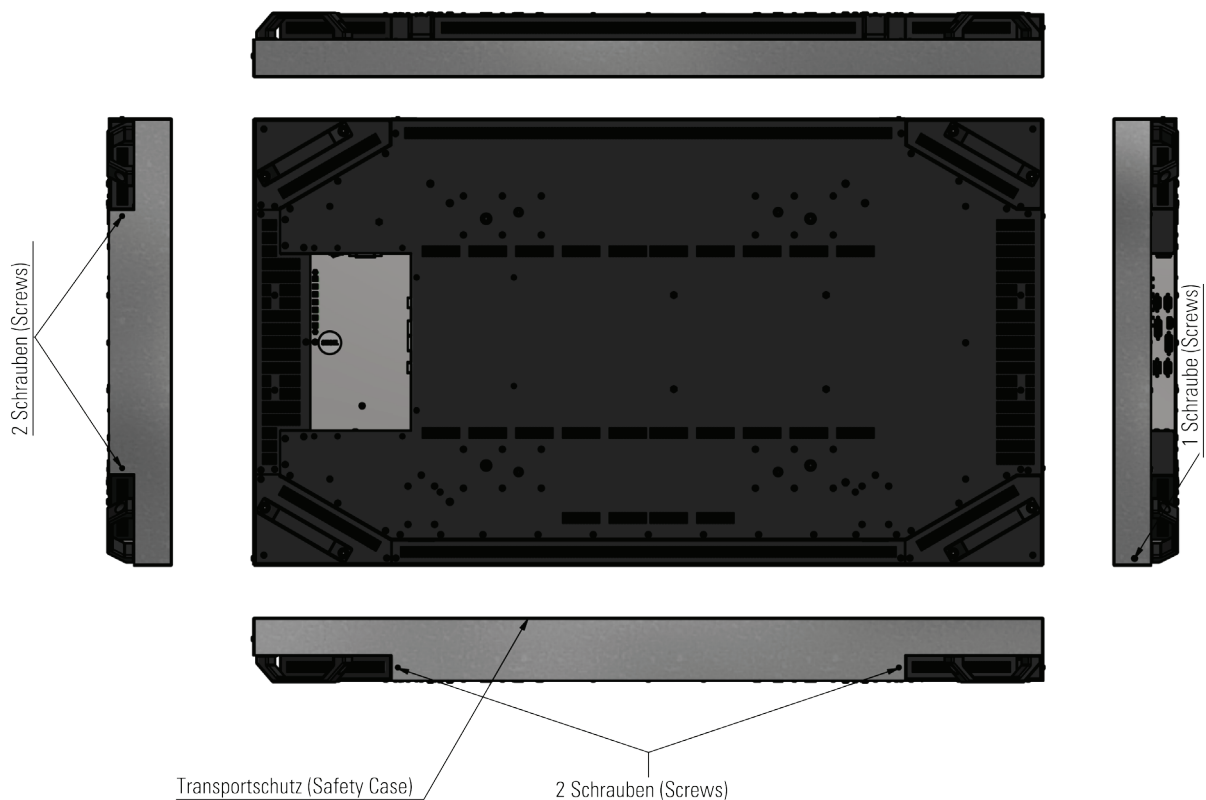
All connectors for power and cables are located at the bottom of the back side of the display.

Connection elements for data cables, keys of the OSD menu, power cable and on-/ off-switch



### Removing the transport lock

Please solve the indicated screws of the transport lock and remove the transportation lock carefully. An operation with transport security is not provided. Please note that the panel is highly sensitive. Look for acceptance of the transport safety of the one we have provided handling instructions. Warranty claims due to mechanical damage will not be accepted.

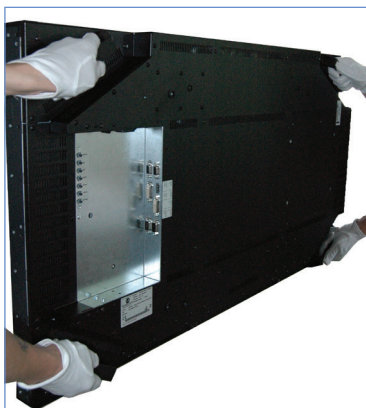


## Exercise caution when installing



It is only allowed to lift and transport the device by the handles. The frame of the panel-casing is only 0,3 mm. By lifting the device at the frame of the panel-casing, breakage of the glass, defaults of the slots or buckle of the case could be possible results. It is also not allowed to get the panel under pressure at the frontside.

Defects (especially of the panel), which are made by faulty handling, are not covered by a warranty.



1. grip and transport correctly:

- at rear of the device-sides, only in the area of the casing and handholds
- transport only by twos

2. Avoid:

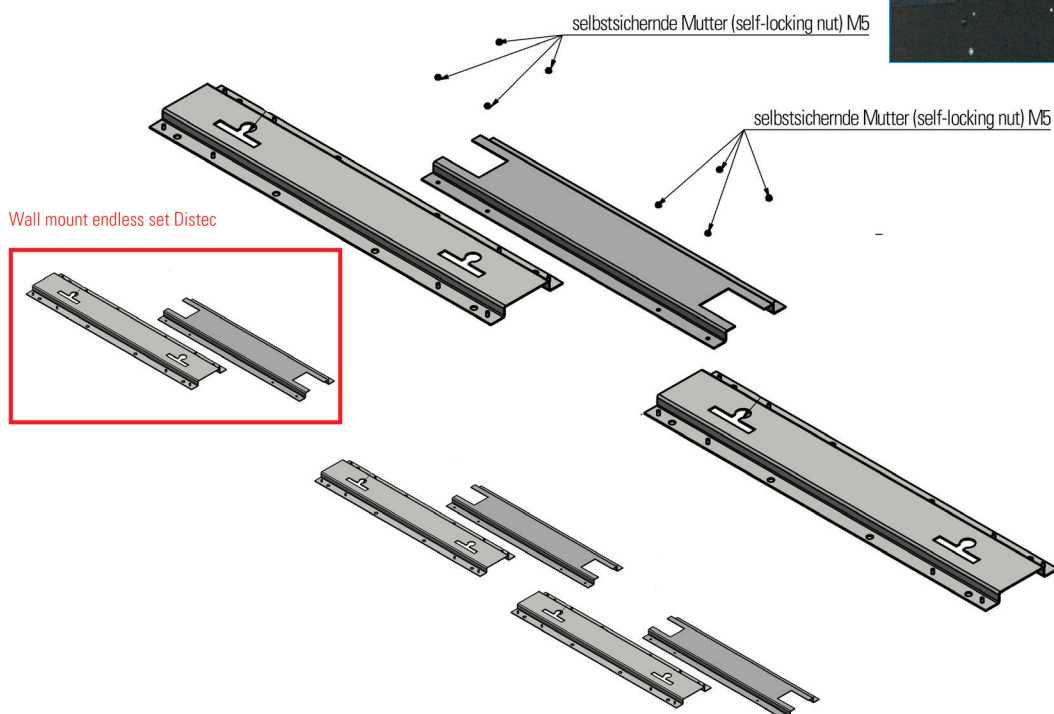
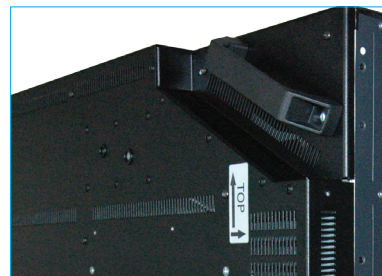
- press on the panel
- press on the panel-frame
- grip or lift on both sides on the panel-frame/ panel

## Mounting with brackets

The monitor can be mounted in landscape format and portrait format. The operating position of the device is perpendicular (90 degrees to the floor). Pay attention to the permissible tilt angle for wall mounting.

The device can be operated both in landscape mode and in portrait mode. The information is for positioning to note on the back of the device, always.

VESA-standards: MIS-F 400 x 400 mm (M6)  
500 x 380 (Endless Mounting Rail Distec)



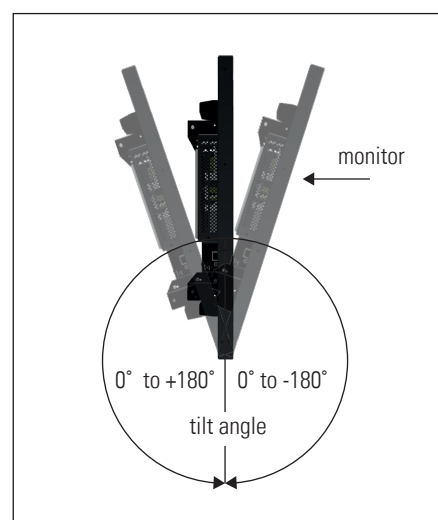
## Allowed tilt angle for mounting



Attention! All monitors are not allowed to be mounted with a tilt angle of  $0^\circ$  -  $+180^\circ$ .

The following monitors may be mounted only with a tilt angle of  $0^\circ$  to  $-180^\circ$ :

- All monitors without safety glass, true-flat glass or touchscreen



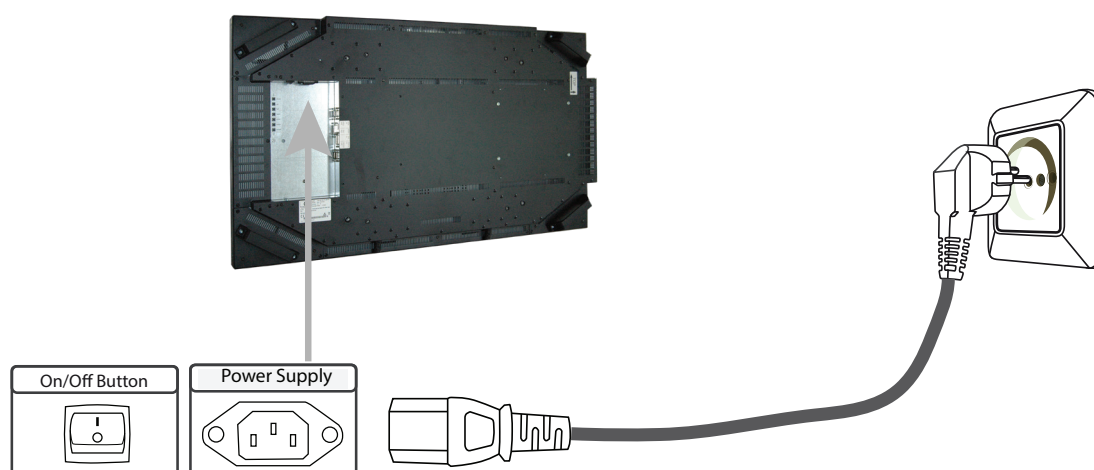
## Connecting to power

The SNB displays require a voltage of 110V - 230V AC. The standard model includes a matching power cable is included for connecting the power supply.



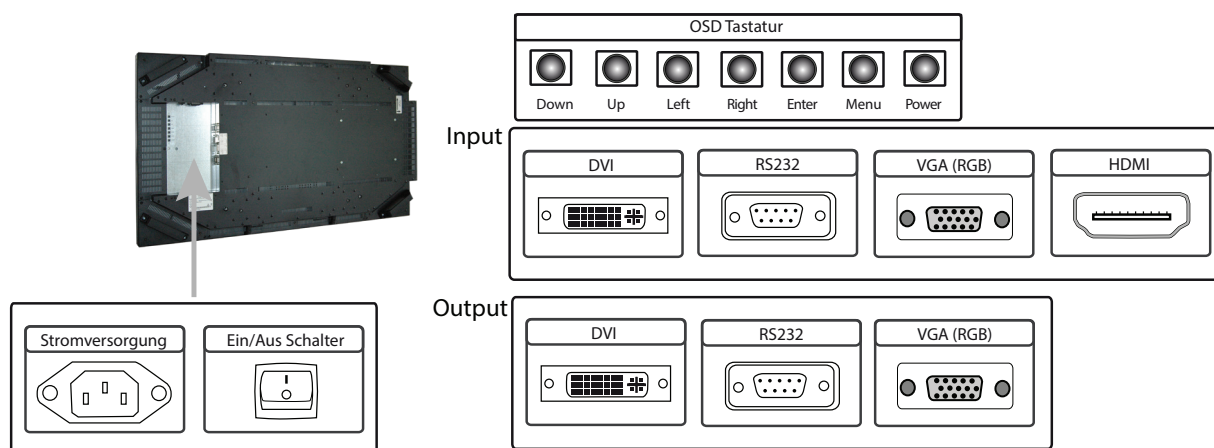
Note: Install all data cables to external devices before connecting the display to power.

- Switch the on/of switch in position off.
- Connect the power cable to the display.
- Connect the power cable to a power socket.
- Switch the display on.

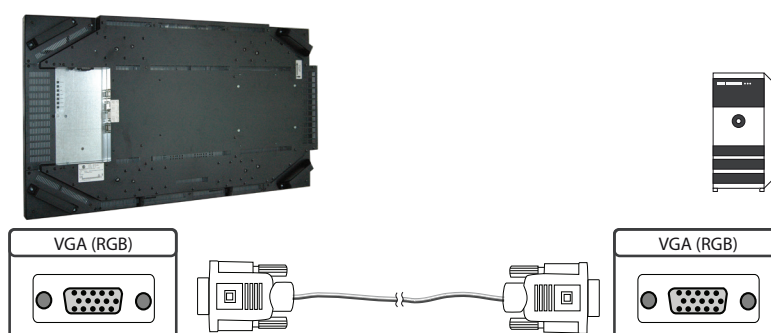


## 5. Super Narrow Bezel Video Lavinia

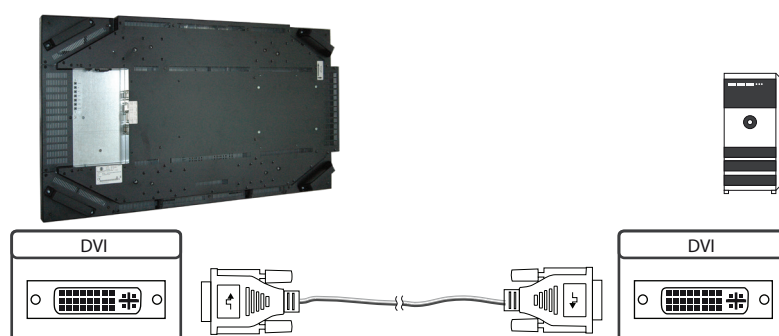
SNB Video Lavinia monitors have the following connectors and OSD buttons.



Connecting to a PC with VGA cable

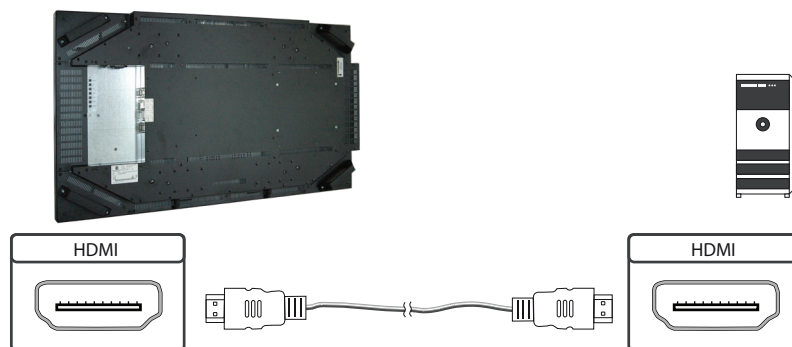


Connecting to a PC with DVI cable

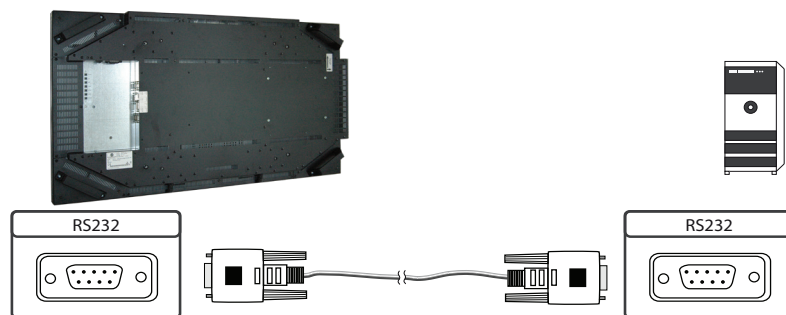




## Connecting to a PC with HDMI cable



## Connecting the remote OSD to a PC with RS232 cable

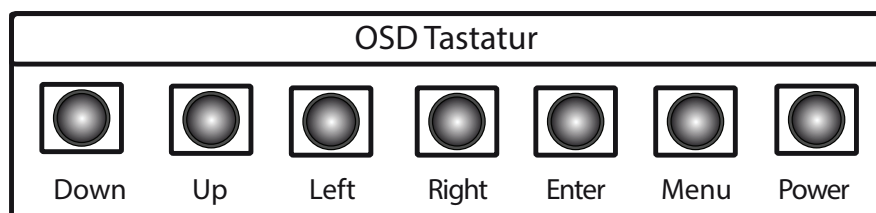


## Remote OSD Control

To control the OSD menu of the display remotely from a PC, use a RS232 cable and connect the display to your PC as described above. The OSD menu can then be operated via the remote control.

## OSD Keyboard

OSD functions of the monitor can be controlled via OSD key pad or via remote control. The OSD allows selection of input source and fine tuning of various functional parameters like brightness, contrast etc..



## Operating the OSD menu via keyboard

Key	Operation
Power	Power On/ Off
Menu	<ul style="list-style-type: none"> <li>Activates main OSD menu</li> <li>Navigates higher menu in main OSD menu</li> <li>Stops auto frequency searching</li> <li>Exits OSD menu</li> </ul>
Enter	<ul style="list-style-type: none"> <li>Activates OSD menu of input source selecting</li> <li>Changes input source by selecting</li> <li>Executes functions (by OSD help commands) in main OSD menu</li> <li>Activates Child menu</li> </ul>
Up	<ul style="list-style-type: none"> <li>Navigates input source</li> <li>Executes function (by OSD help commands) in main OSD menu</li> <li>Navigates previous menu in main OSD menu</li> </ul>
Down	<ul style="list-style-type: none"> <li>Navigates input source</li> <li>Executes function (by OSD help commands) in main OSD menu</li> <li>Navigates next menu in main OSD menu</li> </ul>
Left	<ul style="list-style-type: none"> <li>Decreases sound volume of speaker/headphone</li> <li>Executes function (by OSD help commands) in main OSD menu</li> <li>Decreases values of user menu in main OSD menu</li> </ul>
Right	<ul style="list-style-type: none"> <li>Increases sound volume of speaker/headphone</li> <li>Executes function (by OSD help commands) in main OSD menu</li> <li>Increases values of user menu in main OSD menu</li> </ul>

## Operating the OSD menu via remote control

Key	Operation
Power	Power On/ Off
Menu	<ul style="list-style-type: none"> <li>Activates main OSD menu</li> <li>Navigates higher menu in main OSD menu</li> <li>Stops auto frequency searching</li> <li>Exits OSD menu</li> </ul>
Enter	<ul style="list-style-type: none"> <li>Activates OSD menu of input source selecting</li> <li>Changes input source by selecting</li> <li>Executes functions (by OSD help commands) in main OSD menu</li> <li>Activates Child menu</li> </ul>
Up	<ul style="list-style-type: none"> <li>Navigates input source</li> <li>Executes function (by OSD help commands) in main OSD menu</li> <li>Navigates previous menu in main OSD menu</li> </ul>
Down	<ul style="list-style-type: none"> <li>Navigates input source</li> <li>Executes function (by OSD help commands) in main OSD menu</li> <li>Navigates next menu in main OSD menu</li> </ul>
Left	<ul style="list-style-type: none"> <li>Decreases sound volume of speaker/headphone</li> <li>Executes function (by OSD help commands) in main OSD menu</li> <li>Decreases values of user menu in main OSD menu</li> </ul>
Right	<ul style="list-style-type: none"> <li>Increases sound volume of speaker/headphone</li> <li>Executes function (by OSD help commands) in main OSD menu</li> <li>Increases values of user menu in main OSD menu</li> </ul>



Key	Operation via remote control continuation
Exit	Exit OSD menu
Info	Displays input source information
Sleep	<ul style="list-style-type: none"> <li>Set minimum sleep timer value more than current sleep timer value when sleep timer OSD activated</li> <li>If sleep timer is maximum value, disables sleep timer</li> </ul>
Mute	Toggles sound status of speaker/headphone in mute
Source	<ul style="list-style-type: none"> <li>Activates OSD of source change</li> <li>Deactivates OSD of source change</li> </ul>
PSM (Picture Standard Mode)	<ul style="list-style-type: none"> <li>Activates OSD of picture standard mode</li> <li>Deactivates OSD of picture standard mode</li> </ul>
SSM (Sound Standard Mode)	<ul style="list-style-type: none"> <li>Activates OSD of sound standard</li> <li>Deactivates OSD of sound standard</li> </ul>
ARC	<ul style="list-style-type: none"> <li>Activates OSD of aspect ratio control</li> <li>Deactivates OSD of aspect ratio control</li> </ul>
Still	Toggles picture status between motion and still image
Pre_Ch	not used
Dual L-II/ MTS	<ul style="list-style-type: none"> <li>Activates OSD of MTS sound format</li> <li>Deactivates OSD of MTS sound format</li> </ul>
PIP	Toggles PIP status
PIP Input	Change PIP input sources when PIP is on
PIP Size	Change PIP image size when PIP is on
PIP Position	Change PIP position when PIP image size is not double screen
Swap	Swap main input source and PIP input source
S.Select	Select main/PIP sound source when PIP is on
PC	Selects input source of PC
TV	not used
0 ~ 9	Enter digit value to Active SET ID
Blue	Set Active SET ID
Red	Delete Active SET ID
Mix	Activates Neptune OSD menu
TTX On	Enter File List

## OSD-Menu

In this menu system, there are several ways to customize the menu settings provided.

Most menus consist of three levels to set up the options, but some require greater depth for the variety of settings. If you press the MENU button, only the first and second level of the menu system will appear on the monitor screen. The third level can be displayed by pressing SELECT (or ►). If a menu has more than three levels, the pop-up dialogue box will be displayed as the fourth or fifth level.

### 1) To show and remove the Menu

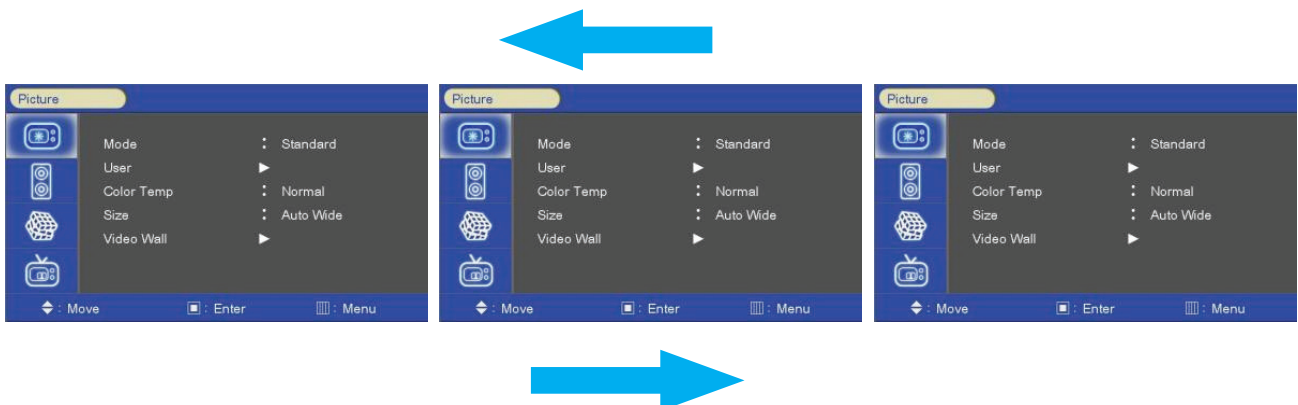
Press the MENU button on the Remote Control to display the menu. A second press of the MENU button or a press of the EXIT button will take you back to monitor viewing.

### 2) To go to the next level

Press SELECT (or ►) on the Remote Control.

### 3) To go back to the previous level

Press MENU (or ◀) on the Remote Control.



### 4) Typical Menu Operation

- Press MENU button: The main menu will appear.
- Use ▲/▼ to select the desired menu option (icon).
- While the desired menu option is selected, press ► or (SELECT) to move to the second level.
- Use ▲/▼ to select the second menu option.
- Press ► or (SELECT) to move to the third level: Some menu options require additional steps.
- Press MENU to return to the previous menu or press EXIT on the Remote Control to return to monitor viewing.

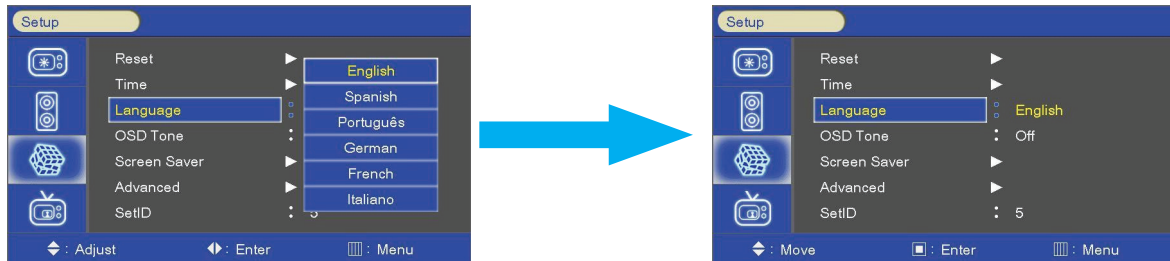
## Basic Operation

### Turning On the Monitor

- First, connect power cord correctly. At this moment, the monitor switches to standby or power on mode. In standby mode, in order to turn monitor on, press the POWER button on the remote control.
- Select the viewing source by using SOURCE button on the remote control.

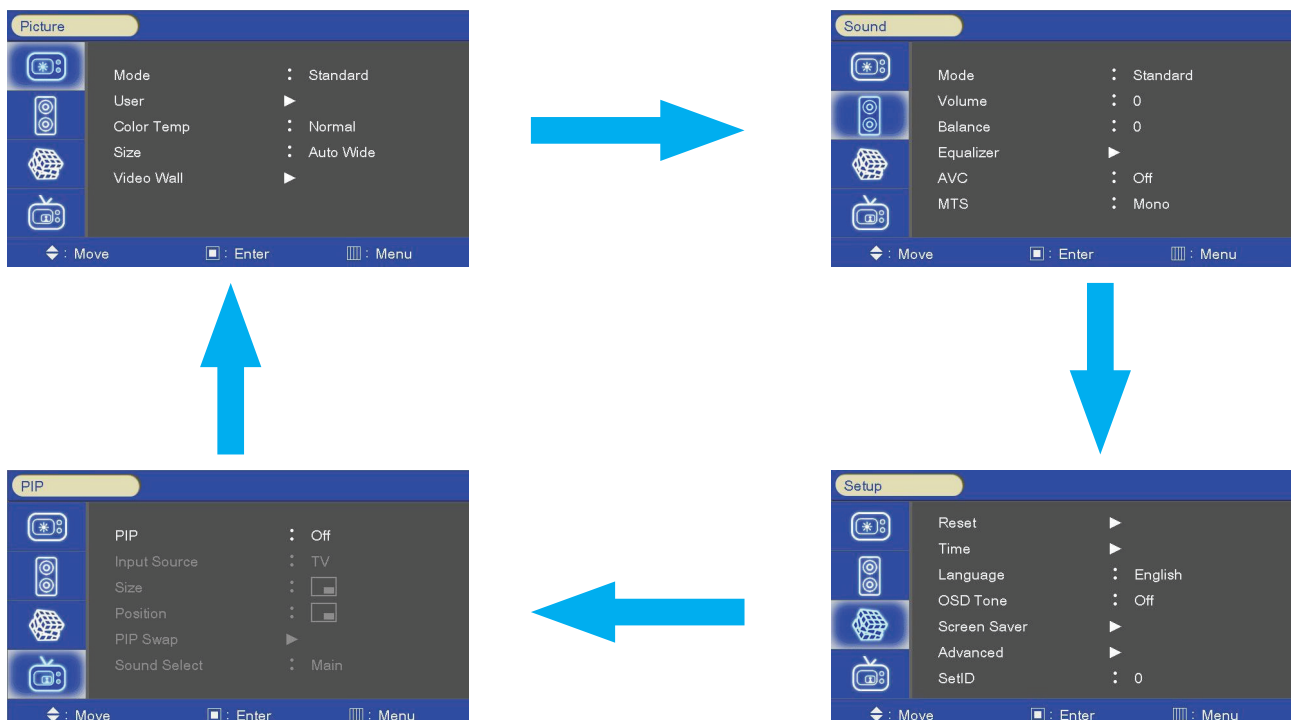
## On Screen Menus Language Selection

- Press the MENU button and then use ▲/▼ button to select the SETUP icon.
- Press the ► button and then use ▲/▼ button to select Menu Language menu.
- Press the ► button and then use ▲/▼ button to select your desired language: From this point on, the on-screen menus will be shown in the selected language.
- Press EXIT button to return to monitor viewing or press MENU button to return to the previous menu.



## On Screen Menus Selection and Adjustment

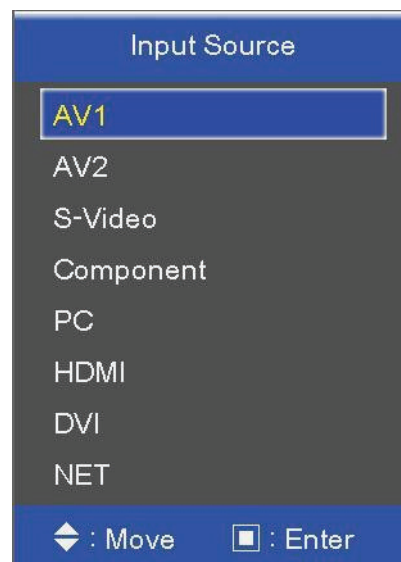
- Press the MENU button and then ▲/▼ button to select each menu.
- 2. Press the ► button and then use ▲/▼ and/or ◀/▶ button to display the available menus.



Your monitor's OSD (On Screen Display) may differ slightly from what is shown in this manual.

## Video Input

Press the SOURCE button and then ▲/▼ button to select each video source.  
Press the ►/ SELECT button to go to desired video source



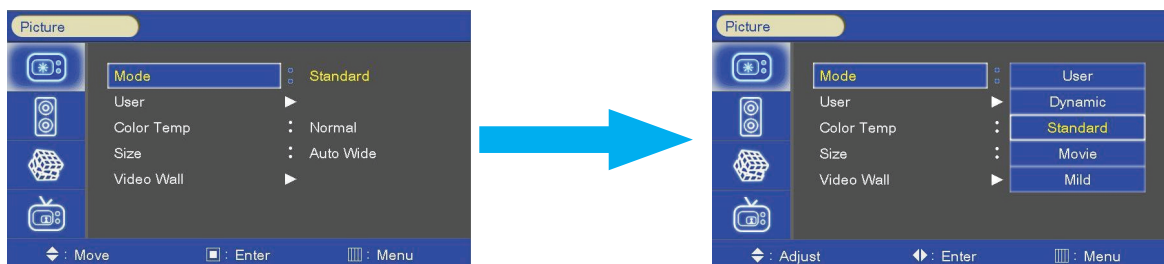
## Picture Mode

Select the picture appearance to suit your preference and viewing situations.

Press the MENU button and then ▲/▼ button to select the PICTURE icon.  
Press the ► button and then use ▲/▼ button to select the desired picture option.

- User, Dynamic, Standard, Movie, Mild

Press EXIT button to return to monitor viewing or press MENU button to return to the previous menu.



## User Control

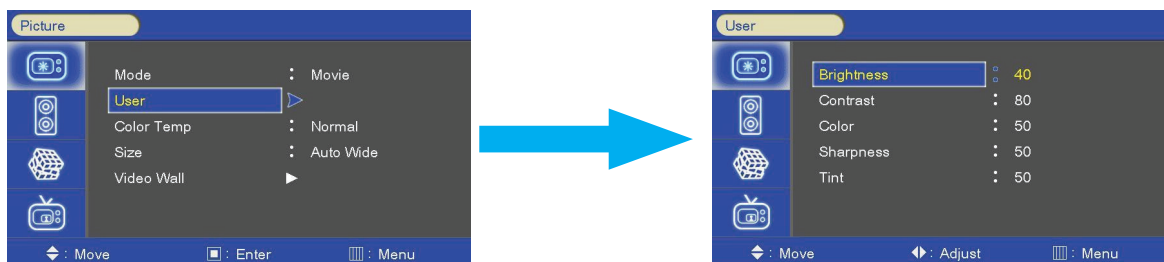
Adjust the picture appearance to suit your preference and viewing situations.

Press the MENU button and then ▲/▼ button to select the PICTURE icon.  
Press the ► button and then use ▲/▼ button to select the desired picture option.

- Contrast, Brightness, Color, Sharpness (All Sources), Phase(Component), Tint(Video)

Press ► button and then use ◀/ ▶ button to make appropriate adjustments.

Press EXIT button to return to monitor viewing or press MENU button to return to the previous menu.



## Color Temperature Control

Choose one of five automatic color adjustments. Set to warm to enhance hotter colors such as red, or set to cool to see less intense colors with more blue.

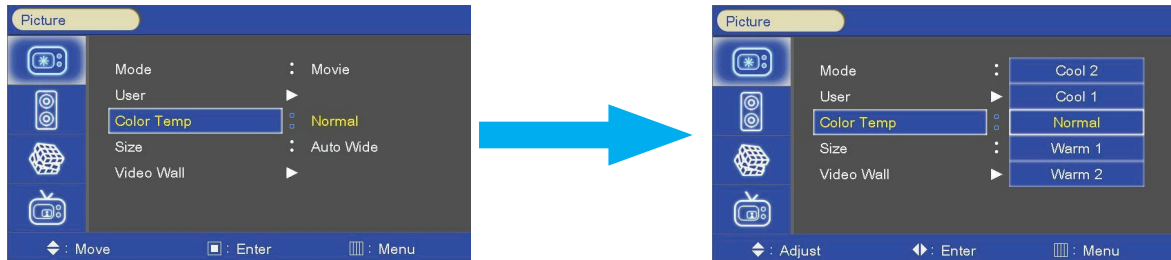
Press the MENU button and then use ▲/▼ button to select the PICTURE icon.

Press the ► button and then use ▲/▼ button to select Color Temperature menu.

Press the ► button and then use ▲/▼ button to select desired option:

- Cool2, Cool1, Normal, Warm1, Warm2

Press EXIT button to return to monitor viewing or press MENU button to return to the previous menu.



## Aspect Ratio

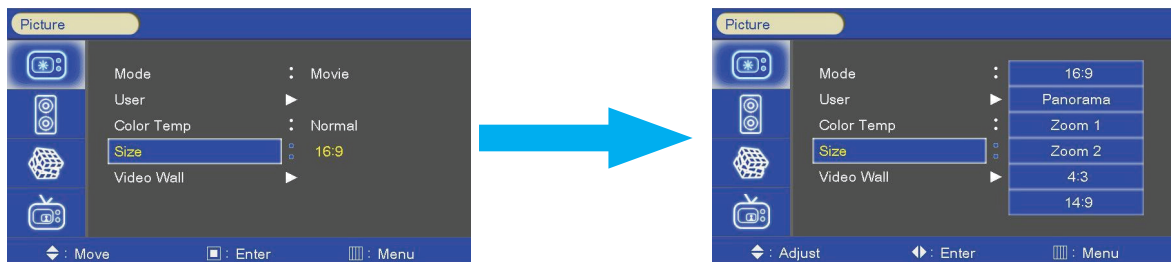
Selects the screen format

Press the MENU button and then use ▲/▼ button to select the PICTURE icon.

Press the ► button and then use ▲/▼ button to select Aspect Ratio menu.

Press the ► button and then use ▲/▼ button to select desired option.

Press EXIT button to return to monitor viewing or press MENU button to return to the previous menu.



## Video Wall

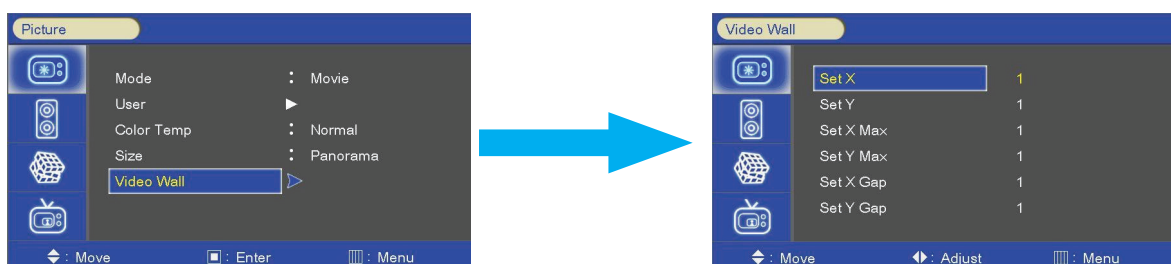
For quick reset of all the Video menu options to their original factory preset values.

Press the MENU button and then use ▲/▼ button to select the PICTURE icon.

Press the ► button and then use ▲/▼ button to select Video Wall menu.

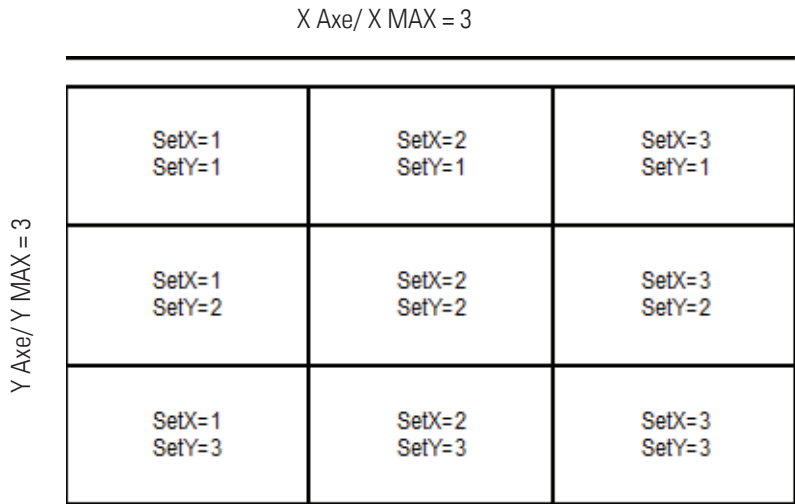
Press ◀/▶ button to make appropriate adjustments.

Press EXIT button to return to monitor viewing or press MENU button to return to the previous menu.



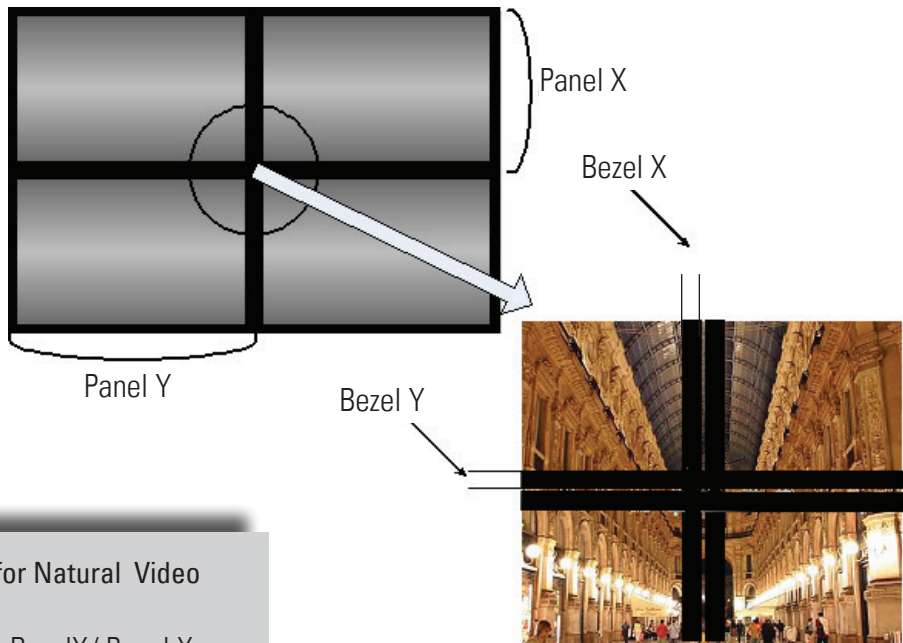
Video Wall Layout Settings

X Max: Maximum number of column tiles to divide video image.  
Y Max: Maximum number of row tiles to divide video image.  
Set X: Coordinate of video image's column position.  
Set Y: Coordinate of video image's row position.



Setting the Bezel Corrections for Natural Tiled Image

X Gap: Proportional Value of Vertical Bezel to Panel size by Per-mil unit.  
Y Gap: Proportional Value of Horizontal Bezel to Panel size by Per-mil unit.



Bezel Corrections for Natural Video Wall Settings  
 $X\text{ Gap (\%)} = 1000 \times \text{BezelX} / \text{Panel X}$   
 $Y\text{ Gap (\%)} = 1000 \times \text{Bezel Y} / \text{Panel Y}$



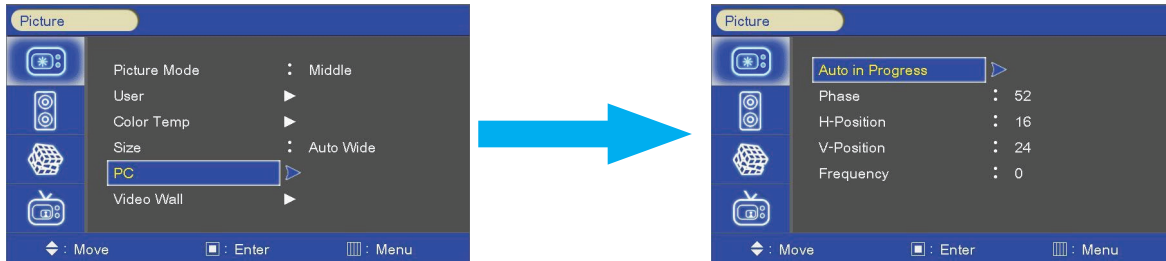
## PC Menü

Press the MENU button and then use ▲/▼ button to select the PICTURE icon.

Press the ► button and then use ▲/▼ button to select PC Menu.

Press ► button and then use ◀/▶ button to make appropriate adjustments.

Press EXIT button to return to monitor viewing or press MENU button to return to the previous menu.



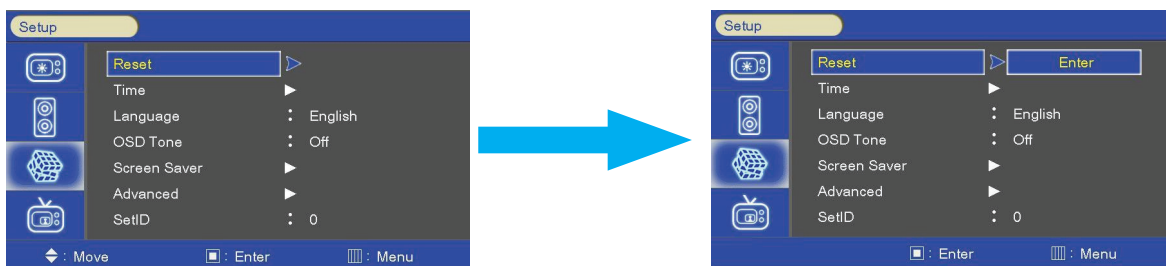
## Reset

Resets user setting values as default

Press the MENU button and then use ▲/▼ button to select the SETUP icon.

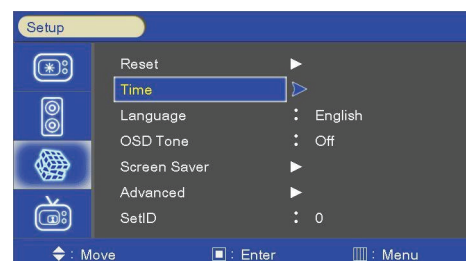
Press the ► button and then use ▲/▼ button to select the Reset menu.

Press the ► or SELECT button and then monitor's user settings are reset as default.



## Time Settings

Enable the user to set up the clock information.



## Clock

If current time setting is wrong, reset the clock manually.

Press the MENU button and then use ▲/▼ button to select the SETUP icon.

Press the ► button and then use ▲/▼ button to select Time.

Press the ► button and then use ▲/▼ button to select Clock.

Press the ► button and then use ◀/▶ button to select the Hour, Minute.

Use ▲/▼ button to adjust clock.

Press EXIT button to return to monitor viewing or press MENU button to return to the previous menu.



## On Timer

Timer function operates only if current time has been set.

Press the MENU button and then use ▲/▼ button to select the SETUP icon.

Press the ► button and then use ▲/▼ button to select Time.

Press the ► button and then use ▲/▼ button to select On Timer.

Press the ► button and then use ◀/▶ button to select the Hour, Minute, Activation.

Use ▲/▼ button to adjust on time schedule and activation

Press EXIT button to return to monitor viewing or press MENU button to return to the previous menu.



## Off Timer

Timer function operates only if current time has been set.

Press the MENU button and then use ▲/▼ button to select the SETUP icon.

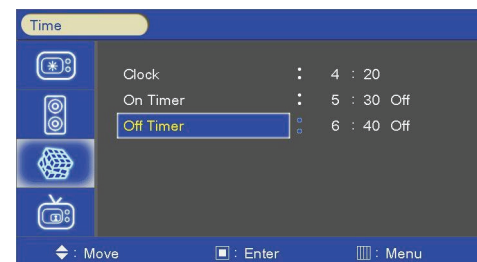
Press the ► button and then use ▲/▼ button to select Time.

Press the ► button and then use ▲/▼ button to select Off Timer.

Press the ► button and then use ◀/▶ button to select the Hour, Minute, Activation.

Use ▲/▼ button to adjust off time schedule and activation.

Press EXIT button to return to monitor viewing or press MENU button to return to the previous menu.



## OSD Tone Control

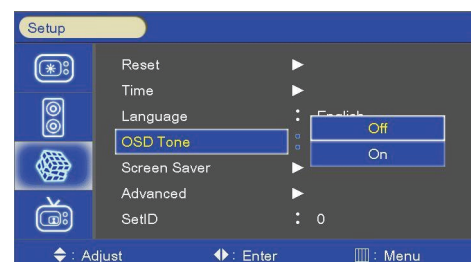
Disable blending OSD background with video image

Press the MENU button and then use ▲/▼ button to select the SETUP icon.

Press the ► button and then use ▲/▼ button to select the OSD Tone menu.

Press the ► button and then use ▲/▼ button to select the desired option: Off, On.

Press EXIT button to return to monitor viewing or press MENU button to return to the previous menu.

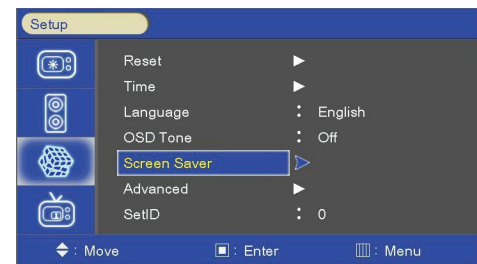


## Screen Saver

Enables screen saver functions to avoid panel burning

Press the MENU button and then use ▲/▼ button to select the SETUP icon.  
 Press the ► button and then use ▲/▼ button to select the Screen Saver Menu.  
 Press the ► button and then use ▲/▼ button to select the desired functions.  
 Press the ► button and then use ▲/▼ ▲/▼ button to set Screen Saver options.

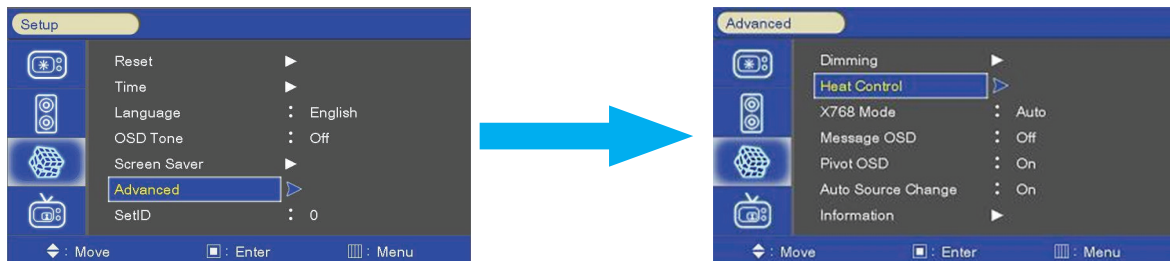
Press EXIT button to return to monitor viewing or press MENU button to return to the previous menu.



## Advanced Menu - Heat Control

Automatic Fan controls by internal/external temperature sensor in Dimming menu

Press the MENU button and then use ▲/▼ button to select the SETUP icon.  
 Press the ► button and then use ▲/▼ button to select the Advanced Menu.  
 Press the ► button and then use ▲/▼ button to select the Heat Control Menu.  
 Press the ► button and then use ▲/▼ ▲/▼ button to set Heat Control options.  
 Press EXIT button to return to monitor viewing or press MENU button to return to the previous menu.



## Heat Control - Hysteresis

Adjusts fan driving hysteresis temperature by Celsius degree

Press the MENU button and then use ▲/▼ button to select the SETUP icon.  
 Press the ► button and then use ▲/▼ button to select the Advanced Menu.  
 Press the ► button and then use ▲/▼ button to select the Heat Control Menu.  
 Press the ► button and then use ▲/▼ button to select the Hysteresis Menu.  
 Use ◀/▶ button to set fan driving hysteresis temperature by Celsius degree unit.  
 Press EXIT button to return to monitor viewing or press MENU button to return to the previous menu.



## Heat Control - Shutdown

Adjusts shutdown mode temperature by Celsius degree. When current temperature reaches the shutdown temp, the monitor enters shutdown mode.

Press the MENU button and then use ▲/▼ button to select the SETUP icon.  
 Press the ► button and then use ▲/▼ button to select the Advanced Menu.  
 Press the ► button and then use ▲/▼ button to select the shutdown Menu.  
 Use ◀/▶ button to set fan driving shutdown temperature by Celsius degree unit.  
 Press EXIT button to return to monitor viewing or press MENU button to return to the previous menu.



## Advanced Menu - X768 Mode

When PC input resolution is x768 series, fix output resolution

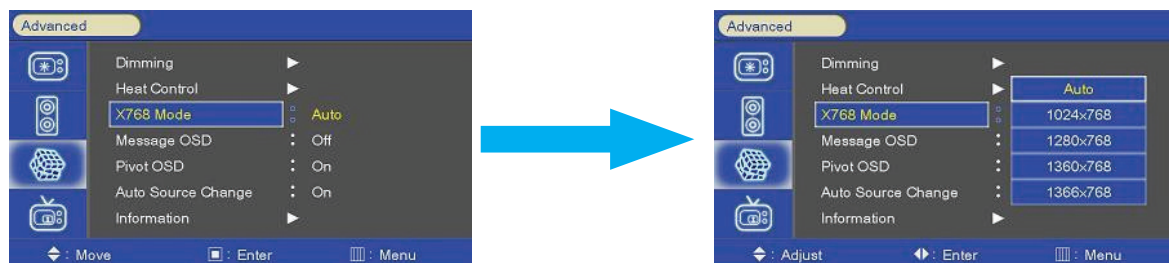
Press the MENU button and then use ▲/▼ button to select the SETUP icon.

Press the ► button and then use ▲/▼ button to select the Advanced Menu.

Press the ► button and then use ▲/▼ button to select the X768 Mode Menu.

Press the ► button and then use ▲/▼ button to set output resolution options.

Press EXIT button to return to monitor viewing or press MENU button to return to the previous menu.



## Advanced Menu - Message OSD

When source change, source OSD display option

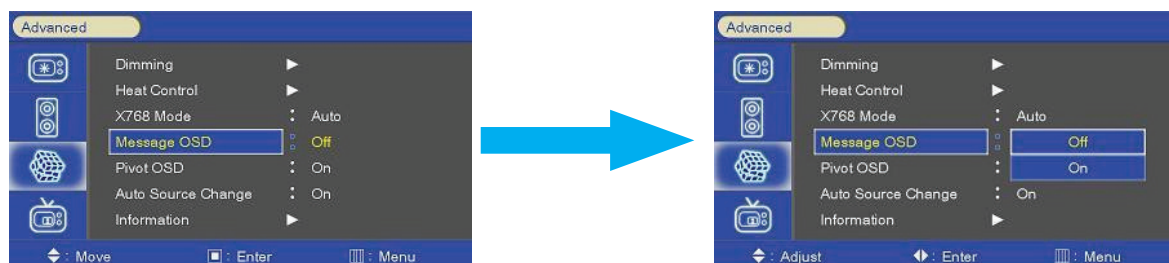
Press the MENU button and then use ▲/▼ button to select the SETUP icon.

Press the ► button and then use ▲/▼ button to select the Advanced Menu.

Press the ► button and then use ▲/▼ button to select the Message OSD Menu.

Press the ► button and then use ▲/▼ button to set Off, On options.

Press EXIT button to return to monitor viewing or press MENU button to return to the previous menu.



## Advanced Menu - Pivot OSD

Control angle of OSD when panel is portrait mode

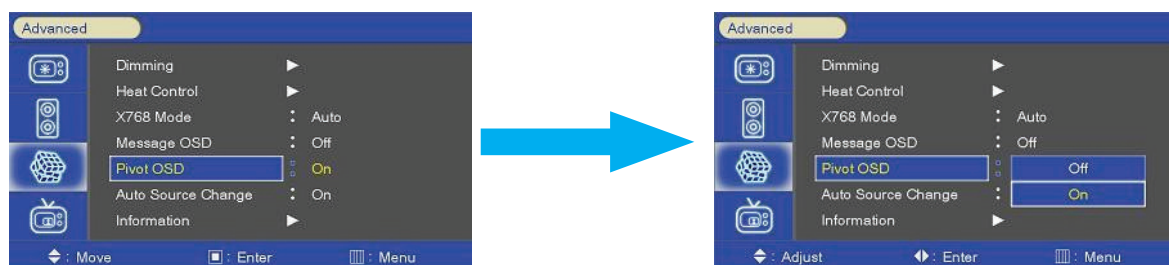
Press the MENU button and then use ▲/▼ button to select the SETUP icon.

Press the ► button and then use ▲/▼ button to select the Advanced Menu.

Press the ► button and then use ▲/▼ button to select the Pivot OSD Menu.

Press the ► button and then use ▲/▼ button to set Off, On options.

Press EXIT button to return to monitor viewing or press MENU button to return to the previous menu.



## Advanced Menu - Auto Source Change

When present mode is no signal(not connect cable), auto detect other source and display

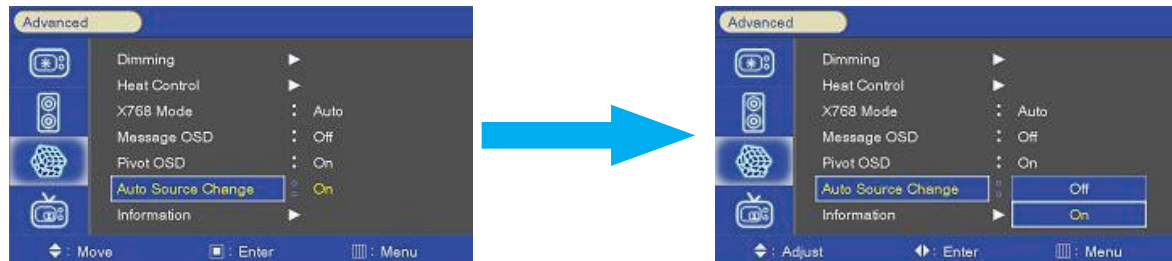
Press the MENU button and then use ▲/▼ button to select the SETUP icon.

Press the ► button and then use ▲/▼ button to select the Advanced Menu.

Press the ► button and then use ▲/▼ button to select the Auto Source Change Menu.

Press the ► button and then use ▲/▼ button to set Off, On options.

Press EXIT button to return to monitor viewing or press MENU button to return to the previous menu.



## Advanced Menu - Information

Show present F/W information

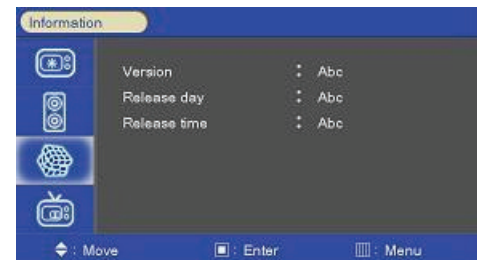
Press the MENU button and then use ▲/▼ button to select the SETUP icon.

Press the ► button and then use ▲/▼ button to select the Advanced Menu.

Press the ► button and then use ▲/▼ button to select the Information Menu.

Press the ► button and then check information.

Press EXIT button to return to monitor viewing or press MENU button to return to the previous menu.



## SET-ID

If use video wall and control each Board, must set ID numbers of each Board(01~99).

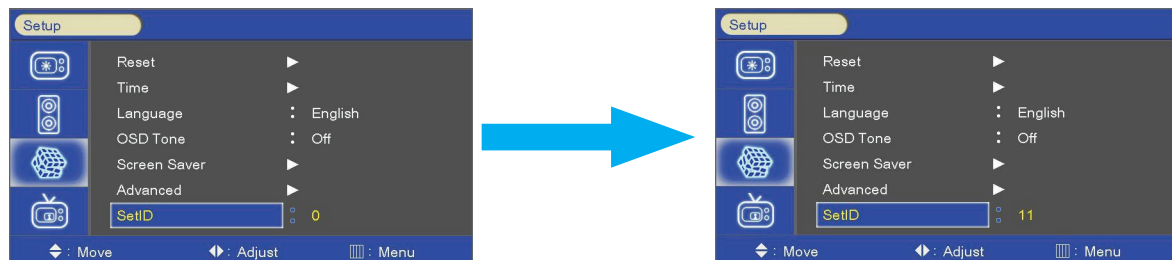
Press the MENU button and then use ▲/▼ button to select the SETUP icon.

Press the ► button and then use ▲/▼ button to select the Advanced Menu.

Press the ► button and then use ▲/▼ button to select the SetID Menu.

Press the ► button and then use ◀/▶ button to SetID numbers.

Press EXIT button to return to monitor viewing or press MENU button to return to the previous menu.



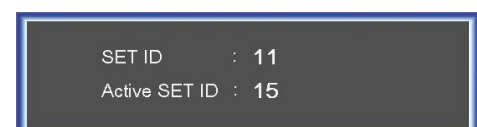
## SET-ID and Active SET-ID

Set Active SET ID number Before Control each Board by Remote control or RS-232.

If control only 15th Board, Active SET ID must set 15.

Press the BLUE button and then use 0~9 button to select the Active SET ID.

If Press the RED button, delete ID number.



## PIP - Picture in Picture

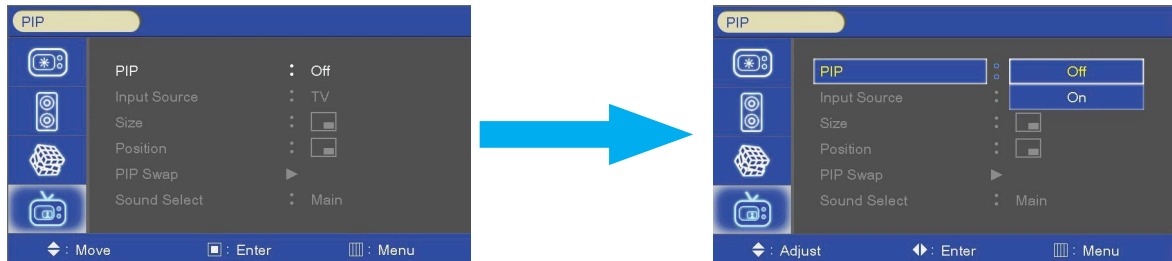
Watch two programs or source at the same time. And set up PIP size and position.

### PIP On/ Off

Press the MENU button and then ▲/▼ button to select the PIP icon.

Press the ► button and then use ▲/▼ button to select the desired PIP option: On, Off.

Press EXIT button to return to monitor viewing or press MENU button to return to the previous menu.



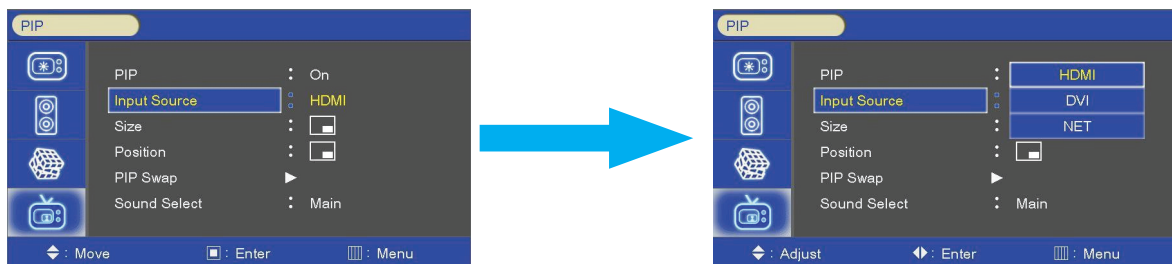
### PIP - Input Source

Press the MENU button and then use ▲/▼ button to select the PIP icon.

Press the ► button and then use ▲/▼ button to select the Input Source Menu.

Press the ► button and then use ▲/▼ button to select the desired Input Source option.

Press EXIT button to return to monitor viewing or press MENU button to return to the previous menu.



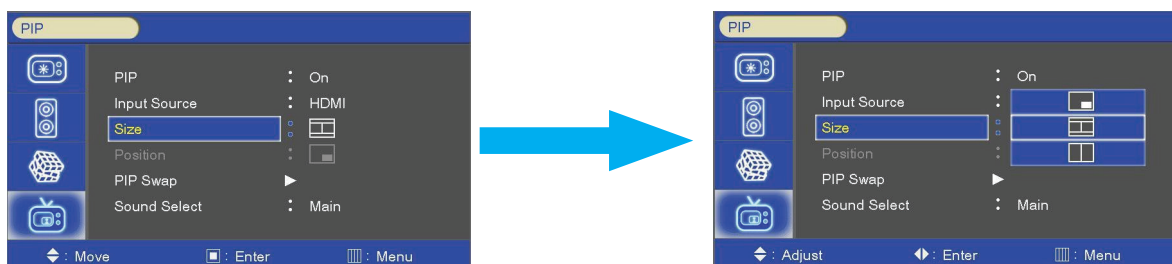
### PIP - Size

Press the MENU button and then use ▲/▼ button to select the PIP icon.

Press the ► button and then use ▲/▼ button to select the Size Menu.

Press the ► button and then use ▲/▼ button to select the desired Size option.

Press EXIT button to return to monitor viewing or press MENU button to return to the previous menu.





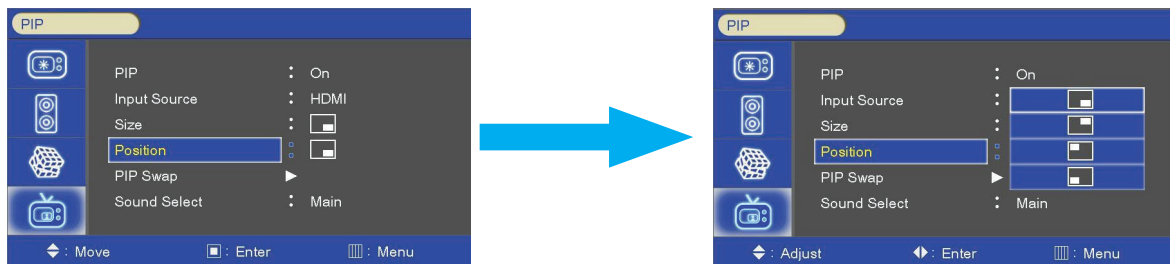
### PIP - Position

Press the MENU button and then use ▲/▼ button to select the PIP icon.

Press the ► button and then use ▲/▼ button to select the Position Menu.

Press the ► button and then use ▲/▼ button to select the desired Position option.

Press EXIT button to return to monitor viewing or press MENU button to return to the previous menu.



### PIP - Swap

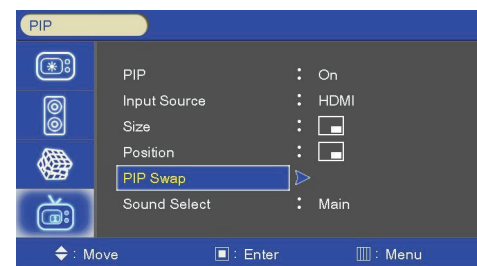
Using Swap option, you can exchange two programs or source at the same time.

Press the MENU button and then use ▲/▼ button to select the PIP icon.

Press the ► button and then use ▲/▼ button to select the pip Swap Menu.

Press the ► button to select the PIP Swap option.

Press EXIT button to return to monitor viewing or press MENU button to return to the previous menu.



### PIP - Sound Select

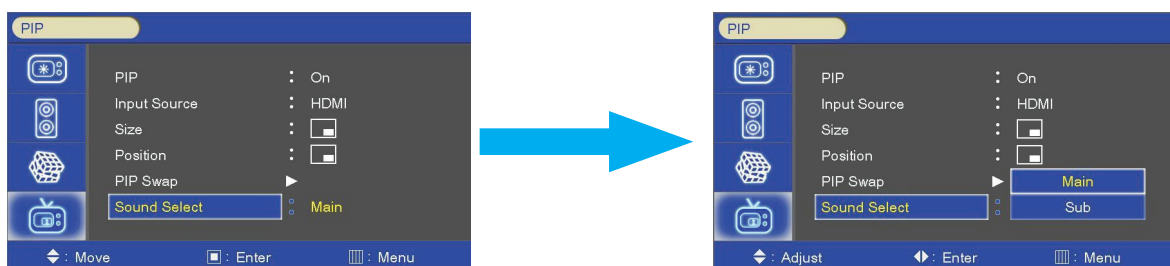
Using Sound Swap option, you can exchange the sound of two programs or source at the same time.

Press the MENU button and then use ▲/▼ button to select the PIP icon.

Press the ► button and then use ▲/▼ button to select the Sound Swap Menu.

Press the ► button and then use ▲/▼ button to select the desired Sound Swap option.

Press EXIT button to return to monitor viewing or press MENU button to return to the previous menu.



## 6. Maintenance

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Systems with active cooling require cleaning of ventilation slots every 6 months. Systems with passive cooling must be cleaned every 12 months.

## 7. Guarantee / Service

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### Guarantee

Data Display Group grants a manufacturer's guarantee of two years from the date of delivery.

The performance of guarantee claims shall cause neither an extension nor a restart of the guarantee period.

During the guarantee period, Data Display Group shall correct product faults based on material or production defects. The guarantee service is executed at Data Display Group's discretion through repair, replacement of defective parts or by exchanging a product for a product of equal quality without charging the customer for material or labor.

Guarantee claims are only accepted, if Data Display Group receives notification of a defective product within the guarantee period and the product is presented to the Data Display Group Service Centre together with all information as specified in the RMA process.

### Guarantee Exclusions and Limitations

This guarantee does not apply to any defect for which Data Display group is not responsible and which include but are not limited to the following:

- Unauthorized opening or disassembling of the product
- Faulty maintenance by non-observation of maintenance instructions
- Inappropriate storage or cleaning of the product
- Unauthorized modification of the product
- Incorrect use or misuse
- Non-observation of operating and installation instructions
- Permanent display of fixed images (causing image retention or image sticking)
- Operating the product in conditions which exceed the limitations of the specification
- Use of inappropriate boxes, packaging or modes of shipment
- Force majeure like fire, acts of war, acts of violence, chemical or biological impacts, lightning strikes, over voltage or similar events
- Fault resulting from the use of software which was not originally supplied with the product or which is incorrectly installed
- Normal wear and tear and wearing parts (i.e. LCD panel)

Mechanical damage like scratches, pressure or break points are excluded from this guarantee.

This guarantee does not include accessory parts which are not integral part of the product like boxes, batteries).

Pixel errors only constitute a fault under the terms of this guarantee if they deviate from the product specification (i.e. ISO 9241-307 pixel failure class II).



## Display Quality - Prevention of after image burn in effects

After image burn-in means that an image or part of an image (i.e. logo) remains visible on the screen even if the image on the screen is changed. This should not occur if the LCD panel is operated in normal conditions with changing content. To prevent burn-in effects please follow the following guidelines.

- Don't display fixed patterns for an extended time period of more than 12 hours.
- Power-off the monitor for 4 hours after using it for 20 hours, and for 2 hours after using it for 12 hours.
- Use the power scheme and power management of the PC.
- Use plain-colored screen savers.
- Avoid patterns with a strong difference in brightness and contrast.
- Avoid gray colors.
- Change images and logos regularly. Show animated pictures for 60 seconds after 4 hours of operation.
- The best way to protect your display is to switch the monitor off when not in use or to use screen savers.

Non-observance of these guidelines may have effects on warranty.

## Guarantee Processing

Group RMA process. In order to avoid unnecessary charges, it is important to adhere to the RMA regulations.

Products must be packed appropriate and professional for a safe return to the Data Display Group Service Centre. Products with panel sizes equal or larger 81 cm (32") must be shipped on pallets in upright position.

Data Display Group does not assume liability for any customer data stored on products which are returned to Data Display Group.

## Limitations of Liability and Benefits

With this guarantee declaration, Data Display Group exclusively guarantees that the product is free of material and manufacturing faults.

Data Display Group does not issue any other guarantee or similar statements other than this declaration.

This guarantee does not impair or affect a buyer's statutory claims against the seller due to material damage. Such claims can be asserted instead of guarantees agreed to here at the buyer's discretion.

Mandatory legal rights and mandatory claims under the German Product liability remain unaffected.

## Applicable Law and Place of Jurisdiction

The laws of the Federal Republic of Germany apply.

Place of jurisdiction is Munich.

## Service addresses

### Germany

**Distec GmbH**  
Augsburger Str. 2b  
D-82110 Germering  
☎ +49 (0)89 / 89 43 63 0  
✉ support@distec.de

### Great Britain

**Display Technology Ltd.**  
5 The Oaks Business Village  
Revenge Road, Lordswood  
Chatham, Kent, ME5 8LF  
☎ +44 (0)16 34 / 67 27 55  
✉ info@displaytechnology.co.uk

### USA

**Apollo Corp.**  
87 Raynor Avenue, Unit 1  
Ronkonkoma NY 11779  
☎ +1 (1)631 / 580-4360  
✉ info@apollodisplays.com

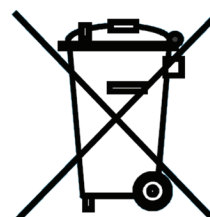
Please go to the following web address for further information about our RMA regulations and RMA forms:

[Http://www.datadisplay-group.com/service](http://www.datadisplay-group.com/service)

## 8. Disposal

### Disposal of old devices

If the acquired Distec product is to be disposed of, must be implemented into national law the Directive "2012/19 / EU".



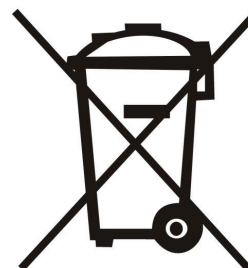
### Disposal of batteries

Applicable in all countries of the EU and in countries with separate battery collection systems.

The Batteries in this product should not be disposed with other household waste. The chemical symbol Pb, CD or Hg indicate that the battery contains lead, cadmium or mercury above the reference level in EC directive 2006/66.

Batteries which are not disposed correctly can cause harm environment and health.

Our environment is close to our hearts. Please help us to protect our environment and recycle empty batteries with the free battery collection system.



## 9. Declaration of Conformity

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# EC Declaration of Conformity

Address: Distec GmbH  
Augsburger Str. 2B  
82110 Germering, Germany

Product: Super Narrow Bezel Lavinia 117 cm (46") / 140 cm (55")

Model: DS-91-235; DS-91-303

The product is in compliance with the requirements of the following European directives:

Main Unit:	
<b>2004/108/EG</b>	Electromagnetic Compatibility (EMC)
<b>2006/95/EG</b>	Low Voltage Directive (LVD)
<b>2011/65/EU</b>	Restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

The compliance with the requirements of the European Directives was proved by the application of the following harmonised standards:

Main Unit	
<b>EMV</b>	EN 55022:2010 +AC:2011 EN 55024:2010 EN 61000-3-2:2006 +A1:2009 +A2:2009 EN 61000-3-3:2008
<b>NSR</b>	EN 60950-1:2006 +A11:2009 +A1:2010 +AC:2011 +A12:2011
<b>RoHS</b>	EN 50581:2012
<b>Year of CE marking</b>	2013

The object of the declaration described above is in conformity with Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Germering, 20.04.2014

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Werner Schubert, Managing Director

### FCC-Declaration of conformity

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance

with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

### Canadian Department of Communications Compliance Statement

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Observation des normes-Class A - Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

### FCC Information:

- Changes or modifications not expressly approved by Distec GmbH could void the user's authority to operate the equipment.
- Use the attached specified cables with the POS-Line monitor so as not to interfere with radio and television reception.
- Please use the supplied power cord or equivalent to ensure FCC compliance.
- Please use the supplied shielded video signal cable, Mini D-SUB 15 pin to Mini D-SUB.