NEOVIEW AL181

USER MANUAL

18.1 TFT LCD MONITOR

ANALOG / DIGITAL
[FOR EXPORT]

LCD PC No.1 Company

ATEC SYSTEM

#1451-78, Seocho-Dong, Seocho-Gu,Seoul,
137-867, Korea
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http:// www.atech.co.kr

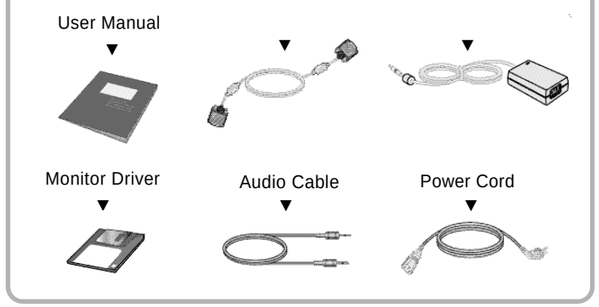
Rev 2.0

ATEC SYSTEM

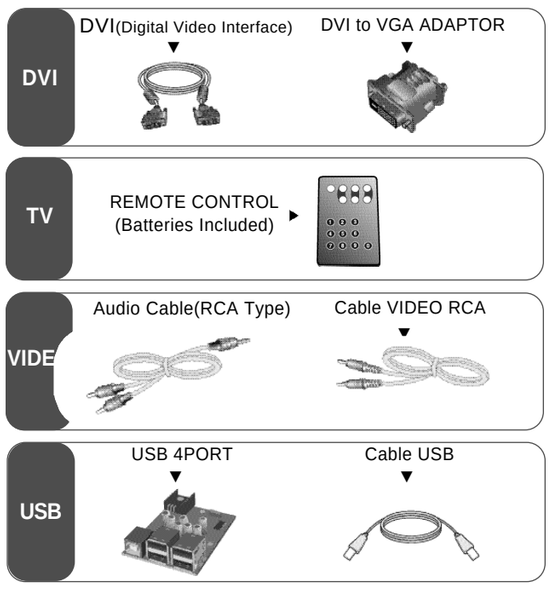
Accessories

After openning the box, Please check to ensure that following accessories are provided with the monitor

Foundation



Option



If you select DVI for your choice, we do not provide VGA Signal Cable but only DVI Cable.

The actual monitor and accessories may appear differently from those shown on the above figure

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions : (1) this device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation.

INFORMATION TO THE USER

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide resonable protection against harmful interference in a residential installation.
This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If turning the equipment off and on, the user id encouraged to try to correct the interference by one more of the following measures :

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment an receiver.
- Connect the equipment into an outlet in a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

WARNING

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

CE Conformity Notice

The Product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC and carries the "CE" mark accordingly.

Confirms to the following harmonized European standards have been applied:

EMC : EN 55022 Class B: 1998
EN 55024: 1998 (EN 61000-4-2: 1995, A1: 1998, EN 61000-4-3:1996,
EN 61000-4-4: 1995, EN 61000-4-5: 1995, EN 61000-4-6: 1996,
EN 61000-4-8: 1993 and EN 61000-4-11: 1994)
EN 61000-3-2: 1995, A1: 98, A2: 98
EN 61000-3-3: 1995

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In case the connection is made by VGA Signal

In case the connection is made by S-VIDEO

In case the connection is made by COMPOSITE and S-VIDEO

In case the connection is made by TV (Tuner)

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Please keep the user manual in a place where product users can refer to it.

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Features

18.1 TFT LCD Panel Adopted

- Adopted the 18.1 LCD (Liquid Crystal Display) Panel which allows you efficient use in a small space due to the slim design.

DVI

- As for most of LCD Monitors released, we support only ANALOG input, but DVI in accordance with the user's option as the video card for it has been widely used. You can get clearer pictures in DIGITAL input than in ANALOG input.

AUDIO

- It gives user an amplified stereo sound through internally installed speakers(2W).

DESIGN

- It is outstanding that Atec system has strategically planned and laid out a beautiful design that meets the taste of the new generation, super-slim model.
- Swivelling at 120 °to the right and the left, Tilting at 30 °to the up and down.

Handle for Conveyance

- We do have made a handle for the easy transport carriage of monitor.

Power Consumption Economy Function

- The VESA DPMS (Display Power Management Signaling) function is available to reduce power consumption by automatically switching the computer into the power saving mode if the system doesn't operate for a fixed period of time.

OPTION

- USB 4Port can be embedded to use the USB without an external Hub.
- RCA and S-VHS terminal is supplied, connecting this apparatus to DVD, VCR or CAMCORDER.
- You may view TV programs after connecting with an antenna or a cable TV.

Installing Monitor Driver

Manual installation method in Display Properties of Win 98 or Win 98SE

1. Insert a Diskette to A: Drive.
2. As clicking on My Computer in windows screen, follow the directions below.

① Click orf Control Panel '

② Click orf Display '

③ Click orf Settings '

④ Click orf Advanced '

⑤ Click orf Monitor ', then' Change '

⑥ Click orf Next '

⑦ Click‘ Display a list of all the drivers in a specific location, so you can select the driver you want ’

⑧ Click on ‘ Have Disk ’

Reference

If it doesn't show up the relevant model in device selection screen, click on "List all Device", then select one of them. Click on "OK"

⑨ Click orf OK ’

⑩ Select‘ ATEC NEOVIEW AL181 ’, then click orf Next ’

⑪ Click orf Next ’

⑫ Click orf Finish ’

3. If the model name of monitor has been changed, click orf Close ’to restart Windows.

Installing Monitor Driver

Windows 2000 Monitor Driver Installation

The followings are the way to install monitor driver in Windows 2000 Manual Installation in Display Properties.

❶ Press "Start", click "Settings" and "Control Panel".

❷ Click "Display" in "Control Panel".

❸ Click "Settings", then "Advanced".

❹ Select "Monitor", then "Properties".

❺ Choose "Driver", then "Update Driver...".

❻ Click "Next".

❼ Click "Display a list of all the drivers in a specific location, so you can select the driver you want". Then Click on "Next".

❽ Click on "Have Disk".

❾ Pointing to where the diskette or drive is located, then click on "OK".

EX1] Insert a diskette to A drive bay, then press "Enter".

EX2] Pointing to where the driver is located: hard disk or network. Then press "Enter".

EX3] If you can't correctly designate the driver route, then click "Search" to find out the right one.

❿ Select the customer's model in "Model Selection" screen. Then press " Next".

错 Click on "Next".

閣 Press "Yes".

關 If "Driver installation has been successfully completed" is popped up, press "Finish".

關 Click "Close", then press "OK" to close the display screen.

Installing Monitor Driver

Configuring Monitor in Linux

It is the direction for installing monitor in Linux.

❶ You'd make xf86config file to run X-WINDOW. Your monitor is surely and easily configured with this file. This file will be made as running xf86config.

❷ Press Enter in the first and second screen after running xf86config file.

❸ In third screen, we come up with the mouse setting screen.

❹ Configure it as opt for user system.

❺ Next will be the screen for selecting KeyBoard.

❻ Configure it as opt for user system.

❼ First, configure a horizontal frequency. Please refer to the horizontal frequency in monitor manual. (User may directly input frequency.)

❽ Next, configure a vertical frequency. Please refer to the vertical frequency in monitor manual. (User may directly input frequency.)

❾ Then, configure a monitor.

❿ Type in the model name of monitor. The monitor's identification and description (typed in here) aren't directly related with the execution of X-WINDOW.

错 After complete with other hardware settings, run X-WINDOW.

锚 As the configuration has been successfully finished, save a configuration file.

锛 Now run X-WINDOW. Theoretically, it is supposed to be executed. But in some cases, it won't even start. In this case, edit a xf86config file.

Instructions for Safety

▶Matters that demand special attention are divided into ‘ Warning ’ and ‘ Caution ’, and are detailed a follows

Warning

In case of the possibility that a serious injury or death may occur during a violation of the instructions.

Caution

In case of the possibility that a slight injury or product damage may occur during a violation of the instructions.

※The sign on the product and userguide instructs as following.

※A sign signifies the need for particular attention in order to avert potential danger under certain conditions.

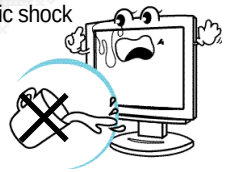
Warning

No one but trained repair engineers may disassemble the monitor. Please contact the appropriate sales agency or customer counsel window for check-ups, adjustment and repair.

A fire or electric shock accident may be caused.

Please note not to allow liquids such as chemicals, water etc to contact the monitor.

A fire or electric shock accident may be caused.

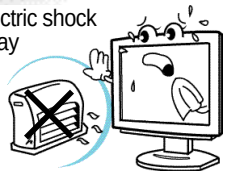


Don ̀t place or drop metals (such as coins, hair pins, or ironware) or flammable items (such as paper, or matches) onto the monitor.

A fire or electric shock accident may be caused.

Don ̀t place the monitor near to heat sources (such as a fireplace), and keep out of the sun.

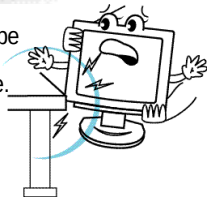
A fire or electric shock accident may be caused.



Warning

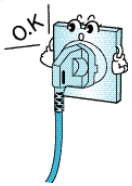
Please be careful to keep the panel from being scratched or damaged when you transport the monitor.

The panel may be damaged, causing a failure.



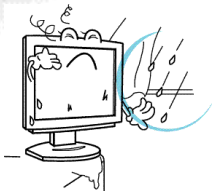
Please insert the two pins of the **plug completely so that the power supply unit can be connected tightly.**

Unsafe power connections may cause a fire.



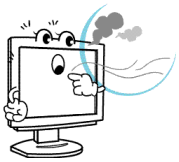
Don't set up the equipment in a humid environment (such as bathroom, rainy or windy area, etc).

Accidents of electric shock, fire or failure may occur.



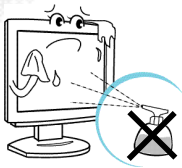
Please stop using in case of smoke or abnormal odors. Immediately switch off the power, and pull out the power cord from the wall. Contact the service center.

Continuity of use in such a state may cause a fire or electric shock.



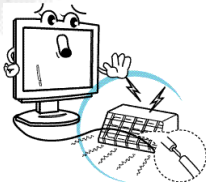
Don't sprinkle water directly on any part of the monitor body.

An electric shock or fire accident may occur.



Please keep the power cord from proximity to a heating instrument.

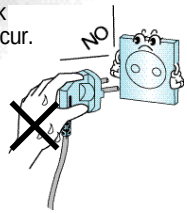
The covering material of the cord may melt, causing a fire or electric shock.



Warning

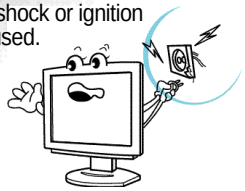
Never touch the power plug with wet hands.

An electric shock accident may occur.



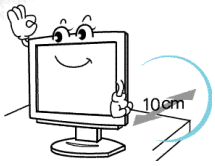
Don't use a power cord or plug that is damaged or has a loose connection.

An electric shock or ignition may be caused.



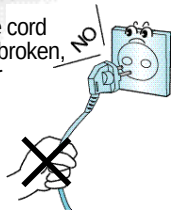
Please set up the monitor at a proper distance (over 10 cm) away from the wall for sufficient ventilation.

A fire may be caused due to an increase in internal temperature.



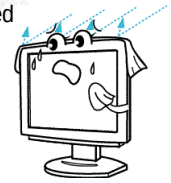
Please grasp the power plug at the base to remove it from the wall, and pull firmly but gently.

If you yank at the cord the wire may be broken, causing ignition or heat generation.



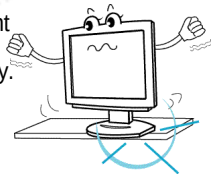
Please note that air-flow holes must not be blocked by a table cloth or curtain.

A fire may becaused due to an increase in internal temperature.



Don't set up the equipment on an unsupported shelf or angled surface. nor on an area subject to serious vibration.

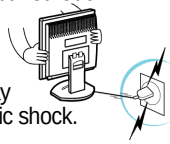
Fall or displacement of the equipment may cause an injury.



Warning

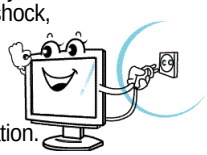
You must switch the power off and pull the power cord out before moving the monitor. You should also check as to whether external connection cords - such as the connection cords between component parts - are all pulled out before the movement.

A damaged cord may cause a fire or electric shock.



Pull the power cord out when the monitor is not used for a long time, or while you are away.

A dust covering may cause an electric shock, electric leakage, or fire by heat generation, ignition, and insulation degradation.



Don't set the monitor in a narrow place with poor ventilation such as a bookcase

A fire may be caused due to an increase in internal temperature.

When you clean the panel surface, pull the power cord out first, and wipe the surface with a clean, dry and soft cloth. Don't use a damp cloth.

Such action may be the main cause of an electric shock accident and failure.

Caution

Don't put pressure upon the panel or score the surface with your hands or sharp items (nails, pencils, pens, etc).

Damage or failure of the panel may be caused.

When you move the monitor, take hold of it with both hands setting the panel forward.

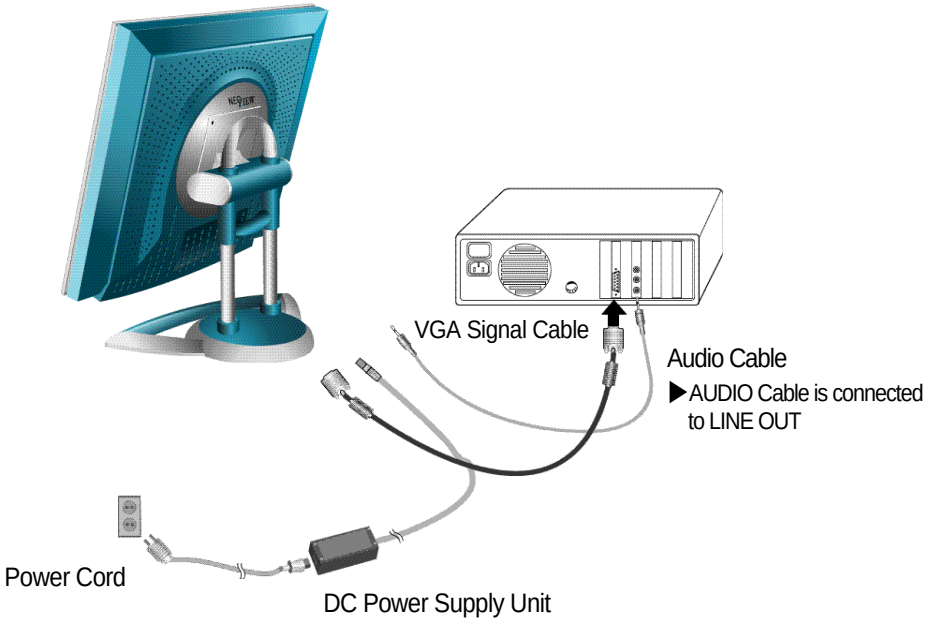
If you drop the monitor, contact the service center to check it for a susceptibility to fire or electric shock.

How do I connect the computer cables?

How do I connect with the IBM computer ?

In case of the monitor aiding ANALOG (VGA)

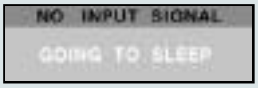
1. Ensure that the computer, monitor and peripheral equipment power is turned off.
2. Connect signal cable to D-Sub signal input connector, and VGA signal cable to signal input connector of monitor.
3. Connect one DC power jack of DC power supply unit to the 12V terminal, and the other to the power cord. Next connect the power cord to the concent.
4. Turn the monitor power on after switching the computer power on.
5. If the message" NO INPUT SIGNAL "shows up, check the connection of VGA signal cable or connector.
6. Switch the monitor and computer power off at the end of use.



▶ Reference

No Input signal message

It is a message appeared in case signal input cable is inexactly connected between monitor and computer. Please refer to the message "Please confirm before you report the trouble" for details.



Connect with the Macintosh computer

Use the appropriate MAC to VGA adapter block at your system.

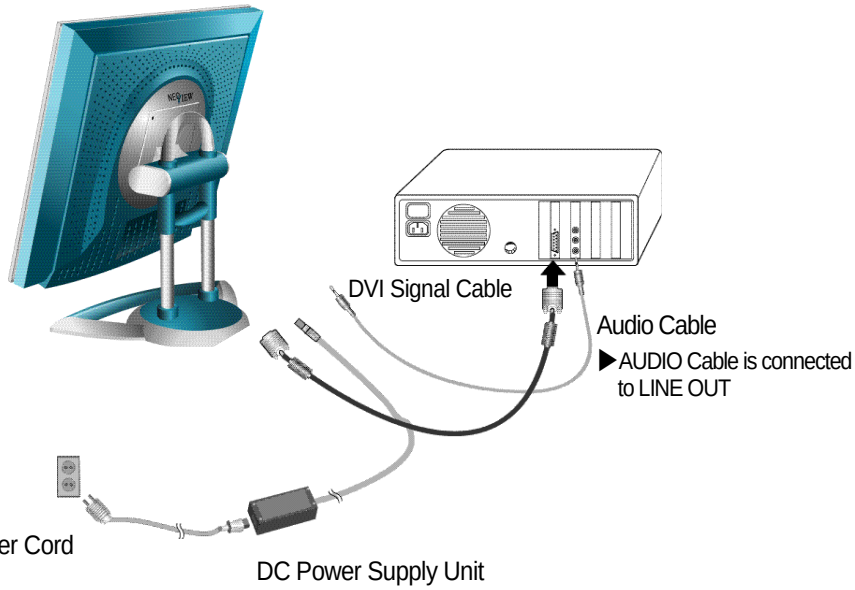
How do I connect the computer cables?

How do I connect with the IBM computer ?

In case of the monitor aiding DIGITAL (DVI)

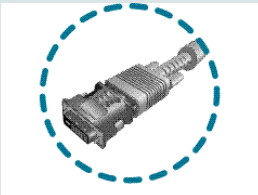
1. Ensure that the computer, monitor and peripheral equipment power is turned off.
2. Connect Signal Cable.
   ① In case of using DIGITAL Cable.
   - Connect one DVI Signal Cable each to the mainframe and monitor.

   ② In case of using ANALOG Cable (Refer to the left side illustration).
   - Connect DVI to VGA adaptor positioned at the rear side of the monitor. Then connect it to the mainframe.
3. Connect one DC power jack of DC power supply unit to the 12V terminal, and the other to the power cord. Next connect the power cord to the concent.
4. Turn the monitor power on after switching the computer power on.
5. If "NO INPUT SIGNAL" appears, check the DVI Cable (or VGA Signal Cable connection).
6. Switch the monitor and computer power off at the end of use.



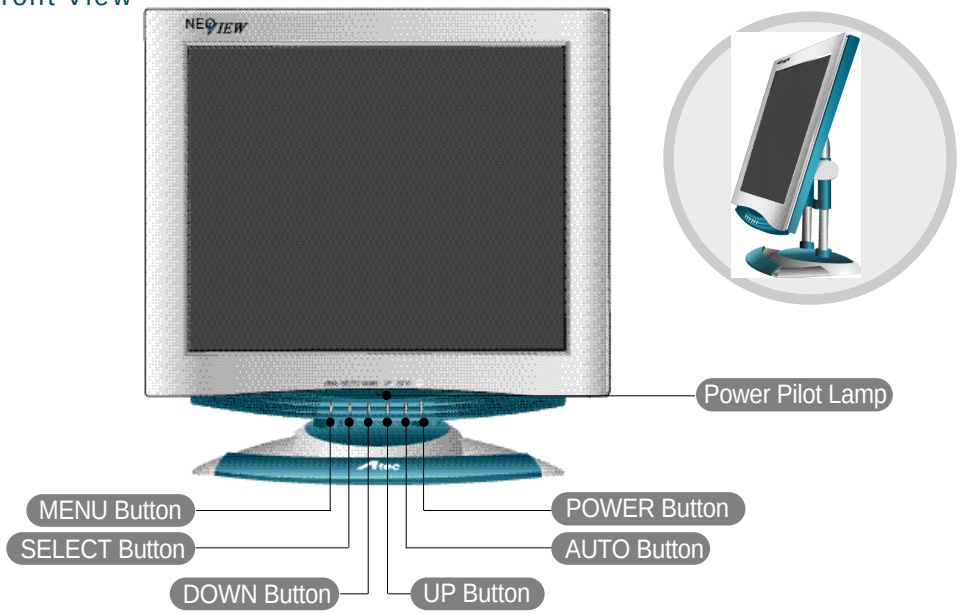
▶ **Reference**

In case of using ANALOG in DVI model monitor, you must set up the adaptor as shown on the illustration.

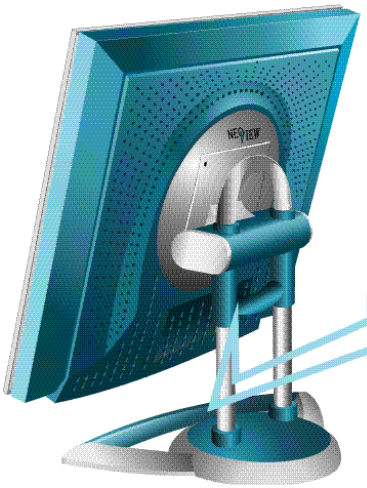


Parts and Functions of ANALOG and MONITOR

Front View

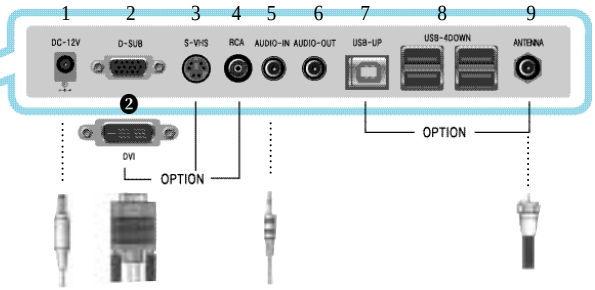


Back View



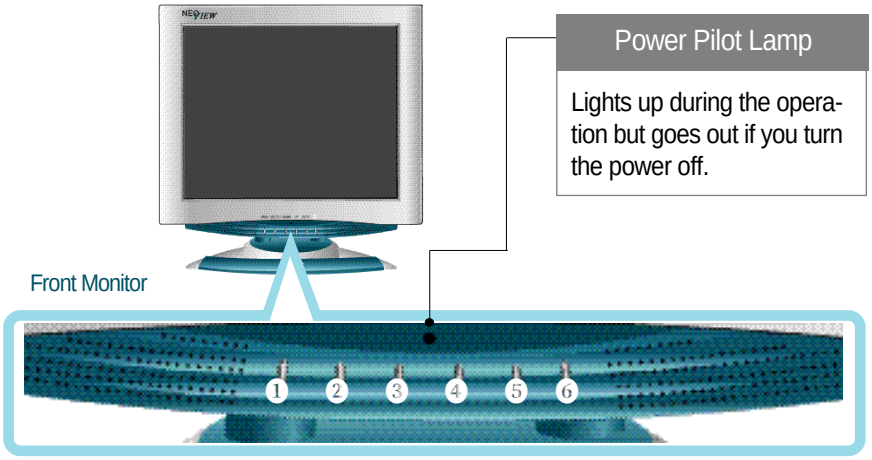
1. DC 12V INPUT (connected to adaptor)
2. VGA(Analog) or DVI(Digital) INPUT [DVI is OPTION]
3. S-VHS INPUT (video image input 2)
4. RCA INPUT (video image input 1)
5. AUDIO IN (connected to LINE OUT of PC's mainframe)
6. AUDIO OUT (linked to external speaker or headset)
7. USB UP (connected to PC's mainframe)
8. USB 4DOWN(connected to USB KeyBoard, Mouse, and Camera)
9. TV ANTENNA (connected to antenna cable for televiewers)

* 2 DVI , 3 , 4, 7, 8, 9 are OPTION.



Parts and Functions of ANALOG and MONITOR

The Name and Function of Each Individual Part in the Screen Adjusting Block



❶ MENU Button

It makes OSD menu picture appear or disappear.
It is also used when you enter into or get out of submenu.

❷ SELECT Button

Used to select an icon to be adjusted from the OSD screen.

❸ DOWN Button ❹ UP Button

It is for shifting OSD screen to up and down or increase and decrease the value of icon selected. (And it also volume up and down without pressing MENU.)

❺ AUTO Button

The screen is automatically adjusted to the optimal display state applicable to the current mode, while the following message appears.

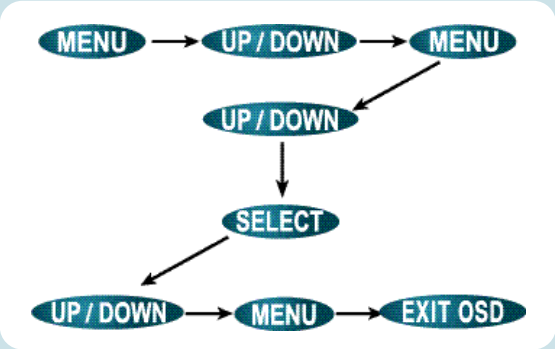
❻ POWER Button

Once pressed, it powers up the system. Once more, it shuts down the system.
- Green ON : system activated
- Amber Blinking : 1. System Standby
  2. Monitor Power Saving Mode
  3. VGA signal cable Unhooked

ANALOG OSD (On Screen Display) Display Selection and Control

Use the OSD adjustable buttons on the side of the monitor to set/adjust to the best screen and operating environment.

If you have to adjust the screen,
please adhere to the following procedure.



❶ **Press MENU Button to show you OSD menu screen.**

❷ **Press DOWN Button to select the preferred main menu, then press MENU Button once more to get in subordinate menu screen.**

❸ **As pressing UP / DOWN Button, you can go to the menu that you prefer. Press SELECT Button.**

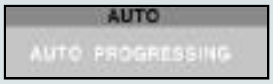
❹ **Set the preferred value as using UP / DOWN Button.**

❺ **Press MENU Button once more, then it reverts to the main menu screen.**

❻ **As using DOWN Button, go back to EXIT OSD.**

AUTO Function

If you select the AUTO button before using the OSD menu, the screen is automatically adjusted to the optimal display state applicable to the current mode, while the following message appears.
If you don't like the auto adjustment, you have to manually adjust the H/V Position, Clock, and Phase of the OSD menus.
AUTO is most appropriate when it is operated on background display color closest to white.

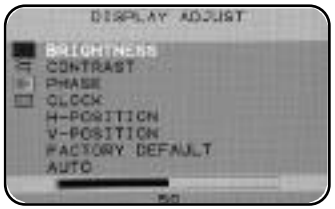


(For more information, please refer to pages 15 - 21)

ANALOG OSD (On Screen Display) Display Selection and Control

Descriptions of OSD Adjustment and Functions

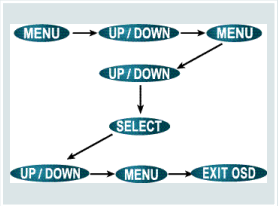
DISPLAY ADJUST



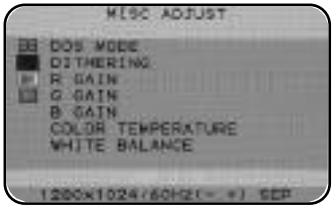
- **BRIGHTNESS**
  - It is used to adjust brightness of the screen.
- **CONTRAST**
  - It is used to adjust distinction.
- **PHASE** - It is used to adjust the phase of the screen. Please use it in case there is noises or lines are overlapped.
- **CLOCK** - Controlling the horizontal size in screen.
- **H- POSITION** - It is used to move screen right-wards or left-wards.
- **V- POSITION** - It is used to move screen up-wards or down-wards.

- **FACTORY DEFAULT (Manufactured Initial Value)**
  - It goes back to the initial value that has been set as forwarding.

- **AUTO (Auto Set)** - It is configured as the most appropriate, optimized screen.



MISC ADJUST

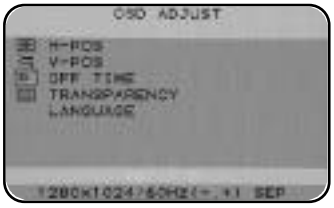


- **DOS MODE** - It is to optimize TEXT and GRAPHIC.
- **R GAIN** - Modify the value of red.
- **G GAIN** - Modify the value of green.
- **B GAIN** - Modify the value of blue.
- **COLOR TEMPERATURE** - configured to one of 9500, 8000, 6500(Default), and 5000.
  - 9500 : selected to blue color hued screen.
  - 5000 : selected to red color hued screen.
- **WHITE BALANCE** - It automatically sets Color Balance.
  (It will be adjusted to optimization after making background screen a white color.)

ANALOG OSD (On Screen Display) Display Selection and Control

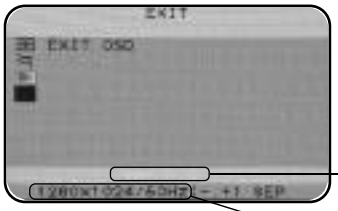
Descriptions of OSD Adjustment and Functions

OSD ADJUST



- **H-POS (OSD horizontal position)**
  - Horizontal position in OSD menu is adjusted as controlling the numerical value of it.
- **V-POS (OSD vertical position)**
  - Vertical position in OSD menu is adjusted as controlling the numerical value of it.
- **OFF TIME (Setting OSD disappearance time)**- OSD menu configures a disappearance time. The maximum time of 100 sec may be set, so that it will automatically vanish unless any input value is noticed within 100 sec. (Default:15 Sec)
- **TRANSPARENCY (OSD Transparency)** - It configures the basic color of OSD menu from opacity to transparency.
- **LANGUAGE** - One of English, Japanese, Korean, German, French and Spanish may be selected.

EXIT

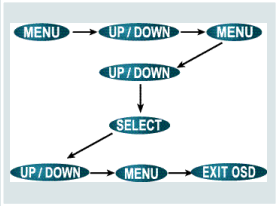


- **EXIT OSD**
  - It goes out of OSD menu.

▶ **Reference**

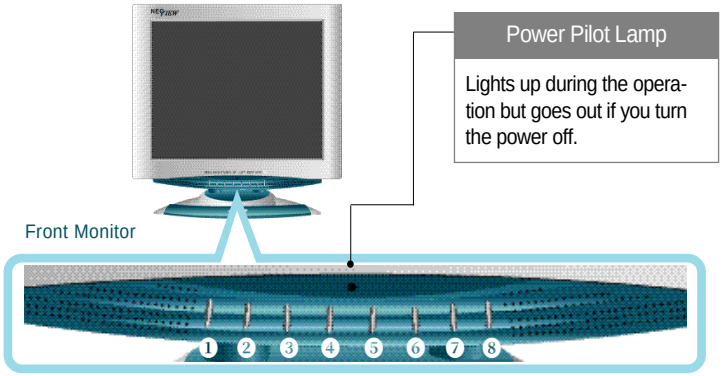
Ver 1.0
- OSD Version

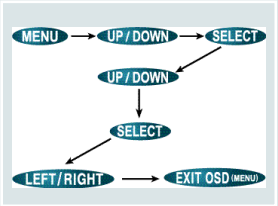
1280X1024 / 60Hz
- resolution, screen scanning rate



DIGITAL OSD (On Screen Display) Display Selection and Control

The Name and Function of Each Individual Part in the Screen Adjusting Block





❶ MENU Button

It makes OSD menu picture appear or disappear.
It is also used when you enter into or get out of submenu.

❷ SELECT Button

Use SELECT button if you wish to change OSD value.
SOURCE will change when you press SELECT button. (If you press once, the present SOURCE will appear. Press once more, the SOURCE will convert.)

❸ DOWN Button ❹ UP Button

Use these buttons when moving up and down in OSD (It is TV channel increase (UP) and decrease (DOWN) function when this button is pressed without pressing MENU button.)

❺ LEFT Button ❻ RIGHT Button

It is used to increase and decrease the SELECTION ICON value in OSD display. (It is the VOLUME increase and decrease function when this button is pressed without pressing MENU button.)

❼ AUTO Button

When you press this button, it is automatically adjusted to the most appropriate condition to present mode. This does not function when DIGITAL VIDEO CARD (DVI Card) is used. (It is adjusted automatically.)

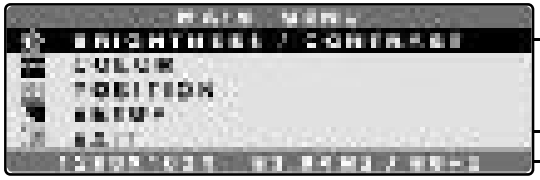
❽ POWER Button

Once pressed, it powers up the system. Once more, it shuts down the system.
- Green ON : system activated
- Amber ON : 1. System Standby
  2. Monitor Power Saving Mode
  3. VGA signal cable Unhooked

DIGITAL OSD (On Screen Display) Display Selection and Control

Descriptions of OSD Adjustment and Functions

OSD Display



❶ When you press the **MENU button** without OSD display, the display shown above will appear.
❷ You can indicate and enter in by **UP/DOWN buttons.**
❸ At this point, you can enter in when you press the menu you have selected and can be controlled by **UP/DOWN buttons.**
At this point, converted contents can be checked by graphs and numbers Indicated numbers, in domain value, can be controlled and they are not the absolute value.

PROCESSING Message

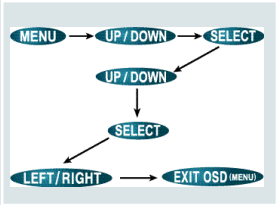
▶ A message during AUTO CONFIGURATION operation.

▶ A message while Power Saver Mode is on the process (converts into Power Saver Mode after 5 seconds).

▶ A message indicating failure of entered signal

▶ A message indicating PROCESSING Status!

- 'PROCESSING AUTO CONFIGURATION' is a message demanding your patience while monitor is searching for the most appropriate background display.
- 'POWER SAVER MODE' is a message indicating the monitor is on the process of entering the Power Saver Mode.
- 'OUT OF FREQUENCE' is a message indicating an input signal is out of boundary, which monitor can handle. This is case which video card output has problems of either not aiding "plug-and-play" or not clearly recognizing the monitor's information, so please check with the Aid Resolution (Page 26).



▶ **Reference**

No need to press AUTO CONFIGURATION button when Digital Video Card is used (it is controlled automatically).

Vertical Frequency can be aided up to 60Hz when SXGA 1280X1024 is used in Digital Monitors (does not aid to 75Hz).

DIGITAL OSD (On Screen Display) Display Selection and Control

Descriptions of OSD Adjustment and Functions

In case the connection is made by VGA Signal

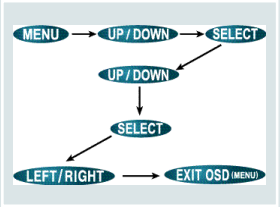
▶ Control the Screen Brightness

▶ Control the Screen's Shade of Color

▶ **PRESET1** : Light Blue Display
PRESET2 : General Display

▶ **RED, GREEN, BLUE**:
Color Chosen by User

▶ **HORIZONTAL** : Display Horizontal Movement
VERTICAL : Display Vertical Movement
CLOCK : Control of the Display Quality by Increasing Display's Size
PHASE : Detailed Control of the Display Quality.



▶ Reference

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Vertical Frequency can be aided up to 60Hz when SXGA 1280X1024 is used in Digital Monitors (does not aid to 75Hz).

DIGITAL OSD (On Screen Display) Display Selection and Control

Descriptions of OSD Adjustment and Functions

In case the connection is made by VGA Signal

▶ **OSD POSITION** : Rotates in this order: top left side, top right side, middle, bottom right side, bottom left side.

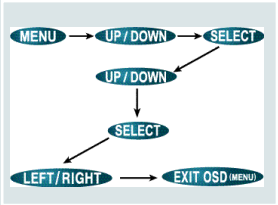
OSD TIME : Waiting period for OSD indication when no control is made during OSD screen display.

SOURCE : Converts any input signal into ANALOG,DIGITAL,COMPOSITE, S-VIDEO and TUNER.

In case the connection is made by COMPOSITE and S-VIDEO

▶ Control Darkness Level of Signal

▶ Control the Screen's Shade of Color



▶ **Reference**

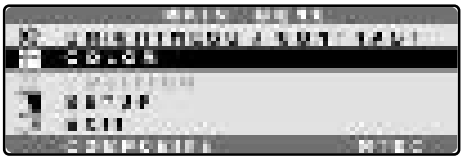
No need to press AUTO CONFIGURATION button when Digital Video Card is used (it is controlled automatically).

Vertical Frequency can be aided up to 60Hz when SXGA 1280X1024 is used in Digital Monitors (does not aid to 75Hz).

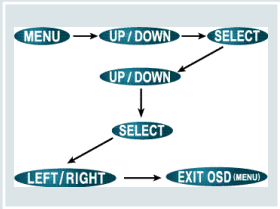
DIGITAL OSD (On Screen Display) Display Selection and Control

Descriptions of OSD Adjustment and Functions

In case the connection is made by COMPOSITE and S-VIDEO



▶ **SHARPNESS :** Control Screen Distinction
COLOR : Control Screen's Depth of Color
TINT : Control Screen's Tint of Color



▶ **OSD POSITION** : Rotates in this order : top left side, top right side, middle, bottom right side, bottom left side.

OSD TIME : Waiting period for OSD indication when no control is made during OSD screen display.

SOURCE : Converts any input signal into ANALOG, DIGITAL, COMPOSITE, S-VIDEO and TUNER.

▶ Reference

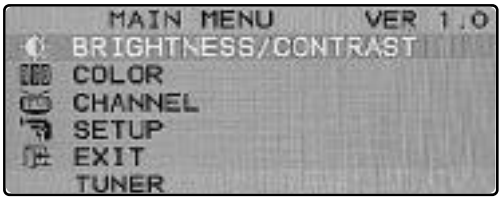
No need to press AUTO CONFIGURATION button when Digital Video Card is used (it is controlled automatically).

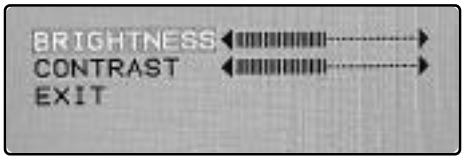
Vertical Frequency can be aided up to 60Hz when SXGA 1280X1024 is used in Digital Monitors (does not aid to 75Hz).

DIGITAL OSD (On Screen Display) Display Selection and Control

Descriptions of OSD Adjustment and Functions

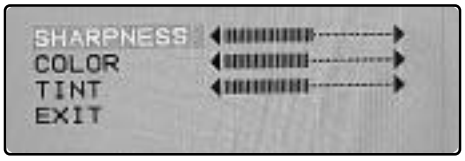
In Case when a Connection is made with TV (Tuner) Signal





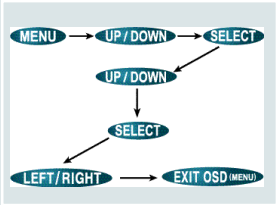
▶ Control the Screen Brightness

▶ Control the Screen's Shade of Color



▶ **PRESET1** : Light Blue Display
PRESET2 : General Display

▶ **RED, GREEN, BLUE**
:Color Chosen by User



▶ Reference

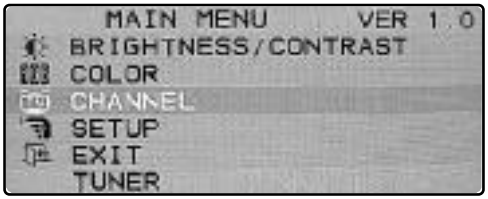
No need to press AUTO CONFIGURATION button when Digital Video Card is used (it is controlled automatically).

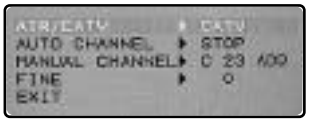
Vertical Frequency can be aided up to 60Hz when SXGA 1280X1024 is used in Digital Monitors (does not aid to 75Hz).

DIGITAL OSD (On Screen Display) Display Selection and Control

Descriptions of OSD Adjustment and Functions

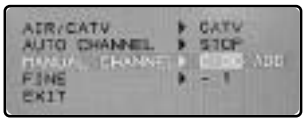
In Case when a Connection is made with TV (Tuner) Signal



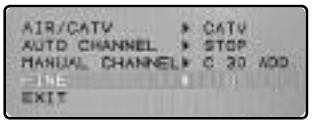


▶ **AIR / CATV** : Air Wave, Cable TV Selection

▶ **AUTO CHANNEL**
: Automatically Selects Clear Channels

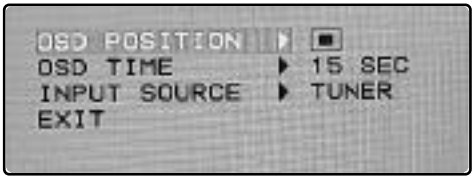


▶ **MANUAL CHANNEL**
: Selects to Insert or Delete on Each Channel



▶ **FINE** : Any Noise Occurred on Display is Handled by a Microscopic Control

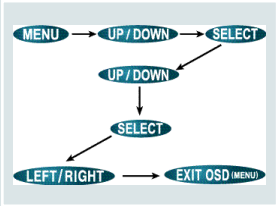
When you have to move MONITOR, use AUTO CHANNEL to select clear channels.



▶**OSD POSITION** : Rotates in this order : top left side, top right side, middle, bottom right side, bottom left side.

OSD TIME : Waiting period for OSD indication when no control is made during OSD screen display.

SOURCE : Converts any input signal into ANALOG, DIGITAL, COMPOSITE, S-VIDEO and TUNER.



▶ Reference

No need to press AUTO CONFIGURATION button when Digital Video Card is used (it is controlled automatically).

Vertical Frequency can be aided up to 60Hz when SXGA 1280X1024 is used in Digital Monitors (does not aid to 75Hz).

DIGITAL OSD (On Screen Display) Display Selection and Control

INFORMATION (Comparison between ANALOG and ADAPTOR)

Pin Arrangement Description

- Input Signal : ANALOG Formula
- Connector : 15 Pin VGA Signal Cable
- 15 Pin D-Sub Connector
- The Purchased Monitor's Signal Cable is positioned on the rear side of Stand

Pin Number	Signal Description
1	Red
2	Green
3	Blue
4	GND
5	Self-Check
6	Red GND
7	Green GND
8	Blue GND
9	Exit
10	GND
11	GND
12	Data Line (SDA)
13	Horizontal Synchronizer
14	Vertical Synchronizer
15	Data Click (SCL)

• 15 Pin D-Sub Connector Pin Description

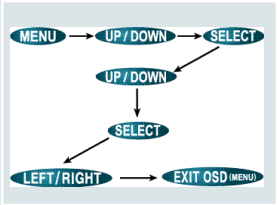
D-Sub

DVI-D

- Input Signal : Digital Formula
- Connector : DVI-D model Cable
- DVI-D Connector

Pin Number	Signal Description
1	TMDS DATA2-
2	TMDS DATA2+
3	TMDS DATA2+/Shield
4	NC
5	NC
6	DDC SCL
7	DDC SDA
8	NC
9	TMDS DATA1-
10	TMDS DATA1+
11	TMDS DATA1/Shield
12	NC
13	NC
14	+5V Power
15	GND(for+5V)
16	Hot Plug Detection
17	TMDS DATA0-
18	TMDS DATA0+
19	TMDS DATA0/Shield
20	NC
21	NC
22	TMDS Clock/Shield
23	TMDS Clock
24	TMDS Clock
Shell	GND

• DVI-D Connector Pin Description



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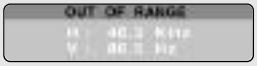
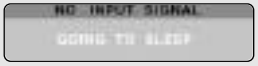
Vertical Frequency can be aided up to 60Hz when SXGA 1280X1024 is used in Digital Monitors (does not aid to 75Hz).

Troubleshooting

Please check the below particulars before you contact the service center to notify an abnormality of the monitor.

This symptom can be discovered	Check these points	Take these respective actions
The screen doesn't show anything.	Is the monitor power cord inserted ?	Please connect the power cord correctly to the concent.
	Is the power turned off ?	Please press the power button.
	Is the power turned on and the power pilot lamp Blinking Amber?	The monitor is in the power saving mode. Please therefore move the mouse, press any key on the keyboard, or recheck VGA Cable connection.
	Is the message" Out Of Range "shown ? 	If a power indicating lamp of amber color blinks, press any key to go back to previous mode. As it passes over the frequency limit of horizon (31.5-80 kHz) and verticality (60-75 Hz) in PC (video card), you'd reconfigure it as referring to the specification of this manual. (If you install the monitor driver that we have provided, it won't come up with the message" OUT OF RANGE ".)
	Is the message" No Input Signal "shown? 	It shows up as PC changes to power-saving mode or the signal cable between PC and monitor isn't rightly connected. Move your mouse or press keyboard button. But it won't still show you a right screen, then recheck a signal cable connection.

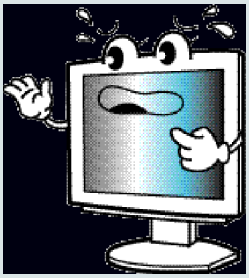
Troubleshooting

Please check the below particulars before you contact the service center to notify an abnormality of the monitor.

Check these points	Take these actions
Has a discoloration (into 16 colors) of the screen occurred?	Set the number of colors to more than 256 colors. On the Windows 95/98, perform the following process [Control Panel] -> [Display] -> [Setting] -> [Color Table] -> [256 Colors] -> [OK]
Do you see a spot on the screen?	You may see a few spots (in red, green, white and black) on the screen during the operation. Occurrence of such a phenomenon is not a failure but a characteristic of the LCD panel, and therefore has no relation to the performance of the monitor.

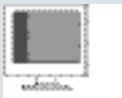
This symptom can be discovered

The color of the screen is not normal



Troubleshooting

Please check the below particulars before you contact the service center to notify an abnormality of the monitor.

This symptom can be discovered	Check these points	Take these actions
The screen is under a bias toward one side, or is not centrally positioned. 	Is the positional adjustment made correctly?	Push the 'AUTO' Button, then the screen will beadjusted automatically in to the optimal state applicable to the current mode. If you are not satisfied with the auto adjustment, you can directly adjust the H Position (Horizontal Position), V Position (Vertical Position), and Clock (Horizontal Size) of the OSD menus.
	Is the phase adjustment made properly?	Push the 'AUTO' Button, then the screen will beadjusted automatically in to the optimal state applicable to the current mode. If you are not satisfied with the auto adjustment, you may manually adjust the Phase (Focus) of the OSD menus.
A faint letter is shown, or the phase is out of focus. Noise is also generated horizontally.	Is the screen set in the best state?	While you are using this product in the mode of 1280X1024 and 60Hz, the best condition of the screen is available. In the mode of VGA(640x480),SVGA (800x600) or XGA (1024x768), the outline of a letter may be seen dimly or unevenly.

Product Specification

The details of product specification can be changed without notice to improve the product.

LCD Panel	panel type screen size pixel size contrast color brightness	a-Si active matrix TFT-LCD 18.1 (459.14mm) diagonal 0.2805mm x 0.2805mm 250:1(Typical) 8-bit(16,777,216 Colors) 200cd/m^2
Picture Signal	resolution horizontal frequency vertical frequency view angle input picture signal	SXGA 1280 x 1024@ 60Hz 31.5 - 80kHz 60 - 75Hz U/D:±70°, R/L: ±70° Analog RGB,OPTION(DVI, RCA, S-VHS)
AUDIO	output	Stereo 2Watt x 2
Input Connector	input terminal user's control	15Pin D-Sub(Analog RGB), OPTION(DVI) Auto Configuration, Brightness, Contrast, H-Position, V-Position, Color RGB, Phase, Frequency, Volume, Language,etc.
Dimension and Weight	body size(WxDxH) weight	448x 241.3x 441mm 7.5kg(Unit), 10kg(Packed)
Power	power managing system power consumption input power	VESA DPMS standard ≤48 Watt AC 110~220V, DC12V

Product Specification

Factory-specified Mode

	Factory-specified Mode		Horizontal Frequency(kHz)	Vertical Frequency(Hz)
1	VGA	640 × 350	31.47	70
2	VGA	640 × 480	31.47	60
3	VGA	640 × 480	37.86	72
4	VGA	640 × 480	37.50	75
5	VGA	720 × 400	31.47	70
6	SVGA	800 × 600	37.88	60
7	SVGA	800 × 600	48.68	72
8	SVGA	800 × 600	46.88	75
9	XGA	1024 × 768	48.36	60
10	XGA	1024 × 768	56.48	70
11	XGA	1024 × 768	60.02	75
12	SXGA	1280 × 1024	64.0	60
13	SXGA	1280 × 1024	79.98	75

※ Remarks

1. The indication in above diagram and actual value shall not be always coincident. This product automatically adjusts for optimum condition by itself.
2. In case of any trouble in user's set-up, it automatically returns to the initial set-up mode.