I. Federal Communications Commission (FCC) Statement:

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 reasonable protection against harmful interference in a residential installation. This equipment can generate radio frequency energy during use, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct its interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the-receive is connected. -Consult the dealer or an experienced radio/TV technician.

II. Important Safety Precautions

Warning

1. Do not use the monitor near water, next to a kitchen sink, bathtub, or swimming pool or in other wet areas.

2. Do not place the monitor on unstable or sloped surfaces. If the monitor falls, it could cause personal injury and also damage the monitor. Use only the stand supplied or one recommended by your dealer. If you mount the monitor on a wall or shelf, Use a mounting kit approved by your dealer and Follow the kit instructions.

3. Unplug the monitor before you clean it. To clean the LCD screen, use a soft clean cloth moistened only with water. Do not use abrasive cleaners or other chemicals to clean the LCD screen.

4. Avoid touching the LCD screen with your fingers or hard objects which may scratch the delicate surface.

5. Slots and openings in the monitor's cabinet are provided for ventilation. To ensure reliable operation of the monitor and to protect it from overheating, do not allow these openings to become blocked or covered. Do not place the monitor on a bed, sofa, rug, or similar surface. Do not place the monitor near a radiator or close to other sources of heat. When using the monitor in a bookcase or cabinet please ensure adequate ventilation is provided.

6. Never push any object into the slots and openings in the monitor's cabinet to avoid the risk of electric shock or causing a fire.

7. Do not attempt to service the monitor by yourself; opening or removing covers can expose you to dangerous voltages and other hazards. Please refer all servicing to qualified service personnel.

8. Use only the AC adapter supplied. If it becomes lost or damaged please contact your dealer for a suitable replacement. 9. The monitor should be ideally located near an easily accessible AC wall socket.

10. Do not allow the monitor or other objects to rest on the power cord or other cables.

11. A certified power supply cord must be used with this equipment. The relevant national installation and/or equipment regulations should also be considered. An appropriate power cord is supplied with your monitor.

12. If the power cord becomes lost, damaged or is incompatible with your AC outlet, please contact your dealer for a suitable replacement.

13. Do not overload power strips and extension cords. Overloading can result in fire or electric shock.

14. Unplug the unit during lightening storms or when it will not be used for long periods of time. This can protect the monitor from damage caused by AC power surges.

15. Unplug the monitor and contact your dealer under any of the following circumstances:

. The power cord becomes damaged or frayed.

. If you suspect liquids or foreign and objects have entered the monitor.

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- . If the monitor has been dropped or the cabinet has been damaged.
- . If the monitor exhibits a distinct change in performance or does not operate correctly.

Attention:

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The following circumstances are normal, not failure of display.

1. The panel will flash for the feature of fluorescent lamp. Turn off power switch and then turn on, check whether it disappears.

2. You may find slightly unevenness in the mode of desktop.

3. For the feature of LCD, when a picture remains long time, it may have residual part of previous picture while transforming pictures. In this situation or the power has been off for long time, the renewal speed is full.

4. The fluorescent lamp used in LCD has some 40,000 hours of service life. When the lamp of display gets dim, flashing or is not bright, please contact the dealer or service center for replacement. Never try to replace it by yourself.

III. Connection and Setup

Before setting up your monitor, check that all accessories listed below are included in the carton. If any items are missing or damaged, contact your dealer

3.1 Connection of signal

Before connecting any of the cables, ensure both the monitor and PC are switched off. The connection of relevant terminals as following is shown in fig. 1. You can connect corresponding devices according to your demand.

1) D-SUBCONNECTOR (VGAin) Connect one end of the 15-Pin VGA signal cable to this connector, and the other end to the 15-Pin D-Sub VGA connector on your PC.

2) DC12V(DC Power in) Connect the DC lead of the AC adapter into here.



3.2 Connection of power source

1) This LCD uses the following external power adaptor: Input voltage is 100-240VAC50/60Hz Output voltage is 12V/3.3A or 4.0A

2) The external power adaptor is connected with AC power socket by power cable, and then the 2-core DC plug of the other side of the external power adaptor is connected to +12VDCsocket of the display.

3.3 Calibration of visual angle



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You can press the base to adjust the angle for the best performance.

IV. Front panel and OSD Controls.

4.1 Front panel

Menu	Down	Up	Auto	Power

As shown in figure, the functions are introduced as follows:

- 1. MENU/ENTER: OSD menu and entering the next menu
- 2. DOWN: Decrease selected setting or adjust volume
- 3. UP: Increase selected setting or (digital video input model) change video mode for DVI input
- 4. AUTO/EXIT: AutoAdjust and exit
- 5. POWER: used to turn the monitor ONor OFF.
- ${\rm 6.\,Power\,indicator:\,Green = Monitor\,on,\,Orange\,or\,Red = Power\,save\,mode,\,No\,light = Monitor\,Off } \\$

4.2 OSD Controls

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Function	Sub-menu function
Color	Contrast Brightness Color temp Color Adjust Exit
Picture	H-position V-position Phase Clock Exit
Function	Auto color Auto adjust Exit
OSD Menu	Language OSD H-position OSD V-position OSD Timer Translucent Exit
Misc	Reset Volume Exit
Fxit (OSD)	

For the operations not involved in following content, refer to "OSD information representation".

Signal gain adjustment

order to match the display card of the user, setup this menu. When the user first uses display or change display card, it needs to execute this menu. Press MENU to enter into OSD major menu, select MENU, press MENU – select AUTOADJUST and press MENU to complete.

Adjustment of picture quality

Automatic adjustment: display PC picture, determine display mode used in Windows and renew, select "START" menu in Windows, and select OFF. (But do not enter OFF) — press AUTO to access OSD menu in AUTO to conduct automatic adjustment of picture. After adjustment, click "Cancel" in "Shut Windows" dialogue box. If you are not satisfactory to picture quality, you can conduct manual adjustment.

Manual adjustment: if you are not satisfactory even after several times of automatic adjustment, you can enter into OSD major menu in the above Windows shut-off picture, press MENU, —select AUTOADJUST and AUTOCOLOR adjustment or PHASE adjustment, so that Windows picture is clear.

Note: we suggest making picture automatic rectification or adjusting clock phase in the picture of "Shut off Windows". Thus it can reach to the best picture quality to clear off net line or other disturbances.

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Adjustment of picture position: select H-Position or V-Position to adjust.
Selection and adjustment of color temperature
Enter into OSD major menu – select COLOUR, press MENU– can select 9300K Color or 6500K Color for color temperature, and can also select User's Color for your own definition.

V. Specifications

LCD 19" (0.297 mm) TFT

Contrast 700:1 (typical value)

Brightness 300cd/m*m (typical value)

Visual angle H: 150° (typical value) V: 140° (typical value)

Response time 8/12ms (typical value)

Max. resolution 1280*1024

Horizontal frequency range 30-80KHz

Vertical frequency range 55-75Hz

Signal input RGB video analogue signal and DVI input

Power adaptor Input voltage 100-240VACÿ50/60Hz Output voltage 12V/4.16A

Power consumption <50W

Energy saving Comply with standards of EPA, VESA

Safety specifications UL/CUL/TUV/CCEE/FCC/CE

Plug and play DDC2B

Weight net weight: gross weight: kg

Dimensions 502mm*180mm*502mm*(L*W*H)

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VI. Display modes

6.1 Preset video modes

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Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Resolution
1	31.5	60	640*480
2	37.8	72	640*480
3	37.5	70	640*480
4	31.5	56	720*400
5	35.1	56	800*600
6	37.8	60	800*600
7	48.0	72	800*600
8	46.8	75	800*600
9	48.3	60	1024*768
10	56.4	70	1024*768
11	60.0	75	1024*768
12	63.9	70	1280*1024
13	80.0	75	1280*1024

6.2 User Video Mode

Your monitor may support other video modes not listed here. Manual adjustments of the Phase and Clock settings for an unsupported mode will be automatically stored as a "User Video Mode" on exiting the OSD.

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VII. Troubleshooting guide

Failure	Solution
Power indicator of display is not illuminated	Ensure that the power cord is properly connected. Press the power button to turn the monitor on. The power button indicator is constantly illuminated orange or red (Power save mode).
The power button indicator is constantly illuminated orange (Power save mode)	Ensure that the signal cable is properly connected to the PC and Monitor. Ensure that the pins of the signal input connector are not bent or broken. Press the Caps Lock key on the PC's keyboard to check if the PC is on and working normally. The computer maybe in a power saving mode. Try pres-sing a key on the keyboard or moving the mouse to "wake it up".
"Out of range" is displayed onscreen.	Your PC is set to use an unsupported video mode. Please set your PC to one of the supported video modes listed in Section
The image quality is not acceptable or the picture is unstable.	If you are using Windows 9x/2000, click "Start" then "Shutdown" to display the "mesh effect" shutdown screen. Press the Auto Adjust monitor key, or adjust the picture manually using the OSD CLOCK and PHASE controls.
Horizontal or vertical disturbance of picture	For the user who uses WINDOWS 9X/2000, we suggest you to click "Shut-off System" of WINDOWS, and press AUTO in the OFF picture appearing subsequently, or manually adjust horizontal width and phase.
Contrast of brightness is weak, and it cannotbe adjusted to normal value	The service life of backlight is 40,000 hours, and it cannot be adjusted to normal value if the service life expires. Please carry the display to the authorized service agency for repair.

If the above measures cannot solve your problems, please contact technical support personnel. Never open the cover to check or repair. This company should not be liable for any outcome if you open the cover without permission.

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VIII. VGA Connector and DVI Connector Details (Optional)



VGA Connector

DVI Connector

8.1 15-pin VGA Connector Pin Assignment

Pin NO.	Function description	Pin NO.	Function description
1	Red Video	9	NC
2	Green Video	10	Logic
3	Blue Video	11	Monitor
4	NC	12	DDC – Serial
5	GND	13	H-Sync.
6	R ed G round	14	V-Sync.
7	Green Ground	15	DDC-Serial Clock
8	Blue Ground		

8.2 24-pin DVI Connector Pin Assignment

Pin NO.	Function description	Pin NO.	Function description
1	TX2-	13	Not connected
2	TX2+	14	+5V power
3	Shield (TX 2/TX)	15	Ground (H/V sync)
4	Not connected	16	Hot plug
5	Not connected	17	TX0-
6	DDC-Serial Clock	18	TX 1+
7	DDC-Serial Data	19	Shield (TX 0/TX 5)
8	Not connected	20	Not connected
9	TX 1-	21	Not connected
10	TX 1+	22	Shield (TXC)
11	Shield (TX 1/TX 3)	23	TXC+
12	Not connected	24	TXC-

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