**TFT LCD MONITOR**

# Model L1711MN

# Model L1911MN

## User's Manual
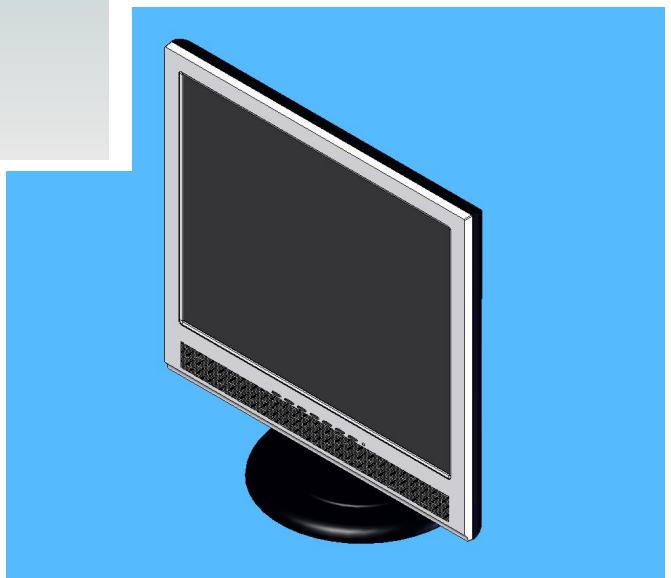
Thank you for purchasing the active matrix TFT LCD Monitor. The LCD Monitor display sharp and brilliant images of text and graphics with a maximum supported resolution up to 1280 x 1024 (SXGA) pixels. The monitor was designed to accommodate the performance of PC Monitor for use in the home, office, or large corporate environment. The fine resolution will allow wide range of monitor capabilities including word processing, e-mail, spreadsheets, and Internet browsing.

**Notice :**

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## CAUTION
RISK OF ELECTRICAL SHOCK
DO NOT OPEN

CAUTION: TO PREVENT ELECTRICAL SHOCK.
DO NOT REMOVE ALL COVERS.
NO USER-SERVICABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING: TO PREVENT DAMAGE WHICH MAY RESULT IN FIRE OR SHOCK HAZARD. DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.
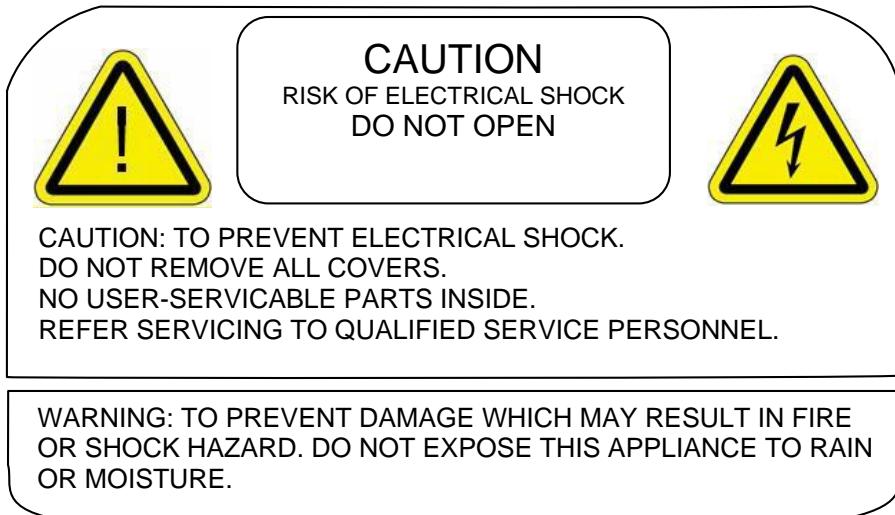
**WARNING:** FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

U.S.A. ONLY

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.

NOTE: 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 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 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 the 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 receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Your purchase will have the following items from a complete package:

TFT-LCD Monitor      User's Manual      AC to DC Power Adaptor (DC 12V, 4A)
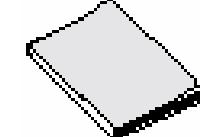
Power Cable
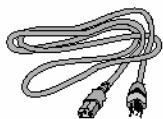
VGA Cable

PC Stereo Cable      Optional DVI Cable

(Optional)

If there is any item missing, please contact your local dealer.

Caution: Use of controls, adjustments, or procedures other than those specified in this document may result in exposure to shock, electrical hazards, and/ or mechanical hazard.

Read and follow these instructions when connecting and using the LCD monitor:

To help avoid damaging your computer, be sure that the voltage selection switch on the power supply for the computer is set to match the alternating current (AC) power available at your location:

§ 110 volts (V)/60 hertz (Hz) in most of North and South America and some Far Eastern countries such as Japan (100 volts), South Korea (220 volts (V)/60 hertz (Hz)), and Taiwan.

§ 230 volts (V)/50 hertz (Hz) in most of Europe, the Middle East, and the Far East.

§ Always be sure that you are operating within the valid electrical rating in your location

§ Never insert anything metallic into the LCD monitor openings. Doing so may create the danger of electric shock

§ Never touch the inside of the LCD monitor. Only a qualified technician should open the case.

§ Never use the LCD monitor if the power cable has been damaged. Do not allow anything to rest on the power cable.

§ Keep the power cable away from where people could trip over it.

§ Be sure to grasp the plug, not the cable, when disconnecting the LCD monitor from an electric socket.

§ Do not remove the ground pin. By doing so, you will defeat the safety. A polarized plug has two blades wider than the other. A grounding type plug has two blades and third grounding prong. The wide blade or third prong is provided for your safety.

§ When the provided plug does not fit into your electrical outlet, consult an electrician for the replacement of the plug.

§ To prevent overheating, do not block or covered openings of the LCD monitor.

§ Avoid using the LCD Monitor on a bed, sofa, rug, or other soft surface, as doing so may block ventilation openings in the bottom of the cabinet. If you place the LCD monitor in a bookcase or an enclosed space, make sure to provide adequate ventilation and air flow.

§ Place the LCD monitor in a location with low humidity and minimum dust.

§ Avoid places such as a damp base and a dusty hallway.

§ Do not expose the LCD monitor to rain or use it near water (in kitchens, next to swimming pools, etc.). If the LCD monitor accidentally gets wet, unplug it and contact your dealer immediately. You can clean the LCD monitor with a damp cloth if necessary, being sure to unplug the LCD monitor first.

§ Place the LCD monitor on a solid surface and treat it carefully. The LCD monitor is fragile and cannot be damaged, dropped or hit sharply. When use with a cart, stand, tripod, bracket, or table, being sure that the LCD monitor is adequately supported.

§ Unplug the LCD monitor during lightning storms or when unused for long periods of time.

§ Locate the LCD monitor near an easily accessible electric outlet.

§ If the LCD monitor does not operate normally - in particular, if there are any unusual sounds or smells arising from the LCD monitor unplug it immediately and contact your local dealer.

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§     High temperatures can cause problems. Do not use the LCD monitor in direct sunlight, and keep it away from hot stoves, fireplaces, and other sources of heat.

§     Unplug the LCD monitor from the electric outlet before any service is performed.

§     Unplug the LCD monitor before cleaning the panel of the LCD monitor.

§     Use slightly damp (not wet) cloth.

§     Do not throw away the carton and packing materials. They make an ideal container to transport the unit. When shipping the unit to another location, repack it in its original material.

**Warning on power connections**
§     Use only the power cord supplied together with the LCD monitor in the accessory pack.

Example of plug types
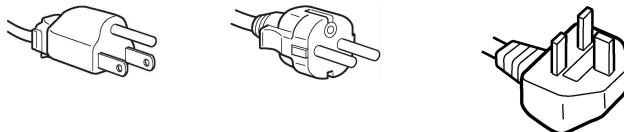
AC: 100 to 120 V      AC: 200 to 240 V      AC: 240 V only

## Unpacking/ Repacking the LCD Monitor

Unpacking your LCD monitor as easy as 1, 2, 3, and 4.
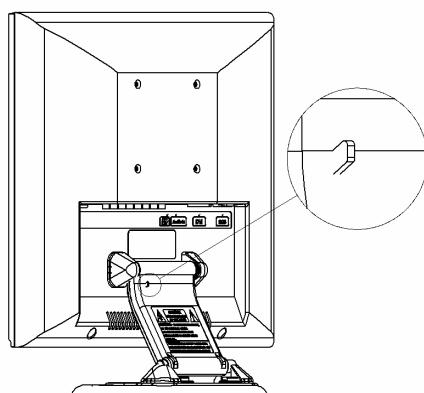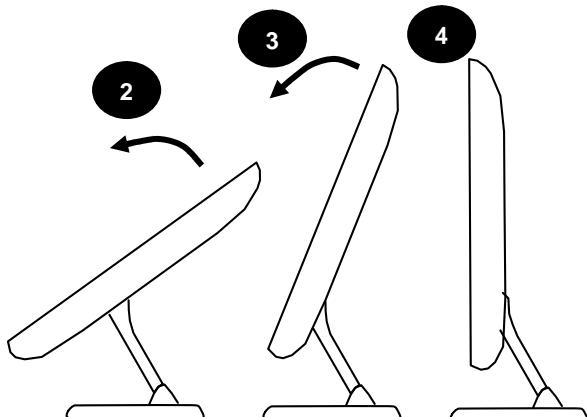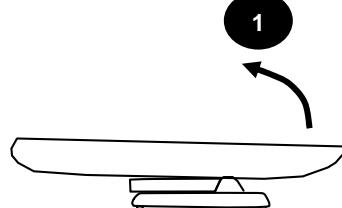
The indicated safety lock will keep the monitor's base arm in the up-right position. Pressing the button will release the lock and allow the stand to be folded back to the monitor as indicated as step **1** above.

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## Cable Connection: VGA & DVI (optional) cable

This connection described herein applies to PC compatible with Video Graphics Array (VGA) port and optional Digital Video Input (DVI). This also applies to any graphics video card for PC or workstation that has a VGA connector.

1. Before connecting, power off both the monitor and PC.

2. Connect the VGA connector of the supplied signal cable to the output VGA connector on the PC and the matching input connector on the rear of the LCD monitor. If your package include optional DVI cable, connect the DVI cable to the output DVI connector from the PC and the matching input connector to the rear of the LCD monitor.

3. Secure the connector by tightening the thumbscrew at the connector.

4. Connect your audio output connector on the PC to the audio input jack behind the monitor with the supplied 3.5mm stereo speaker audio cable.

5. Connect the supplied power adapter to the DC input jack.

6. Connect the supplied power cable to the power adapter and plug in the supplied power cable to a power outlet.

7. Power ON the PC, then the monitor.

8. If you are using Microsoft Windows Operating System, please refer to Windows driver installation guide to proceed with software driver setup.

9. If you see the "No signal" message, check the signal cable and connectors. Please refer to Troubleshooting section for further instruction.

10. After using the LCD monitor, power OFF the monitor, before turning off the PC.
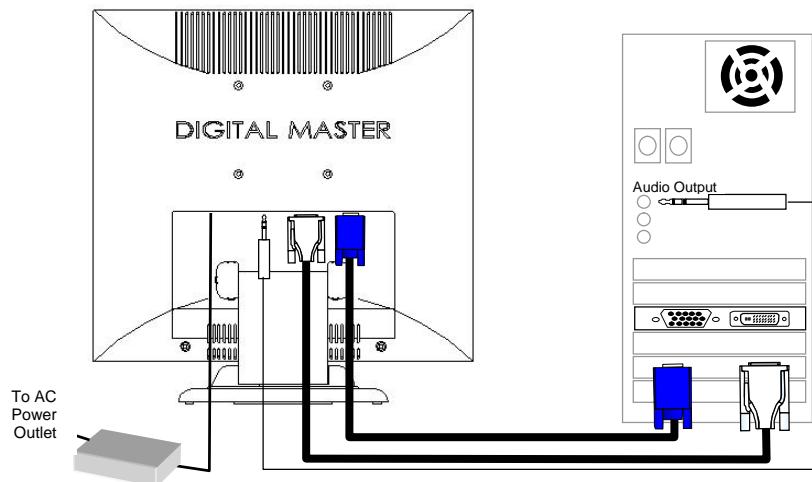


*Connection setup for LCD Monitor using VGA signal cable, DVI-D optional cable, 3.5 mm stereo speaker audio cable and the connection to power supply.*

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Location of OSD control panel

## Front View

**L1711MN 17" Monitor**          **L1911MN 19" Monitor**

OSD Control Panel

Stereo speakers

Swivel base
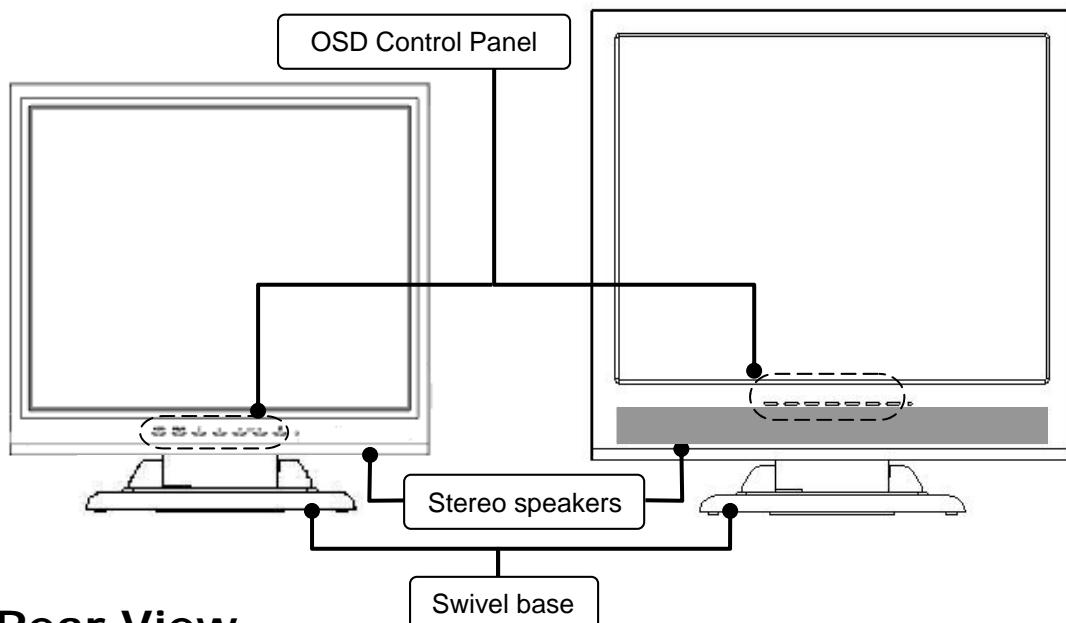
## Rear View

DIGITAL MASTER

VESA mounting holes

Dual hinge

Kensington lock access

## Connectors

| Power | Stereo Audio | DVI-D | VGA |

**ENGLISH**
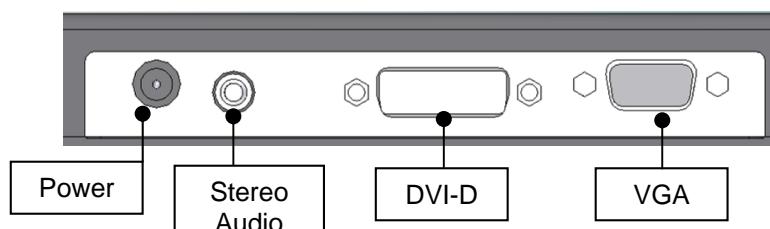
## OSD Control Panel Location

Power indicator

Amber: Standby
Green: ON
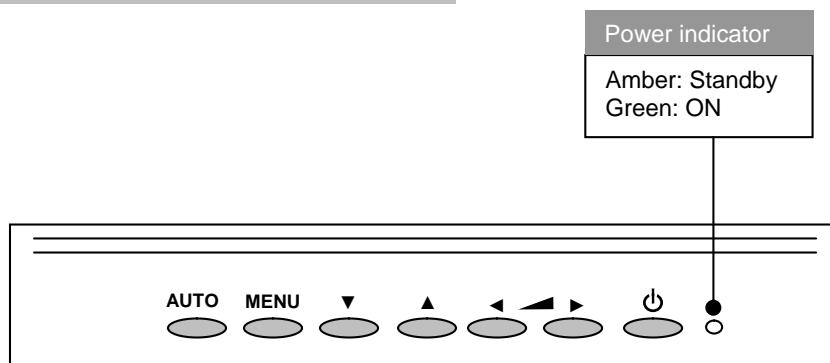
AUTO    MENU    ▼    ▲    ◄ ─ ►    ⏻

|              | Auto | Menu | ▼ | ▲ |
|--------------|------|------|------|------|
| **Normal mode** | Auto adjustment for RGB connection only | To enter OSD Menu | To select between RGB and DVI (optional) sources | Mute speakers |
| **OSD mode** | Quit from OSD Menu | To select item in OSD | Move cursor downward | Move cursor upward |

|              | ◄ | ► | ⏻ |
|--------------|------|------|------|
| ***Normal mode*** | Decrease volume | Increase volume | To turn the LCD Monitor ON or OFF |
| ***OSD mode*** | Move cursor to left | Move cursor to right | None |

*You can access two operational modes from the control panel:*
*1. Normal mode*
   When the MENU is not activated, the user can control the volume using ◄ and ► buttons,  select toggle between RGB and DVI sources using ▼ button, and mute the speakers using ▲ button.

*2. OSD mode*
   When the MENU button is pressed, the user can have access to the LCD monitor's settings.

## Supported On-Screen Display (OSD) Languages

The supported languages for our OSD are as follows

1. English,
2. French,
3. German,
4. Spanish,
5. Italian,
6. Japanese, and
7. Korean.

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## On-Screen Display (OSD) Selection and Navigation

OSD selection will allow you to adjust your pictures, colors, size, and other options to your requirement.

Typical way of accessing the OSD menu is as follows:

| PICTURE | BRIGHTNESS |
| COLOR | CONTRAST |
| SIZE | PHASE |
| OPTIONS | |

AUTO/EXIT   MENU/SELECT   DOWN   UP

Press (MENU) to select the main setting configuration.

Press (MENU) to select the submenu item.

**BRIGTHNESS      30**

AUTO/BACK      DECREASE   INCREASE

Press (AUTO) to exit to the main setting configuration.
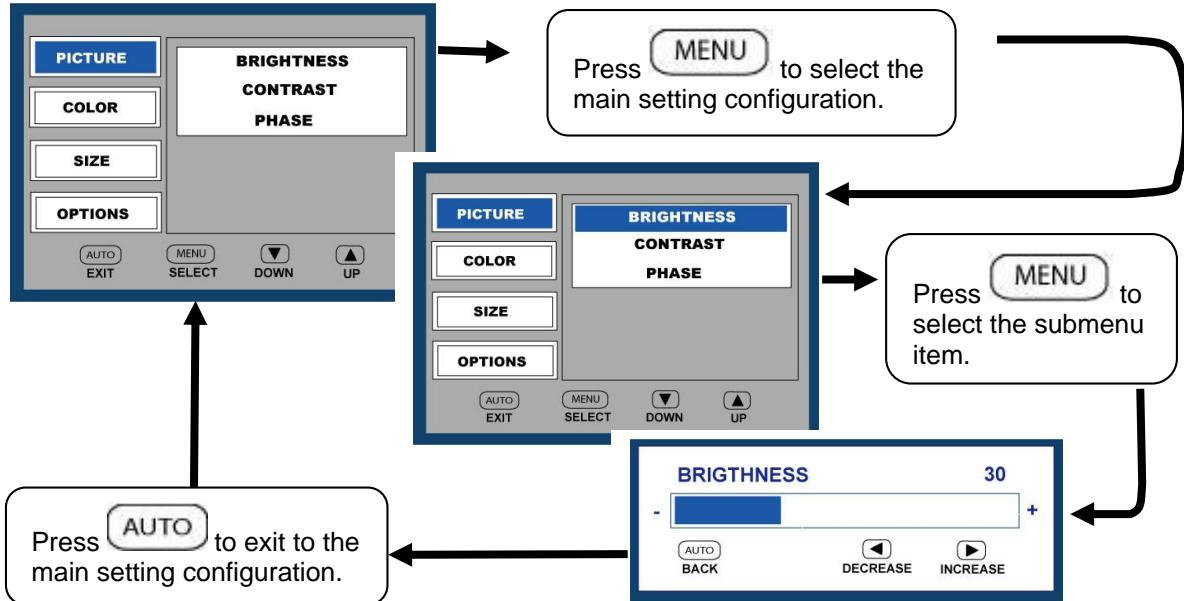
## On-Screen Display (OSD) Features

| FEATURE | DESCRIPTION |
|---|---|
| **1. Picture Adjustment**<br>Brightness<br>Contrast<br>Phase | Adjust the brightness of the screen.<br>Adjust the display to the contrast desired<br>Adjust focus, clarity and image stability. |
| **2. Color Adjustment**<br>sRGB<br><br>**COLOR MODE SRGB** | sRGB is a standard encode luminance into 8 bits (or into any integer space). It is designed to maintain color consistency between devices which comply to the sRGB standard. |
| 5000K, 6500K, 7500K, 9300K | To select a respective color temperature |
| User<br><br>**USER COLOR SETTINGS**<br>RED  100<br>GREEN  100<br>BLUE  100 | To customize the desired color temperature through red, green, blue color controls. |

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| FEATURE | DESCRIPTION |
|---|---|
| **3. Size Adjustment**<br>    Screen width<br>    Horizontal position<br>    Vertical position<br><br>*Note: Size adjustment is not available under DVI*<br>*      connection (optional)* | <br>Adjust screen width.<br>Adjust screen in horizontal position<br>Adjust screen in vertical position. |
| **4. Other options**<br>    OSD Timeout<br><br><br>    OSD Horizontal Position<br>    OSD Vertical Position<br>    OSD Language<br><br><br><br><br><br><br><br><br><br><br><br><br><br><br>    Factory Reset<br><br><br><br><br><br><br><br><br><br><br><br><br><br><br>    Information | <br>Set timeout period for OSD menu to disappear.<br>Timeout range is between 2 to 20 seconds<br><br>Adjust OSD in horizontal position<br>Adjust OSD in vertical position<br>Select your OSD language preference<br><br><br><br>Restore the LCD monitor's settings to it original factory settings. Please allow 5 to 10 seconds for the restore process.<br>During the restoring process, two dialog boxes as shown below will pop up:<br><br><br><br><br><br>Display the current LCD monitor's settings information as shown in the following:<br><br> |

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This guideline will prepare you to a self-checking test before calling for service.

| PROBLEM | ACTION |
|---|---|
| OUT OF RANGE | Either the frequency of the sync input is beyond the operating range or the resolution is beyond the supported range of the LCD monitor<br>o Horizontal Frequency: 31.5-91.1kHz<br>o Vertical Frequency: 43-85Hz<br>o Maximum supported resolution 1280 x 1024<br>For you to change to a valid frequency setting, refer to you Technical Info. section for more detail on compatible display mode |
| POWER LED is illuminated amber | Display power management mode<br>There is no sync signal<br>The signal cable is not properly secure<br>Check the computer power and graphic adapter configuration<br>If the problem persists, please contact your local authorized dealer. |
| IMAGE IS NOT CENTERED | Image adjustment has not been configured in the current operating mode. Use OSD buttons to set up the image according to your comfortable configuration or press "Auto" button for auto adjustment |
| LCD MONITOR DOES NOT ENTER POWER SAVING MODE (AMBER) | Computer video signal is not VESA DPMS standard. Either the PC or the video controller card is not using the VESA DPMS power management function |
| POWER LED not light up (NO POWER) | Check power cable is properly plug in to power adapter and power outlet. |
| NO VIDEO FROM SCREEN | Check if the VGA cable or the optional DVI cable is properly connected between the LCD monitor and the computer. |
| NO SIGNAL | Check if the VGA cable or the optional DVI cable is properly connected between the LCD monitor and the computer.<br><br>Check if the power adapter is properly connected to the power outlet. |
| OSD buttons not functioning | Reset the LCD monitor by power off and power on from the power switch. |
| NO SOUND | Check if the 3.5 mm stereo audio cable is properly connected at both ends. Check if the speakers are muted. |
| FUZZY LINES | Depending on the images displayed. You may occasionally see some horizontal fuzzy lines appearing on the images. This is a normal condition and can be corrected by activating the Automatic Adjustment feature as described in page 5. |

**ENGLISH**

| | L1711MN | L1911MN |
|---|---|---|
| **DISPLAY** | | |
| LCD type | Active matrix | Active matrix |
| Viewable TFT LCD area | 432.75 mm (17-inch) | 482 mm (19-inch) |
| Pixel pitch | 0.264 mm (H) x 0.264mm (V) | 0.294 mm (H) x 0.294mm (V) |
| Picture aspect ratio | 4:3 | 4:3 |
| Brightness | 270 cd/m$^2$ (nit) | 250 cd/m$^2$ (nit) |
| Contrast ratio | 350:1 | 500:1 |
| Supported resolution | 1280 x 1024 (SXGA) | 1280 x 1024 (SXGA) |
| Color | 16.7 million colors | 16.7 million colors |
| View angle (Left/ Right/ Up/ Down) | 70$^o$/ 70$^o$/ 60$^o$/ 60$^o$ | 85$^o$/ 85$^o$/ 85$^o$/ 85$^o$ |
| Response time | 25 milliseconds | 25 milliseconds |
| | | |
| **VIDEO INPUTS** | | |
| Horizontal freq. | 31.5-80 kHz | 31.5-80 kHz |
| Vertical freq. | 56-75 Hz | 56-75 Hz |
| Signal input | Analog/ RGB (VGA), DVI-D (optional) | Analog/ RGB VGA), DVI-D (optional) |
| | | |
| **AUDIO FEATURE** | | |
| Power amplifier | 2W + 2W (8 $\Omega$) | 2W + 2W (8 $\Omega$) |
| Built-in speakers | Yes, stereo speakers | Yes, stereo speakers |
| Audio input | 3.5mm mini stereo jack | 3.5mm mini stereo jack |
| | | |
| **DIMENSION** | | |
| W x H x D without stand | 375 x 333 x 52 (mm)14.8 x 13.1 x 2 (inch) | 426 x 397 x 56 (mm) 16.8 x 15.6 x 2.2 (inch) |
| W x H x D with stand | 375 x 401 x 235 (mm)14.8 x 15.8 x 9.3 (inch) | 426 x 445 x 235 (mm) 16.8 x 17.5 x 9.3 (inch) |
| | | |
| **POWER** | | |
| Power Adapter | | |
| AC Input | 100-120/ 200-240 VAC, 50/ 60 Hz. | 100-120/ 200-240 VAC, 50/ 60 Hz. |
| DC Output | DC 12 V, 3.33A. | DC 12 V, 3.33A. |
| Power Consumption | | |
| On mode | Less than 40 W | Less than 40 W |
| Standby mode | Less than 5 W | Less than 5 W |
| Off mode | Less than 5 W | Less than 5 W |
| | | |
| **WEIGHT** | | |
| Net weight | 6.3 kg (13.89 lbs) | 7.8 kg (17.20 lbs) |
| | | |
| **ENVIRONMENT CONDITIONS** | | |
| Operating Condition | | |
| Temperature | 5$^o$C to 35$^o$C | 5$^o$C to 35$^o$C |
| Humidity | 20% - 80% non-condensing | 20% - 80% non-condensing |
| Storage Condition | | |
| Temperature | -15$^o$C to 60$^o$C | -15$^o$C to 60$^o$C |
| Humidity | 20% - 90% non-condensing | 20% - 90% non-condensing |

**NOTE:**
*Specification is subjected to change without notice.*

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## Display Modes (Resolution)

The monitor has 23 display modes; all supported modes are listed in the following table:

| Display Modes (Resolution) | Horizontal Freq | Vertical Freq | |
|---|---|---|---|
| 640 x 480 | 31.5 kHz | 60 Hz | |
| 640 x 480 | 37.8 kHz | 72 Hz | |
| 640 x 480 | 37.5 kHz | 75 Hz | |
| 640 x 480 | 35.1 kHz | 66 Hz | |
| 720 x 400 | 31.5 kHz | 70 Hz | |
| 800 x 600 | 35.1 kHz | 56 Hz | |
| 800 x 600 | 37.8 kHz | 60 Hz | |
| 800 x 600 | 48.0 kHz | 72 Hz | |
| 800 x 600 | 46.8 kHz | 75 Hz | |
| 832 x 624 | 49.7 kHz | 75 Hz | |
| 1024 x 768 | 48.3 kHz | 60 Hz | |
| 1024 x 768 | 56.4 kHz | 70 Hz | |
| 1024 x 768 | 57.8 kHz | 72 Hz | |
| 1024 x 768 | 60.0 kHz | 75 Hz | |
| 1152 x 864 | 67.5 kHz | 75 Hz | |
| 1152 x 870 | 68.7 kHz | 70 Hz | |
| 1152 x 900 | 61.8 kHz | 66 Hz | |
| 1152 x 900 | 71.7 kHz | 76 Hz | |
| 1280 x 960 | 60.0 kHz | 60 Hz | |
| 1280 x 1024 | 63.9 kHz | 60 Hz | |
| 1280 x 1024 | 74.4 kHz | 70 Hz | |
| 1280 x 1024 | 78.1 kHz | 72 Hz | |
| 1280 x 1024 | 79.9 kHz | 75 Hz | * |

*Note: Factory recommended settings*

**ENGLISH**

**CE**

**FCC**