

**MAG**  
INNOVISION

# 15"/17"/19" LCD MONITOR

USER'S GUIDE

B516/B716/B916

(LP517/LP717/LP917)



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# Recycling Place

## EUROPE

**When disposing of MAG Branded Monitors in Europe, please contact one of the following three locations to make arrangements for recycling.**

- Proview International (UK) Limited  
30 The Avenue, Watford, Hertfordshire  
WD17 4AE United Kingdom  
Timothy Lo  
Tel: +44-1923-248-111  
Fax: +44-923-248-222  
Email: tim.lo@proview.co.uk
  
- PGL Europe B.V. (Proview Group Limited Rotterdam)  
Satijnbloem 37,  
3068 JP  
Rotterdam  
Hollande  
David Hsieh  
Tel: +31-10-238-1090  
Fax: +31-10-238-1091  
Email: david@proview-group.nl
  
- Xoal bvba  
Raketstraat 100-B1130  
Brussels  
Mr. Leo Starckx  
Tel: +32-2-702-6011  
Fax: +32-2-725-2513  
Email: rma@proview-repair.com  
leo.starckx@proview-repair.com

## ASIA

**When disposing of MAG Branded Monitors in Asia, please contact the following location to make arrangements for recycling.**

- Proview Technology (ShenZhen) Co., Ltd.  
North Block 21, 23# Shatoukok Free Trade Zone, ShenZhen, China.  
Mr. Dennis Chang  
Tel: +86-755-2526-1512  
Fax: +86-755-2526-1565  
Email: recycling@proview.com.cn

## AMERICA

**When disposing of MAG Branded Monitors in America, please call the following location to make arrangements for recycling.**

- Proview Technology, Inc. (U.S.A.)  
7373 Hunt Avenue, Garden Grove, CA 92841 U.S.A.  
Patrick Yen  
Tel: +714-799-3865  
Fax: +714-379-6290  
Email: pyen@proview.net

**“THIS DISPLAY UNIT IS AN ELECTRIC DEVICE WHICH MAY CONTAIN HAZARDOUS MATERIALS AND COMPONENTS, AND WHICH MUST BE DISPOSED OF AT END OF LIFE ACCORDING TO THE PROPER PROCEDURE”**

# **CE Marking Declaration Of Conformity**

This LCD monitor complies with the requirements of the EC Directive 89/336/EEC “EMC Directive” and 73/23/EEC “Low Voltage Directive” as amended by Directive 93/68/EEC.

The electro-magnetic susceptibility has been chosen at a level that gives correct operation in residential areas, business and light industrial premises and small-scale enterprises, inside as well as outside of the buildings.

All places of operation are characterized by their connection to the public low voltage power supply system.



## Federal Communications Commission (FCC) Statement

This equipment has been tested and found to comply with the limits of 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:

1. Reorient/Relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit which is different from what the receiver is connected to.
4. Consult the dealer or an experienced radio/TV technician for help.







**CAUTION:**

Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user authority to operate the equipment.

# Important Safety Instructions

To prevent any injuries, the following safety precautions should be observed in the installation, use, servicing and maintenance of this equipment.

Before operating this equipment, please read this manual completely, and keep it nearby for future reference.

Important Safety Instructions	
	This symbol indicates caution points.
	This symbol indicates actions that should not be done.
	This symbol indicates actions that must be performed.
	<ul style="list-style-type: none"><li>Do not place the equipment on any uneven or unstable carts, stands, tables, shelves etc. The equipment may fall, causing serious injury to children or adults and serious damage to the equipment itself.</li><li>Use only a cart or stand recommended by the manufacturer. This equipment and recommended cart or stand should be handled with care. Quick stops, excessive force, and uneven surfaces may cause the equipment and cart/stand to overturn.</li></ul>
	<ul style="list-style-type: none"><li>Do not disable the 3-wire grounding type plug. The grounding pin on the 3-prong plug is an important feature. Removing the grounding pin will increase the risk of damaging the equipment. If you can not fit the plug into the electrical outlet, contact an electrician to install a grounding outlet.</li><li>Always operate this equipment from the type of power source indicated on the rear of the serial/model plate.</li></ul>
	<ul style="list-style-type: none"><li>Never overload wall outlets and extensions.</li><li>Use and handle the power cord with care.</li><li>Do not place any heavy objects on the AC power cord.</li><li>Do not pull the AC power cord. Do not handle the AC power cord with a wet hand.</li><li>Do not touch the power cord and antenna cable during lightning.</li></ul>



- Remove the plug from the wall outlet if the equipment will not be used for a long period of time.
- Do not place, use or handle this equipment near water.
- Never expose the equipment to liquid, rain, or moisture. Seek qualified service if any of the above is spilled into the equipment.
- Do not attempt to service the equipment yourself.
- Opening and removing the covers may expose you to dangerous voltage or other hazards and may void your warranty. Refer service to qualified personnel.
- Always remove the power cord from the outlet before cleaning the equipment.
- Never use liquid or aerosol cleaners on the equipment. Clean only with a soft dry cloth.
- Do not expose the equipment to extreme temperature or to direct sunlight, as the equipment may heat up and suffer damage.
- Do not install the equipment near any heat sources such as radiators, heat registers, stoves, or any other apparatus that might produce heat.
- Do not block any ventilating openings. Leave an open space around the equipment.



- Never place the equipment :on a bed, sofa, rug, or any other similar surfaces; too close to drapes/curtains/walls, in a bookcase, built-in cabinet, or any other similar places that may cause poor ventilation.

(continued on next page)





- If any of the following conditions occur, unplug the power cord from the outlet and request service from qualified personnel.
  - a. The power cord or plug is damaged.
  - b. Liquid is spilled into the product .
  - c. An object falls onto or into the product.
  - d. The product has been dropped or damaged.
  - e. The product's display is abnormal.



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**DISPOSAL OF WASTE ELECTRONIC EQUIPMENT BY PRIVATE HOUSEHOLDS WITHIN THE EUROPEAN UNION**

This sign indicates that this product may not be disposed of with your regular household waste. The recycling and separate collection of such products is your responsibility. Please drop off the above-mentioned waste at a designated place for recycling waste electrical and electronic equipment. If you do not know where to drop off your waste equipment for recycling, please contact your local city office or household waste collection service.

# Chapter 1

## Introducing the Display

### Features

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- **FAST RESPONSE TIME**

The faster response time is good to video or animation to reduce residual image effect. While playing 3D games or watch video, it can enhance fluent video streaming.



- **SUPERIOR BRIGHTNESS & CONTRAST**

High brightness can make images vivid and higher contrast results in sharper difference between black and white colors. This feature is able to make the images displayed true to nature and colors saturated with the gradation.



- **ANTI-REFLECTION COATING**

The coating on the panel efficiently reduces distracting glare. If you often gaze at the screen for word processing or long-time working, this feature will cause less fatigue.

- **PLUG-AND-PLAY CAPABILITY**

Easy trouble-free configuration and set-up.



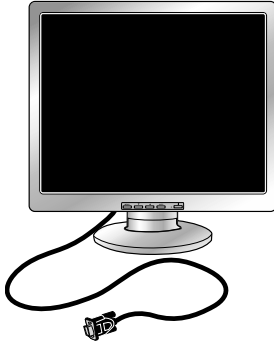
- **INTEGRATED POWER DESIGN**

The power part is integrated into the whole design and there's no more external power adapter to occupy your desktop space.

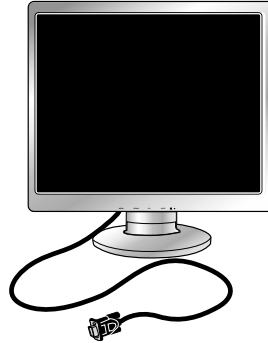
## Package Contents

Make sure all of the following contents are included in the box. If any items are missing, please return this product to the original place of purchase.

- LCD Monitor



B516/B716/B916



LP517/LP717/LP917

- Power Cord\*



- CD-ROM(Driver/Manual)



- Quick Guide



- Warranty Card



\* Power cord specification : H05 VV-F 3G 0.75mm<sup>2</sup>

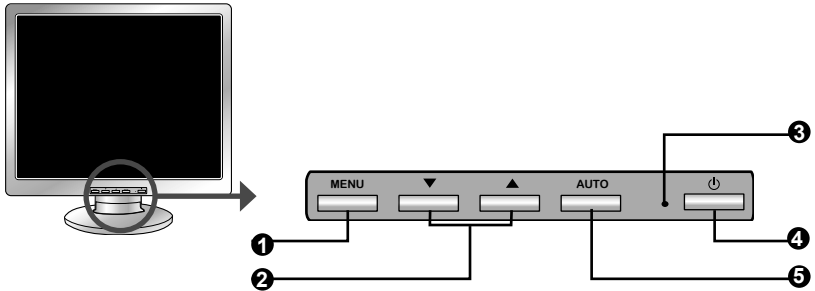


### CAUTION:

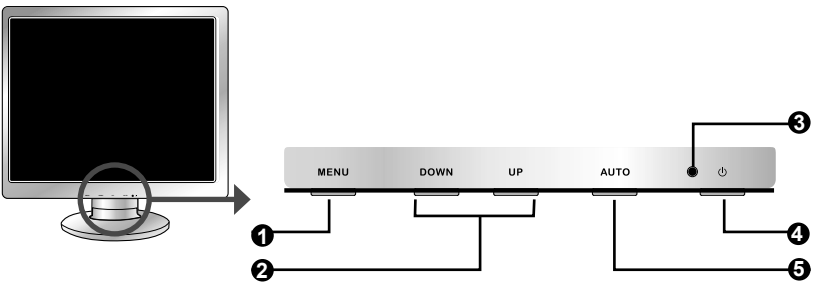
Be sure to save original box and all packing material for future transport of monitor.

## Front View and Controls

B516/B716/B916



LP517/LP717/LP917



ITEM	DESCRIPTION
① MENU	Press once to display the OSD (On Screen Display). And press to activate the items you highlight .
② ▲ ▼ DOWN/UP	In OSD mode, press the ▲ ▼/DOWN/UP buttons to move the selection highlight to the next menu item counterclockwise or clockwise, respectively.
③ LED	The LED light indicates when the LCD monitor is activated (green light indicates power on and amber light indicates power saving).
④ ⏻	Turns the LCD monitor on and off.
⑤ AUTO	Press to automatically adjust the display settings to optimize performance based on the D-SUB signal.


## Chapter 2

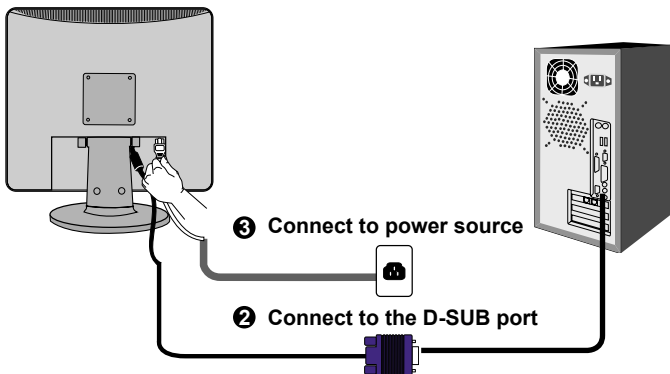
# Installing the Display

Refer to the owner's manual of the computer for connections. In the process of connecting external equipment, do not connect any AC power cords to wall outlets until all other connections are completed.

### Connecting Your LCD Monitor to a Computer

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- ❶ Turn off the computer and unplug the power cord.
- ❷ Connect the signal cable to the VGA port on the back of the computer.
- ❸ Connect the power cord to wall outlet and LCD monitor.
- ❹ Press the  button, located on the right side of the main unit to turn the monitor on, then turn the computer on. If the monitor displays an image, the monitor is successfully installed. If no image is displayed, check all connections.



**NOTE:**

Unplug the monitor before installation to avoid electric shock or damage.

**NOTE:**

The  button is used for switching the LCD monitor on and off, it does not disconnect the device from the main voltage. To completely disconnect the main voltage, please remove the power plug from the socket.

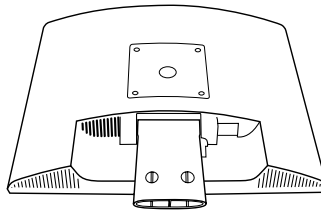
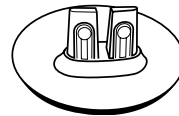
**NOTE:**

The LED indicator is green when the monitor operates normally and will turn to amber when in power saving mode. When the monitor is off, the LED turns dark.

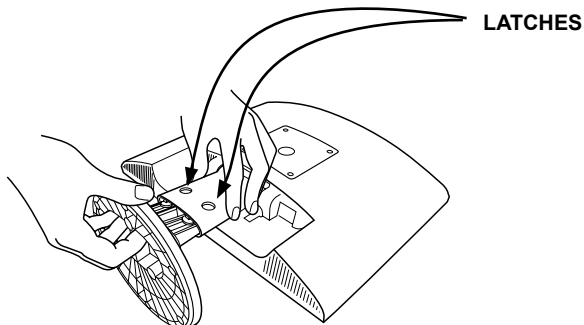
## Installing Your LCD Monitor

Follow the instructions below to set up and install the monitor.

- 1 The package contains:  
Display unit  
Stand

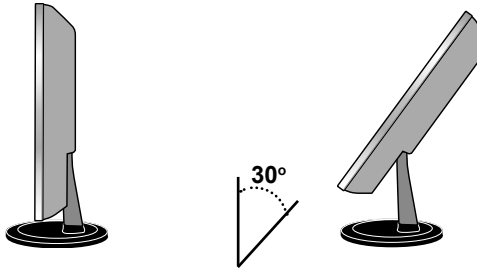
**DISPLAY UNIT****STAND**

- 2 Cover an even stable surface with a soft cloth. Place the unit face-down on the cloth. Fit the stand onto the bottom of the display unit as shown, then push until the two latches snap into their sockets.



In order to ensure a healthy and relaxed body position when using the monitor at visual display workstations, you are able to adjust the monitor's angle of the stand.

- 1 The angle of the LCD monitor may be adjusted approximately 30 degrees.



# Chapter 3

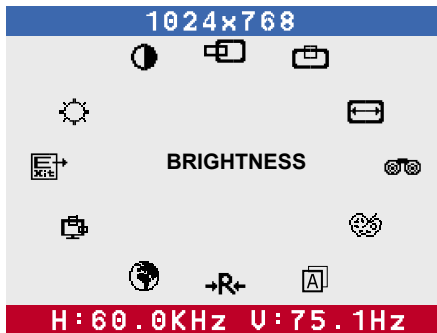
## Using the OSD Menu

### Using the OSD Menu

To create the best picture, your monitor has been preset at the factory with the Preset Mode Timing shown on page 19.

The OSD (On Screen Display) Menu allows the user to adjust various settings and options by following the steps below.

- 1 Press the **MENU** button to display the OSD. The OSD main menu provides an overview of the selection of controls available.



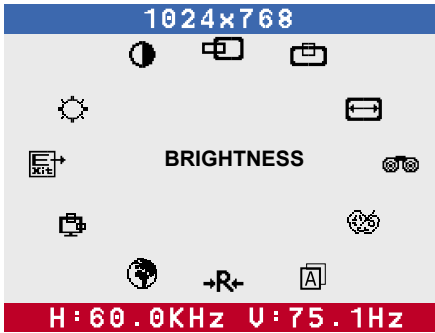
- 2 Press the **▲▼** or **DOWN/UP** button to highlight the desired icon. Then, press the **MENU** button to activate the highlighted icon
- 3 Press the **▲▼** or **DOWN/UP** button to change the value of the selected item.
- 4 Select the **EXIT** icon to exit the OSD.
- 5 Repeat steps 1 through 4 to make further adjustments. All changes are stored immediately.




## The OSD Options


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The OSD menu includes the following options:



 **BRIGHTNESS**  
Controls the overall brightness.

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 **CONTRAST**  
Controls the difference between the brightest and darkest regions of the picture.


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 **H. POSITION**  
Adjusts the position of the picture left and right in the window.


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 **V. POSITION**  
Adjusts the position of the picture up and down in the window.

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 **H.SIZE**  
Adjusts the width of the picture.

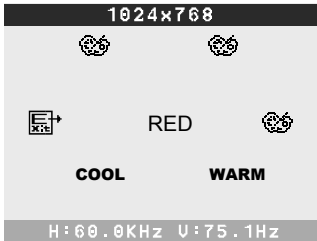
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 **PHASE**  
Adjusts signal phase, which can improve focus clarity and image stability.

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## COLOR

Allows selection of the general color tint:  
Select User Mode, WARM, or COOL.



### Select User Mode

Allows the user to adjust red, green and blue color component levels independently.

### **COOL**

Inclines colors toward the blue end of the spectrum.  
Fixes the red, green and blue component levels at factory settings; they cannot be independently adjusted.

### **WARM**

Inclines colors toward the red end of the spectrum.  
Fixes the red, green and blue component levels at factory settings; they cannot be independently adjusted.

### EXIT

Exits the OSD menu.

## AUTO ADJUST

Selects to automatically adjust the display settings to optimize performance based on the D-SUB signal.

## RESET




Restores all options to the factory settings.

## LANGUAGE


Controls which language is used on all the on-screen menus.

 **OSD**

Changes the position of the OSD.

 <b>H. POSITION</b>
Moves the OSD left and right in the window.
 <b>V. POSITION</b>
Moves the OSD up and down in the window.
 <b>EXIT</b>
Exits the OSD menu.

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 **EXIT**

Exits the OSD.

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# Chapter 4

## Technical Information

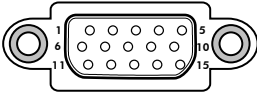
### Preset Mode Timing Chart

The screen image has been optimized during manufacture for the display modes listed below.

Video signal: (IBM PC/AT)

Dot X Line	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
<b>720 x 400</b>	31.47	70.00
<b>640 x 480</b>	31.47	60.00
	37.86	72.80
	37.50	75.00
<b>800 x 600</b>	35.16	56.25
	37.88	60.30
	48.08	72.20
	46.87	75.00
<b>1024 x 768</b>	48.36	60.00
	56.48	70.10
	60.02	75.00
<b>1280 x 1024</b>	63.98	60
	79.98	75

## D-SUB Connector PIN Assignment



PIN	DESCRIPTION
1	Red
2	Green
3	Blue
4	Ground
5	Self Test
6	Red Ground
7	Green Ground
8	Blue Ground
9	5 VDC
10	Ground
11	Ground
12	SDA (FOR DDC)
13	H. Sync
14	V. Sync
15	SCL (FOR DDC)

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## Plug and Play

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This monitor conforms to the VESA DDC (Display Data Channel) standard, which means that when it is used with a DDC compatible video card, the monitor is easier to set up. With VESA DDC 1/2B, when the monitor is turned on, it will automatically notify a windows 9X/2000/XP host computer of its scanning frequencies, capabilities and characteristics. Windows 9X/2000/XP will automatically recognize the presence of the monitor and select the appropriate display resolution.

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## Visual Inspection

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### Permanently unlit or lit pixels

The standard of production techniques today cannot guarantee an absolutely fault free LCD display. A few isolated permanently lit or unlit pixels may be present. The maximum permitted number of pixel faults is stipulated in the stringent international standard ISO 13406-2 (Class II).

### Example:

**A 17" flat-screen monitor with a resolution of 1280 x 1024 has 1280 x 1024 = 1310720 pixels. Each pixel consists of three subpixels (red, green and blue), so there are about 4 million dots in total.**

According to ISO 13406-2 (Class II), a maximum of 6 pixels and 7 subpixels may be defective, i. e. a total of 25 faulted dots.

## Troubleshooting


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Before consulting service personnel, check the following chart for a possible cause and solution to the trouble you are experiencing.

### ❶ Monitor will not turn on

- Make sure the power cord is plugged in.

### ❷ No picture

- Make sure the power cord is plugged in.
- Check the signal cable connecting the LCD monitor and the computer (refer to page 12).
- Press the  button on the front panel of the monitor.

### ❸ Poor picture or abnormal picture

- Press the **MENU** button to adjust the Brightness Contrast option in the OSD.
- Adjust the Color Select option in the OSD.
- Press the **AUTO** button on the front panel of the monitor, to automatically adjust the display mode.

### ❹ Out of range message appears

- If using Windows 9X/2000/XP, wait a few seconds; once Windows detects the problem, a dialog will appear allowing you to manually set up the video mode according to the preset mode timing chart (refer to page 19).

## Specifications

MODEL		B516	B716	B916
LCD Panel	Panel Size	15" TFT LCD	17" TFT LCD	19" TFT LCD
	Brightness	250	260	280
	Contrast Ratio	500:1	500:1	500:1
	Dot Pitch	0.297mm x 0.297mm	0.264mm x 0.264mm	0.294mm x 0.294mm
Max. Resolution		1024x768	1280x1024	1280x1024
Input Connector		D-SUB	D-SUB	D-SUB
Power Source		AC100-240V, 50-60Hz	AC100-240V, 50-60Hz	AC100-240V, 50-60Hz
Power Consumption		36W	48W	48W
Dimension(WxHxD)		349x335x172 mm	378x382x192 mm	427x416x210 mm

MODEL		LP517	LP717	LP917
LCD Panel	Panel Size	15" TFT LCD	17" TFT LCD	19" TFT LCD
	Brightness	250	260	280
	Contrast Ratio	500:1	500:1	500:1
	Dot Pitch	0.297mm x 0.297mm	0.264mm x 0.264mm	0.294mm x 0.294mm
Max. Resolution		1024x768	1280x1024	1280x1024
Input Connector		D-SUB	D-SUB	D-SUB
Power Source		AC100-240V, 50-60Hz	AC100-240V, 50-60Hz	AC100-240V, 50-60Hz
Power Consumption		36W	48W	48W
Dimension(WxHxD)		349x335x172 mm	378x382x192 mm	427x416x210 mm

Changes are periodically made to this specifications.

Current specifications may also be obtained via the internet, [www.mag.com.tw](http://www.mag.com.tw)