NewCommWorld

NLM155A1

15.1" Color
TFT-LCD Monitor
Operation Manual

Rev. B

NLM155A1

COLOR TFT- LCD Monitor

OPERATION MANUAL

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Safety Precautions

Improper use can result in electric shock and/or fire. In order to prevent potential danger, please observe the following instructions when installing, operating and cleaning the product. To ensure your safety and prolong the service life of your color TFT-LCD monitor product, please read the following precautions carefully before using the product.

* All operating instructions must be read and understood before the product is operated.
*These safety and operating instructions must be kept in safe place for future reference.
*All warnings on the product and in the instructions must be observed closely.
*All operating instructions must be followed.
*Do not use attachments not recommended by the manufacturer. Use of inadequate attachments can result in accidents.
*This product must be operated on a power source specified on the specification label. If you are not sure of the type of power supply used in your home, consult your dealer or local power company. For units designed to operate on batteries or another power source, refer to the operating instructions.
*The power cords must be routed properly to prevent people from stepping on them or objects from resting on them. Check the cords at the plugs and product.
*If you plan to use a 12V DC power supply unit other than the AC adapter supplied with the product, make sure the power supply unit provides stable voltage with minimum fluctuations.
*Do not overload AC outlets or extension cords. Overloading can cause fire or electric shock.
*Never insert an object into the product through vents or openings. High voltage flows in the product, and inserting an object can cause electric shock and/or short internal parts. For the same reason, do not spill water or liquid on the product.
*Do not attempt to service the product yourself. Removing covers can expose you to high voltage and other dangerous conditions. Request a qualified service person to perform servicing.
*If any of the following conditions occurs, unplug the power cord from the AC outlet, and request a qualified service person to perform repairs.
   a. When the power cord or plug in damaged.
   b. When a liquid was spilled on the product or when objects have fallen into the product.
   c. When the product has been exposed to rain or water.
   d. When the product does not operate properly as described in the operating instructions.
      Do not touch the controls other than those described in the operating instructions.
      Improper adjustment of controls not described in the instructions can cause damage,
      which often requires extensive adjustment work by a qualified technician.
   e. When the product has been dropped or damaged.
   f. When the product displays an abnormal condition. Any noticeable abnormality in the product indicates that the product needs servicing.
*In case the product needs replacement parts, make sure that the service person uses placement parts specified by the manufacturer, or those with the same characteristics and performance as the original parts. Use of unauthorized parts can result in fire, electric shock and/or other danger.
*Upon completion of service or repair work, request the service technician to perform safety checks to ensure that the product is in proper operating condition.
*When mounting the product on a wall or ceiling, be sure to install the product according to the method recommended by the manufacturer.

Safety Precautions (Continued)

*Unplug the power cord from the AC outlet before cleaning the product. Use a damp cloth to clean the product. Do not use liquid cleaners or aerosol cleaners.

*Unplug the power cord from the AC outlet if you do not use the product for considerably long time.

*Do not use the product near water, such as bathtub, washbasin, kitchen sink and laundry tub, swimming pool and in a wet basement.

*Keep the product away from direct rays of the Sun-light.

*Do not place the product on an unstable cart, stand, tripod or table. Placing the product on an unstable base can cause the product to fall, resulting in serious personal injuries as well as damage to the product. Use only a cart, stand, tripod, bracket or table recommended by the manufacturer or sold with the product. When mounting the product on a wall, be sure to follow the manufacturer's instruction. Use only the mounting hardware recommended by the manufacturer.

*When relocating the product placed on a cart, it must be moved with the utmost care. Sudden stops, excessive force and uneven floor surface can cause the product to fall from the cart.

*The vents and other openings in the cabinet are designed for ventilation. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a bed, sofa, rug or other similar surface, since they can block ventilation openings. This product is not designed for built-in installation; do not place the product in an enclosed place such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions are followed.

*The LCD panel used in this product is made of glass. Therefore, it can break when the product is dropped or applied with impact. Be careful not to be injured by broken glass pieces in case the LCD panel breaks.

*Keep the product away from heat sources such as radiators, heaters, stoves and other heat-generating products (including amplifiers).

*The LCD Panel is a very high technology product with 2,359,296 thin film transistors, giving you fine picture details. Occasionally, a few non-active pixels may appear on the screen as a fixed point of blue, green or red. Please note that this does not affect the performance of your product.

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International Standards

FCC

CAUTION : Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

CE

EN55022 "Limits and methods of measurement of radio disturbance characteristics of information technology equipment (ITE)"

EN55024 "Information technology equipment - Immunity characteristics - Limits and methods of measurement"

EN61000-3-2 "Limits for harmonic current emissions (equipment input current <= 16A per phase)"

EN61000-3-3 "Limitation of voltage fluctuations and flicker in low-voltage supply system for equipment with rated current <= 16A"
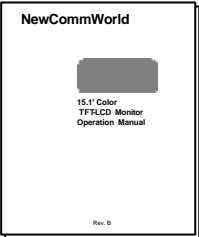
MIC

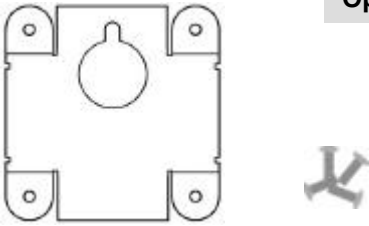**"B" Device**

This product has been passed EMI standard test therefore, it is available for official uses and all other areas (A Device is for official uses only and B Device has less).
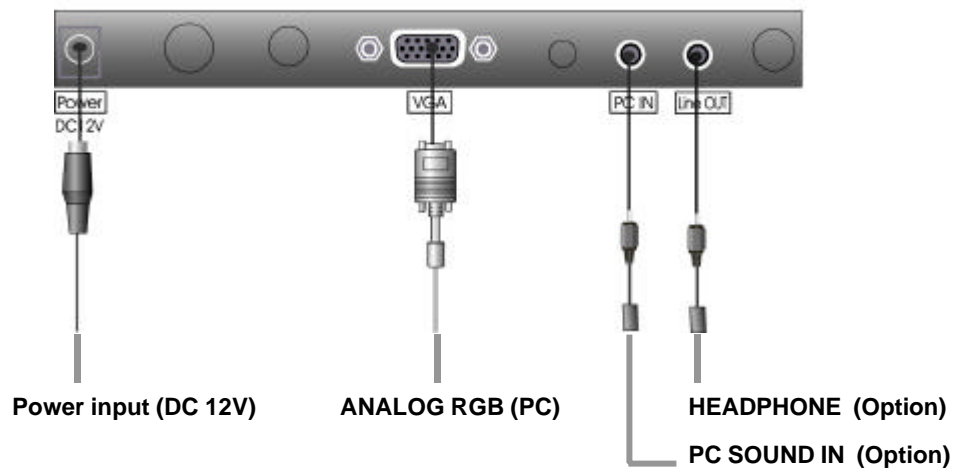
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Supplied Accessories

Please check the following accessories are provided with the product.

NewCommWorld 15.1' Color TFTLCD Monitor Operation Manual Rev. B Operation Manual (x1)	Monitor Driver Diskette (x1)
AC Adapter (x1)	AC Cord (x1)
PC VGA Cable (x1)	**Option** PC Stereo Cable (x1)
Option Wall Mount Bracket (x1) / Screws (x4)	

Preparation

Rear view of main unit (Cable Connection)

| Power | VGA | PC IN | Line OUT |
| DC 12V | | | |

Power input (DC 12V)   **ANALOG RGB (PC)**   **HEADPHONE (Option)**

PC SOUND IN (Option)

1 Turn off all equipments first.

2 Connect the adapter power cord to main power connector.

3 Connect DC output adapter to monitor DC input connector.

4 Connect analog 15-pin VGA cable between PC and monitor.

5 Make sure all the cables and power cord are well connected then, please turn on the power.

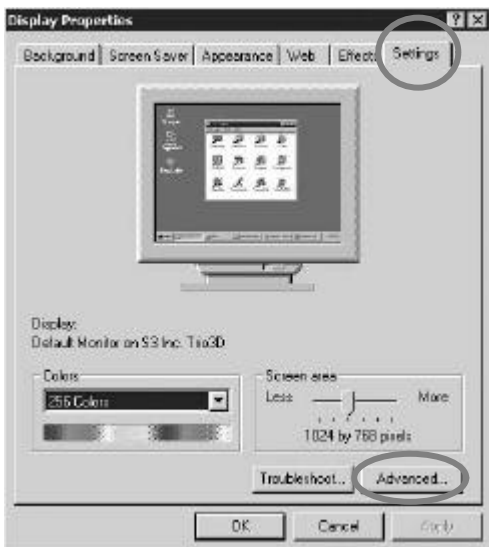**Note:**   **Monitor speaker is option item.**

Monitor Installation

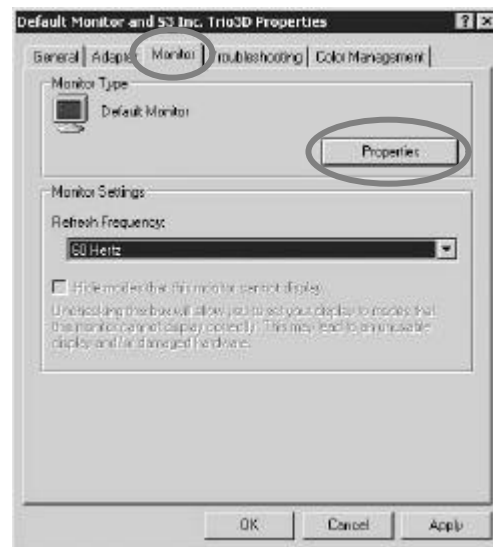**1** Double click **[Control Panel]** icon from [My Computer] folder.

2 Double click **[Display]** icon from [Control Panel] folder.

3 Select **[Settings]** in [Display Properties] window.
4 Click **[Advanced...]**.
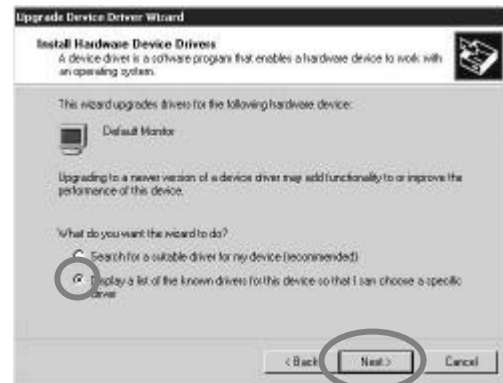

5 Select **[Monitor]** in the window shown above.
6 Click **[Properties]**.

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Monitor Installation (Continued)

7 Select **[Driver]** and then click **[Update Driver...]**.

8 **[Upgrade Device Driver Wizard]** will be appeared. Select the **second list** and then click **[Next>]**.

9 Click **[Have Disk...]**.
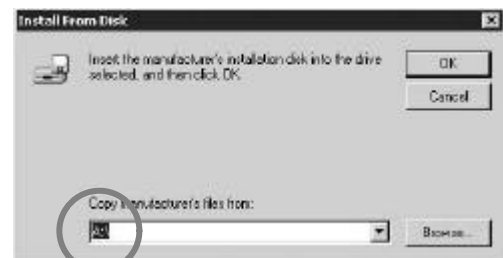
10 Select drive **[A:]**.

Monitor Installation (Continued)

11 Select the file of
NEWCOMMMONITOR.inf .

12 Choose **NEWCOMM NLM155** and then
click **[Next>]**.

13 Click **[Next>]** to start installing the
selected monitor.

14 Click **[Finish]**.
(Be sure the screen shows correct model name.)

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OSD Buttons

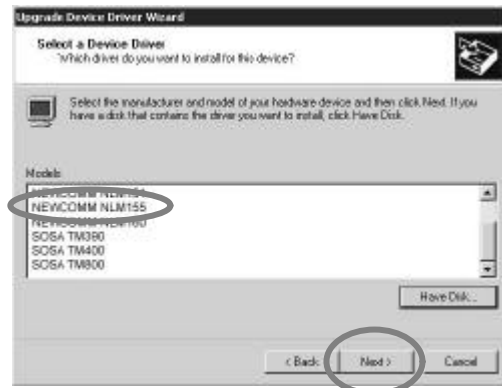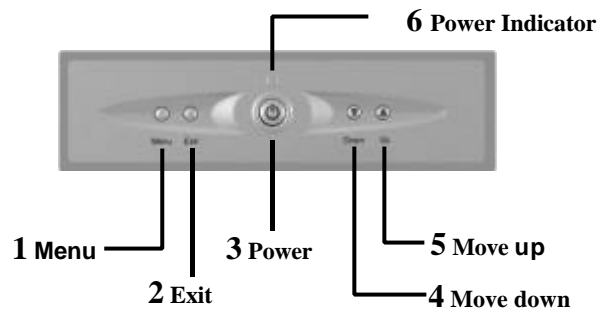## Control Panel on the front of main unit

6 Power Indicator

1 Menu

2 Exit

3 Power

4 Move down

5 Move up

1 MENU : Display the main menu screen and select items.

2 EXIT : Move to the previous menu screen or exit from menu screen.

3 POWER : Monitor power on / off

4 DOWN : Move the cursor down or decrease value.

5 UP : Move the cursor up or increase value.

6 POWER INDICATOR

Power Indicator Status :

Mode	LED	Status
Power off	Off	Off
No signal	Red	Always on
Suspend/Stand-by	Red	Always on
Power on	Green	Always on

Basic OSD Usage

```
                Main  Menu

    ▶ 🎩 Auto Adjust                          ─┐
      🌼 Brightness                            │  Main Menu Items
      ◐ Contrast                               │
      🖼 Setup                                 ─┘
      🔊 Volume
                                              Display Information
                                              1024 x 768 :  Display Resolution
                                                 60 Hz   :  Vertical Frequency
                                                             (Refresh Rate)
      1024  x  768  @  60 Hz  -V1.0-         → BIOS Revision No.
```

```
                Main  Menu

      🎩 Auto Adjust
    ▶ 🌼 Brightness
      ◐ Contrast
      🖼 Setup
      🔊 Volume

                                              → Scroll Bar

      –  [████████████] +  100                → Value
```
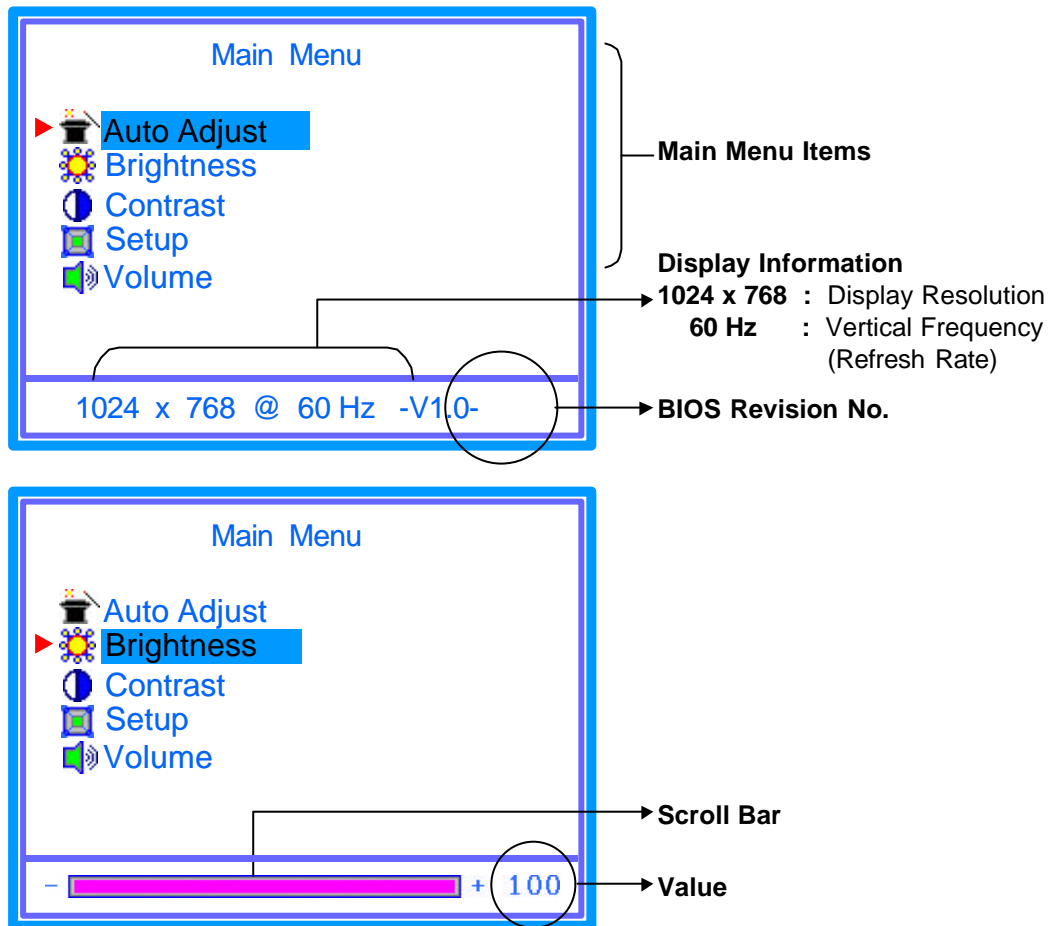
Basic Menu Operation

1 Press the **Menu** button to display the OSD menu screen.

2 Press the button to move the cursor to desired menu item.

3 Press the **Menu** button to select the desired menu item.

4 Press the **Menu** button to select the item then press the button for adjustment.

5 Press the **Exit** button to remove the **Scroll Bar** or to move previous menu screen.

6 Adjusting another item, press the **Exit** button then press the button to move the
   cursor to another desired adjustment items.

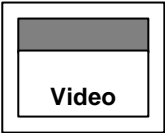**Note:** | **For more detail information of sub-menu and function of main menu items, please refer to page 13~16.**
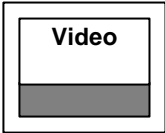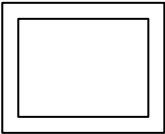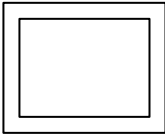
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OSD Operation (Main Menu Items)

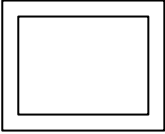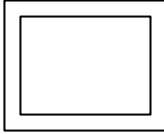| Main Menu	Operation

Auto Adjust	*Select **Auto Adjust** then progress adjustment automatically
	*Automatically adjusted items are bellow
	
	    1) Contrast
	    2) RGB Adjust
	    3) Horizontal Position
	    4) Vertical Position
	    5) Phase
	    6) Clock
	
	If you select "Auto Adjust", you will lose current data settings listed abobe.

Brightness	* Press **MENU** button for scroll bar. * Adjust **Brightness** value by pressing the button.
Contrast	* Press **MENU** button for Scroll bar. * Adjust **Contast** value by pressing the button.
Setup	*** Detail information is shown on the next page.**
Volume (Option)	* Press **MENU** for Scroll bar. * Adjust **Volume** by pressing the button.

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OSD Operation (Setup Menu Items)

Sub-menu name		Operation
Sharpness		*Press **MENU** button for sub-menu screen. *Select **Sharpness** by pressing the button. Sharp : For more clear feature. Medium : Normal feature. Smooth : Show smoother Image with moving feature.

Color	**Color Temp**	*Press **MENU** button for sub-menu screen.
		*Select **Color Temperature** by pressing the button.
		  Normal
		  Cool
		  Medium
		  Warm

	RGB Adjust	*Press **MENU** button for sub-menu screen. *Select Red, Green or Blue by pressing the button. *Press **MENU** button again for scroll bar. *Adjust each Red, Green or Blue color value by pressing the button.
Image Setup Continue to Next Page	**Horizontal Position**	*Press **MENU** button for Scroll bar. *Adjust **Horizontal Position** by pressing the button. Press button : Move left Press button : Move right ideo Vide **Use this option just in the case of having horizontally unmatched picture after operating the "Auto Setup".**

OSD Operation (Setup Menu Items)

Sub-menu name		Operation
Image Setup	**Vertical Position**	*Press **MENU** button for Scroll bar. *Adjust **Vertical Position** of screen by pressing the button. Press button : Move down Press button : Move up Video Video **Please use this option just in the case of having vertically unmatched picture after operating the "Auto Setup".**
	Phase	* If a noise remains on the screen after operating the **"Auto Setup"**, adjust phase value by pressing button. **Do not make manual adjustment when the picture is in its normal shape or you may create a problem on it.**
	Clock	* If the horizontal screen size is abnormal after operating the **"Auto Setup"**, adjust horizontal size by pressing button, **Please use this option just in the case of having horizontally unmatched picture after operating the "Auto Setup".**
OSD Setup **Continue to Next Page**	**Horizontal Position**	*Adjust the **Horizontal Position** of OSD menu screen Press button : Move left the OSD menu box Press button : Move right the OSD menu box

OSD Operation (Setup Menu Items)

Sub-menu name	Operation	
OSD Setup	**Vertical Position**	*Adjust the **Vertical Position** of OSD menu screen Press button : Move down the OSD menu box Press button : Move up the OSD menu box
	Trans-parency	*Adjust the **Transparency** of OSD menu screen Press button : Translucent Press button : Opaque
	Duration Time	*The range of controlling the **Duration time** of the OSD menu is from 5 sec. up to 100 sec.. Default setting is 10 sec..
Language	* Select the **Language** of the OSD menu. Korean English	
Factory Presets	* All data is set as **Factory Default** **If you select "Factory Presets", you will lose all current data settings.**	

Before calling for repair service...

*Before calling for repair service, check the following items for possible remedies to the encountered symptoms.

Problem	Check below	Reference Pages
There is no picture	• Make sure the AC adapter is properly inserted in the power outlet. • Make sure the main power button of the main unit is on. • Make sure the signal cable is free of connections. • Make sure whether the power of an external input device is on. • Make sure the display mode is set to proper mode. • Fluorescent lamp may have reached the end of service life.	7 11 7 18 18
There is no sound	• Make sure the sound cable is free of connections. • Make sure whether the power of an external input device is on.	7
Picture is not clear	• Operate the Auto Adjust. • Adjust the Phase and the Clock.	13 15

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Specifications

Color TFT-LCD Monitor

Resolution		1024 * 768, XGA
Color	Standard Color	262,144 Colors
	Max, color (Dithering)	Full Color
Brightness		200 cd/m^2(nit)
Lamp life		25,000 hours
Contrast Ratio		200 : 1
Viewing Angle		H : 120 V : 90
Panel	Type	Amorphous Si TFT-LCD
	Actual Display Size	307.2 * 230.4 mm
	Diagonal Length	15.1, 383.5 mm
PC Signal (Analog RGB)	H-Frequency	30~60KHz
	V-Frequency	56~75Hz
	Signal Level	0.7Vp-p
Power Voltage		AC100~240V, 50/60Hz, DC12V
Power Consumption	Standard	Typ. 30Watt
	Power Save Mode	Max. 5 Watt
Speaker		2 Watt x 2
Size	W*H*D mm	406 x 411 x 78.5 mm
Weight		5.5Kg w/o accessories

VGA Input Signal

Resolution	V-Frequency (Hz)	H-Frequency (KHz)	Pixel Rate (MHz)	Standard Type	Remark
640 x 350	85	37.9	31.500	VESA Standard	DOS
640 x 400	85	37.9	31.500	VESA Standard	
720 x 400	85	37.9	35.500	VESA Standard	
640 x 480	60	31.5	25.175	Industry Standard	VGA
	72	37.9	31.500	VESA Standard	
	75	37.5	31.500	VESA Standard	
800 x 600	56	35.1	36.000	VESA Guidelines	SVGA
	60	37.9	40.000	VESA Guidelines	
	72	48.1	50.000	VESA Standard	
	75	46.9	49.500	VESA Standard	
1024 x 768	60	48.4	65.000	VESA Guidelines	XGA
	70	56.5	75.000	VESA Standard	
	75	60.0	78.750	VESA Standard	

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Warranty Card

This warranty card will not be issued, please keep this manual.

Product Purchase Date Customer Name Seller	**NLM155A1** Name Address Phone

NewCommWorld Co., Ltd or seller warrants NLM155A1, if it is properly installed and used, it will be free from defects in material and workmanship and will substantially conform to NewCommWorld's publicly available specifications for a period of one (1) year after the date of the NLM155A1 purchased (whether purchased separately or as a part of a computer system). If the NLM155A1 which is the subject of the warranty fails during the warranty period for reasons covered by this warranty, NewCommWorld Co., Ltd or seller will repair the NLM155A1 by means of hardware and/of firmware, or if NewCommWorld Co., Ltd or seller is unable to repair it replace faulty NLM155A1 with another one.

Customer Service

*homepage : http//www.newcommworld.co.kr
*Download the Monitor install file from our website if you need it again.
*Please refer to the database of our website for more information.

Contact

*Head Office
  328-5, Songnae-dong, Sosa-gu, Puchon-city, Kyunggi-do, 422-042, Korea
  Phone : 82-32-661-8848   Fax : 82-32-652-8785