





SyncMaster 460Pn/460P





• This may cause an electric shock or fire.



Do not pull the plug out by the wire nor touch the plug with wet hands.

• This may cause an electric shock or fire.



Use only a properly grounded plug and receptacle.

• An improper ground may cause electric shock or equipment damage.



- Insert the power plug firmly so that it does not come loose.
 - A bad connection may cause fire.



Do not excessively bend the plug and wire nor place heavy objects upon them, which could cause damage.

• This may cause an electric shock or fire.



Do not connect too many extension cords or plugs to an outlet.

• This may cause fire.



Others

Installation



Be sure to contact an authorized Service Center, when installing your monitor in a location with the heavy dust, high or low temperatures, high humidity, chemical substance and where it operates for 24 hours such as the airport, the train station or etc.

Failure to do so may cause a serious damage to your monitor.



Put your monitor in a location with low humidity and a minimum of dust.

• Failure to do so may cause an electric shock or fire inside the monitor.

Do not drop the monitor when moving it.



• This may cause damage to the product or human body.



- Install the monitor base in a showcase or shelf so that the end of the base does not protrude from the showcase or shelf.
 - Dropping the product may cause damage to the product or personal injury.

Do not place the product on an unstable or small surface area.

• Place the product on an even, stable surface, as the product may fall and cause harm to someone walking by, specifically children.



Do not place the product on the floor.

• Someone, specifically children could trip over it.



- Keep any flammable objects such as candles, insecticides or cigarettes away from the product.
 - Otherwise, this may cause a fire.



- Keep any heating devices away from the power cable.
 - A melted coating may lead to electric shock or fire.



- Do not install the product in places with poor ventilation, for instance, a bookshelf, closet, etc.
 - Any increase in internal temperature may cause fire.



- Set down the monitor carefully.
 - The monitor could be damaged or broken.

Do not place the monitor face down.



• The TFT-LCD surface may be damaged.



Installing a wall bracket must be done by a qualified professional.

- Installation by ungualified personnel may result in injury.
- Always use the mounting device specified in the owner's manual.



 Do not use any chemicals such as wax, benzene, alcohol, thinners, insecticide, air freshener, lubricant or detergent.



Contact the Service Center or Customer Center for interior cleaning once a year.

• Keep the product's interior clean. Dust which has accumulated in the interior over an extended period of time may cause malfunction or fire.



• This may cause a breakdown, electric shock or fire due to damage to the cable.



Do not cover the vents on the monitor cabinet.

• Bad ventilation may cause a breakdown or fire.



Do not place water containers, chemical products or small metal objects on the monitor.

- This may cause malfunction, an electric shock or fire.
- If a foreign substance enters the monitor, unplug the power cord and contact the Service Center.



Keep the product away from combustible chemical sprays or inflammable substances.

• This may cause an explosion or fire.

Never insert anything metallic into the monitor openings.

• This may cause an electric shock, fire or injury.



Do not insert metal objects such as chopsticks, wire and gimlet or inflammable objects such as paper and match into the vent, headphone port or AV ports.

 It may cause a fire or an electric shock. If an alien substances or water flows into the product, turn the product off, unplug the power connector from the wall outlet and contact Service Center.



- If you view a fixed screen for an extended period of time, residual image or blurriness may appear.
 - Change the mode to energy save or set a screensaver to moving picture when you need to be away from the monitor for an extended period of time.





Inappropriate resolution may cause undesirable picture quality.

46 inch - 1360 X 768



Watching the monitor continuously at a too close angle may result in eyesight damage.



To ease eye strain, take at least a five-minute break after every hour of using the monitor.



Do not install the product on an unstable, uneven surface or a location prone to vibrations.

• Dropping the product may cause damage to the product or personal injury. Using the product in a location prone to vibrations may shorten the lifetime of the product or may catch fire.



When moving the monitor, turn off and unplug the power cord. Make sure that all cables, including the antenna cable and cables connecting to other devices, are disconnected before moving the monitor.

- Failure to disconnect cables may damage it and lead to fire or an electric shock.
- Make sure there are more than two people when moving the product.
 - Dropping the product may cause a malfunction or physical damage.



- Place the product out of children's reach, as they could damage it by hanging onto it.
 - A falling product could cause physical damage even death.



- When not using the product for an extended time period, keep the product unplugged.
 - Otherwise, this may cause heat emission from the accumulated dirt or degraded insulation, leading to electric shock or fire.



- Do not place children's favorite objects (or anything else that may be tempting) on the product.
 - Children may try to climb on the product to retrieve an object. The product could fall, causing physical damage or even death.



- When you remove batteries from the remote, be careful that they are not swallowed by children. Keep batteries out of the reach of children.
 - If swallowed, see a doctor immediately.



- When replacing batteries, place the batteries in the correct +/- polarity position as indicated on battery holder.
 - Incorrect polarity may cause a battery to break or leak and could lead to fire, injury, or contamination (damage).



- Use only specified standard batteries. Do not use new and used batteries together.
 - This may cause a battery to break or leak and could lead to fire, injury, or contamination (damage).



- The battery (and rechargeable battery) are not ordinary refuse and must be returned for recycling purposes. The customer is responsible for returning the used or rechargeable battery for recycling purposes as the consumer of the battery.
 - The customer can return the used or rechargeable battery to a nearby

public recycling center or to a store selling the same type of the battery or rechargeable battery.



SyncMaster 460Pn



Monitor

Manual





Quick Setup Guide

Warranty Card (Not available in all locations)



User's Guide, MDC software, Natural Color software, MagicNet software



D-Sub Cable

Power Cord

Speaker Wire Cable

Sold separately







Wall Mount KIT

Speaker Set

Stand KIT



DVI Cable



LAN Cable

Others



Remote Control



BNC to RCA Adapter Jack



Batteries (AAA X 2)

Semi Stand



Cover-Hole





- 2. Navigate button (Up-Down button)
- 7. Power button 8. Power indicator
- 3. Adjust button (Left-Right button)/ Volume button 4. ENTER
- 9. Remote Control Sensor

- 5. SOURCE
 - 1. MENU

Use this button to open the on-screen menu and exit from the menu screen or close screen adjustment menu.

- 2. Navigate buttons (Up-Down button) Moves from one menu item to another vertically or adjusts selected menu values.
- 3. Adjust buttons (Left-Right button) / Volume buttons Moves from one menu item to another horizontally or adjusts selected menu values. Adjusts the audio volume.
- 4. ENTER

Activates a highlighted menu item.

5. SOURCE

Switches from PC mode to Video mode. Changing the source is allowed only in external devices that are connected to the monitor at the time.

To switch Screen modes:

 $[\mathsf{PC}] \twoheadrightarrow [\mathsf{BNC}] \twoheadrightarrow [\mathsf{DVI}] \twoheadrightarrow [\mathsf{AV}] \twoheadrightarrow [\mathsf{S}\text{-}\mathsf{VIDEO}] \twoheadrightarrow [\mathsf{Component}] \twoheadrightarrow [\mathsf{MagicNet}]$ >>Click here to see an animation clip

6. PIP

Push the PIP button to turn PIP screen On/Off.

More than one PIP couldn't be overlapped on screen as BNC and the component use the same terminal.

>>Click here to see an animation clip

• PC / DVI

- : AV / S-Video / Component Mode
- BNC
- : AV / S-Video Mode
- AV / S-Video
- : PC / BNC / DVI Mode
- Component
- : PC / DVI Mode
- 7. Power button

Use this button to turn the monitor on and off.

8. Power indicator Power Indicator shows PowerSaver mode by green blinking.

9. Remote Control Sensor

Aim the remote control towards this spot on the Monitor.



See PowerSaver described in the manual for further information regarding power saving functions. For energy conservation, turn your monitor OFF when it is not needed or when leaving it unattended



C Rear



For detailed information concerning cable connections, refer to Connecting Cables under Setup. The monitor's rear configuration may vary slightly depending on the monitor model.





- 1. **POWER SW :** Switch the monitor on and off.
- 2. **POWER IN :** Power cord, plug into monitor and wall receptacle.

- 3. RS232C OUT/IN (RS232C Serial PORT): MDC(Multiple Display Control) Program Port
- 4. DVI IN(HDCP) (PC Video Connection Terminal) : Using DVI Cable (DVI-D to DVI-D) - DVI mode (Digital PC)
- 5. PC IN(RGB) (PC Video Connection Terminal) : Using D-Sub Cable (15 pin D-Sub) - PC mode (Analog PC)
- 6. PC/DVI/BNC AUDIO IN (PC/DVI/BNC Audio Connection Terminal (Input))



- 7. COMPONENT AUDIO IN [L-AUDIO-R](Component Audio Connection Terminal (Input))
- BNC/COMPONENT OUT (BNC/Component Connection Terminal (Output))

 BNC (Analog PC) Connection : connecting R, G, B, H, V port
 Component Connection : connecting PR, Y, PBport
- 9. BNC/COMPONENT IN (BNC/Component Connection Terminal (Input))



- 10. AV AUDIO IN [L-AUDIO-R](Monitor Audio Connection Terminal (Input))
- 11. AV OUT [VIDEO](VIDEO Connection Terminal) : AV mode (Output)
- 12. AV IN [VIDEO](VIDEO Connection Terminal) (Input)
- 13. AV OUT [S-VIDEO](S-Video Connection Terminal) : S-Video mode (Output)
- 14. AV IN [S-VIDEO](S-Video Connection Terminal) (Input)
- 15. EXT SPEAKER(8 Ω) (EXT Speaker Connection Terminal)
- 16. MONITOR OUT [L-AUDIO-R](Monitor Audio Connection Terminal (Output)) - MONITOR OUT is the terminal for sound output of PC, DVI or BNC.



The number of monitors that can be connected to loopout may be different under the circumstance such as cable, signal source, etc.
With a cable which there is no degradation or signal source ten monitors can be connected.



- 17. LAN (LAN Connection Terminal) (MS Internet Explorer)
- 18. USB (USB Connection Terminal) (Keyboard / Mouse, Mass Storage Device Compatible.)
- 19. DIGITAL AUDIO OUT (Digital Audio Connection Terminal)



20. Kensington Lock

The Kensington lock is a device used to physically fix the system when using it in a public place. (The locking device has to be purchased separately.) For using a locking device, contact where you purchase it.



See Connecting the Monitor for further information regarding cable connections.



Rear

Remote Control Mechanical Lay-out:

Remote Control

The performance of the remote control may be affected by a TV or other electronic devices operated near the monitor, causing malfunction due to interference with frequency.

Front



1. ON / OFF

Use these buttons to turn the monitor on or off.

2. MAGICNET

MagicNet Quick Launch Button.

3. MDC

MDC Quick Launch Button.

4. LOCK

This button will activate or deactivate all function keys on both the remote control and the monitor except for the Power and LOCK buttons.

5. MagicNet buttons

- Used for MagicNet.

- Alphanumeric: Used to enter the Internet address.
- DEL : Functions as the backspace.
- SYMBOL : Used to enter the symbols. (.O_-:/)
- ENTER : Used to enter values.

6. +100

Press to select channels over 100. For example, to select channel 121, press "+100", then press "2" and "1".

- This fuction does not work for this monitor.

7. VOL

Adjusts the audio volume. >>Click here to see an animation clip

8. MUTE

Pauses (mutes) the audio output temporarily. Displayed on the lower left corner of the screen. The audio resumes if MUTE or - VOL + is pressed in the Mute mode.

9. AUTO

Adjusts the screen display automatically. If you change resolution in the control panel, auto function will be executed.

10. MENU

Use this button to open the on-screen menu and exit from the menu screen or close screen adjustment menu.

11. ENTER

Activate a highlighted menu item.

12. PRE-CH

This button is used to return to the immediately previous channel. - This fuction does not work for this monitor.

13. CH/PAGE

Selects channels or page.

- This fuction does not work for this monitor.

14. SOURCE

Push this button to change video sources.

15. INFO

Current picture information displays on the upper left corner of the screen.

16. EXIT

Exits from the menu screen.

17. Up-Down Left-Right buttons

Moves from one menu item to another horizontally, vertically or adjusts selected menu values.

18. P.MODE (M/B)

When you press this button, current picture mode is displayed on the lower center of the screen.

AV / S-Video / Component : P.MODE

The Monitor has four automatic picture settings that are preset at the factory. Then push button again to circle through available preconfigured modes. (Dynamic → Standard → Movie → Custom)

PC/DVI/BNC : M/B (MagicBright[™])

MagicBright[™] is a new feature providing the optimum viewing environment depending on the contents of the image you are watching. Then push button again to circle through available preconfigured modes. (Entertain → Internet → Text → Custom)

19. STILL

When you press this button, STILL is displayed on the lower center of the screen. Press the button once to freeze the screen. Press it again to unfreeze.

20. BBE

Recreates the natural sound and improves sound clarity through boosting high and low range frequencies. As a result high sounds are clearer, brilliant and finely detailed while low sounds are tight, well-defined and harmonically rich.

21. MTS

You can select the MTS (Multichannel Television Stereo) mode.

	Audio Type	MTS/S_Mode	Default
	Mono	Mono	Manual Change
FM Stereo	Stereo	Mono 🖶 Stereo	Manual Change
	SAP	Mono ⊮⊫ SAP	Mono

- This fuction does not work for this monitor.

22. PIP

Every time you push the button, a PIP screen appears.

23. SOURCE

The PIP window's signal source changes.

24. SIZE

You can switch the Picture Size.

25. SWAP

Swapping the contents of the PIP and main image. The image in the PIP window will appear on the main screen, and the main screen image will appear in the PIP window.

26. 🖛

Rewind

27. 🔳

Stop

28. 🛏

Play/Pause

29. 🛏

Fast forward

Remote Control

🛃 РНОТО

- When the files are selected in the library list
 Previous file
 Stop slideshow / View the bottom menu bar
 Il Slideshow
 Next file
 - When you see no menu in a zoomed-in picture



🛃 MUSIC

►II	File view on the cursor position / Play / Pause during playback
•	Stop playing
44	Play in 5 seconds
*	Play 5 seconds earlier



🛃 MOVIE

When the files a	are selected in the library list	
		Move to the top (when the cursor is placed at the top, it will go back to the last file of the previous page)
	\bigcirc	Move to the bottom (when the cursor is placed at the bottom, it will move to the first file of the next page)
	۲	Move to the next page (when the current page is the first, it will move to the last page)
	۲	Move to the previous page (when the current page is the last, it will move to the first page)
	Parts	File view on the cursor position Play

	►II	Play / Pause during playback
10 000	•	Stop playing
10000 10000	44	Play 5 seconds earlier
0000	44	Play in 5 seconds

🛃 OFFICE

• When the files ar	re selected in the library list	
	\bigcirc	Move to the top (when the cursor is placed at the top, it will go back to the last file of the previous page)
	\mathcal{O}	Move to the bottom (when the cursor is placed at the bottom, it will move to the first file of the next page)
		Move to the next page (when the current page is the first, it will move to the last page)



PDF

Move to the top Move to the bottom Move to the next page
Move to the next page
Move to the previous page
Exit PDF

Excel Move to the upper cell \sim Move to the lower cell Move to the left cell Move to the right cell ۲ Move to the next page 0 Move to the previous page 0000 Move to the right sheet ► Move to the left sheet EXIT Exit Excel

Power point Norn	nal	
	\bigcirc	Move to the top
-	^O	Move to the previous page

		Move to the next page
	۲	Move to the previous page
880°	►II	Slideshow
	EXIT ⊣∎	Exit Power point

Power point Slideshow

VO DHMAN	•	Stop slideshow
	\bigcirc	Move to the top
0000	U	Move to the bottom
	۲	Move to the next page
	۲	Move to the previous page
	EXIT 	Exit Power point

	Word
•	woru

• Word		
		Move to the top
		Move to the bottom
	۲	Move to the next page
0000	۲	Move to the previous page
	EXIT 🏳	Exit Word

HTML / Ineternet				
		Move the mouse cursor up		
	^o	Move the mouse cursor down		
	C	Move the mouse cursor to the left		
	\mathfrak{O}	Move the mouse cursor to the right		





SyncMaster 460P





This stand is not for the Floor Standing Type.

Unpacking



Monitor

Manual





Quick Setup Guide





User's Guide, MDC software, Natural Color software

Cable



D-Sub Cable

Power Cord



```
Sold separately
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Stand KIT



Wall Mount KIT

DVI Cable

Others



Unpacking Front Rear Remote Control Mechanical Lay-out:





- 2. Navigate button (Up-Down button)
- Power button
 Power indicator
- 3. Adjust button (Left-Right button)/ Volume button
- 9. Remote Control Sensor

- 4. ENTER
- 5. SOURCE
 - 1. MENU Use this button to open the on-screen menu and exit from the menu screen or close screen adjustment menu.
 - 2. Navigate buttons (Up-Down button) Moves from one menu item to another vertically or adjusts selected menu values.
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 - 4. ENTER

Activates a highlighted menu item.

5. SOURCE

Switches from PC mode to Video mode. Changing the source is allowed only in external devices that are connected to the monitor at the time. To switch Screen modes: [PC] → [BNC] → [DVI] → [AV] → [S-VIDEO] → [Component] >>Click here to see an animation clip

6. PIP

Push the PIP button to turn PIP screen On/Off. More than one PIP couldn't be overlapped on screen as BNC and the component use the same terminal. >>Click here to see an animation clip

• PC / DVI

- : AV / S-Video / Component Mode
- BNC
- : AV / S-Video Mode
- AV / S-Video
- : PC / BNC / DVI Mode
- Component
- : PC / DVI Mode
- 7. Power button

Use this button to turn the monitor on and off.

8. Power indicator Power Indicator shows PowerSaver mode by green blinking.

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Aim the remote control towards this spot on the Monitor.



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MagicNet Quick Launch Button.

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Adjusts the audio volume. >>Click here to see an animation clip

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	Stereo	Mono 🖶 Stereo	
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26. 🖛

Rewind

27. 🔳

Stop

28. 🛏

Play/Pause

29.

Fast forward

1. Mechanical Lay-out



2. Monitor Head





▲ Up

4. Speaker



▲ Up

5. Installation VESA Bracket

- When installing VESA, make sure to comply with the international VESA standards.
 Purchasing VESA Bracket and Installation Information : Please contact your nearest Samsung Distributor to place an order. After your order is placed, installation professionals will visit you and install the bracket.
- At least 2 persons are needed in order to move the LCD Monitor.
 Samsung is not responsible for any product damage or any injury caused by installation at customer's discretion.



200.0 x 3 (VESA MOUNT)



For securing the bracket on a wall, use only machine screws of 6 mm diameter and 8 to 12 mm length.

▲ Up

6. Wall Bracket Installation

- Contact a technician for installing the wall bracket.
- Samsung Electronics is not responsible for any damages to the product or harm to customers when the ٠ installation is done by the customer.
- This product is for installing on cement walls. The product may not stay in place when installed on plaster or wood.

Components

Only use the components and accessories shipped with the product.





Insert and tighten the Captive Screw in the direction of the arrow. When done, mount the wall bracket on the wall.

- A. Captive Screw
- B. Wall Bracket
- C. Hinge (Left) D. Hinge (Right)



There are two hinges(left and right). Use the correct one.



Before drilling into the wall, check if the length between the two locking holes at the back of the product is correct. If the length is too short or long, loosen all or

some of the 4screws on the wall bracket to adjust the length.

A. Length between the two locking holes

Check the installation diagram and mark the drill points on the wall. Use the 5.0 mm bit to drill holes deeper than 35 mm. Fix each anchor in the corresponding hole.

corresponding hole. Match each of the brackets and hinge holes to the corresponding anchor holes and insert and tighten the 11 screws **A**.

To mount the product on the wall bracket

The shape of the product may vary depending on the model. (The assemblies of the plastic hanger and the screw are the same)



Remove the 4 screws on the back of the product.

Insert the screw **B** into the plastic hanger.

- Be careful when installing the product on the 2. bracket as fingers can be caught in the holes.
- 3. Make sure the wall bracket is securely fixed to the wall, or the product may not stay in place after installation.



Remove safety pin (3) and insert the 4 product holders into the corresponding bracket holes (1). Then place the product(2) so that it is firmly fixed to the bracket. Make sure to re-insert and tighten the safety pin (3) to securely hold the product to the bracket.

A. Monitor B. Wall Bracket

Wall Bracket Angle Adjustment

Adjust the bracket angle to -2° before installing it on the wall.


- Fix the product to the wall bracket.
 Hold the product at the top in the center and pull it forward (direction of the arrow) to adjust the angle.
 You can adjust the bracket angle between -2°and 15°.

▲ Up



Make sure to use the top center, and not the leftor the right side of the product to adjust the angle.

SyncMaster 460Pn





Installing Stand Kit



Only the supplied bolts should be used.

Samsung Electronics will not be responsible for damages caused by using a base other than those specified.

1. Installing the Semi Stand



1. A 'Cover-Protector' is used to protect the hole at the bottom of the monitor, where the stand is inserted. Be sure to remove the 'Cover-Protector' when attaching the provided Semi Stand or stand kit (sold separately) and cover the hole using the 'Cover-Hole' when attaching the wall mount kit.

- 2. Set up the left and right stands respectively.
- Put the stand into the hole at the bottom of the monitor. Insert screw into the hole indicated and tighten. (M4 × L15)

This stand is originally designed for the adjustment of the screen angle. And the company is not responsible for any problem caused by any use of this stand. Do never use the product as a stand on which something is placed.

2. Installing Stand Kit (sold separately)



- 1. A 'Cover-Protector' is used to protect the hole at the bottom of the monitor, where the stand is inserted. Be sure to remove the 'Cover-Protector' when attaching the provided Semi Stand or stand kit (sold separately) and cover the hole using the 'Cover-Hole' when attaching the wall mount kit.
- 2. Make sure you put the parts in the right direction and in the right place. (M4 × L15)
- 3. Put the stand into the hole at the bottom of the monitor.
- 4. Insert screw into the hole indicated and tighten. (M4 × L15)



AV input devices like DVDs, VCRs or Camcorders as well as your computer may be connected to the monitor. For detailed information on connecting AV input devices, refer to User Controls under

Adjusting Your Monitor.

Connecting to a Computer | Connecting to a VCR | Connecting to a DVD Player | Connecting a Camcorder Connecting DTV Set Top Box | Connecting Speakers | Connecting to an Audio System Connecting the LAN Cable | Connecting USB | Connecting the Digital Audio System

1. Connecting to a Computer



- 1. Connect the power cord for your monitor to the power port on the back of the monitor. Trun on power switch.
- 2. There are 3 ways to connect the signal cable to your monitor. Choose one of the followings :
 - 2-1. Using the D-sub (Analog) connector on the video card. Connect the signal cable to the 15-pin, RGB port on the back of your monitor.



2-2. Using the DVI (Digital) connector on the video card. Connect the DVI Cable to the DVI(HDCP) port on the back of your monitor.



2-3. Using the BNC (Analog) connector on the video card.
 Connect the BNC Cable to the BNC/COMPONENT IN - R, G, B, H, V port on the back of your Monitor and the 15 pin D-sub Port on the computer.





DVI cable or BNC cable is optional.

- 3. Connect the audio cable for your monitor to the audio port on the back of your computer.
- 4. Turn on both your computer and the monitor.



Contact a local Samsung Electronics Service Center to buy optional items.

2. Connecting to a VCR



1. AV input devices like VCRs or Camcorders are connected to the AV IN [VIDEO] or AV IN [S-VIDEO] of the monitor using the S-VHS or BNC cable.



S-VHS or BNC cable is optional.

- 2. Connect the Audio (L) and Audio (R) terminals of a VCR or Camcorders to the monitor's AV AUDIO IN [L-AUDIO-R] using audio cables.
- 3. Select **AV** or **S-Video** that is connected to a VCR or Camcorders using the Source button on the monitor's front or remote control.
- 4. Then, start the VCR or Camcorders with a tape inserted.
 - 3. Connecting to a DVD Player



- 1. Connect a set of audio cables between the **COMPONENT AUDIO IN [L-AUDIO-R]** on the Monitor and the AUDIO OUT jacks on the DVD player.
- Connect a Component cable between the BNC/COMPONENT IN PR, Y, Pв port on the Monitor and the PR, Y, Pв jacks on the DVD player.



Component cable is optional.

- 3. Select **Component** that is connected to a DVD player using the Source button on the monitor's front or remote control.
- 4. Then, start the DVD Player with a DVD disc inserted.

For an explanation of Component video, see your DVD player owner's manual.

4. Connecting a Camcorder



 Locate the A/V output jacks on the camcorder. They are usually found on the side or back of the camcorder.
 Connect a set of audio cables between the AUDIO OUTPUT jacks on the camcorder and the

COMPONENT AUDIO IN [L-AUDIO-R] on the Monitor.

- 2. Connect a video cable between the VIDEO OUTPUT jack on the camcorder and the AV IN [VIDEO] on the Monitor.
- 3. Select **AV** that is connected to a Camcorder using the Source button on the monitor's front or remote control.
- 4. Then, start the Camcorders with a tape inserted.



The audio-video cables shown here are usually included with a Camcorder. (If not, check your local electronics store.) If your camcorder is stereo, you need to connect a set of two cables.

5. Connecting DTV Set Top Box

The connections for a typical Set Top Box are shown below.



- 1. Connect a set of audio cables between the **COMPONENT AUDIO IN [L-AUDIO-R]** on the Monitor and the AUDIO OUT jacks on the Set Top Box.
- 2. Connect a Component cable between the **BNC/COMPONENT IN PR, Y, PB port** on the Monitor and the PR, Y, PB jacks on the Set Top Box.
- 3. Select **Component** that is connected to a DTV Set Top Box using the Source button on the monitor's front or remote control.

For an explanation of Component video, see your Set Top Box owner's manual.

6. Connecting Speakers

1. Tighten the SET and the speaker using the screws.



- * Mount the set of the speaker without the speaker stand.
- 2. Connect the speaker connection cable between the speaker connection jack on the rear of the SET and the speaker connection jack on the rear of the speaker.





Do not move the SET holding the speaker when the SET is connected to the speaker. The speaker-bracket for connecting the SET speaker my be damaged.



1. Connect a set of audio cables between the AUX L, R jacks on the AUDIO SYSTEM and the **MONITOR OUT [L-AUDIO-R]** on the Monitor.

8. Connecting the LAN Cable



1. Connect the LAN cable.



1. You can connect to USB devices such as a mouse or keyboard.

10. Connecting the Digital Audio System



1. Connect a set of digital audio cables between the Digital Audio Input jacks on the DIGTAL AUDIO SYSTEM and the **DIGITAL AUDIO OUT** on the Monitor.

Installing Stand Kit Connecting the Monitor MDC Natural Color MDC System

- 1. Introduction
- 2. Beginning :
- Main Screen | Port Setting | 3. Power Control
- Power Control
 Input Source Control
- Image Size Control : PC, BNC, DVI | AV, S-Video, Component, DVI(HDCP)
- AV, S-Video, Component, DVI(H
- 1. Introduction

- 6. Time Control
- 7. PIP Control :
- PIP Size | PIP Source
- 8. Settings Control :
- Picture | Picture PC | Audio | Image Lock |
- 9 Maintenance Control Lamp Control
- 10. Maintenance Control Scroll
- 11. Maintenance Control Video Wall
- 12. Troubleshooting
- 13. Settings Value Display In Multiple Display Mode



A Multiple Display Control (MDC) is an application allowing various displays to be easily and simultaneously operated on a PC. RS-232C, a standard of serial communication, is used for the communication between a PC and a display. Therefore, a serial cable should be connected between the serial port on a PC and the serial port on a display.

2. Main Screen

- Click Start > Program > Multiple Display Control to start the program.
- Select a set to see the volume of the selected set within the slider.

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2 Rem 3 Safet	ocon ty Lock		6 Info	Grid lay Selection
	Selection			rol Tools

- 1. Use the main icons to switch into each screen.
- 2. Allows you to enable or disable the remote control signal receiving function of the display unit.
- 3. The setting for the PC Serial Port can change. The original value is COM1.
- 4. Sets the Lock Function.
- 5. Click Select all or Clear to select or clear all displays.
- 6. Use Grid to view brief information on selected display.
- 7. Select a display from Display Selection.
- 8. Use Control Tools to control displays.

The remote control Enable/Disable function operates whether or not the power is On/Off, and this applies to all displays connected to the displays connected to the MDC However, regardless of the status at the time the MDC is shut down, the remote control signal receiving function of all displays is initialized to Enable when the MDC is closed.

2. Beginning - Port Setting

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- 1. Multiple Display Control is originally set to COM1.
- 2. If any port other than COM1 is used, COM1 to COM4 can be selected in Port Selection Menu.
- 3. If the exact port name which is connected to the monitor using a serial cable is not selected, communication will not be unavailable.
- 4. The selected port is stored in the program and used for the next program as well.

3. Power Control

1. Click Power Control of the main icons and the Power Control screen appears.



► Info Grid shows some basic information necessary to Power Control.

- 1) Power Status
- 2) Input Source
- 3) Image Size
- 4) On Timer Status
- 5) Off Timer Status
- 2. Use the Select All button or Check Box to choose a display to control.

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- ▶ Power Control allows controlling some of the functions of the selected display.
- 1) Power On/Off
 - Turns the power of the selected display On/Off.
- 2) Volume Control
 - Controls the volume level of the selected display.

It receives the volume value of the selected display from the sets and displays it in the slider.

- (When you cancel the selection or choose Select All, the value returns to the default value 10)
- 3) Mute On/Off
 - Enables/disables the Mute function of the selected display.
 - When selecting one set at a time, enable Mute when the Mute function is enabled for the selected set. The Mute function is disabled automatically when you adjust the volume level.
 - (The values return to the default settings when you undo the selections or choose "Select All.")
- = The Power Control feature is available for all displays.
- The Volume Control and Mute features are available only for the displays whose power status is ON.

4. Input Source Control

1. Click Input Source of the main icons and the Input Source control screen appears. Click Select All or use Check Box to select a display to control.

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Info Grid shows some basic information necessary to Input Source Control.PC

- Changes the Input Source of the selected display to PC.

2) BNC

- Changes the Input Source of the selected display to BNC.

- 3) DVI
 - Changes the Input Source of the selected display to DVI.
- 4) AV
 - Changes the Input Source of the selected display to AV.
- 5) S-Video
 - Changes the Input Source of the selected display to S-Video.
- 6) Component
 - Changes the Input Source of the selected display to Component.
- 7) MagicNet
 - The Input source of MagicNet works only on MagicNet model.
- The Input Source Control feature is available only for the displays whose power status is ON.

5. Image Size Control - PC, BNC, DVI

1. Click Image Size of the main icons and the Image Size control screen appears.

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► Info Grid shows some basic information necessary to Image Size Control.

- 1) Power
 - Shows the power status of the current display.
- 2) Image Size
 - Shows the current Image Size of the display in use.
- 3) Input Source
 - Shows the current Input Source of the display in use.
- 4) Info Grid displays only the displays whose Input Source is PC, BNC, DVI .
- 5) When you click Image Size, the PC, BNC, DVI tabs first appear.
 - The Image Size Control button controls Image Size available for PC, BNC, DVI.
- 6) Click the AV, S-Video, Component tab to control Image Size for respective Input Source.
- Image Size Control is available only for the displays for which power status is ON.
- The Input source of MagicNet works only on MagicNet model.

5. Image Size Control - AV, S-Video, Component, DVI(HDCP)

1. Click Image Size of the main icons and the Image Size control screen appears.

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▶ Info Grid shows some basic information necessary to Image Size Control.

- 1) Click the AV, S-Video, Component tab to adjust Image Size for AV, S-Video, Component. Click Select All or use Check Box to select a display to control.
- 2) Info Grid displays only the display having AV, S-Video, Component or DVI(HDCP) as input source.
- 3) Switch Image Size of the selected display randomly.



Panorama, Zoom1 and Zoom2 are not available for selection when the input signal type for Component and DVI (HDCP) is 720p or 1080i.

= The Image Size Control feature is available only for the displays whose power status is ON.

The Input source of MagicNet works only on MagicNet model.

6. Time Control

1. Click Time of the main icons and the Time Control screen appears.



- ► Info Grid shows some basic information necessary to Time Control.
- 1) Current Time
 - Set the current time for the selected display (PC Time).
 - To change the current time, first change the PC Time.
- 2) On Time Setup
 - Set the hour, minute, AM/PM of On Time, Status, Source, volume of the selected display.
- 3) Off Time Setup
 - Set the hour, minute, and AM/PM, Status for Off Timer of the selected display.
- 4) Shows the On Timer settings.
- 5) Shows the Off Timer settings.
- Time Control is available only for the displays for which the power status is ON.

7. PIP Control - PIP Size

1. Click PIP of the main icons and the PIP control screen appears. Click Select All or use Check Box to select a display to control.



Info Grid shows some basic information necessary to PIP Size Control.
 PIP Size

- Shows the current PIP Size of the display in use.
- 2) OFF
 - Turns off the PIP of the selected display.
- 3) Large
 - Turns on the PIP of the selected display and changes the size to Large.
- 4) Small
 - Turns on the PIP of the selected display and changes the size to Small.
- 5) Double1

Turns on the PIP of the selected display and changes the size to Double 1.6) Double2

- Turns on the PIP of the selected display and changes the size to Double 2.
- 7) Double3 (Picture By Picture)
- Turns on the PIP of the selected display and changes the size to Double 3.
- PIP Size can be controlled with turning on the monitor power.
- The Input source of MagicNet works only on MagicNet model.

7. PIP Control - PIP Source

1. Click PIP of the main icons and the PIP control screen appears.

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▶ Info Grid shows some basic information necessary to PIP Source Control.

- 1) PIP Source
- PIP Source can be controlled with turning on the monitor power.
- 2) PC
- Changes the source of the PIP of the selected display to PC.
- 3) BNC
- Changes the source of the PIP of the selected display to BNC.
- 4) DVI
 - Changes the source of the $\ensuremath{\mathsf{PIP}}$ of the selected display to $\ensuremath{\mathsf{DVI}}$.
- 5) AV
 - Changes the source of the PIP of the selected display to AV.
- 6) S-Video
- Changes the source of the PIP of the selected display to S-Video.
- 7) Component

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- Changes the source of the PIP of the selected display to Component.

Some of the PIP Sources may not be available for selection depending on the input source type of the Main Screen.

The PIP Control feature is available only for the displays whose power status is ON and the PIP function is set to ON.

The Input source of MagicNet works only on MagicNet model.

8. Settings Control - Picture

1. Click Settings of the main icons and the Settings Control screen appears.

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- Info Grid shows some basic information necessary to Settings Control. When each function is selected, the set value of the selected function is displayed in the slide. When Select All is selected, the default value (50) returns.
 - Changing a value in this screen will automatically change the mode to "CUSTOM."
- 1) Picture
 - Available only for AV, S-Video, Component, DVI(HDCP).
- 2) Contrast
 - Adjusts Contrast of the selected display.
- 3) Brightness
 - Adjusts Brightness of the selected display.
- 4) Sharpness
 - Adjusts Sharpness of the selected display.
- 5) Color
 - Adjusts Color of the selected display.
- 6) Tint
 - Adjusts Tint of the selected display.
- 7) Color Tone
 - Adjusts Color Tone of the selected display.
- This feature is available only for the displays whose power status is ON and if no selection is made, the factory default is displayed.
- The Input source of MagicNet works only on MagicNet model.

8. Settings Control - Picture PC

1. Click Settings of the main icons and the Settings Control screen appears.

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- Info Grid shows some basic information necessary to Settings Control. When each function is selected, the set value of the selected function is displayed in the slide. When Select All is selected, the default value (50) returns.
 - Changing a value in this screen will automatically change the mode to "CUSTOM."
- 1) Picture PC
 - Available only for PC, BNC, DVI.
- 2) Contrast
 - Adjusts Contrast of the selected display.
- 3) Brightness
 - Adjusts Brightness of the selected display.
- 4) Red
 - Adjusts red Color of the selected display.
- 5) Green
 - Adjusts green Color of the selected display.
- 6) Blue
 - Adjusts blue Color of the selected display.
- This feature is available only for the displays whose power status is ON and if no selection is made, the factory default is displayed.
- The Input source of MagicNet works only on MagicNet model.

8. Settings Control - Audio

1. Click Settings of the main icons and the Settings Control screen appears.



Info Grid shows some basic information necessary to Settings Control. When each function is selected, the set value of the selected function is displayed in the slide.

When Select All is selected, the default value (50) returns.

Changing a value in this screen will automatically change the mode to "CUSTOM."

- 1) Audio
 - Controls audio settings for all input sources.
- 2) Bass
 - Adjusts Bass of the selected display.
- 3) Treble
 - Adjusts Treble of the selected display.
- 4) Balance
 - Adjusts Balance of the selected display.
- 5) Dolby Virtual
 - Dolby Virtual Sound On/Off of the selected display.
- 6) BBE
 - BBE Sound On/Off of the selected display.
- 7) Sound Select
 - Select either Main or Sub when PIP is On.
- This feature is available only for the displays whose power status is ON and if no selection is made, the factory default is displayed.
- The Input source of MagicNet works only on MagicNet model.

8. Settings Control - Image Lock

1. Click Settings of the main icons and the Settings Control screen appears.

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- ▶ Info Grid shows some basic information necessary to Settings Control.
- 1) Image Lock
 - Available only for PC, BNC.
- 2) Coarse
 - Adjusts Coarse of the selected display.
- 3) Fine
 - Adjusts Fine of the selected display.
- 4) Position
 - Adjusts Position of the selected display.
- 5) Auto Adjustment
 - Self-Adjust to the incoming PC signal.
- Settings Control is available only for the displays for which the power status is ON.
- The Input source of MagicNet works only on MagicNet model.

9. Maintenance Control - Lamp Control

1. Click on the "Maintenance" icon in the Main Icon column to display the Maintenance screen.

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- An "Info Grid" showing several basic data items appears.
- 1) Maintenance
 - Allows Maintenance Control for all input sources.
- 2) Auto Lamp Control

 - Automatically adjusts the backlight of the selected display at a specified time. The Auto Lamp Control automatically turns off if you adjust using the Manual Lamp Control.
- 3) Manual Lamp Control
 - Allows you to adjust the backlight of the selected display regardless of the time.
 - The Auto Lamp Control automatically turns off if you adjust using the Manual Lamp Control function.
- * The Maintenance Control feature is available only for the displays whose power status is ON.
- The Input source of MagicNet works only on MagicNet model.

10. Maintenance Control - Scroll

1. Click on the "Maintenance" icon in the Main Icon column to display the Maintenance screen.

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- 1) Screen Scroll
 - Eliminates the afterimages that can result when the selected display stays in Pause mode for an extended period of time. You can set the repeat cycle timer by selecting the "Interval" by hour and "Second" by second.

* The Maintenance Control feature is available only for the displays whose power status is ON.

The Input source of MagicNet works only on MagicNet model.

1. Click on the "Maintenance" icon in the Main Icon column to display the Maintenance screen.

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1) Video Wall

- A Video Wall is a set of video screens that are connected together, so that each screen shows a part of the whole picture or so that the same picture is repeated on each screen.

2) Screen Divider

- The screen can be divided into.
- You can select a number of screens with a different layout when dividing.
- Select a mode from Screen Divider.
- Select a display from Display Selection.
- The place will be set up by pressing a number in the selected mode...



- 3) On / Off
 - Turns on/off the Video Wall function of the selected display.
- 4) Format
 - The format can be selected to see a divided screen.



= The Maintenance Control function is available only for the displays where the power status is ON.

The Input source of MagicNet works only on MagicNet model.

12. Troubleshooting

- 1. The display you wish to control does not appear on the Power Control Info Grid
 - Check the connection of RS232C. (Check if it is properly connected to the Com1 port)
 - Check the displays to see if any of the other displays connected have the same ID. If more than one
 - displays have the same ID, those displays are not properly detected by the program due to data conflict. - Check if the Display Set ID is a number between 1 and 10. (Adjust using the Display menu)



- A Display Set ID must be a value between 1 and 10.
- If the value is out of the range, the MDC system cannot control the display.
- 2. The display you wish to control does not appear on the other Control Info Grids
 - Check to see if the display power is ON. (You can check this in Power Control Info Grid)
 - Check if you can change the input source of the display.
- 3. The dialogue box appears repeatedly.
 - Check to see if the display you wish to control is selected.
- 4. Both On Timer and Off Timer have been set but different time is showing. - Apply current time to synchronize the display clocks.
- 5. The remote may not function properly when you turn off the remote Function, disconnect the RS-232C cable, or exit the program in an Irregular manner. Rerun the program and turn the remote function again to Restore normal functions.



This program may malfunction due to problems in communication circuits or interference from electronic appliances nearby.



13. Settings Value Display In Multiple Display Mode

- ► When there are more than one displays connected, the settings values are displayed as follows.
- 1. No selection: Displays the Factory Default Value.
- 2. Selected one display: Fetches and displays the settings value for the selected display.
- 3. Selected one display (ID1) and add another display (ID3): The program, which was displaying the settings value of ID 1, fetches and displays the value of ID3.
- 4. Selected all sets using Select All: Returns to the Factory Default Value.

Installing Stand Kit

Connecting the Monitor

Natural Color

MDC



Natural Color Software Program



One of the recent problems in using a computer is that the color of the images printed out by a printer or other images scanned by a scanner or a digital camera are not the same as those shown on the monitor.

The Natural Color S/W is the very solution for this problem. It is a color administration system developed by Samsung Electronics in association with Korea Electronics & Telecommunications Research Institute (ETRI).

This system is available only for Samsung monitors and makes the color of the images on the monitor the same as the printed or scanned images.

For more information, refer to Help (F1) in the software program.

How to install the Natural Color software

Insert the CD included with the Samsung monitor into the CD-ROM Drive. Then, the initial screen of the program Natural Color will be executed. Click Natural Color on the initial screen to install the Natural Color software.

To install the program manually, insert the CD included with the Samsung monitor into the CD-ROM Drive, click the [Start] button of Windows and then select [Execute]. Enter D:\color\eng\setup.exe and then press the <Enter> key (If the drive where the CD is inserted is not D:\, enter the applicable drive.)

How to delete the Natural Color software program Select "Setting" / 'Control Panel" on the "Start" menu and then double-click "Add/Delete a program".

Select Natural Color from the list and then click the [Add/Delete] button.

Installation

- 1. Insert the installation CD into the CD-ROM drive.
- 2. Click the MagicNet installation file.
- 3. When the InstallShield Wizard window appears, click "Next."

MagicNet - InstallShield Wizard		×
	Welcome to the InstallShield Wizard for HagicNet The InstallShield® Wizard will instal MagicNet on your computer. To continue, click Next.	
	< Block Next > Cancel	

4. Select "I agree to the terms of the license agreement" to accept the terms of use.

MagicNet - InstallShield Wizard		×
License Agreement Please read the following license agreement car	ofuðy.	24
END-USER LICENSE AGREEMENT FOR SAM SOFTWARE PRODUCT IMPORTANT-READ CAREFULLY: This Samou		
Agreement ("EULA") is a legal agreement betwe individual or a single entity) and Samoung Elect ("SAMSUNG ELECTRONICS") with respect to identified above. The SAMSUNG ELECTRONIC associated software components, media, printer or electronic documentation ("SOFTWARE PRO copying or using the SOFTWARE PRODUCT.) terms of this EULA. If you do not agree to the te	een you (either an onics Co., Ltd. the SAMSUNG ELECTRONICS ES software product may includ d materials and "online" DDUCT"). By installing, you agree to be bound by the	product
I gccept the terms of the license agreement		
I go not accept the terms of the license agree InstalShield.	ement	
1	< Back Next >	Cancel

5. You are required to log in to the MagicNet Server program. Please enter the password to login. The password cannot be changed when you are logged in.

MagicNet - InstallS	hield Wizard	×
Password is need login MagicNet.	led to use MagicNet program. This password will be used to	
Password		
Confirm Password		
	< Back Next> Ca	ancel
	< <u>B</u> ack <u>N</u> ext> Ca	ancer

6. Choose a folder to install the MagicNet program.

MagicNet - J	installShield Wizard			×
	estination Location Ider where setup will install files.			AN A
	Install MagicNet to: C:\Program Files\SEC\MagicNet			Charge
InstallShield -		< Back	Next >	Cancel

7. Click "Install."



8. The "Installation Status" window appears.

MagicNet - InstallShield Wizard	×
Setup Status	
MagicNet is configuring your new software installation.	
Installing	
C:\Program Filer\SEC\MagicNet\mediadb.mdb	
InstallShield.	
	Cancel

9. It is recommended restarting the system for the normal operation of the MagicNet Server program.

Click "Finish." MagicNet - InstallShield Wiza	ird
	InstallShield Wizard Complete The InstallShield Wizard has successfully installed MagicNet. Before you can use the program, you must restart your computer. (* [ries, I want to restart my computer now] (* No, I will restart my computer later. Remove any disks from their drives, and then click Finish to complete setup.
	CBick Finish Center

10. When the installation is complete, the MagicNet executable icon appears on your desktop.



11. Double-click the icon to start the program.

System Requirements

	CPU	RAM	Ethernet	OS	Application
Minimum	P1.8	256M		Windows XP	
Recommended	P3.0Ghz	512M	100M	Windows 2000 (Service Pack 4)	WMP 9 or later



SyncMaster 460P



Installing Stand Kit Connecting the Monitor MDC Natural Color

Installing Stand Kit



Only the supplied bolts should be used.

Samsung Electronics will not be responsible for damages caused by using a base other than those specified.



1. A 'Cover-Protector' is used to protect the hole at the bottom of the monitor, where the stand is inserted. Be sure to remove the 'Cover-Protector' when attaching the provided Semi Stand or stand kit (sold separately) and cover the hole using the 'Cover-Hole' when attaching the wall mount kit.

- 2. Set up the left and right stands respectively.
- Put the stand into the hole at the bottom of the monitor. Insert screw into the hole indicated and tighten. (M4 × L15)

⚠

This stand is originally designed for the adjustment of the screen angle. And the company is not responsible for any problem caused by any use of this stand. Do never use the product as a stand on which something is placed.

2. Installing Stand Kit (sold separately)



- A 'Cover-Protector' is used to protect the hole at the bottom of the monitor, where the stand is
 inserted. Be sure to remove the 'Cover-Protector' when attaching the provided Semi Stand or stand
 kit (sold separately) and cover the hole using the 'Cover-Hole' when attaching the wall mount kit.
- 2. Make sure you put the parts in the right direction and in the right place. (M4 × L15)
- 3. Put the stand into the hole at the bottom of the monitor.
- 4. Insert screw into the hole indicated and tighten. (M4 × L15)



AV input devices like DVDs, VCRs or Camcorders as well as your computer may be connected to the monitor. For detailed information on connecting AV input devices, refer to User Controls under Adjusting Your Monitor.

Connecting to a Computer | Connecting to a VCR | Connecting to a DVD Player | Connecting a Camcorder Connecting DTV Set Top Box | Connecting Speakers | Connecting to an Audio System

1. Connecting to a Computer



- 1. Connect the power cord for your monitor to the power port on the back of the monitor. Trun on power switch.
- 2. There are 3 ways to connect the signal cable to your monitor. Choose one of the followings :
 - **2-1.** Using the D-sub (Analog) connector on the video card. Connect the signal cable to the 15-pin, RGB port on the back of your monitor.



2-2. Using the DVI (Digital) connector on the video card. Connect the DVI Cable to the DVI(HDCP) port on the back of your monitor.



2-3. Using the BNC (Analog) connector on the video card.
 Connect the BNC Cable to the BNC/COMPONENT IN - R, G, B, H, V port on the back of your Monitor and the 15 pin D-sub Port on the computer.





DVI cable or BNC cable is optional.

- 3. Connect the audio cable for your monitor to the audio port on the back of your computer.
- 4. Turn on both your computer and the monitor.



Contact a local Samsung Electronics Service Center to buy optional items.

2. Connecting to a VCR



1. AV input devices like VCRs or Camcorders are connected to the AV IN [VIDEO] or AV IN [S-VIDEO] of the monitor using the S-VHS or BNC cable.



S-VHS or BNC cable is optional.

- 2. Connect the Audio (L) and Audio (R) terminals of a VCR or Camcorders to the monitor's AV AUDIO IN [L-AUDIO-R] using audio cables.
- 3. Select **AV** or **S-Video** that is connected to a VCR or Camcorders using the Source button on the monitor's front or remote control.
- 4. Then, start the VCR or Camcorders with a tape inserted.
 - 3. Connecting to a DVD Player



- 1. Connect a set of audio cables between the **COMPONENT AUDIO IN [L-AUDIO-R]** on the Monitor and the AUDIO OUT jacks on the DVD player.
- Connect a Component cable between the BNC/COMPONENT IN PR, Y, Pв port on the Monitor and the PR, Y, Pв jacks on the DVD player.



Component cable is optional.

- 3. Select **Component** that is connected to a DVD player using the Source button on the monitor's front or remote control.
- 4. Then, start the DVD Player with a DVD disc inserted.

For an explanation of Component video, see your DVD player owner's manual.

4. Connecting a Camcorder



- Locate the A/V output jacks on the camcorder. They are usually found on the side or back of the camcorder.
 Connect a set of audio cables between the AUDIO OUTPUT jacks on the camcorder and the
- COMPONENT AUDIO IN [L-AUDIO-R] on the Monitor.
- 2. Connect a video cable between the VIDEO OUTPUT jack on the camcorder and the **AV IN [VIDEO]** on the Monitor.
- 3. Select **AV** that is connected to a Camcorder using the Source button on the monitor's front or remote control.
- 4. Then, start the Camcorders with a tape inserted.



The audio-video cables shown here are usually included with a Camcorder. (If not, check your local electronics store.) If your camcorder is stereo, you need to connect a set of two cables.

5. Connecting DTV Set Top Box

The connections for a typical Set Top Box are shown below.



- 1. Connect a set of audio cables between the **COMPONENT AUDIO IN [L-AUDIO-R]** on the Monitor and the AUDIO OUT jacks on the Set Top Box.
- 2. Connect a Component cable between the **BNC/COMPONENT IN PR, Y, PB port** on the Monitor and the PR, Y, PB jacks on the Set Top Box.
- 3. Select **Component** that is connected to a DTV Set Top Box using the Source button on the monitor's front or remote control.

For an explanation of Component video, see your Set Top Box owner's manual.

6. Connecting Speakers

1. Tighten the SET and the speaker using the screws.



- * Mount the set of the speaker without the speaker stand.
- 2. Connect the speaker connection cable between the speaker connection jack on the rear of the SET and the speaker connection jack on the rear of the speaker.





Do not move the SET holding the speaker when the SET is connected to the speaker. The speaker-bracket for connecting the SET speaker my be damaged.



1. Connect a set of audio cables between the AUX L, R jacks on the AUDIO SYSTEM and the **MONITOR OUT [L-AUDIO-R]** on the Monitor.

Installing Stand Kit	Connecting the Monitor	MDC	Natural Color
N		Svet	em

- 1. Introduction
- 2. Beginning :
- Main Screen | Port Setting |
- 3 Power Control
- 4. Input Source Control
- 5. Image Size Control :
 - PC, BNC, DVI | AV, S-Video, Component, DVI(HDCP)
- 1. Introduction

- 6. Time Control
- 7. PIP Control : PIP Size | PIP Source
- Settings Control : Picture | Picture PC | Audio | Image Lock |
 9. Maintenance Control Lamp Control
- 10. Maintenance Control Scroll
- 11. Maintenance Control Video Wall
- 12. Troubleshooting
- 13. Settings Value Display In Multiple Display Mode



A Multiple Display Control (MDC) is an application allowing various displays to be easily and simultaneously operated on a PC. RS-232C, a standard of serial communication, is used for the communication between a PC and a display. Therefore, a serial cable should be connected between the serial port on a PC and the serial port on a display.

2. Main Screen

- Click Start > Program > Multiple Display Control to start the program.
- Select a set to see the volume of the selected set within the slider.

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L	This Program is approved.	lor Samsung SyncMas	ter 400P(Pv),450P(Paj,300P Medel Only. Other Medel are not
_	lcons			ct Button
2 Rem 3 Safet	ocon ty Lock		6 Info	Grid lay Selection
	Selection			rol Tools

- 1. Use the main icons to switch into each screen.
- 2. Allows you to enable or disable the remote control signal receiving function of the display unit.
- 3. The setting for the PC Serial Port can change. The original value is COM1.
- 4. Sets the Lock Function.
- 5. Click Select all or Clear to select or clear all displays.
- 6. Use Grid to view brief information on selected display.
- 7. Select a display from Display Selection.
- 8. Use Control Tools to control displays.

The remote control Enable/Disable function operates whether or not the power is On/Off, and this applies to all displays connected to the displays connected to the MDC However, regardless of the status at the time the MDC is shut down, the remote control signal receiving function of all displays is initialized to Enable when the MDC is closed.

2. Beginning - Port Setting
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- 1. Multiple Display Control is originally set to COM1.
- 2. If any port other than COM1 is used, COM1 to COM4 can be selected in Port Selection Menu.
- 3. If the exact port name which is connected to the monitor using a serial cable is not selected, communication will not be unavailable.
- 4. The selected port is stored in the program and used for the next program as well.

3. Power Control

1. Click Power Control of the main icons and the Power Control screen appears.



► Info Grid shows some basic information necessary to Power Control.

- 1) Power Status
- 2) Input Source
- 3) Image Size
- 4) On Timer Status
- 5) Off Timer Status
- 2. Use the Select All button or Check Box to choose a display to control.

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- ▶ Power Control allows controlling some of the functions of the selected display.
- 1) Power On/Off
 - Turns the power of the selected display On/Off.
- 2) Volume Control
 - Controls the volume level of the selected display.

It receives the volume value of the selected display from the sets and displays it in the slider.

- (When you cancel the selection or choose Select All, the value returns to the default value 10)
- 3) Mute On/Off
 - Enables/disables the Mute function of the selected display.
 - When selecting one set at a time, enable Mute when the Mute function is enabled for the selected set. The Mute function is disabled automatically when you adjust the volume level.
 - (The values return to the default settings when you undo the selections or choose "Select All.")
- = The Power Control feature is available for all displays.
- The Volume Control and Mute features are available only for the displays whose power status is ON.

4. Input Source Control

1. Click Input Source of the main icons and the Input Source control screen appears. Click Select All or use Check Box to select a display to control.

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File Resolution			Crarta C.	Chrone Input Source
	The Ir	ngad saar	ce of MagicNet works only on MagicNet model.	\bigcirc

Info Grid shows some basic information necessary to Input Source Control.PC

- Changes the Input Source of the selected display to PC.

2) BNC

- Changes the Input Source of the selected display to BNC.

- 3) DVI
 - Changes the Input Source of the selected display to DVI.
- 4) AV
 - Changes the Input Source of the selected display to AV.
- 5) S-Video
 - Changes the Input Source of the selected display to S-Video.
- 6) Component
 - Changes the Input Source of the selected display to Component.
- 7) MagicNet
 - The Input source of MagicNet works only on MagicNet model.
- The Input Source Control feature is available only for the displays whose power status is ON.

5. Image Size Control - PC, BNC, DVI

1. Click Image Size of the main icons and the Image Size control screen appears.

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▶ Info Grid shows some basic information necessary to Image Size Control.

- 1) Power
 - Shows the power status of the current display.
- 2) Image Size
 - Shows the current Image Size of the display in use.
- 3) Input Source
 - Shows the current Input Source of the display in use.
- 4) Info Grid displays only the displays whose Input Source is PC, BNC, DVI .
- 5) When you click Image Size, the PC, BNC, DVI tabs first appear.
 - The Image Size Control button controls Image Size available for PC, BNC, DVI.
- 6) Click the AV, S-Video, Component tab to control Image Size for respective Input Source.
- Image Size Control is available only for the displays for which power status is ON.
- The Input source of MagicNet works only on MagicNet model.

5. Image Size Control - AV, S-Video, Component, DVI(HDCP)

1. Click Image Size of the main icons and the Image Size control screen appears.

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▶ Info Grid shows some basic information necessary to Image Size Control.

- 1) Click the AV, S-Video, Component tab to adjust Image Size for AV, S-Video, Component. Click Select All or use Check Box to select a display to control.
- 2) Info Grid displays only the display having AV, S-Video, Component or DVI(HDCP) as input source.
- 3) Switch Image Size of the selected display randomly.



Panorama, Zoom1 and Zoom2 are not available for selection when the input signal type for Component and DVI (HDCP) is 720p or 1080i.

= The Image Size Control feature is available only for the displays whose power status is ON.

The Input source of MagicNet works only on MagicNet model.

6. Time Control

1. Click Time of the main icons and the Time Control screen appears.



- ► Info Grid shows some basic information necessary to Time Control.
- 1) Current Time
 - Set the current time for the selected display (PC Time).
 - To change the current time, first change the PC Time.
- 2) On Time Setup
 - Set the hour, minute, AM/PM of On Time, Status, Source, volume of the selected display.
- 3) Off Time Setup
 - Set the hour, minute, and AM/PM, Status for Off Timer of the selected display.
- 4) Shows the On Timer settings.
- 5) Shows the Off Timer settings.
- Time Control is available only for the displays for which the power status is ON.

7. PIP Control - PIP Size

1. Click PIP of the main icons and the PIP control screen appears. Click Select All or use Check Box to select a display to control.



Info Grid shows some basic information necessary to PIP Size Control.
 PIP Size

- Shows the current PIP Size of the display in use.
- 2) OFF
 - Turns off the PIP of the selected display.
- 3) Large
 - Turns on the PIP of the selected display and changes the size to Large.
- 4) Small
 - Turns on the PIP of the selected display and changes the size to Small.
- 5) Double1

Turns on the PIP of the selected display and changes the size to Double 1.6) Double2

- Turns on the PIP of the selected display and changes the size to Double 2.
- 7) Double3 (Picture By Picture)
- Turns on the PIP of the selected display and changes the size to Double 3.
- PIP Size can be controlled with turning on the monitor power.
- The Input source of MagicNet works only on MagicNet model.

7. PIP Control - PIP Source

1. Click PIP of the main icons and the PIP control screen appears.

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▶ Info Grid shows some basic information necessary to PIP Source Control.

- 1) PIP Source
- PIP Source can be controlled with turning on the monitor power.
- 2) PC
- Changes the source of the PIP of the selected display to PC.
- 3) BNC
- Changes the source of the PIP of the selected display to BNC.
- 4) DVI
 - Changes the source of the $\ensuremath{\mathsf{PIP}}$ of the selected display to $\ensuremath{\mathsf{DVI}}$.
- 5) AV
 - Changes the source of the PIP of the selected display to AV.
- 6) S-Video
- Changes the source of the PIP of the selected display to S-Video.
- 7) Component

ġ,

- Changes the source of the PIP of the selected display to Component.

Some of the PIP Sources may not be available for selection depending on the input source type of the Main Screen.

The PIP Control feature is available only for the displays whose power status is ON and the PIP function is set to ON.

The Input source of MagicNet works only on MagicNet model.

8. Settings Control - Picture

1. Click Settings of the main icons and the Settings Control screen appears.

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- Info Grid shows some basic information necessary to Settings Control. When each function is selected, the set value of the selected function is displayed in the slide. When Select All is selected, the default value (50) returns.
 - Changing a value in this screen will automatically change the mode to "CUSTOM."
- 1) Picture
 - Available only for AV, S-Video, Component, DVI(HDCP).
- 2) Contrast
 - Adjusts Contrast of the selected display.
- 3) Brightness
 - Adjusts Brightness of the selected display.
- 4) Sharpness
 - Adjusts Sharpness of the selected display.
- 5) Color
 - Adjusts Color of the selected display.
- 6) Tint
 - Adjusts Tint of the selected display.
- 7) Color Tone
 - Adjusts Color Tone of the selected display.
- This feature is available only for the displays whose power status is ON and if no selection is made, the factory default is displayed.
- The Input source of MagicNet works only on MagicNet model.

8. Settings Control - Picture PC

1. Click Settings of the main icons and the Settings Control screen appears.

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	Red, Green, Blue Color Control is not available in case of DM Source.	0
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- Info Grid shows some basic information necessary to Settings Control. When each function is selected, the set value of the selected function is displayed in the slide. When Select All is selected, the default value (50) returns.
 - Changing a value in this screen will automatically change the mode to "CUSTOM."
- 1) Picture PC
 - Available only for PC, BNC, DVI.
- 2) Contrast
 - Adjusts Contrast of the selected display.
- 3) Brightness
 - Adjusts Brightness of the selected display.
- 4) Red
 - Adjusts red Color of the selected display.
- 5) Green
 - Adjusts green Color of the selected display.
- 6) Blue
 - Adjusts blue Color of the selected display.
- This feature is available only for the displays whose power status is ON and if no selection is made, the factory default is displayed.
- The Input source of MagicNet works only on MagicNet model.

8. Settings Control - Audio

1. Click Settings of the main icons and the Settings Control screen appears.



Info Grid shows some basic information necessary to Settings Control. When each function is selected, the set value of the selected function is displayed in the slide.

When Select All is selected, the default value (50) returns.

Changing a value in this screen will automatically change the mode to "CUSTOM."

- 1) Audio
 - Controls audio settings for all input sources.
- 2) Bass
 - Adjusts Bass of the selected display.
- 3) Treble
 - Adjusts Treble of the selected display.
- 4) Balance
 - Adjusts Balance of the selected display.
- 5) Dolby Virtual
 - Dolby Virtual Sound On/Off of the selected display.
- 6) BBE
 - BBE Sound On/Off of the selected display.
- 7) Sound Select
 - Select either Main or Sub when PIP is On.
- This feature is available only for the displays whose power status is ON and if no selection is made, the factory default is displayed.
- The Input source of MagicNet works only on MagicNet model.

8. Settings Control - Image Lock

1. Click Settings of the main icons and the Settings Control screen appears.

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- ▶ Info Grid shows some basic information necessary to Settings Control.
- 1) Image Lock
 - Available only for PC, BNC.
- 2) Coarse
 - Adjusts Coarse of the selected display.
- 3) Fine
 - Adjusts Fine of the selected display.
- 4) Position
 - Adjusts Position of the selected display.
- 5) Auto Adjustment
 - Self-Adjust to the incoming PC signal.
- Settings Control is available only for the displays for which the power status is ON.
- The Input source of MagicNet works only on MagicNet model.

9. Maintenance Control - Lamp Control

1. Click on the "Maintenance" icon in the Main Icon column to display the Maintenance screen.

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10	-							

- An "Info Grid" showing several basic data items appears.
- 1) Maintenance
 - Allows Maintenance Control for all input sources.
- 2) Auto Lamp Control

 - Automatically adjusts the backlight of the selected display at a specified time. The Auto Lamp Control automatically turns off if you adjust using the Manual Lamp Control.
- 3) Manual Lamp Control
 - Allows you to adjust the backlight of the selected display regardless of the time.
 - The Auto Lamp Control automatically turns off if you adjust using the Manual Lamp Control function.
- * The Maintenance Control feature is available only for the displays whose power status is ON.
- The Input source of MagicNet works only on MagicNet model.

10. Maintenance Control - Scroll

1. Click on the "Maintenance" icon in the Main Icon column to display the Maintenance screen.

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- 1) Screen Scroll
 - Eliminates the afterimages that can result when the selected display stays in Pause mode for an extended period of time. You can set the repeat cycle timer by selecting the "Interval" by hour and "Second" by second.

* The Maintenance Control feature is available only for the displays whose power status is ON.

The Input source of MagicNet works only on MagicNet model.

1. Click on the "Maintenance" icon in the Main Icon column to display the Maintenance screen.

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	PIP Do, Image Size and Auto Adju	atment function are not	evallable in Video Wall mode.			

1) Video Wall

- A Video Wall is a set of video screens that are connected together, so that each screen shows a part of the whole picture or so that the same picture is repeated on each screen.

2) Screen Divider

- The screen can be divided into.
- You can select a number of screens with a different layout when dividing.
- Select a mode from Screen Divider.
- Select a display from Display Selection.
- The place will be set up by pressing a number in the selected mode...



- 3) On / Off
 - Turns on/off the Video Wall function of the selected display.
- 4) Format
 - The format can be selected to see a divided screen.



= The Maintenance Control function is available only for the displays where the power status is ON.

The Input source of MagicNet works only on MagicNet model.

12. Troubleshooting

- 1. The display you wish to control does not appear on the Power Control Info Grid
 - Check the connection of RS232C. (Check if it is properly connected to the Com1 port)
 - Check the displays to see if any of the other displays connected have the same ID. If more than one
 - displays have the same ID, those displays are not properly detected by the program due to data conflict. - Check if the Display Set ID is a number between 1 and 10. (Adjust using the Display menu)



- A Display Set ID must be a value between 1 and 10.
- If the value is out of the range, the MDC system cannot control the display.
- 2. The display you wish to control does not appear on the other Control Info Grids
 - Check to see if the display power is ON. (You can check this in Power Control Info Grid)
 - Check if you can change the input source of the display.
- 3. The dialogue box appears repeatedly.
 - Check to see if the display you wish to control is selected.
- 4. Both On Timer and Off Timer have been set but different time is showing. - Apply current time to synchronize the display clocks.
- 5. The remote may not function properly when you turn off the remote Function, disconnect the RS-232C cable, or exit the program in an Irregular manner. Rerun the program and turn the remote function again to Restore normal functions.



This program may malfunction due to problems in communication circuits or interference from electronic appliances nearby.



13. Settings Value Display In Multiple Display Mode

- ► When there are more than one displays connected, the settings values are displayed as follows.
- 1. No selection: Displays the Factory Default Value.
- 2. Selected one display: Fetches and displays the settings value for the selected display.
- 3. Selected one display (ID1) and add another display (ID3): The program, which was displaying the settings value of ID 1, fetches and displays the value of ID3.
- 4. Selected all sets using Select All: Returns to the Factory Default Value.

Installing Stand Kit

Connecting the Monitor

Natural Color

MDC



Natural Color Software Program



One of the recent problems in using a computer is that the color of the images printed out by a printer or other images scanned by a scanner or a digital camera are not the same as those shown on the monitor.

The Natural Color S/W is the very solution for this problem. It is a color administration system developed by Samsung Electronics in association with Korea Electronics & Telecommunications Research Institute (ETRI).

This system is available only for Samsung monitors and makes the color of the images on the monitor the same as the printed or scanned images.

For more information, refer to Help (F1) in the software program.

How to install the Natural Color software

Insert the CD included with the Samsung monitor into the CD-ROM Drive. Then, the initial screen of the program Natural Color will be executed. Click Natural Color on the initial screen to install the Natural Color software.

To install the program manually, insert the CD included with the Samsung monitor into the CD-ROM Drive, click the [Start] button of Windows and then select [Execute]. Enter D:\color\eng\setup.exe and then press the <Enter> key (If the drive where the CD is inserted is not D:\, enter the applicable drive.)

How to delete the Natural Color software program Select "Setting" / 'Control Panel" on the "Start" menu and then double-click "Add/Delete a program".

Select Natural Color from the list and then click the [Add/Delete] button.

SyncMaster 460Pn



Input Picture Sound Setup Multi Control Direct Functions MagicNet (SERVER)

Input



Available Mode 📔 : PC / BNC / DVI 🔼 : AV 🛐 : S-Video 🖸 : Component 🚺 : MagicNet

OSD	Description	Play
Source List	Use to select PC, BNC or other external input sources connected to the Monitor. Use to select the screen of your choice. - The direct button on the remote control is 'SOURCE' button. The PIP turns off when the monitor is switched to an external source. 1) PC 2) BNC 3) DVI 4) AV 5) S-Video 6) Component 7) MagicNet	PASCM
PIP	When external A/V devices such as VCRs or DVDs are connected to the monitor, PIP allows you to watch video from	

	those devices in a small window super-imposed on the PC Video signal. (Off/On)	
	More than one PIP couldn't be overlapped on screen as BNC and the component use the same	
	terminal.	
	 1) PIP The direct button on the remote control is 'PIP' button. Off 	
	On Turn the PIP Screen on or off.	
	2) Source	
	- The direct button on the remote control is 'SOURCE' button.	
	PC / DVI : AV / S-Video / Component Mode	
	BNC : AV / S-Video Mode	1) PIP
	AV / S-Video PC / BNC / DVI Mode	2) Source
	Component : PC / DVI Mode	3) Swap
	: Select the input source for the PIP.	4) Size
	 3) Swap The direct button on the remote control is 'SWAP' button. : Swapping the contents of the PIP and main image. The image in the PIP window will appear on the main screen, and the main screen image will appear in the PIP window. 	5) Position 6) Transparency
	 4) Size The direct button on the remote control is 'SIZE' button. : Change the Size of the PIP window. If you select , , , , , in Size, Position and Transparency will not be activated. 	PASC
	5) Position : Change the Position of the PIP window.	
	6) Transparency High	
	- Medium	
	Low	
	Opaque : Adjust the Transparency of PIP windows.	
	Available Mode : PIP	
Edit Name	Name the input device connected to the input jacks to make your input source selection easier.	
	MagicNet couldn't be renamed.	
	1) PC	
	2) BNC	PASC
	3) DVI	
	5) S-Video	
	6) Component	<u> </u>

Input Picture Sound Setup Multi Control Direct Functions MagicNet (SERVER)

Picture

PC / BNC /DVI Mode



Available Mode 📔 : PC / BNC / DVI 🔼 : AV 🛐 : S-Video 💽 : Component 🕅 : MagicNet

OSD	Description	Play
MagicBright™	MagicBright™ is a new feature providing the optimum viewing environment depending on the contents of the image you are watching. Currently four different modes are available: Entertain, Internet, Text and Custom. Each mode has its own pre-configured brightness value. You can easily select one of four settings by simply pressing the MagicBright™ control button. - The direct button on the remote control is 'M/B' button. 1) Entertain : High brightness For watching motion pictures such as a DVD or VCD. 2) Internet : Medium brightness For working with a mixture of images such as text and graphics. 3) Text : Normal brightness For documentations or works involving heavy text. 4) Custom Although the values are carefully chosen by our engineers, the pre-configured values may not be comfortable to your eyes depending on your taste. If this is the case, adjust the brightness and contrast by using the OSD menu.	
Custom	You can use the on-screen menus to change the contrast and brightness according to personal preference. 1) Contrast : Adjust the Contrast. 2) Brightness : Adjust the Brightness.	⊘ ₽M
If you ad	just picture using Custom function, MagicBright will turn to Custom mode	
Color Tone	The tone of the color can be changed. 1) Cool 2) Normal 3) Warm	PM

	4) Custom	
Color Control	Adjust the individual R, G, B color controls. 1) Red 2) Green 3) Blue just picture using Color Control function, Color Tone will turn to Custom	mode.
	-	
Image Lock	 Image Lock is used to fine-tune and get the best image by removing noise that creates unstable images with jitter and shimmer. If satisfactory results are not obtained using the Fine adjustment, use the Coarse adjustment and then use Fine again. 1) Coarse Removes noise such as vertical stripes. Coarse adjustment may move the screen image area. You may relocate it to the center using the horizontal control menu. 2) Fine Removes noise such as horizontal stripes. If the noise persists even after fine tuning, repeat it after adjusting the frequency (clock speed). 3) Position Adjusts the screen location horizontally and vertically. 	1) Coarse / Fine 3) Position
Auto Adjustment	The values of Fine, Coarse, position are adjusted automatically. If you change resolution in the control panel, auto function will be executed. - The direct button on the remote control is 'AUTO' button.	
Signal Balance	Used to make up for the weak RGB signal which has been transmitted by a long signal cable. 1) Signal Balance You can select with the signal control either On or Off. 2) Signal Control You can adjust the R Phase, G Phase, B Phase, Gain and Sharpness manually.	1) Signal Balance 2) Signal Control
Size	You can switch the Size. 1) 16:9 2) 4:3	P
PIP Picture	 You can adjust the PIP Screen Settings. 1) Contrast Adjusts the Contrast of the PIP window on the screen. 2) Brightness Adjusts the Brightness of the PIP window on the screen. 3) Sharpness Adjusts the difference between the lightest and darkest areas of the PIP window. 4) Color Adjusts the Color of the PIP window on the screen. 5) Tint Adds a natural tone to the PIP window. 	P

AV / S-Video / Component Mode



Available Mode 📔 : PC / BNC / DVI 🔼 : AV 🔕 : S-Video 💽 : Component 🕅 : MagicNet

OSD	Description	Play
Mode	The Monitor has four automatic picture settings ("Dynamic", "Standard", "Movie" and "Custom") that are preset at the factory. You can activate either Dynamic, Standard, Movie, or Custom. You can select "Custom" which automatically recalls your personalized picture settings. - The direct button on the remote control is 'P.MODE' button. 1) Dynamic 2) Standard 3) Movie 4) Custom	A S C
Custom	You can use the on-screen menus to change the contrast and brightness according to personal preference. 1) Contrast : Adjusts the Contrast. 2) Brightness : Adjusts the Brightness. 3) Sharpness : Adjust the picture sharpness. 4) Color : Adjust the picture color. 5) Tint (Available in AV/S-Video Mode Only) : Adds a natural tone to the display.	ASC
Color Tone	The tone of the color can be changed. The individual color components are also user adjustable. 1) Cool2 2) Cool1 3) Normal 4) Warm1 5) Warm2	
Size	You can switch the Size. 1) 16:9 2) Panorama 3) Zoom 1 4) Zoom 2 5) 4:3 - ZOOM1, ZOOM2, Panorama are not available in 1080i(or over 720p) of DTV.	ASC
Digital NR	- Digital Noise Reduction. You can turn the Noise Elimination feature Off/On. The Digital Noise Elimination feature allows you to enjoy	

	clearer and crisper images. Off On	
Film Mode	You can turn Film Mode Off/On. The Film Mode feature offers you a theater-quality viewing experience. • Off • On	
DNIe Demo	 Digital Natural Image engine Samsung's new technology brings you more detailed images with contrast and white enhancement and 3D noise reduction. A New image compensation algorithm gives brighter, clearer images to our customers. DNIe technology will match every signal to your eyes. You can compare a screen with DNIe to that without DNIe. The left half will show an image with DNIe while the right half will display the image without DNIe. This monitor supports the DNIe feature by default. Off Switches off the DNIe Demo mode. Switches on the DNIe Demo mode. 	
PIP Picture	You can adjust the PIP Screen Settings. 1) Contrast : Adjusts the Contrast of the PIP window on the screen. 2) Brightness : Adjusts the Brightness of the PIP window on the screen. Available Mode : PIP	

Input Picture Sound Setup Multi Control Direct Functions MagicNet M	MagicNet (SERVER)
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Sound



OSD	Description	Play
Mode	 The Monitor has a built-in high fidelity stereo amplifier. 1) Standard Choose Standard for the standard factory settings. 2) Music Choose Music when watching music videos or concerts. 3) Movie Choose Movie when viewing movies. 4) Speech Choose Speech when watching a show that is mostly dialogue (i.e., news). 5) Custom Choose Custom if you want to adjust the settings according to personal preference. 	PASCM
Custom	The sound settings can be adjusted to suit your personal preference. 1) Bass Emphasize low frequency audio. 2) Treble Emphasize high frequency audio. 3) Balance Allows you to adjust the sound balance between the left and right speakers. You can hear the sound even when the sound value is set to 0.	PASCM
Dolby Virtual	Dolby Virtual Sound Off/On (Dolby Virtual simulates the effect of the Dolby Surround sound system, recreating the movie- theatre or concert-hall- quality sound.) ••• Off ••• On	PASCM
BBE	The direct button on the remote control is 'BBE' button. BBE (Bass Booster Effect) recreates the natural sound and improves sound clarity through boosting high and low range frequencies. As a result, high sounds are clearer, brilliant and finely detailed while low sounds are tight, well-defined and harmonically rich. Off On	PASCM
BBE	and Dolby Virtual cannot be functioned at the same time.	
Sound Select	You can select either Main or Sub when PIP is On. Main Sub Available Mode : PIP	

Input Picture Sound Setup Multi Control Direct Functions MagicNet (SERVER)

Setup



Available Mode 📔 : PC / BNC / DVI 🔼 : AV 🛐 : S-Video 💽 : Component 🕅 : MagicNet

OSD	Description	Play
Time	Use to choose one of 4 time settings, Clock Set, Sleep Timer, On Timer, and Off Timer. 1) Clock Set : Current Time Setting. 2) Sleep Timer : Use to set the Monitor to turn off automatically in certain minutes. (Off, 30, 60, 90, 120, 150, 180) 3) On Timer : Use to set the Monitor to turn on automatically at a preset time. Use to set the Monitor to turn on automatically at a preset time. Use to control the mode, volume level at the time the monitor turns on automatically. 4) Off Timer : Use to set the monitor to turn off automatically at a preset time. When you select turning Yes the On Timer or Off Timer when Clock Set is undefined, a guiding message pops up: "Set the clock first.".	1) Clock Set 2) Sleep Timer 3) On Timer 4) Off Timer PASCM
Lamp Control	Used to adjust inverter lamp in order to reduce energy consumption.	PASCM
Language	You can choose one of 11 languages. • English, Deutsch, Español, Français, Italiano, Svenska, 日本語, 中国语,Русский, 한국어, Português The language chosen affects only the language of the OSD. It has no effect on any software running on the computer.	PASCM
Menu Transparency	Changes the opaqueness of the background of the OSD. 1) High 2) Medium 3) Low 4) Opaque	PASCM
Safety Lock PIN	You can change the password.	PASCM
Reset	Picture parameters are replaced with the factory default values. 1) Image Reset 2) Color Reset	1) Image Reset

		PM
Video Wall	A Video Wall is a set of video screens that are connected together, so that each screen shows a part of the whole picture or so that the same picture is repeated on each screen. 1) Video Wall : Turns Off/On the Video Wall function of the selected display. • Off • On 2) Format : The format can be selected to see a divided screen. • Full Provides a full screen without any margins. • Natural Displays a natural image with the original aspect ratio intact. 3) Screen Divider : The screen can be divided into. You can select a number of screens with a different layout when dividing. • Select a mode from Screen Divider. • Select a display from Display Selection. • The place will be set up by pressing a number in the selected mode. • 2*2 • 3*3 • 4*4 • 1*5 • 5*1 When Video Wall is running, the PIP, Auto Adjustment, Image Lock, and Size functions are not available. Launching Video Wall while PIP is running, will switch PIP Off. Video Wall does not operate in MagicNet mode.	1) Video Wall 2) Format 3) Screen Divider PASC
Resolution Select	When the picture is not displayed properly on the screen when setting the graphics card resolution of the computer to 1024 x 768 @ 60Hz, 1280 x 768 @ 60Hz, 1360 x 768 @ 60Hz or 1366 x768 @ 60Hz, by using this function(Resolution Select) you can have the picture displayed on the screen in the specified resolution. • Off • 1024 X 768 • 1280 X 768 • 1360 X 768 • 1366 X 768 • 1366 X 768 • Selecting the menu is only allowed when the graphics resolution is set to 1024 x 768 @ 60Hz, 1280 x 768 @ 60Hz, 1360 x 768 @ 60Hz or 1366 x768 @ 60Hz.	P
Screen Scroll	 The Screen Scroll function is used to prevent afterimages that may appear when a still picture is displayed on the screen over a long time. The Screen Scroll function scrolls the screen for the specified period of time. This function is not available when the power is turned off. 1) Auto Scroll Determines whether to turn the Screen Scroll function On or Off. Off On 2) Interval Determines the time interval to run the Screen Scroll operation. (1~10 Hours) The time is calculated on the basis of the power on time. By default, the time is set to 10 hours. 1~10 Hours 	1) Auto Scroll 2) Interval 3) Second PASC



Input Picture Sound Setup Multi Control Direct Functions MagicNet MagicNet (SERVER)

Multi Control



Available Mode 📔 : PC / BNC / DVI 🔼 : AV 🔕 : S-Video 💽 : Component 🚺 : MagicNet

OSD	Description	Play
Multi Control	 Assigns individual ID to the SET. 1) ID Setup Assigning distinctive IDs to the SET. 2) ID Input Use to select the transmitter functions of the individual SET. Only the SET whose ID corresponds to the transmitter setting becomes activated. 	1) ID Setup 2) ID Input PASCM

Input Picture Sound Setup Multi Control Direct Functions MagicNet (SERVER)

Direct Functions



Available Mode 📔 : PC / BNC / DVI 🔼 : AV 🔕 : S-Video 💽 : Component 🚺 : MagicNet

OSD	Description	Play
MAGICNET	Move to the MagicNet OSD screen.	PASCM
MDC	Move to the Multi Control OSD screen.	PASCM
LOCK	Set the Safety Lock function. 1) Lock On I ti will be locked on. 2) Lock Off I ti wil be locked off. When setting the Lock function, you can only operate power and lock buttons on the remote control and set. The preset password on the monitor is "0000".	1) Lock On 2) Lock Off PASCM

Input Picture Sound Setup Multi Control Direct Functions MagicNet (SERVER)

MagicNet



- The operating system for this set supports English only so the other languages might be corrupt on screen.
- For MagicNet, the remote control is available for its operation. However, you are recommended to use a separate USB keyboard.
- For MagicNet with the Device mode, moving device surrounding while booting may • cause errors. Set up device surrounding only if monitor turns on or doing well.
- Do not unplug the LAN cable used for the network (ex: video display). Otherwise, • the program (MagicNet) may stop. If you do unplug the cable, restart the system. Do not unplug the LAN cable used by an USB device (ex: video display).
- Otherwise, the program (MagicNet) may stop. To access other sources, press the SOURCE button in MagicNet.
- •
- The preset password on the monitor is "000000". •
- The server program's Power-On option works only if the monitor's power is • completely shut off. Please make sure not to use the Power-On option when the monitor is in the

process of shutting up since it can possibly cause systemetic error on the monitor.

In the OSD image of MagicNet, Network mode is the same as Device.

- When using MagicNet with MagicNet Server Program : execute Network mode.
- When using MagicNet with the device directly connected to monitor : execute Device • mode.

OSD	Description	Play
Photo	 JPEG, BMP file format is supported. 1) Auto Automatically fits the image to the window. / Original Shows the properties of an original file. 2) Slide Show Displays the properties of the original file as they are. 3) Interval Controls the time intervals between image files for a slide show. (5 Sec, 10 Sec, 20 Sec, 30 Sec, 60 Sec) 4) Rotation Displays an image file by turning it clockwise by 90 . 5) Zoom Displays an enlarged picture. 6) Close Closes Menu for image control. 	1) Auto/Original 2) Slide Show 3) Interval 4) Rotation 5) Zoom 6) Close
Music	MP3 file format is supported.	
Movie	AVI, MPEG1/2, DivX 4.x, DivX 5.x file format is supported. 1) Play : Plays a movie file.	1) Play

	2) Full Size	2) Full Size
	: Plays a movie file in full screen.	
OFFICE/HTML	PPT(Power Point), DOC(MS Word), XLS(MS Excel), PDF, HTML, HTM files are displayed.	
Internet	Connects to the Internet.	
Setup	 You can set various functions in MagicNet mode. You must enter the password to access Setup mode. The password should be between 6 and 12 characters in numeric format. (You should enter a password between 6 and 12 characters in numeric format) If you enter the wrong password three times, the setup configuration is reset and a warning message from the server appears. If you forget the password, enter Info, 8, 2 and 4 on the remote control to initialize the password. This will reset the previous settings of Setup mode. 1) Schedule View Displays a schedule. 2) TCP/IP You can change the TCP/IP settings. 3) Homepage You can change the Internet primary address. 4) Network Setup You can modify the network settings. 5) Change Password You can change the password. 6) Keyboard In MagicNet you can select a preferred keyboard language. When the selection is over, MagicNet will reboot, and the selected keyboard language. The program language itself does not change into the selected language. 	1) Schedule View 2) TCP/IP 3) Homepage 4) Network Setup 5) Change Password 6) Keyboard 6) Keyboard

SyncMaster 460P



Input Picture Sound Setup Multi Control Direct Functions

Input



Available Mode

P : PC / BNC / DVI

🔼 : AV 🛛 S : S-Video

C : Component

OSD	Description	Play
Source List	Use to select PC, BNC or other external input sources connected to the Monitor. Use to select the screen of your choice. - The direct button on the remote control is 'SOURCE' button. The PIP turns off when the monitor is switched to an external source. 1) PC 2) BNC 3) DVI 4) AV 5) S-Video 6) Component	PASC
PIP	When external A/V devices such as VCRs or DVDs are connected to the monitor, PIP allows you to watch video from those devices in a small window super-imposed on the PC	

Edit Name	Video signal. (Off/On) Wore than one PIP couldn't be overlapped on screen as BNC and the component use the same terminal. 1) PIP - The direct button on the remote control is 'PIP' button. - Off - On : Turn the PIP Screen on or off. 2) Source - The direct button on the remote control is 'SOURCE' button. - PC / DVI : AV / S-Video / Component Mode - BNC : AV / S-Video (Component Mode - BNC : AV / S-Video Mode - Component : PC / DVI Mode : Select the input source for the PIP. 3) Swap - The direct button on the remote control is 'SWAP' button. : Swapping the contents of the PIP and main image. The direct button on the remote control is 'SWAP' button. : Swapping the contents of the PIP and main image. The direct button on the remote control is 'SIZE' button. : Change the Bize of the PIP window. If you select [], [], [], [], [] in Size, Position and Transparency will not be activated. 5) Position : Change the Position of the PIP window. If you select [], [], [], [] in Size, Position and Transparency will not be activated. 5) Position : Change the Position of the PIP window. If you select [], [], [], [] in Size, Position and Transparency will not be activated. 5) Position : Change the Position of the PIP window. 4) Transparency - High Medium - Low - Opaque : Adjust the Transparency of PIP windows. Available Mode : PIP Name the input device connected to the input jacks to make	1) PIP 2) Source 3) Swap 4) Size 5) Position 6) Transparency PASC
	your input source selection easier. 1) PC 2) BNC 3) DVI 4) AV 5) S-Video 6) Component	PASC

Input Picture Sound Setup Multi Control Direct Functions

Picture

PC / BNC /DVI Mode



Available Mode

P: PC / BNC / DVI

AV S: S-Video

C: Component

OSD	Description	Play
MagicBright™	MagicBright™ is a new feature providing the optimum viewing environment depending on the contents of the image you are watching. Currently four different modes are available: Entertain, Internet, Text and Custom. Each mode has its own pre-configured brightness value. You can easily select one of four settings by simply pressing the MagicBright™ control button. - The direct button on the remote control is 'M/B' button. 1) Entertain : High brightness For watching motion pictures such as a DVD or VCD. 2) Internet : Medium brightness For working with a mixture of images such as text and graphics. 3) Text : Normal brightness For documentations or works involving heavy text. 4) Custom Although the values are carefully chosen by our engineers, the pre-configured values may not be comfortable to your eyes depending on your taste. If this is the case, adjust the brightness and contrast by using the OSD menu.	
Custom	You can use the on-screen menus to change the contrast and brightness according to personal preference. 1) Contrast : Adjust the Contrast. 2) Brightness : Adjust the Brightness.	
If you adj	just picture using Custom function, MagicBright will turn to Custom mod	e.
Color Tone	The tone of the color can be changed. 1) Cool 2) Normal 3) Warm 4) Custom	
Color Control	Adjust the individual R, G, B color controls. 1) Red 2) Green	

	3) Blue	
If you adj	ust picture using Color Control function, Color Tone will turn to Custom n	node.
Image Lock	 Image Lock is used to fine-tune and get the best image by removing noise that creates unstable images with jitter and shimmer. If satisfactory results are not obtained using the Fine adjustment, use the Coarse adjustment and then use Fine again. 1) Coarse Removes noise such as vertical stripes. Coarse adjustment may move the screen image area. You may relocate it to the center using the horizontal control menu. 2) Fine Removes noise such as horizontal stripes. If the noise persists even after fine tuning, repeat it after adjusting the frequency (clock speed). 3) Position Adjusts the screen location horizontally and vertically. 	1) Coarse / Fine 3) Position
Auto Adjustment	The values of Fine, Coarse, position are adjusted automatically. If you change resolution in the control panel, auto function will be executed. - The direct button on the remote control is 'AUTO' button.	
Signal Balance	 Used to make up for the weak RGB signal which has been transmitted by a long signal cable. 1) Signal Balance You can select with the signal control either On or Off. 2) Signal Control You can adjust the R Phase, G Phase, B Phase, Gain and Sharpness manually. 	1) Signal Balance (2) Signal Control
Size	You can switch the Size. 1) 16:9 2) 4:3	
PIP Picture	You can adjust the PIP Screen Settings. 1) Contrast : Adjusts the Contrast of the PIP window on the screen. 2) Brightness : Adjusts the Brightness of the PIP window on the screen. 3) Sharpness : Adjusts the difference between the lightest and darkest areas of the PIP window. 4) Color : Adjusts the Color of the PIP window on the screen. 5) Tint : Adds a natural tone to the PIP window. Available Mode : PIP	P

AV / S-Video / Component Mode



PC / BNC / DVI 🔼 : AV C : Component Available Mode S : S-Video Play OSD Description Mode The Monitor has four automatic picture settings ("Dynamic", "Standard", "Movie" and "Custom") that are preset at the factory. You can activate either Dynamic, Standard, Movie, or Custom. You can select "Custom" which automatically recalls your personalized picture settings. - The direct button on the remote control is 'P.MODE' button. 1) Dynamic 2) Standard 3) Movie 4) Custom Custom You can use the on-screen menus to change the contrast and brightness according to personal preference. 1) Contrast : Adjusts the Contrast. 2) Brightness : Adjusts the Brightness. 3) Sharpness : Adjust the picture sharpness. 4) Color : Adjust the picture color. 5) Tint (Available in AV/S-Video Mode Only) : Adds a natural tone to the display. The tone of the color can be changed. The individual color **Color Tone** components are also user adjustable. 1) Cool2 2) Cool1 ASC 3) Normal 4) Warm1 5) Warm2 Size You can switch the Size.

Digital NR

1) 16:9 2) Panorama 3) Zoom 1 4) Zoom 2 5) 4:3 - ZOOM1, ZOOM2, Panorama are not available in 1080i(or over 720p) of DTV. Digital Noise Reduction. You can turn the Noise Elimination feature Off/On. The Digital Noise Elimination feature allows you to enjoy

	clearer and crisper images. Off On	ASC
Film Mode	You can turn Film Mode Off/On. The Film Mode feature offers you a theater-quality viewing experience. ••• Off ••• On	
DNIe Demo	 Digital Natural Image engine Samsung's new technology brings you more detailed images with contrast and white enhancement and 3D noise reduction. A New image compensation algorithm gives brighter, clearer images to our customers. DNIe technology will match every signal to your eyes. You can compare a screen with DNIe to that without DNIe. The left half will show an image with DNIe while the right half will display the image without DNIe. This monitor supports the DNIe feature by default. Off Switches off the DNIe Demo mode. On Switches on the DNIe Demo mode. 	
PIP Picture	You can adjust the PIP Screen Settings. 1) Contrast : Adjusts the Contrast of the PIP window on the screen. 2) Brightness : Adjusts the Brightness of the PIP window on the screen. Available Mode : PIP	

Input Picture Sound Setup Multi Control Direct Functions

Sound



OSD	Description	Play
Mode	The Monitor has a built-in high fidelity stereo amplifier. 1) Standard : Choose Standard for the standard factory settings. 2) Music : Choose Music when watching music videos or concerts. 3) Movie : Choose Movie when viewing movies. 4) Speech : Choose Speech when watching a show that is mostly dialogue (i.e., news). 5) Custom : Choose Custom if you want to adjust the settings according to personal preference.	PASC
Custom	The sound settings can be adjusted to suit your personal preference. 1) Bass : Emphasize low frequency audio. 2) Treble : Emphasize high frequency audio. 3) Balance : Allows you to adjust the sound balance between the left and right speakers You can hear the sound even when the sound value is set to 0.	PASC
Dolby Virtual	Dolby Virtual Sound Off/On (Dolby Virtual simulates the effect of the Dolby Surround sound system, recreating the movie- theatre or concert-hall- quality sound.) Off On	PASC
BBE	The direct button on the remote control is 'BBE' button. BBE (Bass Booster Effect) recreates the natural sound and improves sound clarity through boosting high and low range frequencies. As a result, high sounds are clearer, brilliant and finely detailed while low sounds are tight, well-defined and harmonically rich. Off On and Dolby Virtual cannot be functioned at the same time.	PASC
Sound Select	You can select either Main or Sub when PIP is On. Main Sub Available Mode : PIP	P

Input Picture Sound Setup Multi Control Direct Functions

Setup



Available Mode

PC / BNC / DVI

🖪 : AV 🛛 S : S-Video

C : Component

OSD	Description	Play
Time	Use to choose one of 4 time settings, Clock Set, Sleep Timer, On Timer, and Off Timer. 1) Clock Set : Current Time Setting. 2) Sleep Timer : Use to set the Monitor to turn off automatically in certain minutes. (Off, 30, 60, 90, 120, 150, 180) 3) On Timer : Use to set the Monitor to turn on automatically at a preset time. Use to control the mode, volume level at the time the monitor turns on automatically. 4) Off Timer : Use to set the monitor to turn off automatically at a preset time. When you select turning Yes the On Timer or Off Timer when Clock Set is undefined, a guiding message pops up: "Set the clock first.".	1) Clock Set 2) Sleep Timer 3) On Timer 4) Off Timer PASC
Lamp Control	Used to adjust inverter lamp in order to reduce energy consumption.	PASC
Language	You can choose one of 11 languages. • English, Deutsch, Español, Français, Italiano, Svenska, 日本語, 中国语,Русский, 한국어, Português The language chosen affects only the language of the OSD. It has no effect on any software running on the computer.	PASC
Menu Transparency	Changes the opaqueness of the background of the OSD. 1) High 2) Medium 3) Low 4) Opaque	PASC
Safety Lock PIN	You can change the password.	PASC
Reset	Picture parameters are replaced with the factory default values. 1) Image Reset 2) Color Reset	1) Image Reset

		P
Video Wall	A Video Wall is a set of video screens that are connected together, so that each screen shows a part of the whole picture or so that the same picture is repeated on each screen. 1) Video Wall : Turns Off/On the Video Wall function of the selected display. • Off • On 2) Format : The format can be selected to see a divided screen. • Full Provides a full screen without any margins. • Natural Displays a natural image with the original aspect ratio intact. 3) Screen Divider : The screen can be divided into. You can select a number of screens with a different layout when dividing. • Select a mode from Screen Divider. • Select a display from Display Selection. • The place will be set up by pressing a number in the selected mode. • 2*2 • 3*3 • 4*4 • 1*5 • 5*1 When Video Wall is running, the PIP, Auto Adjustment, Image Lock, and Size functions are not available. Launching Video Wall while PIP is running, will switch PIP Off.	1) Video Wall 2) Format 3) Screen Divider PASC
Resolution Select	When the picture is not displayed properly on the screen when setting the graphics card resolution of the computer to 1024 x 768 @ 60Hz, 1280 x 768 @ 60Hz, 1360 x 768 @ 60Hz or 1366 x768 @ 60Hz, by using this function(Resolution Select) you can have the picture displayed on the screen in the specified resolution. • Off • 1024 X 768 • 1280 X 768 • 1360 X 768 • 1366 X 768	P
Screen Scroll	 resolution is set to 1024 x 768 @ 60Hz, 1280 x 768 @ 60Hz, 1360 x 768 @ 60Hz or 1366 x768 @ 60Hz. The Screen Scroll function is used to prevent afterimages that may appear when a still picture is displayed on the screen over a long time. The Screen Scroll function scrolls the screen for the specified period of time. This function is not available when the power is turned off. 1) Auto Scroll Determines whether to turn the Screen Scroll function On or Off. Off On 2) Interval Determines the time interval to run the Screen Scroll operation. (1~10 Hours) The time is calculated on the basis of the power on time. By default, the time is set to 10 hours. 1~10 Hours 	1) Auto Scroll 2) Interval 3) Second PASC



Input Picture Sound Setup Multi Control Direct Functions

Multi Control



OSD	Description	Play
Multi Control	Assigns individual ID to the SET. 1) ID Setup : Assigning distinctive IDs to the SET.	1) ID Setup
	 2) ID Input : Use to select the transmitter functions of the individual SET. Only the SET whose ID corresponds to the transmitter setting becomes activated. 	2) ID Input

Input Picture Sound Setup Multi Control Direct Functions

Direct Functions


Available Mode

PC / BNC / DVI

🔼 : AV 🛛 S : S-Video

C : Component

OSD	Description	Play
MDC	Move to the Multi Control OSD screen.	PASC
LOCK	Set the Safety Lock function. 1) Lock On : It will be locked on. 2) Lock Off : It wil be locked off. When setting the Lock function, you can only operate power and lock buttons on the remote control and set. The preset password on the monitor is "0000".	1) Lock On 2) Lock Off PASC



🛃 Introduction to MagicNet



MagicNet transmits media files (photo, audio and movie files) and office files (PowerPoint, Excel, Word, HTML and PDF files) existing on a server to monitors using the Ethernet network of the server/client architecture.

Several monitors can be connected to a server, and any file can be transmitted to any monitor over the network.

Files can be transmitted in two ways: the server sends files to the monitors after registering with the schedule; or the monitor searches for the files

registered in the library of the server, sends the files to the monitors, and plays those files after receiving them via the network.

When more than one server is connected, you can select a server from the monitor and receive the schedule.

Each monitor is capable of accessing the Internet by itself.

Servers and monitors are connected over the network, and each server and monitor has a proper name to confirm each other.

Hence, the name of the server must be identical between the server and the clients for a normal connection.

That is, when a server's name is "MagicNet", only monitors set to "MagicNet" can be connected to this server.

When a server name does not exist under the name set in the monitor, it will wait until the server with the identical name appears.

However, when the auto connection function is on, it will try to connect to other servers, and will connect to the server that gives the first reply.

Added Functions in MagicNet 2.0

1. Multiple Display Control (MDC)

The Multiple Display Control (MDC) **is a newly added function in MagicNet 2.0,** which can easily control several monitors from a PC simultaneously. MDC checks and controls the status of monitors that normally connect via the network.

This function prevents a random user from freely using MagicNet, by placing limits on the operation of functions according to the account privilege.

3. Update

You can update a monitor's MagicNet from the server. However, this function only works when it is connected to a server/monitor with MagicNet Ver 2.0 or higher.

4. Controlling Local Storage Devices/USB File Control of Monitors

You can copy or delete files to a monitor's local storage device or via USB connected to the monitor.

5. Schedule Pause

This function pauses the ongoing schedule in the monitor, and is useful in the event of urgently needing to conduct other work.

Press the buttons in the order of [+100]-[8]-[2]-[4]-[ENTER] on the monitor with the remote control, and the schedule will pause temporarily.

To resume the temporarily paused schedule, press the buttons in the order of [PRE-CH]-[8]-[2]-[4]-[ENTER] on the remote control.



MagicNet	····· Help
Introduction to Adjustment MDC	Upper Remote Control Removing Troubleshooting Specifications

🛃 Schedule OSD

The server program's Power-On option works only if the monitor's power is completely shut off. Please make sure not to use the Power-On option when the monitor is in the process of shutting up since it can possibly cause systemetic error on the monitor.

MagicNet	Logout E	Change Password	Option	🕅 Help	
Reg. Lbrary Reg. Schedule Reg. Schedule Schedule	3		VIDEO	Ep01 2005-08-01 PM 01:12:18 640 x 480	57:01 717819 • q 5 joket • 6
Schedule MDC	11 Title	Туре	Artist	Date	Run Time
All Monitors 2005.08.01	Ep01	.avi		2005-08-01 PM 01:12:18	57:01
0	Ep02	.avi		2005-08-01 PM 01:12:28	57:25
v					07160
	Ep03	.avi		2005-08-01 PM 01:12:32	59:14
	Ep03 Ep04	.avi .avi			
				2005-08-01 PM 01:12:32	59:14
	Ep04 Ep05 Ep06	.avi		2005-08-01 PM 01:12:32 2005-08-01 PM 01:12:35 2005-08-01 PM 01:12:39 2005-08-01 PM 01:12:43	59:14 01:00:23 01:00:59 58:17
	Ep04 Ep05 Ep06 Ep07	.avi .avi .avi .avi		2005-08-01 PM 01:12:32 2005-08-01 PM 01:12:35 2005-08-01 PM 01:12:39 2005-08-01 PM 01:12:43 2005-08-01 PM 01:12:45	59:14 01:00:23 01:00:59 58:17 59:55
	Ep04 Ep05 Ep06	.avi .avi .avi		2005-08-01 PM 01:12:32 2005-08-01 PM 01:12:35 2005-08-01 PM 01:12:39 2005-08-01 PM 01:12:43	59:14 01:00:23 01:00:59 58:17
	Ep04 Ep05 Ep06 Ep07	.avi .avi .avi .avi		2005-08-01 PM 01:12:32 2005-08-01 PM 01:12:35 2005-08-01 PM 01:12:39 2005-08-01 PM 01:12:43 2005-08-01 PM 01:12:45	59:14 01:00:23 01:00:59 58:17 59:55

- 1 Registering to the Library
- 2 Library List
- 3 Monitor Preview Window
- 🕘 Network
- 6 File Information
- 6 MagicNet/Network On/Off Status or Image Selection Menu
- 🕖 Play Control Tool
- 8 Registering / the Schedule
- 😢 Date
- Onitors connected via the Network
- 🕕 Fields Window

Registering to the Library AUP

What is the Library?

The library consists of a collection of files which can be played from a monitor connected to the MagicNet program. The monitor can only play files with the supported formats registered in the library. The library only accepts files of the supported formats.

- Press the "Reg. Library" button to select files that can be registered to the library.
- It has been designed in such a way that only files playable by a monitor can be registered. The selected files are analyzed and the result is displayed.
- Files added to the library are first, automatically classified in the list (2) as movie, audio, photo and office files, and then they are further classified according to the file type.
- The Fields window(())displays the registered files and their information.

.

😢 Library List 🔺 Up

Files added to the library are first, automatically classified in the list as movie, audio, photo and office files, and then they are further classified according to their properties.

- All file : Displays all files which are registered in the library.
- Video File : Classified by actor (actress)
- Music File : Classified by musician and album
- Image File
- Office file : Classified by file type (PowerPoint, Excel, Word, PDF, HTML)

🚯 Monitor Preview Window 🗛 Up

This window is used either to preview a file (a movie or photo file) registered in the library list (2) and selected in the fields window (1), or to monitor a monitor.

1. Playing a file registered in the library

Click on a classification in the library list (2), and the files under the selected classification are displayed in the fields window (1). Then, double-click on a file in the fields window to play it. While playing, the file information is displayed in Only audio, movie, and image files can be played. For office files, only file information is displayed in O. However, if monitoring for a monitor is proceeding, the information being monitored is displayed instead.

2. Monitoring the selected monitor (Preview)

With the relevant monitor selected by a number (0) (the name of the monitor will be displayed in the field (4), the screen played by the currently-selected monitor will be displayed. Audio, video and image files can be played, while only the file information appears for office files.

(In this case, only files registered in the library of the server will be played, and the local/USB files on the monitor will display only the basic information. In addition, when the output source of a monitor does not belong to MagicNet, information on the relevant output source will be displayed.)

🕘 Network 🔺 Up

The status bar next to the monitor name will display the overall network status (traffic) of all the monitors connected to the server. For example, assume that the network system capability is 100Mbs and a 100Mbs network card is installed in the server. If there is no network traffic used for other purposes, three monitors are connected, and each monitor uses 10Mbs of traffic, the progression will be indicated as about 30%.

- A Server PC Environment: Recommended (CPU: 3GHz, RAM:512M, Ethernet: 100M)
- Ø Network Environment: Local network not connected externally Normal: Server PC network bandwidth: 50% ~ 60% Max: Server PC network bandwidth: 90% or more (not recommended)
- For a LAN-connected environment, the connectable number of devices may be reduced depending on the availability of neighboring networks.

6 File Information ▲Up

This will display the name, date, size and resolution of the current file.

6 MagicNet/Network On/Off Status or Image Selection Menu ▲Up

Displays the On and Off status for the power and the network. Selecting an image file will change to the appropriate image menu.

Extended Image Menu

Slide Show ←Prv →Nxt ■ Stop 🛛 Full Screen

Slide	 When the files are selected in the library list : Sequentially displays the image files registered to the library. When monitoring information is being played from a schedule : Displays the image files registered to the schedule. When monitoring the information which the monitor user is selecting and playing : This function is disabled.
Previous	 When the files are selected in the library list : Displays the previous file. When monitoring information is being played from a schedule : Displays the previous file. If a slide show is in progress, the slide show is stopped. When monitoring the information which the monitor user is selecting and playing : This function is disabled.
Next	 When the files are selected in the library list : Displays the next file. When monitoring information is being played from a schedule : Displays the next file. If a slide show is in progress, the slide show is stopped. When monitoring the information which the monitor user is selecting and playing : This function is disabled.
Stop	 When the files are selected in the library list : Stops the slide show. When monitoring information is being played from a schedule : Stops the slide show. When monitoring the information which the monitor user is selecting and playing : This function is disabled.
Full Screen	Enlarges/shrinks an image file to fit to the full screen. Double-click the screen to return to the original image size.

Controls for play, stop, next file, previous file, and volume when playing a movie or audio file.

🗊 Play / Pause	 When the files are selected in the library list : Plays the audio/movie files registered with the library list. When monitoring information is being played from a schedule : Plays the audio/movie files registered with the schedule. When monitoring the information which the monitor user is selecting and playing : This function is disabled.
O Stop	 When the files are selected in the library list : Stops playing an audio/movie file. When monitoring information is being played from a schedule : This function is disabled. When monitoring the information which the monitor user is selecting and playing : This function is disabled.
RO Previous/Next	 When the files are selected in the library list : Plays the previous/next file in the library list. When monitoring information is being played from a schedule : Plays the previous/next file in the schedule list. When monitoring the information which the monitor user is selecting and playing : This function is disabled.
first/last 5 seconds	 When the files are selected in the library list : Plays the first/last 5 seconds of the file. When monitoring information is being played from a schedule : Plays the first/last 5 seconds of the file. When monitoring the information which the monitor user is selecting and playing : This function is disabled.

8 Registering/Editing the Schedule - Up

Allows you to register the files to be run on the monitor in advance.

Schedule Register Menu

- Library : Registering the schedule through the library Among the files on the server PC, files that are added through the registration procedures in the library can be registered with the schedule.
 - 1. When selecting a file from among the files already registered, or selecting a random file from the schedule registration window,
 - the file is selected as a schedule file through the library registration procedures.2. When selecting an image file for the schedule file, you can add background music from among the following music files. If a schedule file is not an image file, the add/delete
- button for the background music is not activated.
 Storage (Local/USB) : Registering the Storage (Local/USB) File Schedule
 - You can select a file from among the local storage of the monitor, or from the USB connected to the monitor to register the selected file with the schedule.
 - From the monitor list, select a monitor where the schedule is to be registered. The add/delete button of the schedule file is only activated when selecting a monitor that is currently connected to the server.
 - 2. You can add a file from the local storage device of the monitor, or from the USB connected to the monitor by pressing the add button. In this case, it will not go through the library registration procedures on the server.
 - When selecting an image file for the schedule file, you can add background music. When a schedule file is not an image file, the add/delete button for the background music is not activated.
- Input/Power : Registering the Input/Power Schedule

You can register the input source or Power Off for the monitor with the schedule.

- 1. You can schedule a change of the output source or the power for the monitor.
- 2. After selecting a monitor where the schedule is to be registered in the monitor list,

select an input source or Power Off from the Input/Power Selection.

 Set the schedule time and press the confirm button. It will change into the registered output source at the start of the schedule, and it will correctly return to the MagicNet Menu screen when the schedule is over.

1. Selecting a Monitor

Selecting either all monitors or a specific monitor, where the schedule will be added to, is available from among the monitors connected via the network.

2. Schedule a File Add/Delete

You can select, add or delete the file to be added to the schedule.

3. Background Music Add/Delete

Available only when using image files. Selects an audio file to use as the background music in advance when playing an image file registered to the schedule.

4. Schedule

• Start Time

This means the starting time of a schedule, which can be entered in years/months/days/hours/minutes. It is possible to set the start time of a schedule within 7 days of the current day, however setting a time later than 7 days from now is not available.

Total Run Time

The total period of time reserved in the schedule

• Repeat Function

- In repeating the schedule at an interval of a day/week/month, select the interval to be repeated and the date for completing the repeat. The end date of such a repetition can be set within 1 year of the current date.
- If you do not select the repeat option or do not select the end date of the repetition,

the schedule will be added once by default.

5. Options

• Insert between Existing Schedules

This means that a new schedule will be inserted without affecting the total playing time of the existing schedules. If a new schedule to be inserted,

intrudes on the end time of an existing schedule, the start time selected by the user is ignored,

and the start time is changed to after the end time of the existing schedule. When the new schedule to be added intrudes on the start time of an existing schedule, the start time of the existing schedule is changed to after the end time of the new schedule.

Ignore/Overwrite Existing Schedules

Existing schedules are ignored, and a new user schedule overwrites at the required time. If the new schedule overlaps with an existing schedule, the time of the existing schedule can be changed or even be deleted,

since it is overwritten by the new schedule.

😗 Date 🔺 Up

Displays the registered schedules in the Fields window ((0)) whose date are later than today ((9)).

10 Monitors Connected via the Network Up

Lists the names of monitors registered via the network. When a monitor is connected to the network, its background color changes to yellow-green.

· Reconnect to another server automatically

- 1. When selecting a monitor that is currently connected to a server in the monitor list and right-clicking it with the mouse, you can see an item titled 'Reconnect to another server automatically'.
- When selecting 'Reconnect to another server automatically', the field in front of the menu item is marked,

and will also be marked in the option Setup iæ Network Setup 'Reconnect to another server automatically' in the monitor.

3. Selecting this menu enables a monitor to search for another server and connect to a found server when the connection to the server with the name defined in the Setup is not available.

Let's say there are two servers called S1 and S2, respectively, and a monitor called C, which is currently connected to the S1 server. When the connection to S1 fails or stops, C will automatically be connected to the S2 server.

• Setting Up a User Password

- When selecting a monitor that is currently connected to a server in the monitor list and right-clicking it with the mouse, you will see an item titled 'Setting up a user's password'.
- When selecting 'Setting up a user password', the field in front of the menu item is marked, and will also be marked in the option Setup iæ Network Setup 'Ask for user password' in the monitor.
- This is to prevent a random user from using MagicNet indiscriminately. If you select this option, you will be required to enter your password to access the MagicNet menus (Network, Photo/Movie/Music/Office of device, etc.).

• Update

- When selecting a monitor that is currently connected to a server in the monitor list and right-clicking it with the mouse, you can see an item titled 'Update' in the menu. This item enables you to update MagicNet (File name: NK.bin) on the monitor.
- 2. This item will be deactivated in monitors that are not connected to a server.
- If you select the Update item, a window pops up. Search for the path to NK.bin, select it, and click the Update button.
 The update will proceed in two steps: Download (Save the update file in the monitor) iæ Update (MagicNet installation)
- 4. You may cancel this function during the download stage, but not during the update stage.
- 5. Once the update is completed, the monitor will reboot automatically.
- If you try updating with an abnormal file, a warning message will appear, and the update will not proceed.
- Please make sure that the power of the monitor is not turned off while updating once the download is over.
 Furthermore, if the output source is a PC, please turn off the 'monitor off' function in the power options of the connected PC for the duration of the update.
 MagicNet is not operating normally.
 If the power turns off during the update, contact our After-Sales Service Center.

Schedule Check

1. Select All Monitors:

Checks on all schedules of the registered monitors are available in the ((1)) field. Right-clicking the mouse can turn the power ON or OFF as well as deleting the field. In addition, you can change the name of the monitors.



The server program's Power-On option works only if the monitor's power is completely shut off. Please make sure not to use the Power-On option when the monitor is in the process of shutting up since it can possibly cause systemetic error on the monitor.

2. Select Monitor :

The schedules of the relevant monitor is queued.

• Rename

Type a new name and click confirm. The new name will be saved.

🕕 Fields Window 🔺 Up

Displays the status of a file.

- When selecting All Monitors in the Schedule, you can view all schedules registered for each monitor.
- Control the time by double-clicking on a schedule.
- When a monitor is selected in the monitor list. Displays the file name including the path, category, start time, end time and playtime.
- When the All Monitors entry is clicked in the monitor list (3), schedules are not displayed in a list, but with images of a box type. The schedules for all monitors in the monitor list are displayed here. You can control the time by double clicking on a box type schedule, dragging and dropping a schedule to move it to a different position, and cut, delete and paste a schedule by using the menus displayed when the right mouse button is clicked.
- 2. When you click on a monitor in the monitor list (③), the schedules for that monitor are displayed in the list. Right-clicking on a schedule list displays a context menu, allowing you to copy, delete, or edit it. By using the Edit menu, you can change the selected file and time. By using the Copy menu, you can select a monitor to copy.
- 3. The files registered to the library are displayed in a list. Right-clicking a file in the list displays a menu, allowing you to view properties for a schedule and deleting a schedule, depending on the kind of menu. You can also directly insert the selected file into a schedule.





MDC checks and controls the status of monitors that normally connect via the network.
How to Control

When selecting MDC from the monitor list window, the monitoring window and the schedule window change into a window showing the monitor status and the control window, respectively.
First, select the monitor to apply in the client list window.
If you choose All Monitors, all monitors will be selected.
If you try to run the detailed functions for each tab without first selecting a monitor, a warning message will appear.

After selecting a monitor, click each MDC tab to run the detailed functions.

In this case, when running menus that cannot be adjusted in the output source, the warning 'Adjustment unavailable' will appear. Furthermore, when running adjustable menus, the selected values will be applied to the monitor, and the results will be applied to the MDC status window.

If not applied to the monitor, it will also not be applied to the MDC status window.

The MDC functions comply with the specifications for running the monitor.

🛃 MDC OSD

several monitors from a PC.

MagicNet	🖬 Logout 🔊 Chan	ge Password	Option		🛿 Help	
Reg. Library Reg. Schedule	Monitor	Source	Image	Mute	Volume	PIP
Schedule MDC	Power Source	Colum	Time			Maintenance
		On) Off	-		
1 Power						
2 Source						
Image						
4 Time						

6 PIP
6 Settings
🕐 Maintenanace
Power - Up
Select Power ON/OFF.
• ON
• OFF
When changing the volume, the changed details will appear in an OSD on the monitor screen.
• 0 ~ 100
Source AUp
In the source tab, the output source of the monitor can be changed. When selecting the following output source, it will change to the relevant output source. When the relevant device is not connected, a screen with 'Connection required' will appear.
• PC
BNCDVI
• AV • S-Video
ComponentMagicNet
O Image ▲ Up
1. Image Size
The size of the current output screen with output sources other than PC signals is adjustable. When selecting the menu below, it will be changed to the selected size.
• 16:9
Panorama Zoom1
• Zoom2 • 4:3
• 4:3

• 4:3

🕘 Time 🔺 Up

 Current Time Establishes the standard time of the monitor. In Hours, Minutes and AM/PM, select the time, and click the Apply button. The current standard time of the monitor will be set. To activate the On/Off Timer at the set time, the Current Time must be set.
HoursMinutesAM/PM
 On Timer Select the time, output source and volume, and click the Apply button. The monitor will turn on with the established source and volume at the established time. When Activated is OFF, the ON Timer will not work.
 Hours Minutes AM/PM Activated Source Volume
 Off Timer Select the time and click the Apply button. The monitor will turn off at the set time. When Activated is OFF, the Off Timer will not work.
 Hours Minutes AM/PM Activated
Ib ► A D b
1. Size

Select a size. (The size selection has an 'ON' function)
Source
When selecting sources to be output to PIP, the relevant source will be applied to PIP.
When trying to change a source where PIP cannot be applied or the combination of Main/Sub is
incompatible,
a warning message will appear on the monitor.

6 Settings ▲ Up

1. Picture

For input sources other than for PC signals,

adjust the Contrast, Brightness, Sharpness, Color, Tint and Color Tone of the monitor.

- Contrast
- Brightness
- SharpnessColor
- ColoTint
- Color Tone
 - 2. Picture PC

When the output sources are PC signals,

adjust the Contrast, Brightness, Sharpness, Color, Tint and Color Tone of the monitor.

- Contrast
- Brightness
- Red
- Green
- Blue

3. Audio

Adjust the Bass, Treble and Balance, and set Main/Sub for the Sound Select of Dolby Virtual ON/OFF, BBE ON/OFF and PIP. In the course of making adjustments, changes appear as OSDs on the monitor screen.

- Bass
- Treble
- Balance
- Dolby Virtual
- BBE
- Sound Select

4. Adjust Image Lock

Course, Fine, and select Position.

- Coarse
- Fine
- Position
- Auto Adjustment

7 Maintenance 🔺 Up

1. Lamp Control

You can control the intensity of the lamp.

(Auto/Manual is available. When Auto is running, Manual is off; and when Manual is running, Auto is off.)

In Auto mode, the lamp is adjusted to the previously set value at the set time. In Manual, the previous value is maintained.

- Auto
- Hours
- Minutes
- AM/PM
- Value
- Manual

2. Scroll

This function prevents the screen status changing when the same screen is maintained continuously. If you select the Period and Time and press the Apply button, the screen

will scroll downwards at the speed of the previously set time in Period.

For example, for Period 1, Time 5, the screen will be renewed every hour at a speed of 5 seconds.

- Period
- Time

3. Video Wall This offers a function that enables you to use several monitors as one screen. First, select the button that sets the number of monitors to be used and their allocation. The allocation figure will appear as a selectable button on the side. For example, when you choose 2*2, selectable buttons in the form of 2 rows and 2 lines appear, and if you select number 3 in this matrix, the third screen of the output screen divided by 4 will show up in the monitor. • 2*2 • 3*3

- 3*3 • 4*4
- 1*5
- 5*1
- OFF
- Format



MagicNe	Help
Introduction to Schedule MDC MagicNet OSD Adjustment	Upper Remote Control Removing Troubleshooting Specifications

🛃 Upper Menu

MagicNet		Change Password	Ciption	Il Help	
Reg. Library Reg. Schedule	-		VIDEO	Al Monitors Ep01 2005-08-01 PM 01:12:18 640 x 480	57:01 717818 KB
Schedule MDC	Title	e Type	Artist	Date	Run Time
All Monitors 2005.08.01	Ep01	.avi		2005-08-01 PM 01:12:18	57:01
	Ep02	.avi		2005-08-01 PM 01:12:28	57:25
	Ep02 Ep03	.avi .avi		2005-08-01 PM 01:12:28 2005-08-01 PM 01:12:32	57:25 59:14
	Ep03	.avi		2005-08-01 PM 01:12:32	59:14
	Ep03 Ep04	.avi .avi		2005-08-01 PM 01:12:32 2005-08-01 PM 01:12:35	59:14 01:00:23
	Ep03 Ep04 Ep05	.avi .avi .avi		2005-08-01 PM 01:12:32 2005-08-01 PM 01:12:35 2005-08-01 PM 01:12:39	59:14 01:00:23 01:00:59
	Ep03 Ep04 Ep05 Ep06	.ลงา่ .ลงา่ .ลงา่ .ลงา่		2005-08-01 PM 01:12:32 2005-08-01 PM 01:12:35 2005-08-01 PM 01:12:39 2005-08-01 PM 01:12:43	59:14 01:00:23 01:00:59 58:17
	Ep03 Ep04 Ep05 Ep06 Ep07	.avi .avi .avi .avi .avi		2005-08-01 PM 01:12:32 2005-08-01 PM 01:12:35 2005-08-01 PM 01:12:39 2005-08-01 PM 01:12:43 2005-08-01 PM 01:12:45	59:14 01:00:23 01:00:59 58:17 59:55
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- 🚺 Login / Logout
- 2 Change Password
- Options
- 🕘 Help

🚺 Login / Logout 🔺 Up

Before using MagicNet, you first need to login. After a successful login, the Login button changes to a Logout button. A successful login is required to use the majority of functions.

When installing MagicNet for the first time, the administrator account is provided on the basis of the password entered by the user.

When adding an account, you can select from among three account types, and the selected account type decides the scope of using MagicNet. You may modify or delete the accounts of existing users as well as adding new users.

Account Type	Scope
Administrator	You have the authority to use all MagicNet functions.
Power User	You are not authorized to use the Options menu and the Update function of MagicNet.
Operator	You are not authorized to use the right mouse button click in the Library Registration, Options menu, MDC and Monitor List from among the MagicNet functions.

• User Name

Password

2 Change Password

You can change your password in the login status. Enter your password correctly before logging in.

You will be prompted to enter the password for installing MagicNet, and this password will become the default password for the administrator account. If you forget the password, please remove the program and re-install it.

- Old Passworld
- New Passworld
- Confirm Passworld

Options ▲Up

1. Server Name

In the Options, you can specify the server name for the connection information. The servers and monitors are connected via the network, and have proper names to identify each other. For a normal connection, the server name between a server and monitor must match. In other words, when the name of a server is MagicNet, only monitors whose server names are set to "MagicNet" can be connected to that server and receive the schedule. When there is no server with that name set in the monitor, it will wait until a server that matches this name appears. However, when the auto connction function is ON, it tries to connect to any server, and will connect to the server that replies first.

Server Name

2. User Account

When installing MagicNet for the first time, the administrator account is provided on the basis of the password entered by the user.

When adding an account, select from among three account types, and the selected account type decides the scope of using MagicNet. You may modify or delete the accounts of existing users as well as adding new users.

Account Type	Scope
Administrator	You have the authority to use all functions of MagicNet.
Power User	You are not authorized to use the Options menu and the Update function from among the MagicNet functions
Operator	You are not authorized to use the right mouse button click in the Library Registration, Options menu, MDC and Monitor List from among the MagicNet functions.

Create

Modify Delete

.

3. File Manager

File manager copies or deletes files.

Copying files can be done either from Server Folder iæ Server Folder, Server iæ Monitor, Monitor iæ Monitor.

A copy from a monitor to another is available only on the same monitor (i.e. different hard drives o nthe same monitor).

In the Select Monitor list, only My Computer of the server and the monitor that is correctly connected to the server will appear.

Copy File	Delete File
When selecting Options iæ File Manager, the File Management window appears. You can select a server/monitor from the select list. When selecting a monitor from the left window, you are only allowed to select the same monitor. After selecting the copy target, press the copy button. Copying the file will proceed. If the copy target is not a Photo/Music/Movie/Office file, an error message will appear, and copying will stop. In addition, when the file size exceeds the remaining capacity of the target drive, copying will also stop.	Select the file to be deleted using the same procedure as for copying a file, and click the delete button. The file will be completely deleted from the drive. (The list will be updated promptly). However, if you try to delete a file that is currently running, the error message "Unable to delete file" will appear.

• Delete File

🕘 Help 🔺 Up

1. **Help** Runs program help.

2. About MagicNet Indicates the program version and the copyright details.



agicNe	E.	•••	•••••••••	_
duction to agicNet	Schedule OSD A	MDC Upper djustment Menu	Remote Control Removing Adjustment Program	Specif
😫 Rem	ote Control Adj	ustment		
🛃 РНОТ	го			
	ted File Format nage File : JPG, B			
+ Remo	te Control			
	• When the files	are selected in the library	y list	
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Move to the previous page (when the current page is the last, it will move to the first page)

File view on the cursor position Play

🛃 MOVIE

Supported File Formats Video File : MPEG1, MPEG2-PS, DIVX4, DIVX5

+ Remote Control

• When the files are selected in the library list

		Move to the top (when the cursor is placed at the top, it will go back to the last file of the previous page)
10000	V	Move to the bottom (when the cursor is placed at the bottom, it will move to the first file of the next page)
		Move to the next page (when the current page is the first, it will move to the last page)
		Move to the previous page (when the current page is the last, it will move to the first page)
0000	INTER	File view on the cursor position Play

• Play

	►II	Play / Pause during playback
10000	•	Stop playing
	**	Play 5 seconds earlier
0000	**	Play in 5 seconds

🛃 OFFICE

Supported File Formats

Office File : Power MS Office(Word, Excel, Power Point), HTML, PDF

+ Remote Control

٠	When	the files	are se	lected in	the li	brary list
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20			
		Move to the top (when the cursor is placed at the top, it will go back to the last file of the previous page)	
		Move to the bottom (when the cursor is placed at the bottom, it will move to the first file of the next page)	
		Move to the next page (when the current page is the first, it will move to the last page)	
	۲	Move to the previous page (when the current page is the last, it will move to the first page)	





File view on the cursor position

• PDF

	$\langle $	Move to the top
10000	×	Move to the bottom
	۲	Move to the next page
	0	Move to the previous page
0000	EXIT ⊸ p	Exit PDF

Excel

 Excel 		
		Move to the upper cell
		Move to the lower cell
	-	Move to the left cell
		Move to the right cell
	۲	Move to the next page
	۲	Move to the previous page
		Move to the right sheet
	*	Move to the left sheet
	EXIT 🎵	Exit Excel

Power point Normal

		Move to the top
		Move to the previous page
"BIO	۲	Move to the next page
MODE THE ME	۲	Move to the previous page
	►II	Slideshow
	EXIT 🗊	Exit Power point

Power point Slideshow

VOL CHIMAGE	-	Stop slideshow
		Move to the top
0000	V	Move to the bottom
	۲	Move to the next page
0000	۲	Move to the previous page
		Exit Power point

• Word

	Move to the top
	Move to the bottom
	Move to the next page
۲	Move to the previous page
EXIT 	Exit Word

• HTML

	Move to the top
	Move to the bottom
۲	Move to the next page
۲	Move to the previous page
EXIT	Exit HTML

Ineternet

VOL CHANGE	\langle	Move the mouse cursor up
		Move the mouse cursor down
"A	9	Move the mouse cursor to the left
ANCE PIL BY MS		Move the mouse cursor to the right
00000	NTER NTER	Click when the cursor is placed over a link (move to the link)
	EXIT 	Exit the Internet





🛃 Removing Program

You can remove MagicNet by using the Add/Remove Options in Windows Programs or by using the delete menu provided when installing this program.

To remove MagicNet, complete the following steps.

- 1. Select [Start]->[Settings]->[Control Panel].
- 2. For Windows XP, select [Start]->[Control Panel].
- 3. Double-click the [Program Add/Remove] icon in the Control Panel.
- 4. Click the MagicNet in the [Program Add/Remove] window to highlight it.
- 5. Click [Change/Remove] to remove it.
- 6. Click OK to start removal of MagicNet.
- 7. Wait until the window appears which indicates that program removal is completed.



MagicN	let	3		•••		•••		• • • •	• • • H	elp
Introduction to MagicNet		edule SD	MDC Adjustment	Upper Menu	Remote Co Adjustm		Removing Program	Trouble	shooting	Specifications
🛃 Tro	oublesho	ooting								
?	In Pre	view, th	e file inforr	nation ca	n be viewed	d but no	t the image	2		
	-\$ ⁻	When first. MPEG2	files are not there is no c 2, DivX4,5 ar ponding code	odec availand AC3 are	able for the s played norn	server, n nally only	o file is displ v when the s	erver has th		
	9	PC, whi	s between co ch results in a program	a program	error. And t	he incon	nplete instal			
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?	When	Please Furthe Sched not ru	lule does no e check the s ermore, pleas lules will only n when the power g	tatus of Ma se confirm / run when monitor scl	agicNet for the sched if the sched the status of hedule is par	he monit ule paus of MagicN used.	or and that e function is let and the I	activated for letwork are	r the monitor ON, and will	
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	-\ <u>\</u>	This n the se is con norma	nay occur wh rver and the nected to an	en the net monitor is other serve	work configues not function er, not the c	uration is ning prop orrespon	s normal but perly. This m ding one, or	the connect ay occur wh	on between en the monit	
?	Passw	vord/Log	gin							
	-ŷ-		assword enter ord of the ac	,		installing	MagicNet w	ill become th	ne default	
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MagicNet	····· Help
Introduction to Schedule OSD MagicNet	DC Upper Remote Control Removing Troubleshooting Specifications

🛃 Specifications

+ Supported File Format Spec

		Desclution	Bit rate		Audio
	File Format	Resolution	CBR	VBR	Sampling rate
	MPEG1				
Video	MPEG2 (PS)	720x480 or less	or less 9Mbps or less	Peak bitate	-
video	DivX 4.x			9Mbps or less	-
	DivX 5.x				-
Audio	MP3	-	Available	Not Available	16kHz or more
Photo	JPEG	3500 x 2625	-	-	-
Photo	BMP	or less	-	-	-

9 For MPEG2, only PS (Program Stream) is supported and TS (Transport Stream) is not.

For JPEG, the EXIF Format (Digital Camera) is not supported. A

(However, Samsung digital cameras are supported)

Network Configuration (Number of Devices)

	Bit rate	Normal	Max
	4Mbps	10	20
Video	6Mbps	8	16
	9Mbps	5	9
Audio, Photo	-	20 or more	-

Server PC Environment: Recommended (CPU: 3GHz, RAM:512M, Ethernet: 100M)

Network Environment: Local network not connected externally

Normal: Server PC network bandwidth: 50% ~ 60% Max: Server PC network bandwidth: 90% or more (not recommended)

• For a LAN-connected environment, the connectable number of devices may be reduced depending on the availability of neighboring networks.

🔸 Server System Configuration

0

	CPU	RAM	Ethernet	OS	Application
Minimum	P1.8	256M		Windows XP	
Recommended	P3.0Ghz	512M	100M	Windows 2000 (Service Pack 4)	WMP 9 or later

+ Local Device (USB) Connection Speed

NFor a mass storage device such as a USB hard disk, it takes approximately 3 - 4 seconds for loading 1 GB.

 $\sqrt{}$ When the user operates MagicNet while the file is loading, a warning message is displayed.

+ Local Device (USB) compatibility

MID(Human Interface Devices) : Keyboard, Mouse

MSC(Mass Storage Class)

: Devices using the SCSI(Small Computer System Interface) command set

: FAT(File Allocation Table) System

📢 Exception

- : Some manufacturers have wrongly specified their device to be USB standard compatible.
- Our product has exception handling procedures. But Some devices are unlikely to work properly.
- : Some manufacturers have wrongly specified their device to be SCSI compatible.
- Such devices are unlikely to work properly.
- : It is recommended that USB devices are purchased after they are tested and confirmed to be compatible.







Self-Test Feature Check Check List

Q & A

Self-Test Feature Check



Check the following items yourself before calling for service. Contact the Service Center for problems that you cannot solve by yourself.

Self-Test Feature Check | Not Optimum Mode |

Maintenance and Cleaning | Symptoms & Recommended Actions

1. Self-Test Feature Check

Your monitor provides a self test feature that allows you to check whether your monitor is functioning properly.

- 1. Turn off both your computer and the monitor.
- 2. Unplug the video cable from the back of the computer.
- 3. Turn on the monitor.

The figure shown below ("Check Signal Cable") appears on a black background when the monitor is in its normal working condition though it does not sense any video signal: While in the Self-Test mode, the LED power indicator remains green and the figure moves around on the screen.



4. Turn off your monitor and reconnect the video cable; then turn on both your computer and the monitor.

If your monitor screen remains blank after using the previous procedure, check your video controller and computer system; your monitor is functioning properly.

2. Not Optimum Mode

You can view the screen even in more than 1360x768 resolution. However you will have the following message for a minute; You can choose to change the screen resolution or stay in the current mode during that time. And if the resolution is more than 85Hz, you will see the black screen because the monitor does not support over 85Hz.

Not Optimum Mode

Recommended Mode 1360 x 768 60Hz



Refer to Specifications > Preset Timing Modes for the resolutions or frequencies that are supported by the monitor.

3. Maintenance and Cleaning

- 1. Maintaining the Monitor Case.
 - Clean with a soft cloth after disconnecting the power cord.



- Do not use benzene, thinner or other flammable substances, or a wet cloth.
- We recommend a Samsung cleansing agent is used to prevent damage to the screen.
- 2. Maintaining the Flat Panel Display Screen. Clean with a soft cloth (cotton flannel) smoothly.



- Never use acetone, benzene or thinner.
- (They may cause flaws or deformation of the screen surface.)
 The user will be required to pay costs and related expenses for repair of damages gauged by him/hor
- repair of damages caused by him/her.

4. Symptoms and Recommended Actions



A monitor recreates visual signals received from the computer. Therefore, if there is trouble with the computer or the video card, this can cause the monitor to become blank, have poor coloring, noise, Video mode not supported, etc. In this case, first check the source of the problem, and then contact a Service Center or your dealer.

- 1. Check if the power cord and the video cables are properly connected to the computer.
- 2. Check if the computer beeps more than 3 times when booting.
- (If it does, request an after-service for the main board of the computer.)
- 3. If you installed a new video card or if you assembled the PC, check if you installed the adapter(video) driver and the monitor driver.
- 4. Check if the scanning ratio of the video screen is set at 50Hz or 85Hz. (Do not exceed 60Hz when using the maximum resolution.)
- 5. If you have problems in installing the adapter (video) driver, boot the computer in Safe Mode, remove the Display Adapter at the "Control Panel, System, Device Administrator" and then reboot the computer to reinstall the adapter (video) driver.

Self-Test Feature Check List Q & A

Check List



The following table lists possible problems and their solutions. Before calling for service, check the information in this section to see if you can remedy any problems yourself. If you do need assistance, please call the phone number on the Information section or contact your dealer.

Problems related to Installation | Problems related to Screen | Problems related to Audio | Problems related to Remote Control

1. Problems related to Installation

Problems related to the monitor installation and their solutions are listed.

Problems	Solutions
The monitor screen flickers.	 Check if the signal cable between the computer and the monitor is securely connected and tightened. (Refer to Connecting to a Computer)

2. Problems related to Screen

Problems related to the monitor screen and their solutions are listed.

Problems	Solutions
Screen is blank and power indicator is off	 Ensure that the power cord is firmly connected and the LCD monitor is on. (Refer to the Connecting the Monitor)
"Check Signal Cable" message	 Ensure that the signal cable is firmly connected to the PC or video sources. (Refer to the Connecting the Monitor) Ensure that the PC or video sources are turned on.
"Not Optimum Mode " message	 Check the maximum resolution and the frequency of the video adapter. Compare these values with the data in the Preset Timing Modes Chart.
Picture rolls vertically.	 Check if the signal cable is securely connected. Connect it again securely. (Refer to Connecting to a Computer)
Image is not clear. Picture is blurred.	 Run Frequency Coarse and Fine tuning. Turn on again after removing all accessories (video extension cable, etc.) Set resolution and frequency to the recommended ranges.
Picture image is unstable and vibrates.	 Check if the resolution and frequency set for the computer video card falls in the range supported by the monitor. If not, reset them referring to the current Information under
Ghost images are shown in the picture.	the monitor menu and Preset Timing Modes.
The image is too light or too dark	 adjust the brightness and contrast. (Refer to the Brightness, Contrast)
Screen color is inconsistent.	 Adjust color using Custom under OSD Color Adjustment menu.
Color image is distorted with dark shadows.	
White color is poor.	
Power Indicator blinks green.	 The monitor is currently saving the changes made in settings to the OSD memory.
Screen is blank and power indicator light is steady green or blinks every 0.5 or 1 seconds	 The monitor is using its power management system. Press a key on the keyboard.
The screen is blank and is blinking.	 If you see the "TEST GOOD" message on the screen when you press the MENU button, check the cable connection between the monitor and the computer to ensure that the connector is properly connected.

3. Problems related to Audio

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Problems related to audio signals and their solutions are listed below.

Problems	Solutions
No sound	 Ensure that the audio cable is firmly connected to both the audio-in port on your monitor and the audio-out port on your sound card. (Refer to the Connecting the Monitor) Check the volume level. (Refer to the Volume)
Sound level is too low.	 Check the volume level. (Refer to the Volume) If the volume is still too low after turning the control to its maximum, check the volume control on the computer sound

	card or software program.
Sound is too high pitched or too low pitched	Adjust the Treble and Bass to appropriate level.

4. Problems related to Remote Control

Problems related to the remote control and their solutions are listed.

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	ALC: N
-	100.0

Problems	Items to check
The remote control buttons do not respond.	 Check the battery polarities (+/-). Check if the batteries have been exhausted. Check if the power is on. Check if the power cord is securely connected. Check if a special fluorescent or neon lamp is on in the vicinity.

Self-Test Feature Check Check List Q & A

C & A

Question	Answer	
How can I change the frequency?	Frequency can be changed by reconfiguring the video card. Note that video card support can vary, depending on the version of the driver used. (Refer to the computer or the video card manual for details.)	
How can I adjust the resolution?	 Windows XP : Set the resolution at the Control Panel→Appearance and Themes→Display→Settings. Windows ME/2000 : Set the resolution at the Control Panel→Display→Settings. * Contact the video card manufacturer for details. 	
How can I set the Power Saving function?	 Windows XP : Set the resolution at the Control Panel→Appearance and Themes→Display→Screen Saver . Set the function at BIOS-SETUP of the computer. (Refer to Windows/Computer Manual). Windows ME/2000 : Set the resolution at the Control Panel→Display→Screen Saver. Set the function at BIOS-SETUP of the computer. (Refer to Windows/Computer Manual). 	
How can I clean the outer case/LCD Panel?	Disconnect the power cord and then clean the monitor with a soft cloth, using either a cleaning solution or plain water. Do not leave any remains of the detergent nor scratch the case. Do not allow any water to go inside the monitor.	





General PowerSaver

Preset Timing Modes

C General General Model Name SyncMaster 460Pn LCD Panel Size 46" Diagonal Display area 1018.353mm (H) x 572.544mm (V) Pixel Pitch 0.7455mm (H) x 0.7455mm (V) Туре a-si TFT active matrix Synchronization Horizontal 30 ~ 70 kHz Vertical 50 ~ 85 Hz **Display Color** 16.7M Colors Colors Resolution Optimum resolution 1360 x 768 / 1366 x 768 @ 60Hz depends on graphics card used Maximum resolution 1360 x 768 @ 60Hz Input Signal, Terminated RGB Analog , DVI(Digital Visual Interface) Compliant Digital RGB. 0.7Vp-p ±5%, Positive bright, 75 ohms ±10%(Terminated), Separate H/V sync, TTL level, positive or negative **Maximum Pixel Clock** 100 MHz(Analog, Digital) **Power Supply** AC 100 ~ 240 VAC(+/- 10%), 60/50 Hz ± 3Hz Signal Cable 15pin-to-15pin D-sub cable, detachable, 1.8m DVI-D to DVI-D connector, detachable, 2.0m **Signal Connectors** D-sub, BNC, DVI-D, YPbPr, S-VHS, VCR

Power Consumption Less than 310W **Power Saving** Less than 5W Dimensions (WxHxD)/ Weight 1,102 X 658 X 126.5mm / 43.4 X 25.9 X 5.0 inch / 28kg 1,102 X 715 X 293mm / 43.4 X 28.1 X 11.5 inch (With Stand) - Option / 30kg 1,312 X 715 X 293mm / 51.7 X 28.1 X 11.5 inch (With Speaker, With Stand) - Option / 33kg **VESA Mounting Interface** 200mm x 200mm (for use with Specialty(Arm) Mounting hardware.) **Environmental considerations** Operating Temperature: $50^{\circ}F \sim 104^{\circ}F (10^{\circ}C \sim 40^{\circ}C)$ Humidity: 10% ~ 80%, non-condensing Temperature: -4°F ~113°F (-20°C ~ 45°C) Storage Humidity: 5% ~ 95%, non-condensing **Audio Characteristics** Audio Input 1 RCA Jack Red(R) White(L), 0.5Vrms (-9dB) Audio Input 2 RCA Jack Red(R) White(L), 0.5Vrms (-9dB) PC Audio Input 3.5ØStereo Jack, 0.5Vrms (-9dB) Frequency RF: 80Hz ~ 15kHz (at -3dB) Response A/V: 80Hz ~ 20kHz (at -3dB) **Plug and Play Capability** This monitor can be installed on any Plug & Play compatible system. Interaction of the monitor and computer systems will provide the best operating conditions and monitor settings. In most cases, monitor installation will proceed automatically, unless the user wishes to select alternate settings. **Dot Acceptable**

TFT LCD panel manufactured by using advanced semiconductor technology with precision of 1ppm(one millionth) above is used for this product. But the pixels of RED, GREEN, BLUE and WHITE color seem to be bright sometimes or some of black pixels could be seen. This is not from bad quality and you can use it without uneasiness.

• For example, the number of TFT LCD sub pixels that is contained in this product are 3,133,440.

Design and specifications are subject to change without prior notice.

MagicNet - Client

ltem	Item Specification		Remarks
LAN	LAN 100Mbps		
· · · · · · · · · · · · · · · · · · ·		Keyboard/Mouse, Mass Storage Device Compatible	USB-applied removable storage can be supported. Supporting file system is the only FAT , other file systems including NTFS are not supported from MagicNet.
SPDIF o	ut	PCM Audio out	16kHz or more
	Photo Supported File Format : BMP/JPEG		3500x2625 or less
	Music Supported File Format : MP3		Sound bandwidth : 50Hz to 15kHz
Contents	Movie	 MPEG1, MPEG2(PS), DivX 4.x, DivX 5.x Max 720 X 480 30 fps 	MPEG2(MP@ML) DivX 4.x, DivX 5.x
	File	MS Office(Word, Excel, Power Point), HTML, PDF	Some files may not be supported depending on the format or the version.

Internet Browser	MS Internet Explorer	Not Support Flash, Java Applet, Security Site
Language	English	
OS	Windows CE 5.0	

MagicNet - Server Requirement						
	CPU	RAM	Ethernet	OS	Application	
Minimum	P1.8Ghz	256M	40014			
Recommended	P3.0Ghz	512M	100M	Windows XP	WMP 9 or later	

Preset Timing Modes General PowerSaver

C PowerSaver

This monitor has a built-in power management system called PowerSaver. This system saves energy by switching your monitor into a low-power mode when it has not been used for a certain amount of time. The monitor automatically returns to normal operation when you press a key on the keyboard. For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods. The PowerSaver system operates with a VESA DPMS compliant video card installed in your computer. Use a software utility installed on your computer to set up this feature.

State	Normal Operation	Power saving mode EPA	Power off (Power Switch)	Power off (Mechanical Power S/W)
Power Indicator	Green	Green, Blinking	Black	Black
Power Consumption	Less than 310W	Less than 5W (Off-mode)	Less than 1W (at 120Vac)	Less than 0W
Option : SPEAKER L/R(8Ω, 10W), USB Device(Max, 5W is allowed)				

General PowerSaver

Preset Timing Modes

C Preset Timing Modes

If the signal transferred from the computer is the same as the following Preset Timing Modes, the screen will be adjusted automatically. However, if the signal differs, the screen may go blank while the power LED is on. Refer to the video card manual and adjust the screen as follows.

Table 1. Preset Timing Modes

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
MAC, 640 x 480	35.000	66.667	30.240	-/-
MAC, 832 x 624	49.726	74.551	49.500	+/+
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 640 x 480	31.469	59.940	25.175	-/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 640 x 480	43.269	85.008	36.000	-/-
VESA, 800 x 600	35.156	56.250	36.000	+,-/+,-

VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 800 x600	46.875	75.000	49.500	+/+
VESA, 800 x600	53.674	85.000	56.250	+/+
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1024 x 768	68.677	85.997	94.500	+/+
VESA, 1280 x 768	47.776	60.000	79.500	-/+
VESA, 1360 x 768	47.712	60.000	85.500	+/+

Horizontal Frequency



The time to scan one line connecting the right edge to the left edge of the screen horizontally is called Horizontal Cycle and the inverse number of the Horizontal Cycle is called Horizontal Frequency. Unit: kHz

Vertical Frequency

Like a fluorescent lamp, the screen has to repeat the same image many times per second to display an image to the user. The frequency of this repetition is called Vertical Frequency or Refresh Rate. Unit: Hz





General PowerSaver

Preset Timing Modes

C General General Model Name SyncMaster 460P LCD Panel Size 46" Diagonal Display area 1018.353mm (H) x 572.544mm (V) Pixel Pitch 0.7455mm (H) x 0.7455mm (V) Туре a-si TFT active matrix Synchronization Horizontal 30 ~ 70 kHz Vertical 50 ~ 85 Hz **Display Color** 16.7M Colors Colors Resolution Optimum resolution 1360 x 768 / 1366 x 768 @ 60Hz depends on graphics card used Maximum resolution 1360 x 768 @ 60Hz Input Signal, Terminated RGB Analog , DVI(Digital Visual Interface) Compliant Digital RGB. 0.7Vp-p ±5%, Positive bright, 75 ohms ±10%(Terminated), Separate H/V sync, TTL level, positive or negative **Maximum Pixel Clock** 100 MHz(Analog, Digital) **Power Supply** AC 100 ~ 240 VAC(+/- 10%), 60/50 Hz ± 3Hz Signal Cable 15pin-to-15pin D-sub cable, detachable, 1.8m DVI-D to DVI-D connector, detachable, 2.0m **Signal Connectors** D-sub, BNC, DVI-D, YPbPr, S-VHS, VCR

Power Consumption Less than 300W **Power Saving** Less than 5W Dimensions (WxHxD)/ Weight 1,102 X 658 X 126.5mm / 43.4 X 25.9 X 5.0 inch / 28kg 1,102 X 715 X 293mm / 43.4 X 28.1 X 11.5 inch (With Stand) - Option / 30kg 1,312 X 715 X 293mm / 51.7 X 28.1 X 11.5 inch (With Speaker, With Stand) - Option / 33kg **VESA Mounting Interface** 200mm x 200mm (for use with Specialty(Arm) Mounting hardware.) **Environmental considerations** Operating Temperature: 50°F ~ 104°F (10°C ~ 40°C) Humidity: 10% ~ 80%, non-condensing Temperature: -4°F ~113°F (-20°C ~ 45°C) Storage Humidity: 5% ~ 95%, non-condensing **Audio Characteristics** RCA Jack Red(R) White(L), 0.5Vrms (-9dB) Audio Input 1 Audio Input 2 RCA Jack Red(R) White(L), 0.5Vrms (-9dB) PC Audio Input 3.5ØStereo Jack, 0.5Vrms (-9dB) Frequency RF: 80Hz ~ 15kHz (at -3dB) Response A/V: 80Hz ~ 20kHz (at -3dB) **Plug and Play Capability** This monitor can be installed on any Plug & Play compatible system. Interaction of the monitor and computer systems will provide the best operating conditions and monitor settings. In most cases, monitor installation will proceed automatically, unless the user wishes to select alternate settings. **Dot Acceptable** TFT LCD panel manufactured by using advanced semiconductor technology with precision of 1ppm(one millionth) above is used for this product. But the pixels of RED, GREEN, BLUE and WHITE color seem to be bright sometimes or some of black pixels could be seen. This is not from bad quality and you can use it without uneasiness.

• For example, the number of TFT LCD sub pixels that is contained in this product are 3,133,440.

Design and specifications are subject to change without prior notice.

General PowerSaver Preset Timing Modes

PowerSaver

This monitor has a built-in power management system called PowerSaver. This system saves energy by switching your monitor into a low-power mode when it has not been used for a certain amount of time. The monitor automatically returns to normal operation when you press a key on the keyboard. For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods. The PowerSaver system operates with a VESA DPMS compliant video card installed in your computer. Use a software utility installed on your computer to set up this feature.

State	Normal Operation	Power saving mode EPA	Power off (Power Switch)	Power off (Mechanical Power S/W)
Power Indicator	Green	Green, Blinking	Black	Black
Power Consumption	h Less than 300W	Less than 5W (Off-mode)	Less than 1W (at 120Vac)	Less than 0W

General

PowerSaver

Preset Timing Modes

If the signal transferred from the computer is the same as the following Preset Timing Modes, the screen will be adjusted automatically. However, if the signal differs, the screen may go blank while the power LED is on. Refer to the video card manual and adjust the screen as follows.

Table 1. Preset Timing Modes

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
MAC, 640 x 480	35.000	66.667	30.240	-/-
MAC, 832 x 624	49.726	74.551	49.500	+/+
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 640 x 480	31.469	59.940	25.175	-/-
IBM, 720 x 400	31.469	70.087	28.322	_/+
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 640 x 480	43.269	85.008	36.000	-/-
VESA, 800 x 600	35.156	56.250	36.000	+,-/+,-
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 800 x600	46.875	75.000	49.500	+/+
VESA, 800 x600	53.674	85.000	56.250	+/+
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1024 x 768	68.677	85.997	94.500	+/+
VESA, 1280 x 768	47.776	60.000	79.500	-/+
VESA, 1360 x 768	47.712	60.000	85.500	+/+

Horizontal Frequency

The time to scan one line connecting the right edge to the left edge of the screen horizontally is called Horizontal Cycle and the inverse number of the Horizontal Cycle is called Horizontal Frequency. Unit: kHz

Vertical Frequency

Like a fluorescent lamp, the screen has to repeat the same image many times per second to display an image to the user. The frequency of this repetition is called Vertical Frequency or Refresh Rate. Unit: Hz





Service

The address and phone number of the company can be changed without previous notice.

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Samsung Electronics Australia Pty Ltd. Customer Response Centre 7 Parkview Drive, Homebush Bay NSW 2127 Tel : 1300 362 603 http://www.samsung.com.au/

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Samsung Eletronica da Amazonia Ltda. R. Prof. Manoelito de Ornellas, 303, Terro B Chacara Sto. Antonio, CEP : 04719-040 Sao Paulo, SP SAC : 0800 124 421 http://www.samsung.com.br/

CANADA :

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Service Terms For Better	Display Authority	Image Retention Free	Correct Disposal
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Terms

Sync Signal

Sync (Synchronized) Signals refer to the standard signals that are required to display desired colors on the monitor. They are divided into Vertical and Horizontal Sync Signals. These signals display normal color images by the set resolution and frequency.

Types of Sync Signals

Separate	This is a scheme of transmitting individual vertical sync signals to the monitor.
Composite	This is a scheme of combining vertical sync signals into one composite signal
	and transmitting it to the monitor. The monitor displays the color signals by
	separating the composite signal into original color signals.

Dot Pitch

The image on a monitor is composed of red, green and blue dots. The closer the dots, the higher the resolution. The distance between two dots of the same color is called the 'Dot Pitch'. Unit: mm

Vertical Frequency

The screen must be redrawn several times per second in order to create and display an image for the user. The frequency of this repetition per second is called Vertical Frequency or Refresh Rate. Unit: Hz

Example: If the same light repeats itself 60 times per second, this is regarded as 60 Hz.

Horizontal Frequency

The time to scan one line connecting the right edge to the left edge of the screen horizontally is called Horizontal Cycle. The inverse number of the Horizontal Cycle is called Horizontal Frequency. Unit: kHz

Interlace and Non-Interlace Methods

Showing the horizontal lines of the screen from the top to the bottom in order is called the Non-Interlace method while showing odd lines and then even lines in turn is called the Interlace method. The Non-Interlace method is used for the majority of monitors to ensure a clear image. The Interlace method is the same as that used in TVs.

📮 Plug & Play

This is a function that provides the best quality screen for the user by allowing the computer and the monitor to exchange information automatically. This monitor follows the international standard VESA DDC for the Plug & Play function.

Resolution

The number of horizontal and vertical dots used to compose the screen image is called 'resolution'. This number shows the accuracy of the display. High resolution is good for performing multiple tasks as more image information can be shown on the screen.

Example: If the resolution is 1360 X 768, this means the screen is composed of 1360 horizontal dots (horizontal resolution) and 768 vertical lines (vertical resolution).

Multiple Display Control (MDC)

A Multiple Display Control (MDC) is an application allowing various displays to be easily and simultaneously operated on a PC. RS-232C, a standard of serial communication, is used for the communication between a PC and a display.



For Better Display

- Adjust computer resolution and screen injection rate (refresh rate) on computer as described below to enjoy the best quality of picture. You can have an uneven quality of picture in the screen if the best quality of picture is not provided in TFT-LCD.
 - o Resolution: 1360 x 768

- Vertical frequency (refresh rate): 60 Hz
- TFT LCD panel manufactured by using advanced semiconductor technology with precision of 1ppm (one millionth) above is used for this product. But the pixels of RED, GREEN, BLUE and WHITE color seem to be bright sometimes or some of black pixels could be seen. This is not from bad quality and you can use it without uneasiness.
 - For example, the number of TFT LCD sub pixels that is contained in this product are 3,133,440
- 3. When you clean the monitor and the panel outside, please apply the recommended small amount of cleaner by using soft and dry cloth and polish it. Let LCD area not to be forced but to be scrubbed out softly.

If excessive force is applied, you can have a stain on it.

4. If you are not satisfied with the quality of picture, you can get better quality of picture by executing "auto adjustment function" in display screen that is appeared as window termination button is pressed.
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If there's still noise after automatic adjustment, use FINE/COARSE adjustment function.

5. If you view a fixed screen for an extended period of time, residual image or blurriness may appear. Change the mode to energy save or set a screensaver to moving picture when you need to be away from the monitor for an extended period of time.

Service Terms For Better Display Authority Image Retention Free Correct Disposal

Authority

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Class B

This device is a Class B digital apparatus. For Safety and EMC compliance guide, you may refer to "Regulatory" Guide.



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BBE High Definition Sound is the core sound enhancement technology licensed by BBE Sound and featured in the BBE Sonic Maximizer range of professional audio signal processors. LCD Monitors and TVs may have image retention when switching from one image to another especially after displaying a stationary image for a long time. This guide is to demonstrate correct usage of LCD products in order to protect them from Image retention.

What is Image retention ?

During normal operation of a LCD panel, pixel image retention doesn't occur. However, if the same image is displayed for a long time, a slight difference in electric charge accumulates between the two electrodes which encase the liquid crystal. This may cause the liquid crystal to build up in a certain areas of the display. Thus, the previous image is retained when switching to a new video image. All display products, including LCD, are subject to image retention. This is not a product defect.

Please follow the suggestions below to protect your LCD from image retention



- Turn the power off when using a stationary pattern.
 - Turn the power off for 4 hours after 24 hours in use
 - Turn the power off for 2 hours after 12 hours in use
- Use a Screen saver if possible
- Screen saver in one color or a moving image is recommended.
- Set the Monitor to power off with the PC Display Properties Power Scheme.

Suggestions for specific applications

Ex) Airports, Transit Stations, Stock Markets, Banks, and Controlling Systems We recommend that you follow set up of your display system program as below:

- Display Information together with Logo or Moving image cycle. Ex) Cycle : Display Information for 1 hour followed by a Display Logo or moving image for 1 minute.
- Change the Color Information periodically (Use 2 different colors). Ex) Rotate the Color Information with 2 colors every 30 minutes.



Avoid using a combination of characters and background color with large difference in luminance.

Avoid using Grey colors, which can cause Image retention easily.

- Avoid: Colors with big difference in luminance (Black & White, Grey) $\mathsf{E} \mathsf{x})$



 Recommended settings: Bright colors with little difference in luminance
 Change the characters color and background color every 30 minutes Ex)

SYSTEM : 245	SYSTEM: 245	SYSTEM: 245	SYSTEM: 245
STATUS : OK	OTATUS OF	OTATUS OF	OTATILO . OK
STATUS : UK	STATUS: UK	STATUS: UK	STATUS: UK

- Every 30 minutes, change the characters with movement. Ex)



The best way to protect your monitor from Image retention is to set your PC or System to operate a Screen Saver program when you are not using it.

Image retention may not occur when a LCD panel is operated under normal conditions.

Normal conditions are defined as continuously changing video patterns. When the LCD panel is operated for a long time with a fixed pattern (-over 12 hours-), there may be slight difference in voltage between electrodes that work the liquid crystal (LC) in a pixel. The voltage difference between electrodes increases with time, forcing the liquid crystal to lean. When this occurs, the previous image may be seen when the pattern is changed.

To prevent this, the accumulated voltage difference must be decreased.



Our LCD Monitor satisfies ISO13406-2 Pixel fault Class II





This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.