

SyncMaster 400T





Index Safety Instructions	Introduction	Setup	Adjusting Your Monitor	Troubleshooting	Specifications	Information	
Safety Instructions • Notational • Power • Installation • Cleaning • Other		English > Main > Safety Instruct When not used for extended periods of time, set your PC to DPMS. If usi screen saver, set it to the active screen mode. O not use a damaged or loose plug. • This may cause an electric shock or fire.					
Main Page		O O	not pull the plug out by t This may cause an elec 	he wire nor touch t tric shock or fire.	he plug with wet	hands.	



- Use only a properly grounded plug and receptacle.
 - An improper ground may cause electric shock or equipment damage.



- 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.



- Disconnect the plug from the outlet during storms or lightening or if it is not used for a long period of time.
 - Failure to do so may cause an electric shock or fire.



- Do not connect too many extension cords or plugs to an outlet.
 - This may cause a fire.





Set down the monitor carefully.

• It could be damaged or broken.



Do not place the monitor face down.

• The TFT-LCD surface may be damaged.

Index Safety Instruc	tions Introduction	Setup Adjusting Your Monite	r Troubleshooting	Specifications Information
Safety Instructions Notational	<u>\</u>	When cleaning the monitor ca moistened, soft fabric.	English > Mair	n > Safety Instructions > Cleaning TFT-LCD, wipe with a slightly
 Power Installation Cleaning Other Main Page 		Do not spray detergent of the spray deterg	irectly on the monitor	
		Use the recommended d	etergent with a smoot	h cloth.



- If the connector between the plug and the pin is dusty or dirty, clean it properly with a dry cloth.
 - A dirty connector can cause an electric shock or fire.



Do not set a glass of water, chemicals or any small metal objects on the monitor.

- This may cause damage, electric shock or a fire.
 If a foreign substance gets into the monitor, disconnect the plug and then contact a service center.





• Possible fire hazard.



• Possible fire hazard.



Semove and discard vinyl bag from power adaptor before use.

• Possible fire hazard.



Always keep power adaptor in well-ventilated area.



www.sarisurgusaccontrionate www.samsung-monitor.com

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SyncMaster Specifications Information

English > Main > Introduction > Unpacking

7 Please make sure the following items are included with your monitor. If any items are missing, contact your dealer.

Introduction Setup Adjusting Your Monitor Troubleshooting



- Front 🕨
- Rear
- Remote Control
- Mechanical Lay-out



Power Cord



DC Adapter



PC Stereo Cable





Monitor

Wall Mount KIT



DVI Cable (DVI-D + DVI-D)



DVI Cable (DVI-I + D-Sub)

Remote Control / Batteries (AAA X 2)



User's Guide and Driver Installation CD

Speaker set



RS232C CABLE



- Power indicator
 Power button
- 5 Menu button / Exit button 6 Up / Down Key Move button
- 7 Volume button / Select button
- 4 Source button

3 Remote Control Sensor

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- Unpacking
- Front
- Rear

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- Remote Control
- Mechanical Lay-out
 - Moin Poge

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.





Safety Instructions Introduction Setup Adjusting Your Monitor Troubleshooting







- 1 Power Connection Terminal
- 2 RS232C Serial PORT : MDC(Multiful Devide Control) Program Port

Specifications Information

English > Main > Introduction > Rear

- 3 CVBS Video Connection / Audio L/R Connection Terminal (Input)
- 4 S-Video Connection Terminal (Input)
- 5 Component 1 (DVD) Connection Terminal
- 6 Component 2 (DTV) Connection Terminal
- 7 PC Video Connection Terminal (DVI-D to DVI-D(Digital) / DVI-I to D-SUB(Analog))
- 8 PC Audio Connection Terminal (Input)
- 9 Headphone Connection Terminal
- 10 Speaker Connection Terminal (Output)
- 11 Left/center Audio / Woofer Connection Terminal (Output)
- 12 Kensington Lock

Index Safety Instructions Introduction Setup Adjusting Your Monitor Troubleshooting Specifications Information English > Main > Introduction > Remote Control English > Main > Introduction > Remote Control Information Information English > Main > Introduction > Remote Control Introduction For detailed information of the Remote Control Unit functions, refer to Adjusting Your Monitor > User Controls > User Control Buttons > Remote Control buttons. The remote control's configuration may vary slightly depending on the monitor model. W The Remote control may function within a range of 0.23 to 33 feet (7cm to 10m) and 30 degrees to the left and right of the monitor's Remote Control Reception sensor.

Button Names | Replacing Batteries | Usage

1. Button Names

Rear

 Remote Control
 Mechanical Lay-out



- 1 Power button
- 2 Number button
- 3 Source button
- 4 VOL(Volume)and Up/Down buttons
- 5 Mute button
- 6 P.Size button
- 7 Display button
- 8 P.MODE button
- 9 S.MODE button
- 10 Mode button
- 11 EXIT button
- 12 MENU button
- 13 SLEEP button
- 14 PIP button
- 15 V.DOLBY button



- 16 RESET button
- 17 AUTO button
- 18 VCR Controls button
- 19 SWAP button
- 20 SIZE button
- 21 PIP button
- 22 SET button
- 23 CAPTION button
- 24 Location button
- 25 Still button



Slide out the cover pressing part marked T.
 Insert the batteries matching their polarities (+, -).
 Slide in the cover.



2. Rear



3. Speaker

3. Speaker



4. Mounting Bracket





1. Connecting to a Computer



- 1. Connect the power cord to the Adapter and connect the adapter jack to the DC28V power port on the back of your monitor.
- 2. Connect the signal cable to the video port on your computer.
- 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.

W Contact a local Samsung Electronics service center to buy optional items.

2. Connecting to a VCR



1. AV input devices like DVDs, VCRs or Camcorders are connected to the S-Video (V1) or Video (V2) terminal of the monitor using the S-VHS or RCA cable.

S-VHS or RCA cable is optional.

- 2. Connect the Audio (L) and Audio (R) terminals of a DVD, VCR or Camcorders to the monitor's L and R audio input terminals using audio cables.
- 3. Select Video or S-Video that is connected to a DVD, VCR or Camcorders using the Source button on the monitor's front.
- 4. Then, start the DVD, VCR or Camcorders with a DVD disc or tape inserted.

3. Connecting to a DVD Player



- 1. Connect a set of audio cables between the COMPONENT1(DVD) L, R AUDIO INPUT jacks on the Monitor and the AUDIO OUT jacks on the DVD player.
- 2. Connect a video cable between the COMPONENT1(DVD) Y, Pb, Pr jacks on the Monitor and the Y, Pb, Pr jacks on the DVD player.
- W For an explanation of Component video, see your DVD player owner's manual.

4. Connecting a Camcorder

They allow you to view the camcorder tapes without using a VCR.



- 1. Locate the A/V output jacks on the camcorder. They are usually found on the side or back of the camcorder.
- 2. Connect a set of audio cables between the AUDIO OUTPUT jacks on the camcorder and the AUDIO jacks on the Monitor.
- 3. Connect a video cable between the VIDEO OUTPUT jack on the camcorder and the VIDEO jack on the Monitor.
- 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 D-TV Set Top Box

The connections for a typical set-top box are shown below.



- 1. Connect a set of audio cables between the COMPONENT2(DTV) L, R AUDIO INPUT jacks on the Monitor and the AUDIO OUT jacks on the Set-Top Box.
- 2. Connect a video cable between the COMPONENT2(DTV) Y, Pb, Pr jacks on the Monitor and the Y, Pb, Pr jacks on the Set-Top Box.
- W For an explanation of Component video, see your Set-Top Box owner's manual.

6. Connecting Speakers



1. Connect the Left, Right audio speaker cable to the external speaker output jacks on the rear of the Monitor, matching the red "+" and the black "-" ends of the cable with the diagram on the Monitor.

7. Connecting to an Audio System and Sub-woofer

- 1. Connect a set of audio cables between the AUX L, R jacks on the AUDIO SYSTEM and the AUDIO OUTPUT L, R jacks on the Monitor.
- 2. Connect an audio cable between the INPUT jack on an active(powered) Sub woofer and the WOOFER OUT jack on the Monitor.





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. Figure 1-1 shows how a PC and multiple displays are connected.

2. Install

nastali		
Copying Files, pl Processing ms/b	lease stand by. vm60.dll (8 of 8)	
	🛱 Samsung MDC System Setup	×
	Welcome to the Samsung MDC System installation program. Setup cannot install system files or update shared files if they are in use. Before proceeding, we recommend that you close any applications you may be running.	
	OK Egit Setup	

- 1. PC Requirements (recommended): Pentium II, 64M or greater RAM, 800 x 600, 256 color or higher PC display.
- 2. OS: Windows 95, Windows 98, Windows ME, Windows 2000, Windows XP and XP Professional
 - Minimum system requirement for MDC Program

 - Windows 98/ME : Support both English and Others version.
 Windows 2000/XP : Support both English and Others version.

(For other version of the OS, User log in ID should be in English)

- 3. Install: Click SETUP.EXE, and the following screen appears and the basic files for setup are copied.
- The proper operation of this program is guaranteed only when it is used with Samsung Syncmaster 400T model and is not guaranteed when the user run this program with other models.

🔁 Samsung MDC System Setup	×
Begin the installation by clicking the button below.	
Click this button to install Samsung MDC System software to t destination directory.	he specified
C:IProgram Files/Samsung(MDC System), Change	Directory
Egit Setup	

4. Select a folder to install the program and click the button to begin setup.

🕵 Samsung MDC System - Cho	ose Profram Oroup	×		
Sebup will add items to the group sh You can enter a new group name or Groups list.	own in the Program Group by select one from the Existing	DK.		
Program Group:				
Samung				
Existing Groups:				
Accessories				
Sansung				
Startup				
	🛃 Samsung MDC Syster	m Setup		
	Destination File:			
	C:\WINDOW5\System32)	COMDLG32	ocx.	
			9%	
Continue		Ca	ncel	

5. Select a program group and click Continue to continue installation.

Version Conflict	×						
A file being copied is older than the file currently on your system. It is recommended that you keep your existing file.							
File name: "C:\WINDOWS\System32\MFC40.DLL"							
Description: "MFCDLL Shared Library - Retail Version Your version: '4.1.0.6140'							
Do you want to keep this file?							
Yes No to Al							

6. If you see the message Version Conflict as below during installation, ignore the message and click Yes because it means that this version is not compatible with the existing program library on your system.

Samsung MDC System Setup
Samsung MDC System Setup was completed successfully.
C OK

7. You can run the program once the installation is complete.

3. Beginning – 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.



- 1. Use the main icons to switch into each screen.
- 2. Select a display from Display Selection.
- 3. Click Select all or Clear to select or clear all displays.
- 4. Use Grid to view brief information on selected display.
- 5. Use Control Tools to control displays.
- 6. The current title to be controlled is displayed.
- 7. Allows you to enable or disable the remote control signal receiving function of the display unit.
- 8. Indicates the communication status between the LCD and the display. Shows "Busy" while communicating and "Idle when the communication is off.
 - <Note> 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.
- 3. Beginning Port Setting



- 1. The Multiple Display Control uses only "Com1." The Control does not function with any other ports.
- 2. To check which port is installed, go to Control Panel > System > Hardware > Device Manager > Ports.
- 3. If the port installed is Com2, change to Com1 in Windows 2000 (See next chapter). For all the other operating systems, the change can be made from the BIOS Setup of your PC.
- 4. Use Exit to end the program. The Help menu shows how to use the program and general information about the program.

3. Beginning – Port Change

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System devices Criversal Serial Bus controllers	Scan for hardware changes Properties			
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	A Design of the log of	- 104	21.8	
	Portes Carlos Ca	uffers brogates 16000 compatible (JHRT) rantilege to connect connection polylows, n antilege the factor polynometrics		Careford
	Texasticates	L=0		040
	The summer			

- 1. The Multiple Display Control uses only with Com1. It does not function with any other ports including Com2.
- 2. You can change the port to "Com1" in Windows 2000 as follows.
- 3. Go to Control Panel > System > Hardware > Device Manager > Ports > Right Mouse Click > Properties > Port Settings Tab > Advanced
- 4. Choose COM1

4. Power Control

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

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Settings		No Proj	panis ta Sans	ung Syncmaster	4007 Madel Crit	y Other Models	be of approved
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- Info Grid shows some basic information necessary to Power Control.
 - 1) Power Status
 - 2) Input Source
 - 3) Aspect Ratio
 - 4) On Timer Status
 - 5) Off Timer Status

2. Use the Select All button or Check Box to choose a display to control.

File Help								
1	Seed		Quar Al	Idio		Por	wer Contro	1
Parent Control	2002	0	First	bpd	Auject	Cn Tenar	Ce Tanar	
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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

- Turns the mute of the selected display On/Off . When selecting one set at a time, if the selected set is already set to MUTE, you must mark the MUTE display. (If you choose undo the selections or choose Select All, the values return to default settings.)

- * Power Control applies to all displays.
- * The Volume and Mute functions are available only for the displays for which the power status is ON.

5. Input Source Control

1. Click Input Source of the main icons and the Input Source control screen appears.

ZHuttple Display C	orited	
File Help		
Ø		Input Source
Power Control	Select Al Quar Al Idle	3) PEG- PEG
<u>@</u>	Select D Power Imput R0 3 1) 04 2) Mass	Danne Input Source
۲		_4)
Alped		Source Change
\odot		
Time		
- 🍖		Vides * S-Vides * DVD * DTV * PC Analog * PC Digital
Settings Contraction		

- ▶ Info Grid shows some basic information necessary to Input Source Control.
- 1) Power Status
 - Shows the power status of the current display.
- 2) Input Source

- Shows the Input Source currently in use.

3) PIP Control

- Turns the PIP of selected display On/Off.

- 4) Source Change
 - Change Input Source of the selected display.
 - The change is made in the sequence of Video > S-Video > DVD > DTV > PC Analog > PC Digital.
- * Input Source Control applies only to the displays for which the current status is ON.

6. Aspect Ratio Control – Video / S-Video / DVD

1. Click Aspect of the main icons and the Aspect Ratio control screen appears.

Multiple Display Co	ettul				
File Help					
Power Control	Select (df	Quer Al	Idle		Aspect
	Select D	Power	Aspect	Input	Video OTV 6)PC
head Source	X 3	1)os	2)	3) Voles	MDE0/S-MDE0
	0		_	4)	5)
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Tere	0				
	0				Wide * Percrame *
	0				Normal1 = Normal2
Settings					
-					
LUNION OF					

- ▶ Info Grid shows some basic information necessary to Aspect Ratio Control.
- 1) Power
 - Shows the power status of the current display.
- 2) Aspect

- Shows the current Aspect Ratio 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 Video, S-Video or DVD.
- 5) When you click Aspect Ratio, the Video, S-Video and DVD tabs first appear.

- The Aspect Ratio Control button controls Aspect Ratio available for Video, S-Video and DVD

- 6) Click the DTV tab or the PC tab to control Aspect Ratio for respective Input Source.
- * Aspect Ratio Control is available only for the displays for which power status is ON.

6. Aspect Ratio Control – DTV

1. Click Select All or use Check Box to select a display to control.

Multiple Display C	ontrol					
File Help						
Ø						Aspect
Power Cardiol	Select		Quer Al	Busy		
	Select	0	Power	Aspect	Input	Value 1) prov 4) rc
~	1	2	01	Vide	2) otv	
hps/Source						
						3)
						ATU And
Aupust						DTV Algert
Tere	0					
						and thinks the well a
~0	0					Normal2
Settings						
ALCONG.						

- ▶ Info Grid shows some basic information necessary to Aspect Ratio Control.
- 1) Click the DTV tab to adjust Aspect Ratio for DTV.
- 2) Info Grid displays only the display having DTV as input source.
- 3) Adjust Aspect Ratio of the selected display one by one.
- 4) You can also adjust Aspect Ratio for Video PC if you click on the Video or the PC tabs.
- * Aspect Ratio Control is available only for the displays for which the power status is ON.

6. Aspect Ratio Control – PC Analog / PC Digital

1. Click Select All or use Check Box to select a display to control.

Multiple Display C	ontrol					199 13
File Help						
Power Control			Core of	150		Aspect
				100		
	Select	0	Power	Aspect	Input	4) Votes 07/ 1) PC
N	X	2	014	Full	2) CAnding	DC Analysis I DC Dankel
Input Source						Personal Processing
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Anne						PC Aupect
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					-	
Tere	U					
					_	Section 2011 Normal *
-0	0					C Standard
Settings						I

- ▶ Info Grid shows some basic information necessary to Aspect Ratio Control.
- 1) Click the PC tab to adjust Aspect Ratio for PC Analog and PC Digital.
- 2) Info Grid displays only the display having PC Analog and PC Digital as input source.
- 3) Adjust Aspect Ratio of the selected display one by one.
- 4) You can also adjust Aspect Ratio for Video or DTV if you click on the Video or the DTV tabs.
- * Aspect Ratio Control is available only for the displays for which the power status is ON.

7. 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, volume of the selected display.
- 3) Off Time Setup
 - Set the hour, minute, and AM/PM 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.

8. Settings Control - Picture

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

Multiple Display C	ontrol			
File Help				
Power Control	Salaci Jal	Quar Ad	Idle	Settings
	Select D	Pawer	Input	Pistare Picture RGB Aude ImpLack
~	X 3	ON	Video	MDEO/SHIDEO/DVD/DTV
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				2)Contrast 40
				3)BigWess SI
Alped				A) Starrage B
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Time	0			6)тм 🛔 — — ј 🐁
	0			
<u> </u>	0			
Longs				
411111				

- 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. If you change the value in the Settings Control screen, it switches to CUSTOM mode automatically.
- 1) Picture

- Available only for Video, S-Video, DVD and DTV.

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.
- Settings Control is available only for the displays for which the power status is ON and the default value is 50 when no adjustments are made.

8. Settings Control - Picture(RGB)

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

Multiple Display C File Inde	ontrol				
<i>®</i>					Settings
Power Cardiol	Select All	Quer Al	Idle	1)	
	Select D	Power	input	Poten Pisture RGB Aud	e impLock
N	X 2	ON	PC Analog	PCAralog/PCDigital(Bightee	ss Control Onlyo
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Albed				A Ref Cole 45	
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	0			Geeen Gan 19	
				6) Blue Gain (#	— F
	0			The second state in the last	
_				with PC input source.	on probably
				·	

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. If you change the value in the Settings Control

screen, it switches to CUSTOM mode automatically.

1) Picture (RGB)

Available only for PC. All functions are available for PC Analog, and only Brightness can be adjusted for PC Digital.

2) Contrast

- Adjusts Contrast of the selected display.

3) Brightness

Adjusts Brightness for the selected display.

4) Red Gain

- Adjusts Red Gain of the selected display.

- 5) Green GainAdjusts Green Gain of the selected display.
- 6) Blue Gain
 - Adjusts Blue Gain for the selected display.
- * Settings Control is available only for the displays for which the power status is ON and the default value is 50 when no adjustments are made.

8. Settings Control - Audio

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

Multiple Display C	ontrol						RISH I
Se . Help							
-							Settings
1							
Drawna Crawbook	-	-					
A R R R R R R R R	1 Land		10000	- Idle		1)	
	2452			input	Picture / Picture RGB	Aufo	ImpLack .
2	- 	2	014	PC Analog	Allingues		
hpd Source	1 M	3	01	Video			
-							
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	0				1		
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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. If you change the value in the Settings Control screen, it switches to CUSTOM mode automatically.

1) Audio

- Controls audio settings for all input sources.

- 2) Treble
 - Adjusts Treble of the selected display.
- 3) Bass
 - Adjusts Bass of the selected display.
- 4) Balance

- Adjusts Balance of the selected display.

Settings Control is available only for the displays for which the power status is ON and the default value is 50 when no adjustments are made.

8. Settings Control – Image Lock (PC Analog Only)

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

Hultiple Display C	ontrol			
File Help				
Power Control	Select of	Quar Al	Idle	Settings
	Select D	Powtr	input	Poten Pictur/708 Aude ImpLank
	2	ON	PC Analog	PCAealog
Input Source	0			an of Farmery b
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				3) 🚽 Phase 🕨
Aspect				
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and the second				

- Info Grid shows some basic information necessary to Settings Control.
- Note that you cannot change the settings for PC Digital display although you see it in the Grid. 1) Image Lock
 - Controls the Image Lock setting only for PC Analog.
- 2) Frequency
 - Adjusts Frequency of the selected display
- 3) Phase
 - Adjusts Phase of the selected display.
- 4) Position
 - Adjusts Position of the selected display.
- 5) Auto Adjustment

- Adjusts the Audio settings of the selected display.

* Settings Control is available only for the displays for which the power status is ON.

9. 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 6. (Adjust using the Display menu)
 - Note :

A Display Set ID must be a value between 1 and 6. If the value is out of the range, the MDC system cannot control the display. Samsung Electronics guarantees that this program operates

up to four displays at a time. Although it may operate between 4 to 6 displays simultaneously, but Samsung Electronics cannot guarantee normal operation in that case.

- 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.
- The dialogue box (Figure 9-1) 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 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.
- <Note> This program may malfunction due to problems in communication circuits or interference from electronic appliances nearby.
- 7. Go to (Samsung Electronics Web Site) or contact Samsung Electronics personnel at (phone numbers, contact info, service centers, etc.) (additional info necessary)

Example		Please make selection in the
Contraction.	1	information grid before controlling.
10 1		10K

10. 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.
- 5. Maximum set connection of MDC Program is 6.



| Monitor Buttons |

Tor more information about screen adjustment, refer to On-Screen Display.



1. Power indicator

Lights up when you turn the power off. Refer to Specifications > PowerSaver.

2. Power button

Use this button to turn the monitor on and off.

3. Remote control sensor

Aim the remote control towards this spot on the Monitor.

4. Source button

Turns on the indicator to indicate the currently displayed input signal.

To switch Screen modes: PC Analog --> PC Digital --> Video --> S-Video --> DVD --> DTV (Press here to view Screen Mode Switching Animation Clips)

5. Menu button / Exit button

When screen adjustment menu is off: Use this button to open the OSD and activate a highlighted menu item.

When screen adjustment menu is on: Exit button exits from the menu screen or closes screen adjustment menu.

6. Up / Down Key Move button

7. Volume button / Select button

Moves from one menu item to another horizontally or adjusts selected menu values. Also adjusts the audio volume. For more information, refer to Direct-Access Features > Volume.

| Remote Control Buttons |

W For more information on the screen adjustment functions, refer to On-Screen Display.

- **1 Power button**
- 2 Number button
- **3 Source button**
- 4 VOL(Volume)and Up/Down buttons



- 6 P.Size button 7 Display button 8 P.Mode button 9 S.MODE button 10 Mode button 11 EXIT button 12 MENU button 13 SLEEP button

- 15 V.Dolby button

1 Power button - Up

Use this button to turn the monitor on and off.

2 Number button - UP

Press to select channels directly on the Monitor.

3 Source button - UP

Press to display all of the available video sources.

4 VOL(Volume)and Up/Down buttons - Up

Press to increase or decrease the volume. (Also used to make selections on the on-screen menus.)

5 Mute button - Up

Pauses (mutes) the audio output temporarily. The audio resumes if Mute or - VOL + button is pressed in the Mute mode.

6 P.Size button - Up

Press to change the screen size.

7 Display button - Up

Shows a Video Source, Audio Source, current channel number, an audio type and Speaker Mute ON/OFF on the upper right corner of the screen.

8 P.MODE button -

Adjust the Monitor picture by selecting one of the preset factory settings(or select your personal, cus-tomized picture settings).

9 S.MODE button - UP

Adjust the Monitor sound by selecting one of the preset factory settings (or select your personal, customized sound settings).

10 MODE button - UP

Selects a target device to be controlled by the Samsung remote control.

11 EXIT button -

Press the menu to exit.

12 MENU button -

Press to pause the current screen.

13 Sleep button - Up

Press to select a preset time inter-val for automatic shutoff.

14 PIP button - UP

Press this button to control the PIP window.

15 V.DOLBY button + Up



16 RESET button *

If your remote is not func-tioning properly, take out the bat-teries and press the reset button for about 2~3seconds. Re-insert the batteries and try using the remote control again.

17 Auto button - Up

Press to self-adjust to the incom-ing PC signal. The values of fine, coarse and position are adjusted automatically.

18 VCR-Controls - Up

Stop:Press this button to stop a tape during play, record, rewind or fast forward. If the button is pressed during Full-Automatic play, the function will be can-celled **REW:** Press to rewind a tape in your VCR

PLAY/Pause:Press the Play/Pause button to play back prerecorded tapes or pause the tape **FF**: Press to fast forword the tape in your VCR

19 Swap button + Up

Exchanges the video signal that is currently displayed on the main screen with the signal in the PIP window.

20 Size button - Up

Press to make the PIP window small, large, double screen or stock ticker window.

21 PIP button - Up

Press this button to control the PIP window.

22 SET button - UP

Use this button when you are set-ting up your remote control to operate your VCR, cable box, or DVD

23 CAPTION button - Up

Press to set caption on/off.

24 Location button + Up

Press to move the PIP window to any of the four corners of the monitor screen.

25 STILL - Up

Press to stop the action during a particular scene. Press again to resume normal video.







Tor detailed information on Screen Adjustment in the PC Analog mode, refer to PC Analog Screen Adjustment Animation Clips. Sound Allows you to control the sound characteristics. 1) Mode: Allows you to control the various aspects of the speaker sound. • Bass: Emphasize low frequency audio. • Treble: Emphasize high frequency audio. Balance: Sound balance ==> Allows you to adjust the sound balance between the left and the right speakers. (The ideal setting is 50 for the left speaker and 50 for the right speaker.) 2) Virtual dolby: Virtual Dolby Sound On/Off (Virtual Dolby simulates the effect of the Dolby Surround sound system, recreating the movie-theatre or concert-hall- quality sound.) 3) Sub woofer: Sub-Woofer On/Off ID 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. Function **Funtion Settings** 1) Time: **Clock Setting Current Time Setting** • Clock: • On time: Use to set the TV to turn on automatically at preset time. • Off time: Use to set the TV to turn off automatically at preset time. • Sleep: **Sleep Function** • On time Vol.: Use to control the volume level at the time the TV turns on automatically. 2) PIP: When external A/V devices such as VCR or DVD are connected to the monitor, PIP allows you to watch video from such devices in a small window super-imposed on pc video signal. (On/Off) • Video: Select the input source for the PIP • Swap: Switch between the main screeen • Size: Resizing the PIP Screen 3) Language: You can choose one of 3 languages. (English, Spanish, French) PC

PC Display Controls

• Brightness:	Adjust Brightness.
Contrast:	Adjust Contrast.
• Size:	Adjusting Screen Size(full-normal-standard)
2) Image Lock: Image Lock is use images with jitters use the Coarse ad	d to fine tune and get the best image by removing noises that creates unstable and shimmers. If satisfactory results are not obtained using the Fine adjustmer ljustment and then use Fine again.
• 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.
• Fine:	Removes noise such as horizontal stripes. If the noise persists even after Fin- tuning, repeat it after adjusting the frequency (clock speed).
3) Position:	
I his adjusts the so	creen location horizontally and vertically.
H-Position:	creen location horizontally and vertically. Adjusting Horizontal Size
H-Position: V-Position:	creen location horizontally and vertically. Adjusting Horizontal Size Adjusting Vertical Size
• H-Position: • V-Position: 4) Color adjust: Adjusting Color(Us	creen location horizontally and vertically. Adjusting Horizontal Size Adjusting Vertical Size se this function for fine color adjustments.Custom - Color1 - Color2 - Color3)
 H-Position: V-Position: 4) Color adjust: Adjusting Color(Usion) • Red:	creen location horizontally and vertically. Adjusting Horizontal Size Adjusting Vertical Size se this function for fine color adjustments.Custom - Color1 - Color2 - Color3) Adjusting the Red value
 H-Position: V-Position: 4) Color adjust: Adjusting Color(Us Red: Green: 	Adjusting Horizontal Size Adjusting Vertical Size se this function for fine color adjustments.Custom - Color1 - Color2 - Color3) Adjusting the Red value Adjusting the Green value /font>
 H-Position: V-Position: 4) Color adjust: Adjusting Color(Us) Red: Green: Blue: 	Adjusting Horizontal Size Adjusting Vertical Size See this function for fine color adjustments.Custom - Color1 - Color2 - Color3) Adjusting the Red value Adjusting the Green value /font> Adjusting the Blue value
 H-Position: V-Position: 4) Color adjust: Adjusting Color(Us Red: Green: Blue: 5) Recall: Initializing the Sett 	Adjusting Horizontal Size Adjusting Vertical Size se this function for fine color adjustments.Custom - Color1 - Color2 - Color3) Adjusting the Red value Adjusting the Green value /font> Adjusting the Blue value
 H-Position: V-Position: V-Position: 4) Color adjust: Adjusting Color(Us) Red: Green: Blue: 5) Recall: Initializing the Setting Image recall: 	Adjusting Horizontal Size Adjusting Vertical Size se this function for fine color adjustments.Custom - Color1 - Color2 - Color3) Adjusting the Red value Adjusting the Green value /font> Adjusting the Blue value

2. PC Digital Screen

For detailed information on Screen Adjustment in the PC Digital mode, refer to PC Digital Screen Adjustment Animation Clips.

鈼	Sound For explanations on the PC Digital control menu, refer to the explanations under Video Screen. You may control Monitor properties in the same way as for PC Analog Screen.							
	ID For explanations on the PC Digital control menu, refer to the explanations under Video Screen. You may control Monitor properties in the same way as for PC Analog Screen.							
ЧĽ.	Function For explanations on the PC Digital control menu, refer to the explanations under Video Screen. You may control Monitor properties in the same way as for PC Analog Screen.							
	PC In PC digital mode, you can adjust only the diplay settings.							
	 Brightness: Adjust Brightness. Size: Resizing the screen (Full - Normal - Standard) 							

3. Video / S-Video Screen

For detailed information on Screen Adjustment in the Video mode, refer to Video / S-Video Screen Adjustment Animation Clips. Screen Adjustment in the Video mode does not affect the PC screen at

all.

37	Picture								
	Adjusting Display								
	1) Mada								
	1) MODE: Adjusting the disp	lay ambience (Ontions: Dynamic, Standard, Movie and Custom.)							
	Aujusting the disp								
	• Contrast:	Adjusting Contrast							
	Brightness	Adjusting Brightness							
	Sharpness:	Use to adjust the difference between the lightest and darkest areas on the							
	enarphiceer	display.							
	Color:	Use to adjust the lightness/darkness on the display.							
	• Tint:	Use to add the natural tone to the display.							
	2) Color tone:								
	Adjusting the back	kground color (Options: Standard, Warm1, Warm2, Cool1 and Cool2)							
-	Sound								
a r≙	Allows you to cont	trol the sound characteristics.							
	1) Mode: Allows you to cont	trol the various aspects of the speaker sound							
	Allows you to com								
	• Bass: Er	nphasize low frequency audio.							
	• Treble: Er	nphasize high frequency audio.							
	Balance: So	bund balance ==> Allows you to adjust the sound balance between the left and							
	the	e right speakers. (The ideal setting is 50 for the left speaker and 50 for the right							
	sp	beaker.)							
	2) Virtual dolby:	ad One /Off ///integel Dallay airroylates the offect of the Dallay Contracted as understand							
	Virtual Dolby Sound On/Off (Virtual Dolby simulates the effect of the Dolby Surround sound system,								
	recreating the movie-theatre or concert-hall- quality sound.)								
	3) Sub woofer:								
	Sub-Woofer On/O	ff							
	ID								
ID	🐨 For explana	ations on the PC Digital control menu. refer to the explanations under Video							
	Screen. You	u may control Monitor properties in the same way as for PC Analog Screen.							
115	Function								
	1) Time:								
	Clock Setting								
	Ŭ								
	• Clock:	Current Time Setting							
	• On time:	Use to set the TV to turn on automatically at preset time.							
	• Off time:	Use to set the TV to turn off automatically at preset time.							
	• Sleep:	Sleep Function							
	• On time Vol.:	Use to control the volume level at the time the TV turns on automatically. 7							
	2) PIP:								
	When external A/	V devices such as VCR or DVD are connected to the monitor, PIP allows you to							
	wateri video irom s	such devices in a small window super-imposed on pC video signal. (ON/OII)							
	• Video: Selec	ct the input source for the PIP							
	• Swap: Swite	ch between the main screeen							
	• Size: Resi	zing the PIP Screen							
	3) Language:								
	You can choose o	ne of 3 languages. (English, Spanish, French)							

4. DVD / DTV Screen

For detailed information on screen adjustment functions, refer to DVD / DTV Screen Adjustment Animation Clips.



	1) Mode: Adjusting display S	tandard, Movie and custom ambience(option:Dynamic)
	Contrast:	Adjusting Contrast
	Brightness:	Adjusting Brightness
	• Sharpness:	Use to adjust the difference between the lightest and darkest areas on the display.
	Color:	Use to adjust the lightness/darkness on the display.
	• Tint:	Use to add the natural tone to the display.
	2) Fine tune: Due to weak signa correctly.	ls or a wrong antenna configuration, some of the channels may not be tuned
	3) Position : This adjusts the sc	reen location horizontally and vertically
	• H-Position:	Adjusting Horizontal Size
	• V-Position:	Adjusting Vertical Size
秨	For explanat Screen. You	tions on the DVD / DTV control menu, refer to the explanations under Video may control Monitor properties in the same way as for Video / S-Video Screen.
	ID For explanat Screen. You	tions on the PC Digital control menu, refer to the explanations under Video may control Monitor properties in the same way as for PC Analog Screen.
	Function Funtion Settings	
	1) Time: Clock Setting	
	• Clock:	Current Time Setting
	• On time:	Use to set the TV to turn on automatically at preset time.
	Off time:	Use to set the TV to turn off automatically at preset time.
	Sleep:	Sleep Function
	• On time Vol.:	Use to control the volume level at the time the TV turns on automatically.
	2) Language: You can choose or	ne of 3 languages. (English, Spanish, French)



- 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.



Failure of any of the boxes to appear indicates a problem with your monitor. This box also appears during normal operation if the video cable becomes disconnected or damaged.

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.

- Video mode not supported

This indicates the display resolution or refresh rate is not properly set on your computer video card. Reboot the computer in Safe Mode and select "Default" in the "Refresh Rate Unknown" box while setting Adapter for Display Properties.



Contact the computer dealer or manufacturer for information on Safe Mode Booting.

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

The screen sometimes remains black even though it does not show the message "Video mode not supported." This indicates the monitor is set for a frequency out of range or the PowerSaver mode is on.

- For Better Display

1. Selecting Resolution and Color

If the monitor resolution or color is not properly set, the screen may show blurred images or mosaic patterns.

 \mathbb{V} Procedures for setting frequency in the Control Panel may vary depending on the video card.

Setting Color & Resolution >> Click Start --> Settings --> Control Panel --> Display --> Settings --> Colors & Screen area --> Apply --> OK.

- You can get the best image quality by selecting resolution depending on the monitor screen size as follows:
 - 40 inch monitor :1280 x 768 @60Hz
- V Select 16 or 24 bit color.
 - Supported or not subject to the video card (the monitor is irrelevant)
 - LCD monitors may display up to 16.77 million colors (24 bits).
- 2. Setting Refresh Rate

If the monitor refresh rate is not properly set, the screen image may be skewed or noise patterns will appear. You can enjoy the best screen image when the refresh rate is set to 60 Hz.

Setting Refresh Rate >>

Click Štart --> Settings --> Control Panel --> Display --> Settings --> Advanced --> Refresh Rate --> Apply --> Yes --> OK --> Yes.

- If the screen image is not acceptable or satisfactory, run AUTO ADJUSTMENT, to get a better image quality, in the screen that appears immediately after you click Windows System End button. If the noise persists even after AUTO ADJUSTMENT, adjust the screen settings using FINE/COARSE tuning buttons.
- 4. 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.

- Dot Acceptable

TFT LCD panel manufactured by using advanced semiconductor technology with precision of 99.999% 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.

The number of TFT LCD pixels : • 40 inch: 2,949,120

- Maintenance and Cleaning

 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 caused by him/her.

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S ANSEN G						Englisl	h > Main > Troubles	hooting > Problems	and Solutions
Traubleshading	R	The following tak information in thi please call the p contact your dea	ble lists po is section t hone num ller.	ssible probl to see if you ber on the v	lems and th a can reme warranty ca	eir so dy any rd, the	olutions. Before call y problems yoursel e phone number or	ling for service, cho f. If you do need a n the Information s	eck the ssistance, ection or
 Check before calling for service Problems and Solutions 	e Insta	llation Screen /	Audio Re	mote Contr	ol				
▶ Q & A	1. Pi	oblems rela	ated to	Installat	tion				
Main Page	N S	Problems related	d to the mo	onitor install	ation and t	neir so	olutions 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)
Strange characters appear on the screen.	 Switch "Caption On" to "Caption Off" if strange characters appear on the Monitor screen. (Refer to Closed Caption)

2. Problems related to Screen

 \bigtriangledown 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 Your Monitor)
"Check Signal Cable" message	 Ensure that the signal cable is firmly connected to the PC or video sources. (Refer to the Connecting Your Monitor) Ensure that the PC or video sources are turned on.
"Video mode not supported" message	 Check the maximum resolution and the frequency of the video adaptor. 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.	 Turn on again after removing all accessories (video extension cable, etc.) Set resolution and frequency to the recommended ranges. (1280 x 768 @ 60Hz)
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 Mode 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.

3. Problems related to Audio

W 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 Your 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

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

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.

 $English > Main > Troubleshooting > Q \ \& \ A$



Check before calling for service Problems and

Solutions Q & A

VX Frequently asked questions are summarized here for your reference.

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: Reset resolution by clicking Control Panel> Appearance & Theme> 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: Reset Power Saving parameters by clicking Control Panel> Appearance & Theme> Display> Screen Saver or in the computer BIOS SETUP. (Refer to Windows/Computer Manual) Windows ME/2000: Set the function at BIOS-SETUP of the computer or the screen saver. (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.

English > Main > Specifications > General Specifications

Main Page

General PowerSaver Preset Timing Modes

W Design and specifications are subject to change without prior notice.

General	
Model Name	SyncMaster 400T
LCD Panel	
Size	40.0 inch (Diagonal)
Display area	862.080 (H) x 517.248 (V)
Pixel Pitch	0.6735 (H) x 0.6735 (V)
Туре	a-si TFT active matrix
Viewing Angle	85/85/85 (L/R/U/D)
Synchronization	
Horizontal	30 ~ 60 kHz
Vertical	56 ~ 75 Hz
Display Color	
16,777,216 Colors	
Resolution	
Optimum resolution	1024 x 768 @ 60Hz
Maximum resolution	1280 x 768 @ 60Hz
Input Signal	
Sync	Separate: TTL, P. or N.
Gyne.	Composite: TTL, P. or N.
Video signal	0.7 Vp-p @ 75 ohm
Video	
Color system	NTSC
Sound system	M/N
Video format	CVBS, S-VHS, RGB
DVD	YPbPr 480i (Only component 1) 480P 720P 1080i
DTV	YPbPr 480P 720P 1080i
Maximum Pixel Clock	
90 MHz	
Power Supply	
AC 90 ~ 264 V, 1.0 ~ 0.5A (50/6	0 Hz)
Power Consumption	
230W (Maximum)	
Power Saving	
Less than 8W	
Dimensions (WxDxH)	
Monitor body	1006.0 x 300.0 x 746.5 mm
With speakers	1247.6 x 300.0 x 746.5 mm
Weight	
Monitor body	28.0 kg
Environmental considerations	5

Operating	Temperature : $50^{\circ}F \sim 104^{\circ}F(10^{\circ}C \sim 40^{\circ}C)$ Humidity : $10\% \sim 80\%$, non-condensing
Storage	Temperature : -13°F ~113°F (-25°C ~ 45°C) Humidity : 5% ~ 95%, non-condensing
Audio Characteristics	
Audio Input 1	RCA Jack Red(R) White(L), 0.5Vrms (-9dB)
Audio Input 2	3.5Ø Stereo Jack, 0.5Vrms (-9dB)
DVD/DTV	RCA Jack Red(R) White(L), 0.5Vrms (-9dB)
Headphone out	Max. 10mW Output (3.5Ø Stereo Jack 32)
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 99.999% 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.

The number of TFT LCD pixels : • 40 inch: 2,949,120

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Main Page	State	Ν	lormal Opera	tion P E	ower saving mode PA/ENERGY 2000	Power Sw	itch off
	Power Indicator		Green		Green, Blinking	Ambe	ər

Less than 230W

Power Consumption

This monitor is EPA ENERGY STAR[®] compliant and ENERGY2000 compliant when used with a computer equipped with VESA DPMS functionality. As an ENERGY STAR[®] Partner, SAMSUNG has determined that this product meets the

 $\mathsf{ENERGY}\ \mathsf{STAR}^{\texttt{R}}$ guidelines for energy efficiency.

Less than 8W

Less than 1W

Safety instructions introduction Setup Adjusting Your Monitor Troubleshooting Specifications information Index





General

PowerSaver **Preset Timing** Modes

1 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	Vertical Frequency	Pixel Clock	Sync Polarity (H/V)	
Display Mode	(kHz)	(Hz)	(MHz)		
MAC, 640 x 480	31.469	59.940	25.175	-/-	
MAC, 640 x 480	35.000	66.667	30.240	-/-	
MAC, 832 x 624	49.726	74.551	57.284	-/-	
IBM, 720 x 400	31.469	70.087	28.322	-/+	
VESA, 640 x 480	37.861	72.809	31.500	-/-	
VESA, 640 x 480	37.500	75.000	31.500	-/-	
VESA, 800 x 600	37.879	60.317	40.000	+/+	
VESA, 800 x 600	48.077	72.188	50.000	+/+	
VESA, 800 x 600	46.875	75.000	49.500	+/+	
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	+/+	
GTF, 1280 x 768	47.700	60.000	80.136	-/-	



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

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Service Center

Terms

Regulatory

- Natural Color
- Authority

Main Page

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English > Main > Information > 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.
Sync On Green	This scheme does not use sync signals. Instead, it combines horizontal and vertical sync signals into a Green signal and transmits to the monitor. It is mainly used for workstations.

Dot Pitch

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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. In this case, flickering of the screen can be detected. To avoid this problem, there is a Flicker-free Mode using a vertical frequency over 70 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 1024 X 768, this means the screen is composed of 1024 horizontal dots (horizontal resolution) and 768 vertical lines (vertical resolution).

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FCC Information

User Instructions

The Federal Communications Commission Radio Frequency Interference Statement includes the following warning

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television receptions, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

User Information

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. If necessary, consult your dealer or an experienced radio/television technician for additional suggestions. You may find the booklet called How to Identify and Resolve Radio/TV Interference Problems helpful. This booklet was prepared by the Federal Communications Commission. It is available from the U.S. Government Printing Office, Washington, DC 20402, Stock Number 004-000-00345-4.

The party responsible for product compliance: SAMSUNG ELECTRONICS CO., LTD America QA Lab of Samsung 3351 Michelson Drive, Suite #290, Irvine, CA92612 USA Tel) 949-975-7310 Fax) 949-922-8301

Warning

User must use shielded signal interface cables to maintain FCC compliance for the product.

Provided with this monitor is a detachable power supply cord with IEC320 style terminations. It may be suitable for connection to any UL Listed personal computer with similar configuration. Before making the connection, make sure the voltage rating of the computer convenience outlet is the same as the monitor and that the ampere rating of the computer convenience outlet is equal to or exceeds the monitor voltage rating.

For 120 Volt applications, use only UL Listed detachable power cord with NEMA configuration 5-15P type (parallel blades) plug cap. For 240 Volt applications use only UL Listed Detachable power supply cord with NEMA configuration 6-15P type (tandem blades) plug cap.

IC Compliance Notice

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations of ICES-003.

Cet appareil Numérique de classe B respecte toutes les exigences du Règlemont NMB-03 sur les équipements produisant des interférences au Canada.

European Notice (Europe only)

Products with the CE Marking comply with both the EMC Directive (89/336/EEC), (92/31/EEC), (93/68/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Norms:

- EN55022:1998 Radio Frequency Interference
- EN55024:1998 Electromagnetic Immunity
 EN61000-3-2:1995+A1+A2 Power Line Harmonics
- EN61000-3-3:1995 Voltage Fluctuations
- EN60950 Product Safety.

PCT Notice



This is a Class B product based on the standard of the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.



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

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Insert the CD included with the Samsung monitor into the CD-ROM Drive. Then, the initial screen of the program installation 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 <Entrer> 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.

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