

C551

Bildschirm / Moniteur / Monitor / Skärm / Beeldscherm

BETRIEBSANLEITUNG
OPERATING MANUAL

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unseren Help Desk (siehe Garantiekarte).

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<http://www.fujitsu-siemens.com>

Is there ...

... any technical problem or other
question you need clarified?

Please contact
our Help Desk (see Guarantee Card).

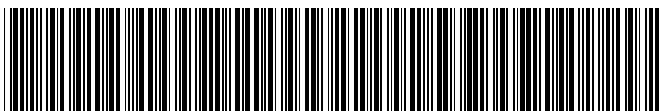
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C551
Farbbildschirm
Color monitor
Moniteur couleur
Monitor de color
Monitor a colori
Färgskärm
Kleurenbeeldscherm

Betriebsanleitung
Operating Manual

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Contents

Introduction.....	1
Notational conventions	1
Important notes	2
Safety	2
Manufacturer's notes	3
Note on X-ray radiation.....	3
FCC Class B Compliance Statement	4
Important note on power cable	4
Disposal and recycling.....	5
Checking the contents of the consignment	6
Installing an ergonomic video workstation	6
Attaching the monitor base	7
Connecting the monitor.....	8
Operation of the monitor	9
Switching the monitor on	9
Switching the monitor off	10
Notes on power management.....	10
Changing the monitor settings	11
Notes on ergonomic color adjustment.....	13
Technical data	13
VESA-DDC-compatible VGA interface.....	14
Preset operating modes.....	14
Pin assignment D-SUB	15
Error handling	16

Introduction

Your new C551 color monitor possesses a whole range of useful features and functions, e. g.:

- 15" (38 cm) high-resolution CRT (0.28 mm dot pitch)
- automatic scanning of all horizontal frequencies from 30 to 54 kHz and all refresh rates (vertical frequencies) from 50 to 120 Hz
- digital screen controller with microprocessor for storing 26 different display modes
- VESA-DDC compatibility
- power management for reducing power consumption by up to 95% when the PC system is not in use
- compliance with the latest ergonomic standards (ISO 9241-3)
- compliance with the recommendations in accordance with MPR II

This Operating Manual contains important information you require to start up and run your monitor. The monitor interacts closely with the screen controller (graphics card) of your PC. It processes the data supplied to it by the screen controller. The screen controller/the associated driver software is responsible for setting the modes (resolution and refresh rate).

Target group

You don't need to be an "expert" to perform the operations described here. Do, however, read the chapter "[Important notes](#)" in the Operating Manual of your PC and in this Operating Manual.

In the event of any problems occurring, please contact your sales outlet or our Help Desk.

Further information

Details of how you set the resolution and refresh rate are provided in the documentation on your screen controller/the associated driver software.

Notational conventions

The meanings of the symbols and fonts used in this manual are as follows:



Pay particular attention to texts marked with this symbol. Failure to observe this warning endangers your life, destroys the system, or may lead to loss of data.



Supplementary information, remarks and tips follow this symbol.

- Texts which follow this symbol describe activities that must be performed in the order shown.
- "Quotation marks" indicate names of chapters and terms that are being emphasized.

Important notes



In this chapter you will find information regarding safety which is essential to take note of with your monitor.

Safety

This device complies with the relevant safety regulations for data processing equipment, including electronic office machines for use in an office environment. If you have any questions, contact your sales outlet or our Help Desk.

- If the device is brought into the installation site from a cold environment, condensation can form. Before operating the device, wait until it is absolutely dry and has reached approximately the same temperature as the installation site.
- During installation and before operating the device, please observe the instructions on environmental conditions in the chapter entitled "[Technical data](#)" as well as the instructions in the chapter "[Installing an ergonomic video workstation](#)".
- To ensure adequate ventilation the monitor may only be operated with the monitor foot installed.
- The color monitor must not be exposed to strong magnetic fields (e. g. caused by magnetic paper clip holders or loudspeakers). Strong magnetic fields could result in a permanent blotchy image.
- The monitor is automatically degaussed when switched on. This results in a magnetic field around the metal edge of the picture tube, which may damage the data on data carriers nearby. Therefore, never keep magnetic data carriers near the monitor.
- The device automatically sets itself to the correct voltage within the range from 100 V to 120 V and 200 V to 240 V. Ensure that the local mains voltage lies within these limits.
- The device must be installed in such a way that the user has good access to the appliance socket.
- The ON/OFF switch does not disconnect the device from the line voltage. To disconnect the line voltage completely, remove the power plug from the socket.
- Lay all cables so that nobody can stand on them or trip over them. When attaching the device, observe the relevant notes in the chapter "[Connecting the monitor](#)".
- No data transmission cable should be connected or disconnected during a thunderstorm.
- Please ensure that no objects (e. g. necklaces, paperclips etc.) or liquids can get into the interior of the device (this may cause an electrical shock or short circuit).
- In emergencies (e. g. damaged casing, elements or cables, penetration of liquids or foreign matter), switch off the unit, disconnect the power plug and contact your sales outlet or our Help Desk.
- Only qualified technicians should repair the device. Unauthorized opening and incorrect repair may greatly endanger the user (electric shock, fire risk).
- Tampering with the device, in particular adjusting the high voltage or installing a different type of CRT tube, may result in a large amount of X-ray radiation being emitted. Devices modified in this way no longer comply with their license and may not be used.
- You may set only those resolutions and refresh rates specified in the "[Technical data](#)" chapter. Otherwise you may damage your monitor. If you are in any doubt, contact your sales outlet or Help Desk.

- Keep this Operating Manual together with your device. If you pass on the device to third parties, you should include this manual.

Cleaning note C551

- Always pull out the power plug before you clean the monitor.
- Do not clean any interior parts yourself, leave this job to a service technician.
- Do not use any cleaning agents that contain abrasives or may corrode plastic.
- Ensure that no liquid will run into the system.
- Ensure that the ventilation areas of the monitor are free.
- When cleaning the surface of the screen, always use a soft, slightly damp cloth in order to avoid scratching the glass.

Wipe the monitor housing with a dry cloth. If the monitor is particularly dirty, use a cloth which has been moistened in mild domestic detergent and then carefully wrung out.

Transport notes

- When transporting the monitor ensure that it is not exposed to strong magnetic fields.
- Transport the monitor with care and only in its original packaging or another corresponding packaging fit to protect it against knocks and jolts.
- Above all, never drop the monitor. If the CRT is damaged, there is a risk of implosion!

Manufacturer's notes

Energy Star



The Fujitsu Siemens Computers color monitor C551 is designed to conserve electricity by dropping to less than 10 W when it goes into standby/suspend mode and to less than 5 W when it goes into OFF mode. With this new power management the C551 qualifies for the U.S. Environmental Protection Agency's (EPA) Energy Star Computers award.

The EPA estimates that computer equipment uses 5 % percent of all business electricity and it is growing rapidly. If all desktop PCs and peripherals enter a low-power mode when not in use, the overall savings in electricity could amount to \$ 2 billion annually. These savings could also prevent the emission of 20 million tons of carbon dioxide into the atmosphere - the equivalent of 5 million automobiles.

As an Energy Star Partner, Fujitsu Siemens Computers GmbH has determined that this product meets the Energy Star guidelines for energy efficiency.

CE certificate



The shipped version of this device complies with the requirements of the EEC directives 89/336/EEC "Electromagnetic compatibility" and 73/23/EEC "Low voltage directive".

Note on X-ray radiation

This device complies with the German X-ray regulations (Röntgenverordnung - RÖV). The local dosage emitted is less than 1 µSv/h (micro-Sievert per hour) at a distance of 0.1m.

FCC Class B Compliance Statement

If there is an FCC statement on the device, then:

The following statement applies to the products covered in this manual, unless otherwise specified herein. The statement for other products will appear in the accompanying documentation.

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 and meets all requirements of the Canadian Interference-Causing Equipment Regulations. 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 strict accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between equipment and the 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.

Fujitsu Siemens Computers GmbH is not responsible for any radio or television interference caused by unauthorized modifications of this equipment or the substitution or attachment of connecting cables and equipment other than those specified by Fujitsu Siemens Computers GmbH. The correction of interferences caused by such unauthorized modification, substitution or attachment will be the responsibility of the user.

The use of shielded I/O cables is required when connecting this equipment to any and all optional peripheral or host devices. Failure to do so may violate FCC rules.

Important note on power cable

To guarantee safe operation, use the cable supplied. Use the following guidelines if it is necessary to replace the original cable set.

- The female/male receptacles of the cord set must meet CEE-22 requirements.
- The cable has to be HAR-certified or VDE-certified. The mark HAR or VDE will appear on the outer sheath or on the insulation of one of the inner conductors.
- For devices which are mounted on a desk or table, type SVT or SJT cable sets may be used. For devices which sit on the floor, only SJT type cable sets may be used.
- The cable set must be selected according to the current rating for your device.

Power cable for devices distributed in the US and Canada

In the United States and Canada the cord set must also be UL-listed and CSA-labelled. The voltage rating should be min. 250 volts a.c.

Please consult the following table for the selection criteria for power cables used in the United States and Canada.

Cable type	Size of conductors in cable	Maximum current rating of the device
SJT	18 AWG	10 Amps
	16 AWG	12 Amps
	14 AWG	12 Amps
SVT	18 AWG	10 Amps
	17 AWG	12 Amps

For the United Kingdom

Should the plug on the flexible cord not be of the type for your socket outlets, do not use an adapter but remove the plug from the cord and discard. Carefully prepare the end of the supply cord and fit a suitable plug.

WARNING

THIS APPLIANCE MUST BE EARTHED

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Green and Yellow:	Earth
Blue:	Neutral
Brown:	Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

- The wire which is coloured Green and Yellow must be connected to the terminal in the plug which is marked with the letter E or by the earth symbol or coloured Green or Green and Yellow.
- The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black.
- The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Red.

Disposal and recycling

This device has been manufactured to the greatest possible degree from materials which can be recycled or disposed of in a manner that is not environmentally damaging.

The device is taken back after use, to be recycled, provided that it is returned in a condition that is the result of normal use. Any components not reclaimed will be disposed of in an environmentally acceptable manner.

If you have any questions on disposal, please contact your local office, our Help Desk, or:

Fujitsu Siemens Computers GmbH
Recyclingcenter
D-33106 Paderborn
Tel.: ++ 49 5251 - 818 010/ Fax: ++ 49 5251 - 818 015

Checking the contents of the consignment

- ▶ Unpack all the individual parts.
- ▶ Remove any plastic caps from the plugs for the cables in the consignment.
- ▶ Check the delivery for damage incurred during transportation.
- ▶ Check whether the delivery agrees with the details in the delivery note.
The complete shipment comprises:
 - one monitor with data cable
 - one power cable
 - one monitor base
 - this Operating Manual

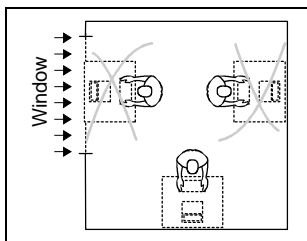
Should you discover that the delivery does not correspond to the delivery note, notify your local sales outlet immediately.



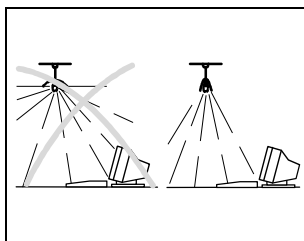
It is recommended not to throw away the original packing material. Keep it for future transportation.

Installing an ergonomic video workstation

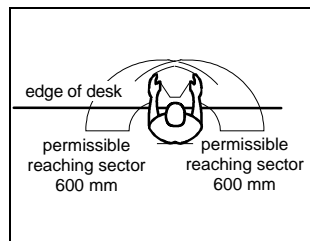
Before you set up your equipment you should select a suitable position for working at the monitor. Please observe the following advices when installing a video workstation.



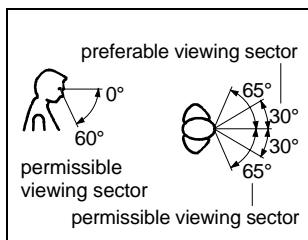
Avoid direct and reflected glare.



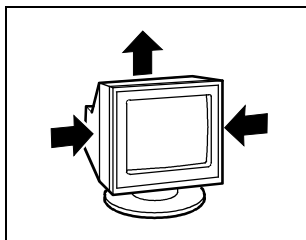
Avoid glare from electric lighting.



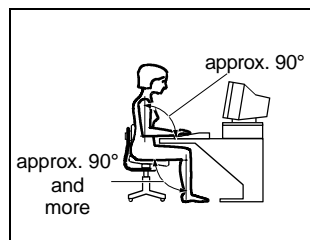
Position the keyboard where it is easiest to reach.



Position the monitor for optimum viewing. The viewing distance to the monitor should be approximately 50 cm.



Keep ventilated areas clear.



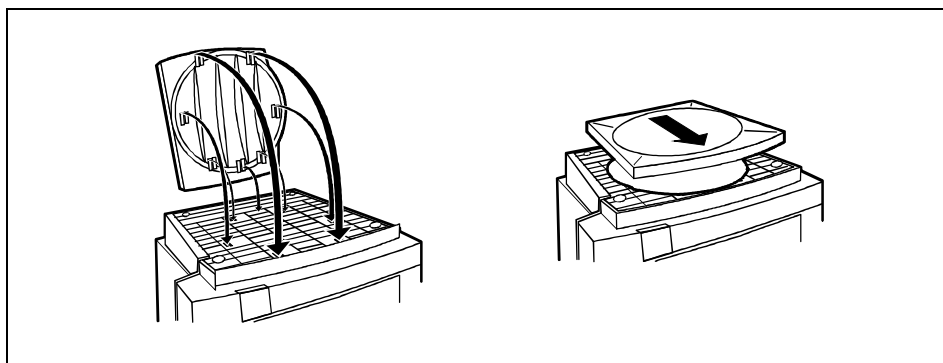
Remember to maintain correct posture.

Attaching the monitor base

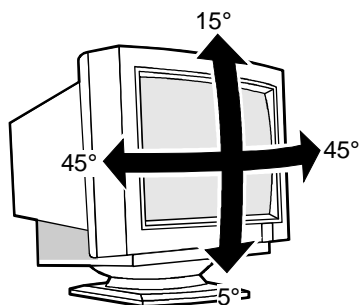
Your monitor is shipped with a base which allows you to rotate and tilt the monitor to the best position.

Attach the base as follows:

- Turn the monitor upside down.



- Fit the base so that its hooks slot into the recesses on the monitor.
- Press down on the base in the direction of the arrow until it clicks into position.
- Right the monitor onto its base.



Tilting and turning area: The specified tilting area refers to the zero position of the monitor foot marked with an arrow.

Connecting the monitor

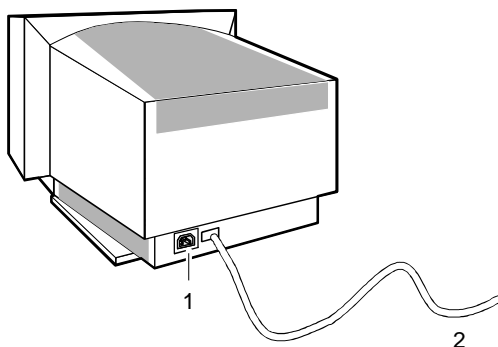
See your PC's operating manual for details of the ports on the system unit.



Please note the safety information provided in the chapter "[Important notes](#)" in the Operating Manual of the PC.

Do not cover the ventilation openings of the monitor.

If you are assembling monitors beside each other, there must be a minimum distance of 25 cm between monitors of the same constructional type, to avoid image distortion. With different monitors, the distance must be increased, if necessary.



1 = Power connector

2 = Data cable

- Be sure that the monitor and the system unit are switched off.



The system unit's power plug must be pulled out!

The data cable (2) is permanently attached to the monitor. It has a 15-pin D-SUB connector for the screen controller of the system unit.

See your PC's operating manual for details of the ports on the system unit.

- ▶ Connect the 15-pin connector of the data cable to the (active) monitor port on the system unit and secure the plug-in connection by tightening the safety screws.



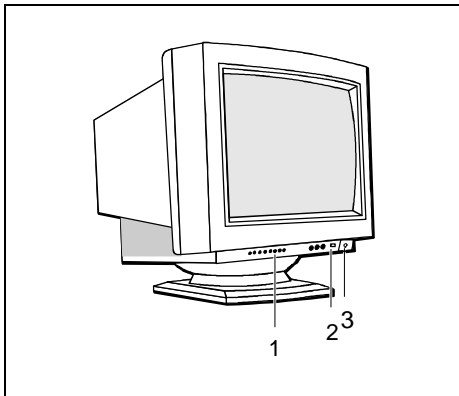
If your system unit has two monitor ports ("onboard" screen controller and separate graphics card), the monitor port for the separate graphics card is usually active.

- ▶ Plug the power cable supplied into the power connector of the monitor.
- ▶ Plug the power cable into the monitor connector at the rear of the system unit.
- ▶ Plug the power connector of the system unit into a properly grounded power outlet.



When you start working with your monitor for the first time you should install the appropriate graphics drivers for your application software. Details of how to do this are provided in the documentation on your screen controller/the associated driver software.

Operation of the monitor



- 1 = Control panel with buttons for screen setting
- 2 = Power indicator
- 3 = ON/OFF switch

Switching the monitor on

- ▶ Press the ON/OFF switch (3).

The power indicator (2) lights up green when the system unit is turned on.



If your PC has a power management function (energy-saving mode), you should read the "[Notes on power management](#)" of the monitor in this chapter.

Switching the monitor off

- Press the ON/OFF switch (3).

The power indicator (2) is dark.

Notes on power management

If your PC has a VESA DPMS (Video Electronics Standard Association, Display Power Management Signaling) power management function (energy-saving mode), your monitor will fully support this function. The monitor has a four-stage power management system.

Stage	ON	Standby mode	Suspend mode	OFF mode
Power indicator	glows green	glows amber	glows amber	glows amber
Function indicators	are dark (except in setting mode)	glow consecutively (running light)	glow consecutively (running light)	are dark
Function	Monitor operating normally	Monitor is dark	Monitor is dark	Monitor is dark
Power consumption	Normal < 65 W	Reduced to < 10 W	Reduced to < 10 W	Reduced to < 5 W

If your PC detects inactivity (no input) it sends an appropriate signal to the monitor to reduce the power consumption.

If there is still no input, power consumption is further reduced (OFF mode). Once an input is made at the PC the screen contents are redrawn and full power is restored.

The length of the individual stages is determined by the power management system of the PC. For detailed information on how energy-saving mode operates refer to the Operating Manual or Technical Manual of your PC.

i

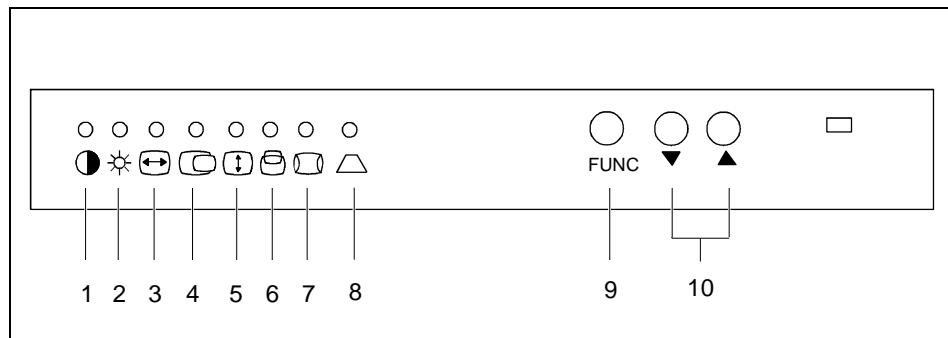
The service life of your monitor will be extended if the OFF mode is switched to after 30 minutes at the earliest (setting in screen saver or in your PC's BIOS setup).

When the monitor is switched to OFF mode by the power management system a power consumption of up to 5 W is maintained to feed the circuit for redrawing the screen contents.

To cut off power consumption totally, press the ON/OFF switch on the front of the monitor.

Changing the monitor settings

With the buttons on the control panel, you can change the monitor settings.



- | | |
|-------------------------|---------------------------|
| 1 = Contrast | 6 = Vertical position |
| 2 = Brightness | 7 = Pincushion correction |
| 3 = Horizontal size | 8 = Trapezium correction |
| 4 = Horizontal position | 9 = FUNC button |
| 5 = Vertical size | 10 = Setting buttons ▼ ▲ |

To make a setting, perform the following steps:

- Use the FUNC (function selection) button to select the symbol for the setting you want to change.

The function indicator above the symbol lights up. As long as the indicator remains on, the setting buttons ▼ ▲ for the selected function are active.

- Use the ▼ or ▲ button to make the desired setting.

The function indicator flashes quickly when the upper or lower border of the setting area is reached.

If no button is pressed for a short period, the function indicator goes off and the current setting is saved.





Adjusting the brightness and contrast



You will increase the life of your screen if you adjust the contrast and brightness to medium.



	Contrast between the foreground and background ▲ = Increasing the contrast ▼ = Decreasing the contrast
	Brightness of the background: ▲ = Increasing the brightness ▼ = Decreasing the brightness

Adjusting size and position

	Horizontal size: ▲ = Increase size ▼ = Decrease size
	Horizontal position: ▲ = Shifting the picture to the right ▼ = Shifting the picture to the left
	Vertical size: ▲ = Increase size ▼ = Decrease size
	Vertical position: ▲ = Shifting the picture up ▼ = Shifting the picture down

Correcting distortion

Pincushion distortion is when the sides of the screen display are bent inward or outward. Trapezoid distortion is when the length of the top and bottom of the screen display differ from each other.

	Pincushion correction: ▲ = Bend edges inward ▼ = Bend edges outward
	Trapezium correction: ▲ = Make picture narrow at top, wider at bottom ▼ = Make picture wider at top, narrower at bottom

Activating the factory settings

Factory settings are available for all settings including brightness and contrast in the preset operating modes (see table in the chapter "[Technical data](#)".)

- Press the ▲ and ▼ buttons at the same time.

Notes on ergonomic color adjustment

If you select colors for the display in your application programs, take note of the information below.

The primary colors blue and red on a dark background do not produce the minimum required contrast of 3:1 and are therefore not suitable for continuous text and data entry.

When using several colors for characters and background and giving the primary colors full modulation, you can obtain very suitable color combinations (see the following table):

Background	Characters							
	black	white	purple	blue	cyan	green	yellow	red
black		+	+	-	+	+	+	-
white	+		+	+	-	-	-	+
purple	+	+		-	-	-	-	-
blue	-	+	-		+	-	+	-
cyan	+	-	-	+		-	-	-
green	+	-	-	+	-		-	-
yellow	+	-	+	+	-	-		+
red	-	+	-	-	-	-	+	

- + Color combination very suitable; light background colors are only suitable for devices which are operated with a refresh rate of at least 75 Hz.
- Color combination not suitable because color locations are too close together, thin characters are not identifiable or rigorous focusing is demanded of the human eye.

Technical data

Dimensions and weight

CRT:	38 cm (15")
Visible diagonals:	35 cm
Dot pitch:	0.28 mm
Maximal resolution:	1280 x 1024 pixels
Dimensions (W x H x D):	360 mm x 364 mm x 385 mm
Weight:	12.0 kg

Accessories: Power cable (1.5 m)
monitor base

Storable display modes: 26 (8 of which are preset)

Electrical data

Video:	analog, positive, 0.7 V _{pp} , 75 Ohm
Synchronization:	TTL
Horizontal frequency:	30 kHz 54 kHz (multi-scanning)
Refresh rate:	50 Hz 120 Hz
Maximum pixel rate:	70 MHz
Power supply:	100 V - 240 V ± 10% 60 Hz/50 Hz ± 3 Hz, < 1.5 A
Power consumption (see power management):	< 65 W (ON, Normal mode) < 15 W (Standby mode) < 15 W (Suspend mode) < 5 W (OFF mode)

Environmental conditions

Environment class 3K2, IEC 721	
Rated range of operation:	15 °C 35 °C
Humidity:	10 % 80 %
Limit range of operation:	0 °C 40 °C
Humidity:	10 % 80 %
Condensation must be avoided.	

VESA-DDC-compatible VGA interface

Your monitor is equipped with a VESA-DDC-compatible VGA interface. VESA-DDC (Video Electronics Standard Association, Display Data Channel) is used as the communications interface between the monitor and the PC. If your PC is equipped with a VESA-DDC-compatible VGA interface, it can automatically read the data for ensuring optimum operation from your monitor and select the appropriate settings.



If the monitor C551 is not yet displayed in the list of monitors, you can select one of the following monitors instead:

Fujitsu Siemens 154V or Siemens MCM 153V, MCM 1404, MCM 1405 ND

Preset operating modes

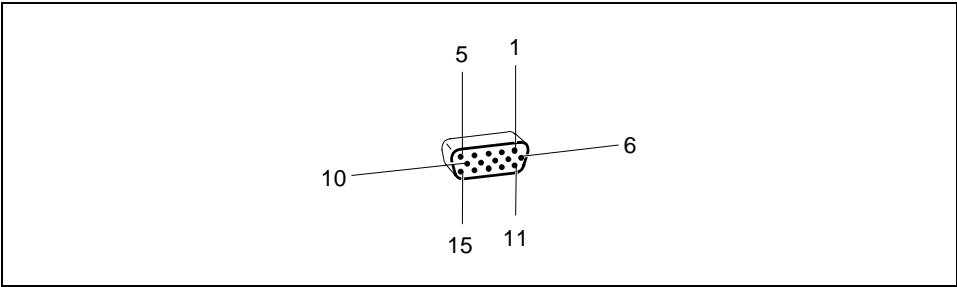


The display position and size have been set to optimum values at the factory for the operating modes listed above. Depending on the screen controller used, it may be necessary to adjust the display position and size. In this case, you can change and save the settings (see "[Operation of the monitor](#)").

Horizontal frequency	Refresh rate	Screen resolution
31.47 kHz \pm 1.0 kHz	70.1 Hz \pm 1 Hz	720 x 400
31.47 kHz \pm 1.0 kHz	60.1 Hz \pm 1 Hz	640 x 480
37.50 kHz \pm 1.0 kHz	75.0 Hz \pm 1 Hz	640 x 480
37.82 kHz \pm 1.0 kHz	84.2 Hz \pm 1 Hz	720 x 400
43.27 kHz \pm 1.0 kHz	85.0 Hz \pm 1 Hz	640 x 480
46.87 kHz \pm 1.0 kHz	75.0 Hz \pm 1 Hz	800 x 600
53.67 kHz \pm 1.0 kHz	85.0 Hz \pm 1 Hz	800 x 600
48.36 kHz \pm 1.0 kHz	60.0 Hz \pm 1 Hz	1024 x 768

For ergonomic reasons we recommend a refresh rate of at least 75 Hz and a maximum resolution of 800 x 600 pixels.

Pin assignment D-SUB



Pin	Meaning
1	Video Red
2	Video Green
3	Video Blue
4	Monitor ground
5	DDC Return
6	Red video ground
7	Green video ground
8	Blue video ground

Pin	Meaning
9	not assigned
10	Logic ground
11	Monitor ground
12	DDC data (SDA)
13	H. sync
14	V. sync
15	DDC Clock (SCL)

Error handling

Should an error occur, first check the following points. If the distortion is still not eliminated, the monitor should, if possible, be checked on another PC.

If you cannot solve the problem, contact our Help Desk.

The display is too small or not centered

The monitor recognizes an undefined mode.

- ▶ Adjust the picture size, position and edges (see "[Operation of the monitor](#)").

Color displacements

- ▶ Switch the monitor off and after about 10 minutes on again to degauss the monitor.
- ▶ Ensure that there are no devices or objects near the monitor which generate magnetic fields (e. g. loudspeakers, plug-in power supply units).

Flickering picture

- ▶ Set an ergonomic refresh rate (≥ 75 Hz) using the PC software (see documentation for your PC or your screen controller/graphics card).
- ▶ Ensure that the monitor is kept at a distance of at least 25 cm from other monitors of the same construction type. With different monitors, the distance must be increased, if necessary.

No display (power indicator does not light)

- ▶ Check whether the monitor is switched on.
- ▶ Check whether the power cable on the monitor is connected correctly.
- ▶ Check whether the system unit is switched on.

No display (power indicator lights)

- ▶ Check whether the system unit is switched on.
- ▶ Check whether the data cable for the monitor is correctly attached to the monitor and the monitor port on the system unit.
- ▶ Press any key on the PC keyboard - the PC may be in energy saving mode.
- ▶ Alter the brightness and/or contrast until you get a picture.