

SIEMENS

SIMATIC HMI SCD1900, 19" Touch

Operating Instructions

SCD1900

6AV7862-2TA00-1AA0 (Landscape)

6AV7466-2TA17-0AA0 (Portrait)



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1 Overview

The LCD device SCD1900 has been developed and constructed especially for industrial applications. This device can be used in industrial systems with particular demands, e.g. immune to electromagnetic radiation.

Its compact enclosure opens up a wide spectrum of possible application areas for the SCD1900. The monitor is available for two orientations portrait and landscape.

With the use of the trend-setting LCD technology in this device relegated picture geometry distortion and color patches are no longer an issue. Even at the low refresh rate of 50 Hz the screen remains flicker-free. The SCD1900 thus fulfils even the strictest ergonomic requirements. Pictures of lower resolution are expanded to fill the screen. The monitor is available in landscape version and portrait version.

The SCD1900 can display up to 16.7 Mio. colors. This allows showing true color images and videos. The LCD-device contains special hardware to convert a standard analogue VGA and digital DVI video signal. Compatibility with conventional CRT devices is guaranteed.

The adjustment of the device will be done via the clearly designed OSD (On Screen Display). Tedious adjustments are a thing of the past with the "Automatic Alignment" function. At the press of a button, the monitor performs these alignments automatically.

The SCD1900 is equipped with an active 19" TFT display module with a maximum resolution of 1440 x 900 pixels. The integrated power management system VESA DPMS, allows a significant reduction in power consumption when the synchronization signal from the computer has been switched off, compared with that under "normal" operation.

1.1 Layout of this Handbook

This handbook should be kept within reach while installing and operating the LCD-device. It has been laid out so that even inexperienced users can find the information they require. Chapters are clearly arranged according to subject.

In detail, the chapters are arranged as follows:

Chapter 1 Introduction

This chapter provides a brief description of the SCD1900, including its properties, application areas and special features.

Chapter 2 Installation

This chapter is mainly concerned with preparing the LCD-device for use, its installation and cabling.

Chapter 3 Operation

All operations and adjustment possibilities for the SCD1900 are described here.

Chapter 4 Technical Data

This chapter contains technical details such as dimensions, power supply, environmental considerations and EMC data.

Chapter 5 Remarks

The chapter gives you additional information and contact information.

Important: The manufacturer has gone to great lengths to match the quality of the documentation to the high standard of this product. In achieving this, we are reliant on the support of our customers.

1.2 Warnings and Safety Notes

Transport

The LCD-device should only be transported in its original packaging to ensure it will be protected against shocks and rough handling.

Setting up

When installing the device, it should be noted whether any moisture (condensation) has entered the unit during transport or storage. Additional important installation information can be found in the "Technical Data" chapter.

EMC

This LCD-device is a component designed for building into industrial systems. The operator of the entire plant is responsible for maintaining electromagnetic compatibility according to EMC-law.

Repairs

Before the unit is opened, the supply voltage must be switched off. Only authorized persons may open the unit.

Additions or changes to the unit may damage the system or affect its EMC behavior.

Cleaning

The unit must be isolated from the power supply before cleaning. If heavily soiled, the LCD-device can be cleaned with a damp cloth and mild detergent. Care must be taken to ensure that no moisture enters the unit during cleaning.

Scouring powders and solvents must never be allowed to come in contact with the unit. The inside of the unit is to be cleaned by qualified service technicians only.

1.3 Instructions for Handling Components Susceptible to Electrostatic discharge

Most of the assemblies within the SCD1900 contain components which can be destroyed by electrostatic voltages. It is also possible for the assemblies to be damaged in such a way that total failure does not occur.

If you (as an authorized service technician) are handling such assemblies then the following precautions should be observed:

- When such assemblies are being handled, a means of electrostatic discharge must be available. This can be, for example, a grounded object, which can be touched to discharge electrostatic voltages.
- This applies to all insulated used tools. They must also be discharged at grounded object.
- When assemblies are removed or added to the system, the unit must always be switched off and the power supply cable disconnected.
- Vulnerable assemblies should always be held by their edge. Avoid touching tracks and contact pins.

2 General Installation

Preparation for installing the LCD-device includes the following points:

- Removal of all packaging
- Checking of components for damage
- Comparison of components received with those on the delivery note
- Connection to the computer system and power supply
- Building into your system, bearing in mind technical and ergonomic aspects

2.1 Removing the Packaging and Checking Individual Parts

After unpacking all the delivered components, they should be checked for completeness and for possible transport damage (visual inspection). If any deficiencies are found then please contact the service department given on the delivery note. Have the delivery note number, serial number and a description of the deficiency to hand.

The original packaging should be kept for future transportation.

2.2 Scope of Delivery

- Cable set 1,8 m – VGA, USB und DVI
- 10 bracket
- Documentation
- Driver-CD

2.3 Installing the LCD-Device

The SCD1900 will be placed in panel cut out and mounted with 10 clamps (see Fig. 1 and Fig. 2) at the cut out frame in the rear, 3 clamps each top/bottom and 2 clamps each left/right. To fix the device the clamps will be hang in the provided holes at the bezel and the screws tighten (max 50 Ncm) (see Fig. 1 and Fig. 2). The panel cut out is prepared according to the drawing (see Fig. 5)

The SCD1900 must be close-fitting to the panel to keep the protective. If the surface structure is coarsely to leaks must be tested.

Attention:

All 10 clumps must be used and both hooks must be hanged up.

The monitor is available for two orientations portrait and landscape.

Vertical installation and deviations between $+20^\circ$ and -20° is permitted.

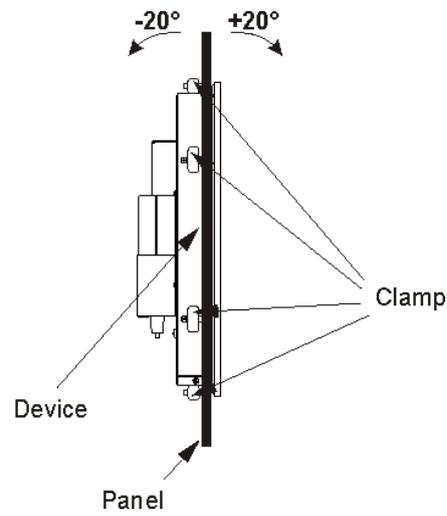


Fig. 1: Mounting of SCD1900

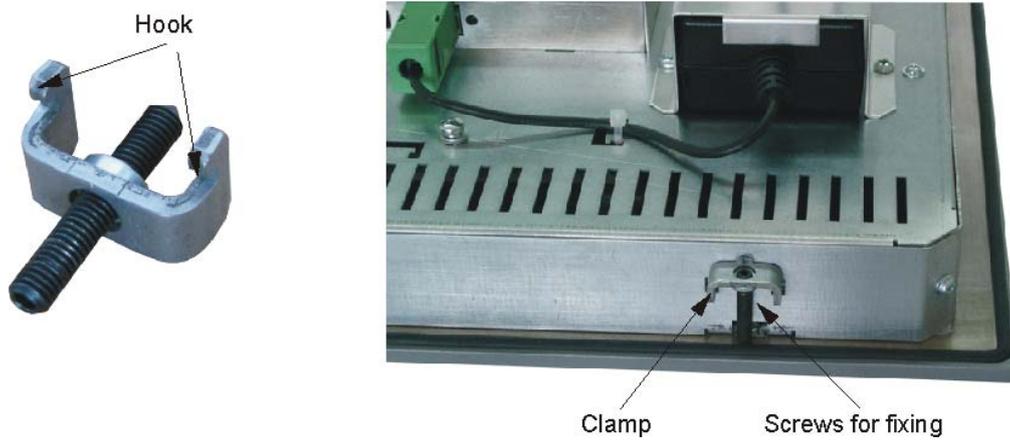


Fig. 2: Clamp for mounting

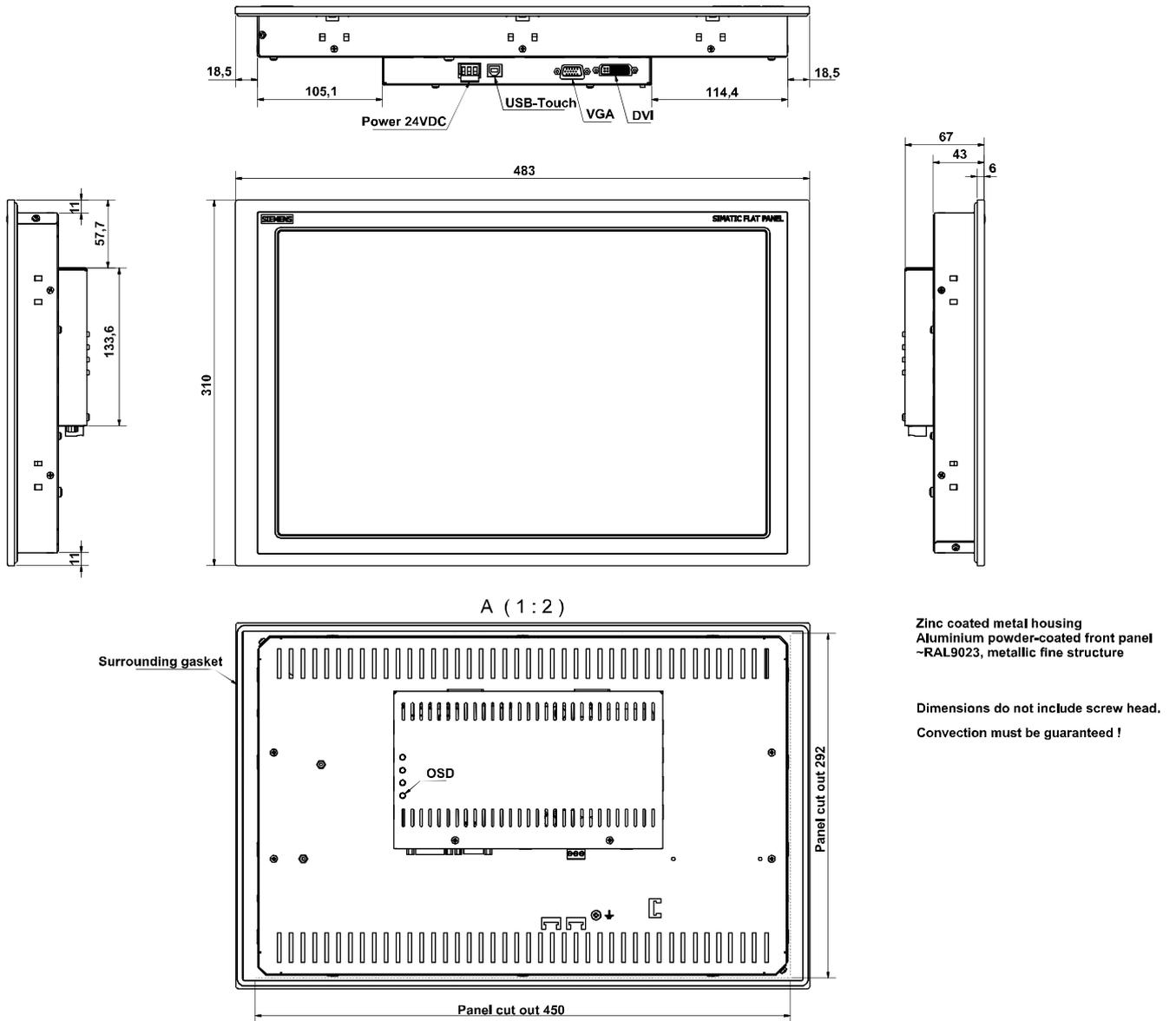


Fig. 3: Dimensions of the SCD1900 (landscape)

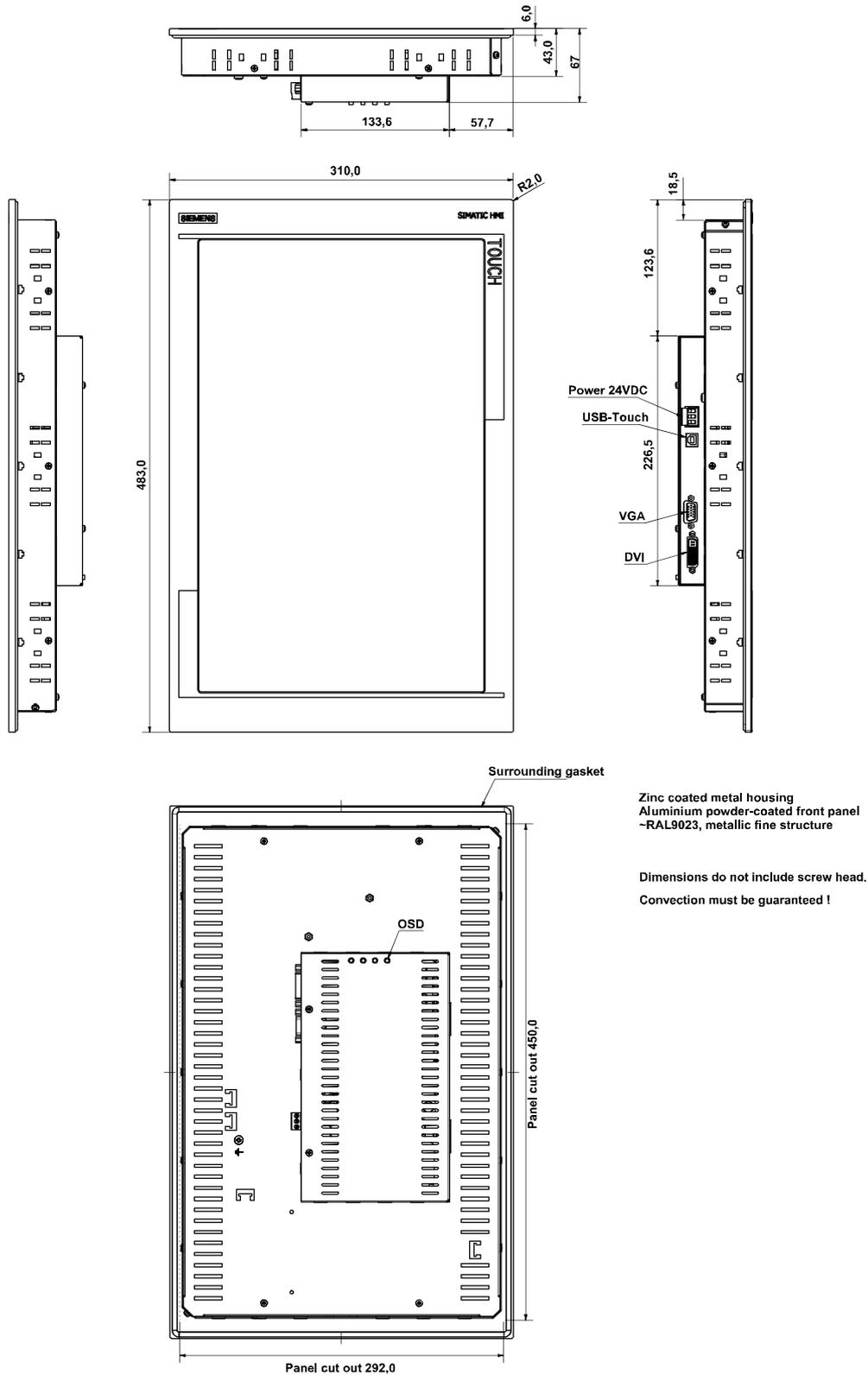


Fig. 4: Dimensions of the SCD1900 (portrait)

Thermal

In order that the LCD-device maintains an optimum operating temperature while in use, air must be allowed to circulate freely around the SCD1900 enclosure. It is particularly important that the rear of the system is kept free.

Please bear in mind that increased temperatures can lead to defects and to a significant reduction in the lifetime of the device.

EMC

This LCD-device is a piece of equipment designed for building into an industrial system. The operator of the entire plant is responsible for maintaining electromagnetic compatibility according to EMC laws.

Safety

All voltage and signal connections must adhere to appropriate legal requirements.

Ergonomics

The screen should be easily viewable from all sides and without reflections.

Harmful gas

Supply air with harmful gas is not allowed because of limitation in harmful gas resistance,

2.4 Cable Connections and Pin Assignments

The LCD-device has been tested and set-up in the factory. Before use, the power supply and the signals should be connected to the sockets provided. Connections to the device should adhere to EMC regulations.

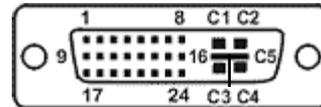
The added DVI cable should be used for the signal connection to the PC (alternative can be used the VGA cable).

For the use of the Touch screen connect the SCD1900 with PC via the USB cable.

2.4.1 DVI Interface

The DVI interface is a 29-pin DVI-connector.

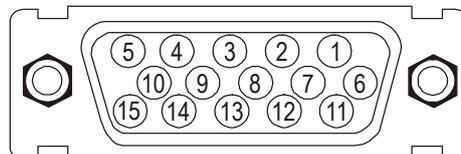
Pin	Signal
1	TMDS-Data 2 -
2	TMDS-Data 2 +
3	TMDS-Data Shield 2 (GND)
4	-
5	-
6	DDC-CLK
7	DDC-DATA
8	Analogue V-Sync.
9	TMDS-Data 1 -
10	TMDS-Data 1 +
11	TMDS-Data Shield 1 (GND)
12	-
13	-
14	+5 V Power (In)
15	GND
16	Hot Plug Detect
17	TMDS-Data 0 -
18	TMDS-Data 0 +
19	TMDS-Data Shield 0 (GND)
20	-
21	-
22	TMDS-CLK Shield (GND)
23	TMDS-CLK +
24	TMDS-CLK -



2.4.2 VGA-Interface

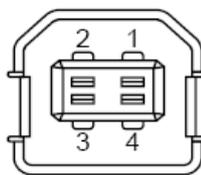
The VGA interface is a standard 15-pin male HD-D-type connector.

Pin	Signal
1	Video input RED
2	Video input GREEN
3	Video input BLUE
4	Not used
5	Not used
6	GND (RED)
7	GND (GREEN)
8	GND (BLUE)
9	Not used
10	GND
11	Not used
12	Not used
13	H-Sync.
14	V-Sync.
15	Not used



2.4.3 Touch Interface - USB

Pin	Signal
1	+5V
2	Data -
3	Data +
4	GND



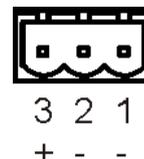
2.4.4 Power supply

As the Power supply will be used a 24 V_{DC} power connector or optional the external 230 V_{AC} power supply on the rear of the unit.

2.4.4.1 24V_{DC} power supply

Type: Phoenix - MSTB-03G

Pin	Signal	Description
1	GND	Ground / Minus
2	GND	Ground / Minus
3	+24V	Power supply +24V _{DC}



2.4.4.2 230 V_{AC} power supply (optional)

The AC/DC power supply unit (24 V_{DC}) is fixed by a bracket on the rear of the unit.

The connector of the DC-24V supply line will be plugged into the DC interface of the SCD1900.

The cables will be fixed depending from the version with cable clips or binder to avoid unintended disconnection of the plug from the device.

2.5 Electrical Installation

Before connecting the SCD1900 to the power supply, it should be checked if the signal-connector is plugged in properly and that the screws are tightened.

There are many possible reasons why an image might fail to appear on the display after it has been switched on:

- no signal connected
- no synchronization signal connected
- horizontal and vertical synchronization signals are connected the wrong way round

2.6 Touch Functionality

The documentation and software for starting up of Touch are included on the CD which is part of the delivery.

The following Software tools are part of the CD:

- UPDD (Touch driver and calibration)
- TouchInput (Virtual Keyboard)
- OnScreenKeyboard (OSK-Gina, Possibility for enter into Windows-login-screen via Touch)

2.6.1 Installation of touch driver software UPDD

For installation of the touch driver software follow the instruction in user manual (UPDD_en.pdf) on CD.

2.6.2 Calibration the touch screen

The calibration is described in the file UPDD.doc on the CD.

3 Operation and Alignment

This chapter contains a description of all the operating and alignment functions.

3.1 Location of the Operation and Alignment Controls

All the controls are accessible from the rear of the unit. Following Fig. 5 shows the position. These controls are used for navigating, for selecting and altering parameters in the OSD menu.

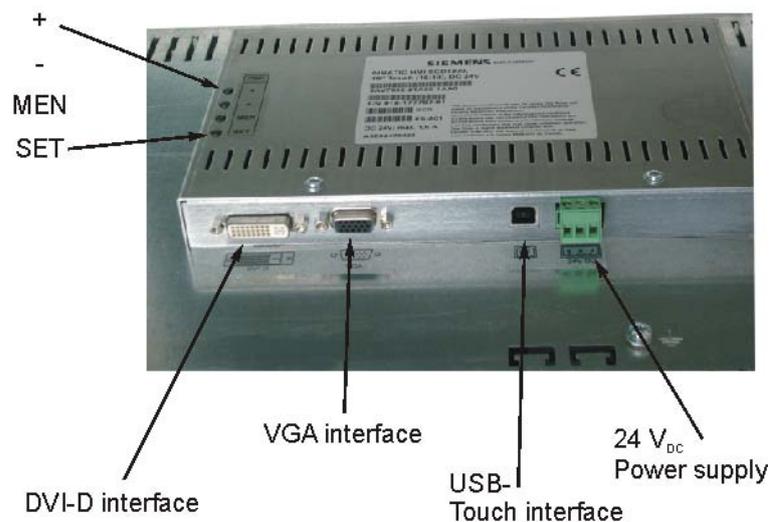


Fig. 5: Location of the operation and alignment controls

The functions of the keys are described in chapter 3.2.1 and 3.2.2.

3.2 Using and adjusting the device

Since there are no standards for video output signals from graphic cards, the first time the unit is switched on in DVI use it will automatically adjust itself to the pixel resolution card currently being used.

Via the analog VGA interface an automatically identification of the resolution thru the PC is not possible the adjustment must be done manually via the operation system. (Start->adjustment->system control->display)

Some standard graphic controllers with included driver do not support the resolution. In that case a similar resolution should be selected. The picture will be adjusted to the resolution of the monitor by its internal electronic. Because of the interpolation the picture is slightly diffuse.

Basically the digital DVI interface is recommended.

OSD-Menu / Quick-OSD-Menu

The „On Screen Display“ OSD is a menu system, which is shown on the display. With the help of OSD and the described controls elements (4 keys in the rear), all adjustments of the device are executable.

In addition to the **OSD** menu there are more possibilities to adjust important functions like brightness, contrast and automatic adjustment directly via a **Quick-OSD-menu**.

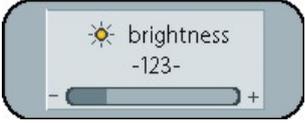
3.2.1 Quick-OSD-Menu

Function(s) of the control keys:

Key	Function
+	<ul style="list-style-type: none"> • Start Quick-OSD-Menu • Increase the parameter value • Selection of the input signal: • Automatically alignment of the pictures
-	<ul style="list-style-type: none"> • Decrease the parameter value
MEN	<ul style="list-style-type: none"> • <u>No function in the Quick-OSD</u>
SET	<ul style="list-style-type: none"> • Start Quick-OSD-Menu • Adjust the contrast / brightness • Choose of Quick OSD function

Following adjustments can be done via the Quick-OSD-menu:

Invoke via key <SET>

Function	Adjustment/value	Description
	Range: 0 to 100 via key <+>/<->	Contrast adjustment
	Range: 0 to 100 via key <+>/<->	Brightness adjustment

Invoke via key <+>

Function	Adjustment/value	Description
Source digital DVI, RGB	Press <SET> to choose; Press <+> to select	Selection of input-source
	Press key <+> to start the adjustment	Perform an automatic image adjustment. Adjustment of frequency, phase and image position.

3.2.2 OSD-Menu

Function(s) of the control keys:

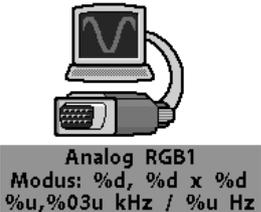
Key	Function
+	<ul style="list-style-type: none"> • Increase the parameter value • Go to the right
-	<ul style="list-style-type: none"> • Decrease the parameter value, • Go to the left
MEN	<ul style="list-style-type: none"> • <u>Start OSD</u> • Select the main menu/submenu
SET	<ul style="list-style-type: none"> • Scroll down or select menu item in main menu / submenu

Invoke via key <MEN>



The OSD varies depending from the represented signal-source. OSD functionality by represented RGB (VGA)-signal and DVI signal are described in the following captures.

3.2.2.1 Structure of the On Screen Display Menu (DVI)

Main menu	Function	Adjust function / value / range	Description
Picture 1	Brightness	setting range: 0 to 100 through key (+/-)	adjust brightness
	Contrast	setting range: 0 to 100 through key (+/-)	adjust contrast change contrast between dark and light colors
	scaling	fill all; fill aspect ratio	scaling of the picture
Picture 2	Sharpness	1, 2, 3, 4, 5	adjust sharpness of the picture by using no. 1 to 5 1=sharp, 5= soft
	Gamma	Linear or CRT	correction of gamma curve value of colors will be forwarded to the display
	Color temperature	5000 - 7300 – 9300 - VAR	color temperature / adjust color three defined and one adjustable color temperatures are for selection Activate „VAR“ - for RGB shows up an adjustment beam. 0 to 100 % (50% correspond to factor 1)
Option 1	OSD	select between nine defined OSD positions	define position OSD
	OSD H-Position	setting range : 0 to 100 through key (+/-)	move OSD-menu in horizontal position
	OSD V-Position	setting range : 0 to 100 through key (+/-)	move OSD-menu in vertical position
	OSD timeout	5 ... 60 seconds	adjust time after the OSD menu is automatically fade out the adjustment ensures between 5 to 60 s in steps of 5 s.
	OSD background	Opaque – Transparent	Select background color of the OSD menu you have the choice between transparent and colored background.
	Backlight	setting range : 0 to 100 through key (+/-)	Adjust brightness of backlight herewith you can match the brightness of the picture with the brightness of the room.
Option 2	DPMS	ON – OFF	Display Power Management System (DPMS) on or off If DMPS activated, the device is turn off (backlight) when a synch signal is left. The screen is dark.
	Source scan	OFF – ON	Standard: ON Note: To scan new video source is not relevant because the device has one RGB input source only.
	Blank color	red – green – blue – black	Choose the background color of the screen when no input signal is present.
	Info signal source	ON – OFF	Input source icon on or off The icon is shown when input signal are changed. The icon shows the following information's: <ul style="list-style-type: none"> - signal source (e.g. RGB analog) - Mode number (internal mode number of the timing list) - Image resolution of the input signal - H- and V-frequency  <p>Analog RGB1 Modus: %d, %d x %d %u,%03u kHz / %u Hz</p>

Main menu	Function	Adjust function / value / range	Description
Option 3	Noise suppression	ON - OFF	Standard setting OFF. At ON: Activation of function for noise suppression in synchronization signals. Inhibits new auto-alignment during display of a video signal when short-term noise is present on synchronous signals.
	Lock RGB Signal 1	ON <+ Key>	Standard setting OFF. At ON: The video timing currently shown will be stored, and processed with higher tolerance in H- and V-frequency. I.e. the settings of this timing will always be used, even if variations in H- and V-frequency will occur by noise. Prevents erroneous recognition of timing when recognizing a noisy video signal, e.g. showing up as wrong centering or resolution of picture.
	Unlock RGB Signal 1	OFF <+ Key>	Standard setting OFF. (Video timing 1 released again).
	Lock RGB Signal 2	ON <+ Key>	Standard setting OFF. At ON: The video timing currently shown will be stored, and processed with higher tolerance in H- and V-frequency. I.e. the settings of this timing will always be used, even if variations in H- and V-frequency will occur by noise. Prevents erroneous recognition of timing when recognizing a noisy video signal, e.g. showing up as wrong centering or resolution of picture.
	Unlock RGB Signal 2	OFF <+ Key>	Standard setting OFF. (Video timing 2 released again).
Utilities	Language	English – German	OSD language
	Factory reset	<+> press	Reset of values like brightness, contrast,... to default values
	Installation RGB-Mode	<+> press	Enter a new timing which is not in the internal timing table. This function should be used, when the shown image resolution is not the expected. When press <+> the sub menu expect 9 timing parameter.
	When <+>, H- and V-Frequency	–	Show the H- and V-Frequency of the present input signal.
	H/V-total, H/V-start	–	Show the used timing parameter of the present input signal
	Option	Var. RGB-Mode inactive, Mode1, Mode2, Mode3	Inactive: use the internal timing table only Mode1: use the timing parameter and perform a complete auto adjustment. (usually used) Mode2: use the timing parameter and perform an auto adjustment without an automatic image position adjustment. Mode3: use the timing parameter and perform an auto adjustment without an automatic frequency adjustment.
	H-resolution	100 to 2000 through key (+/-)	Horizontal image resolution
	V-resolution	100 to 2000 through key (+/-)	Vertical image resolution
	H-total	100 to 2500 through key (+/-)	Whole pixel per line
H-Start	0 to 750 through key (+/-)	Number of Pixels from H-sync start to image start	
V-Start	0 to 500 through key (+/-)	Number of lines from V-sync start to image start	
Install	<+> press	Activate the feed timing parameter	
	test pattern	<+> press	Show a test image
Info	Firmware, Resolution, Timing	–	Show the firmware version and timing data of the present input signal

3.2.2.2 OSD-Menu-Function (VGA)

Main menu	Function	Adjust function / value / range	Description
Picture 1	Brightness	setting range: 0 to 100 through key (+/-)	adjust brightness
	Contrast	setting range: 0 to 100 through key (+/-)	adjust contrast change contrast between dark and light colors
	H Position	setting range: 0 to 100 through key (+/-)	move picture in horizontal direction
	V Position	setting range : 0 to 100 through key (+/-)	move picture in vertical direction
	Phase	setting range : 0 to 31 through key (+/-)	adjust phase of input signal
	Frequency	setting range : 950 to 1050 (dependent to picture) through key (+/-)	adjust frequency of input signal
	scaling	fill all; fill aspect ratio	scaling of the picture
Picture ...	See chapter Structure of the On Screen Menu (DVI) page 22		
Option 1	See chapter Structure of the On Screen Menu (DVI) page 22		
Option 2	See chapter Structure of the On Screen Menu (DVI) page 23		
Option 3	See chapter Structure of the On Screen Menu (DVI) page 23		
Utilities	See chapter Structure of the On Screen Menu (DVI) page 23		
Info	See chapter Structure of the On Screen Menu (DVI) page 23		

4 Technical Data

4.1 Display Module

Type		active Color TFT-LCD
Diagonal		48.1 cm (19.0")
Display area (WxH)	landscape portrait	408.2 x 255.2 mm ² 255.2 x 408.2 mm ²
Resolution	landscape portrait	1440 x 900 pixels 900 x 1440 pixels
Pitch		0.2835 x 0.2835 mm ²
Colors		16.7 Mio.
Backlight		LED
Brightness (typical)		approx. 250 cd/m ²
Contrast		1000:1
Viewing angle (min.)	L/R O/U	85° (Landscape) 80° (Portrait) 80° (Landscape) 85° (Portrait)

4.2 Power Supply

Input voltage Limited power source max. 8A	18 – 36 V _{DC}
Power consumption (typical)	< 20 W
Power consumption (Standby)	approx. 5 W
Inrush current	25 A

4.3 Operating Conditions

Operating temperature	5 to +40 °C
Storage temperature	-20 to +60 °C
Relative humidity in operation	max. 85% by +30 °C

4.4 Protection

Protection Class	IP65 front
Front glass	Antireflective glass

4.5 Enclosure

Weight	approx. 5.5 kg
Enclosure material	aluminum

4.6 Mechanical requirements

4.6.1 Operation

Vibration	According to EN 60068-2-6 5 ... 8.5 Hz with ± 3.5 mm deflection 8.5 ... 150 Hz at 1g
Shock	According to EN 60068-2-29 50 m/s ² , 30 ms

4.6.2 Packed unit

Vibration	According to EN 60068-2-6 5 ... 8.5 Hz with ± 3.5 mm deflection 8.5 ... 500 Hz at 1g
Shock	According to EN 60068-2-29 250 m/s ² , 6 ms (in storage packaging)

4.7 Input Signal

4.7.1 Digital Signal

Type	Standard signal DVI 1.0
Pixel Frequency	25 – 140 MHz

4.7.2 Analog Signal

Level (Video)	0.7 V _{SS} RGB analogue at 75 Ω
Bandwidth	300 MHz (-3dB)
Impedance	75 Ω
Synchronization	- Sep. Sync. (TTL) - Sync on green - Composite Sync
H-Frequency	30 to 97 kHz
V-Frequency	50 to 72 Hz

4.8 EU Declaration of Conformity on EMC



EG-Konformitätserklärung EC Declaration of Conformity

Hersteller:
Manufacturer: **EIZO Technologies GmbH**
Anschrift:
Address: **Bürgermeister-Seidl-Str. 8**
D-82515 Wolfratshausen
Germany
Produktbezeichnung:
Product description: **SCD1900**

Das bezeichnete Produkt ist entwickelt, konstruiert und gefertigt in Übereinstimmung mit den Richtlinien:

The described product is developed, constructed and produced in conformity with the following European Directives:

2004/108/EG: Richtlinie des Rates zur Angleichung der Rechtsvorschriften der Mitgliedstaaten über die elektromagnetische Verträglichkeit
Council Directive on the approximation of the laws of the Member States relating to electromagnetic compatibility

2006/95/EG: Richtlinie des Europäischen Parlaments und des Rates zur Angleichung der Rechtsvorschriften der Mitgliedstaaten betreffend elektrische Betriebsmittel zur Verwendung innerhalb bestimmter Spannungsgrenzen
Directive of the European Parliament and of the Council on the harmonisation of the laws of Member States relating to electrical equipment designed for use within certain voltage limits

CE-Kennzeichnung / CE marking: 2011

Die Konformität mit den Richtlinien wird nachgewiesen durch die Einhaltung folgender Normen: /
Conformity to the Directives is assured through the application of the following standards:

Referenznummer / Reference number
EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011
EN 55022:2006 + A1:2007
EN 61000-6-2:2005
IEC 61131-2:2007
Namur NE21:2006

Wolfratshausen, 18.02.2013

EIZO Technologies GmbH

ppa. Thomas Henkel

Diese Erklärung bescheinigt die Übereinstimmung mit den genannten Richtlinien, ist jedoch keine Beschaffenheits- oder Haltbarkeitsgarantie nach §443 BGB. Die Sicherheitshinweise der mitgelieferten Produktdokumentation sind zu beachten.
This declaration certifies the conformity to the specified directives but does not imply any warranty for properties. The safety documentation accompanying the product shall be considered in detail.

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5 Remarks and contact addresses

5.1 Remarks

Invalidity of guarantee

All unauthorized electrical or mechanical alterations on or in the unit result in loss of the guarantee.

Information on the Instruction Manual

For clarity reasons, this Instruction Manual does not contain all detailed information on this product.

Your attention is additionally drawn to the fact that the contents of this Instruction Manual are not part of a previous or existing agreement, commitment or statutory right and do not change the latter.

Warranty

All commitments on the part of Siemens AG are contained in the respective sales contract which also contains the complete and solely applicable warranty conditions. These warranty conditions in the contract are neither extended nor limited by the contents of this Instruction Manual.

Repairs

Please contact your distributor from whom you originally purchased the product.

Environmental protection

When disposing of the device, the requirements and laws in the respective country must be observed.

5.2 Additional support

If you have any further questions about the use of products described in this manual and do not find the right answer here, contact your local Siemens representative.

A guide to the technical documentation for various products and system is available on the Internet:

Internet: www.siemens.com/asis

The online catalog and online ordering systems are also available on the Internet:

Internet: www.siemens.com/asis

5.3 Trainings Center

To help you get started with automation technology and systems, we offer you variety of courses. Contact your regional Training Center or the central Training Center in D-90327 Nuremberg, Germany.

Phone: + 49 911 895-3200

Internet: www.siemens.com/asis

5.4 Technical Support

You can access technical support for al A&D projects via the following:

Phone: + 49 (0) 911 895 7222

Fax: + 49 (0) 911 895 7223

Mail: support.automation@siemens.com

Internet: www.siemens.com/asis

5.5 Service & Support on the Internet

In addition to our documentation, we offer y comprehensive online knowledge base on the Internet at:

- Following information will be found, for example:
- Our newsletter containing up-to-date information on your products
- The documents you need via our Search function in Service & Support.
- A forum for global information exchange by users and specialists
- You local Automation & Drives representative
- Information about on-site service, repairs and spare parts. Much can be found under "Services"

Internet: www.siemens.com/asis