

CID1000P

Control Interface Device





CID1000P Control Interface Device

Instructions for use

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10/2014




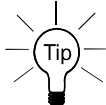
Doc. No: 1027331-004

Legal information

Warning notice system

For a full understanding of the performance characteristics of this device, the user should carefully read this setup manual before using of the device.

This manual contains notices you have to observe in order to ensure your personal safety, as well as to prevent damage to property. The notices referring to your personal safety are highlighted in the manual by a safety alert symbol, notices referring only to property damage have no safety alert symbol. These notices shown below are graded according to the degree of danger.

Symbol	Meaning
	This symbol indicates the danger of injury to the user or the risk of damage to the product if the corresponding warning notices are not observed.
	This symbol indicates that the product or parts thereof may be damaged if the corresponding warning notices are not observed.
	This symbol indicates general information about the product and the "Instructions for Use".
	This symbol precedes helpful hints and tips for daily use.


If more than one degree of danger is present, the warning notice representing the highest degree of danger will be used. A notice warning of injury to persons with a safety alert symbol may also include a warning relating to property damage.

Qualified Personnel

The product/system described in this documentation may be operated only by **personnel qualified** for the specific task in accordance with the relevant documentation for the specific task, in particular its warning notices and safety instructions. Qualified personnel are those who, based on their training and experience, are capable of identifying risks and avoiding potential hazards when working with these products/systems.

Proper use of Fehler! Unbekannter Name für Dokument-Eigenschaft. products

Note the following:

 WARNING
Fehler! Unbekannter Name für Dokument-Eigenschaft. products may only be used for the applications described in the catalog and in the relevant technical documentation. If products and components from other manufacturers are used, these must be recommended or approved by Fehler! Unbekannter Name für Dokument-Eigenschaft. Proper transport, storage, installation, assembly, commissioning, operation and maintenance are required to ensure that the products operate safely and without any problems. The permissible ambient conditions must be adhered to. The information in the relevant documentation must be observed.

Trademarks

All names identified by ® are registered trademarks of their respective owners. Please refer to the trademarks listed in the appendix. The remaining trademarks in this publication may be trademarks whose use by third parties for their own purposes could violate the rights of the owner.

Disclaimer of Liability

We have reviewed the contents of this publication to ensure consistency with the hardware and software described. Since variance cannot be precluded entirely, we cannot guarantee full consistency. However, the information in this publication is reviewed regularly and any necessary corrections are included in subsequent editions.

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Introduction

1.1 Contents of this document

This document explains the functionality and the approved application of the Control Interface Device CID1000P.

To ensure clarity, it does not contain all detailed information on this product.

The contents of this document are neither part of a previous or existing agreement, commitment or legal relationship, nor does it modify such.

1.2 Applications


CID1000P offers a highly reliable platform with flexible mounting options. It is specially designed for the use with the monitors RadiForce LS580W or RadiForce LX600W and the Large Monitor Manager LMM0801, LMM0802 or LMM56800 as an operating monitor with a touch function, enabling the set ups of different screen layouts.

Safety information

2.1 General safety notes

Flawless, safe and reliable operation of the equipment assumes that it has been professionally transported, stored, mounted and installed as well as careful operator control and service. The units may only be used for applications for which monitors are normally used.

For safety reasons, the following precautions must be observed:

 DANGER
<p>There is a danger to life if warnings are not obeyed. Severe personal injury or damage to property may occur. Please observe all warning information present on the display and in the user manual.</p>
<p>Do not open the display</p> <p>The display may only be opened by trained and qualified personnel. There is risk of an electric shock. Components inside the displays are at high voltage. Touching these components is extremely dangerous! Servicing and maintenance must be carried out by qualified personnel only.</p> <p>No liability is accepted for damage to property or injury to persons if the display is opened by non-qualified personnel.</p>
<p>Never use defective power cables</p> <p>A damaged power cable may result in fire or electric shock. Only use power cables approved by the manufacturer.</p> <p>When disconnecting the power supply cable, always do so by holding the plug. Ensure that your hands are dry.</p> <p>Route the cable such that it cannot be tripped over.</p>
<p>Do not insert any objects into the housing</p> <p>Objects inserted into the housing may result in damage to the unit or personal injury.</p>
<p>Do not place any objects on top of the unit</p> <p>If you place objects on top of the unit, the unit may overheat.</p> <p>Liquid entering the unit may result in fire or electric shock.</p>
<p>Connecting</p> <p>There must be no contact to a patient when handling the connection cables.</p>
<p>Overload</p> <p>Do not connect too many devices to one socket or extension cable since this could result in a fire or electric shock.</p> <p>Observe the information provided by the manufacturer.</p>

CAUTION

Improper installation may result in extensive damage to property.

Installation must be carried out by specialists.

1. To avoid danger for patients and users, connect your electrical system in accordance with the safety requirements of EN 60601-1 (IEC 60601-1) "Safety requirements for medical electrical systems".

In order to guarantee that the housing discharge current in the event of a first fault does not exceed 500 μ A, the display must be connected to an additional PE connection. Use appropriate measures to ensure that the leakage currents in particular remain below the necessary limits:

Appropriate measures include:

- Separators for signal input or signal output unit
- Use of a safety isolating transformer
- Use of the additional protective conductor terminal

2. Device and patient must never be touched simultaneously.
3. It must be specifically mentioned that the display is only suitable for a patient environment, but not for contact with a patient.
4. Only use the video lines specified by the manufacturer for installation.
The serial interface cable must have a female Sub-D connector at the computer end.

5. **Note for users:**

The closed connection panel may only be opened by trained and qualified personnel.

6. **Servicing information:**

If housing parts have to be removed for servicing, this must not be carried out in the presence of the patient or user. Only connect displays with a VESA connection on the rear panel to the power supply when the VESA plate is screwed on.

7. **Important:**

Note that displays can fail and that the image properties such as brightness, contrast or color location can change with time.

CAUTION

Failure to observe warnings may result in substantial damage to property

Ensure sufficient heat dissipation

Observe an appropriate spacing to neighboring objects when placing or dispensing the devices to ensure appropriate air circulation.

Ventilation slots are provided on the housing base, the top of the cover, the rear panel and the side panels. The permissible ambient temperature range (see manual) must not be violated.

- Installation on a desk:
Place the unit on solid and level surface. The installed stand as well as the mounting surface have to be suitable for the weight of the unit.
- For ceiling suspension:
The wall mount must be suited for the weight of the unit.

Avoid sources of heat

Do not install the display in the vicinity of sources of heat, e.g. radiators, heating appliances or other devices which can generate or emit heat.

Do not subject display to excessive shocks

Take care when transporting! **Use the original packaging, and transport correctly oriented!** Be sure to protect the LCD module in particular from shocks.

Care of display / Cleaning agents

- The screen surface (front panel) is extremely sensitive to mechanical damage. Absolutely avoid scratches, shocks etc.
- Remove water drops immediately; extended contact with water discolors the surface.
- Clean the screen and the housing using only the cleaning agents referred to in the manual.

NOTICE**Only switch on cold displays following their adaptation to room temperature**

If the display is brought into a room with a higher or rising temperature, condensation is formed inside and outside the unit. In such a case, do not switch on the display until the condensation has evaporated. The display will otherwise be damaged.

What to do if the display is faulty

If the following conditions exist, the display must be disconnected from the power supply and checked by qualified personnel:

- Damage to the plug or power cable.
- Following the entry of liquid into the unit.
- If the unit has been exposed to moisture.
- If the unit does not function or if you cannot eliminate a fault using the manual.
- If the unit has been dropped and/or the housing damaged.
- If the unit smells of burning or produces peculiar noises.

Note for installation in the USA and Canada

Molded power supply plugs must comply with the requirements for "hospital grade attachments" CSA Std. C22.2 No. 21 and UL 498.

Note for installation in China

Only use the power cables approved for China. These power cables are identified by the labels "CCC" or "CQC".

2.2 Product-specific safety notes




- The CID1000P is designed to be used in vertical position with the interfaces downwards. Don't stack this device with other electronic devices. Interacting EMC influence may be happen. If horizontal operation position is necessary, please observe the allowed positioning angle during operation as shown in Chapter 4 "Assembly".
- Repairs may only be carried out by qualified specialist personnel authorized by Kontron Embedded Computers.
- Don't drop the CID1000P!
If some plastic parts of the enclosure are broken, do not use the CID1000P anymore and disconnect it from the power-source.

Description

3.1 Scope of delivery

CID1000P: 10" Control Interface device with touch function


Order number: 6GF6550-2HE08

	<p>CID1000P Control Interface Device</p>
	<p>AC/DC Adapter for Class II devices</p>
	<p>Power Cord (complying to the EU requirements)</p>

3.2 Product description

Before you begin using your CID1000P, you should take a few minutes to learn about the various ports, connectors and indicators that are part of your CID1000P.

The CID1000P is prepared for the usage with Large Monitor Manager LMM0801, LMM0802 or LMM56800. It is designed as interface device for the operator in order to visualize the different layouts of the monitor RadiForce LS580W or RadiForce LX600W.

	<p>Intended Use</p> <p>The “essential performance” of the CID1000P is to control medical equipment with medical applied parts (e.g. as user terminal for x-ray or endoscopic devices).</p> <p>The CID1000P is not allowed to be used as a diagnostic system or a patient monitoring system!</p>
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The CID1000P is delivered without any medical application software.

Only approved and certified medical application software, that comply with the standard IEC60601-1-4 and respectively ISO 14971 shall be used and installed on CID1000P.

- The CID1000P is equipped with a 10.4" display. In front of the display there is installed a touch screen, where the different layouts can be chosen. Also the touch screen protects the display surface from dirt and scratches. The CID1000P is not designed for diagnostic use.
- The CID1000P accommodates an SBC with an on board Compact Flash™-slot (IDE). The device is delivered with a CF card, type I.
- For ESD protection an ESD protection cover is mounted to the serial interface of the CID1000P.
- Dust protection covers are mounted to the LA2 and VGA ports.
- An additional USB port is available on the left side (rear) of the unit. This USB connector is covered by an elastic captive rubber coat.
- The CID1000P and the external AC/DC adapter are verified and certified as protection class II devices [without protection earth connection]. The CID1000P is designed to be connected to an AC power source via the external AC/DC adapter.
- The CID1000P ensures the IP21 protection class. At the display front side the protection class IP65 is ensured.
- The CID1000P is a fan less device. The air openings, located on the rear side of the device provide air circulation for the interior cooling, in order to prevent overheating.



When powering on the CID1000P, make sure that the air intake and exhaust openings are not obstructed.



Under any circumstances don't touch simultaneously patient and the CID1000P unit!

3.2 Product description



Fig. 1: Bottom view



Fig. 2: Right view



Fig. 3: Frontal view



Fig. 4: Left view

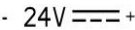










Fig. 5: Top view



Fig. 6: Rear view

3.3 Symbols used on the device

	Power input
	Power button
	RESET button
	USB port
	Read accompanying documentation
	Consult accompanying safety instruction included in the "Instruction for Use"
	Date of manufacture
	Manufacturer
	Non-disposable part

Assembly

4.1 Mounting to a VESA® mounting system

The CID1000P is designed to be used in vertical position with the interfaces downwards. If horizontal operating position is necessary, please observe the allowed positioning angle during operation as shown in Fig. 7.

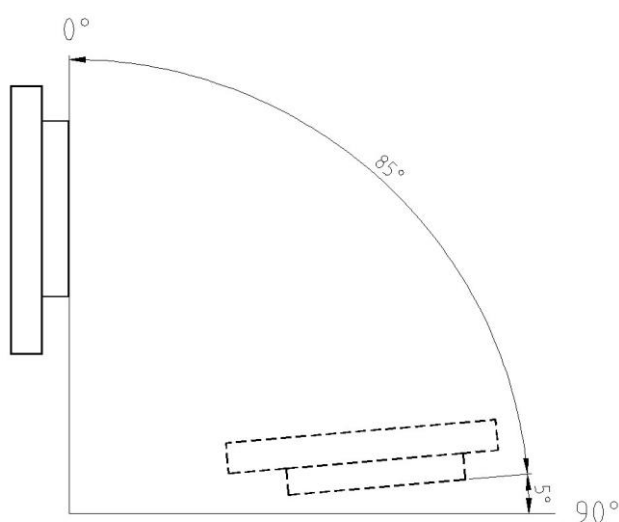


Fig. 7: Recommendation for operating position (vertical and horizontal)

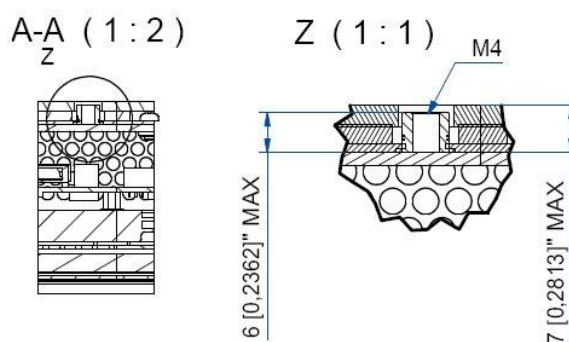


Fig. 8: Detail for VESA® mounting

	<p>When powering on the CID1000P, make sure that the air intake and exhaust openings are not obstructed.</p> <p>In order to ensure a proper operation of the device, we recommend keeping the ambient temperature around the specified intended use temperature range (0°C-40°C).</p>
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The CID1000P is VESA® 75 compliant.

	<p>Use four M4 metric screws to attach the device to a VESA® mounting system. Depending on the VESA® mounting system, choose the length of the screws so that the screw-in depth of the screws should be between 4mm (0.16") up to 7mm (0.28"). Using longer screws could damage the internal components of the CID1000P.</p> <p>For VESA® mounting details, please observe the Fig. 8 and Fig. 22. For horizontal operating position please observe the recommended angle as shown in Fig. 7.</p>
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Connecting

5.1 General connection information

 CAUTION
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All information and warnings related to this product must be observed to ensure danger-free operation.
--

CAUTION

Observe shielding measures

The shielding measures described in the applicable national EMC guideline must be observed. If these guidelines are not observed, malfunctioning of the display may result.

Observe the grounding measures

To ensure that the permissible leakage current is not exceeded in the case of a fault, you must additionally ground the monitor with a separate ground line.
--

Information on cable installation
--

- | |
|---|
| <ul style="list-style-type: none">• Only shielded cables are permitted for all signal connections.• If the relevant facility is available on the connector, all plug connections must be screwed tight or locked.• If signal and power supply cables are routed next to one another, reversible pixel errors may occur if there is high interference on the power supply network.• The display must not share a power supply with motors or valves (interference!).• Externally connected cables can represent a trip hazard. Make sure that all incoming cables are safely routed.• Cable grips are provided in the device. Use these to secure the cables against unintentional loosening. |
|---|

5.2 Connector panel

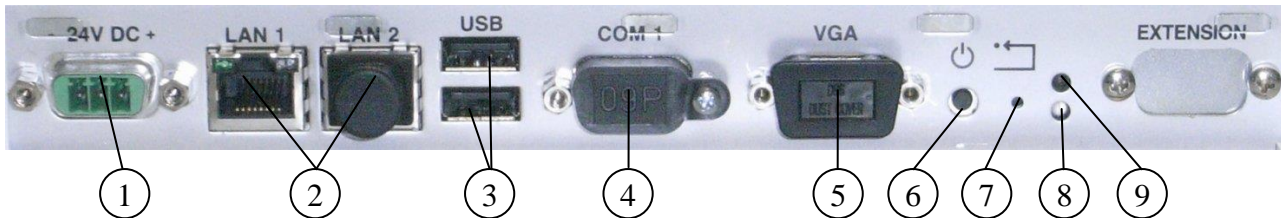


Fig. 9: Detail of the bottom side with interfaces

- | | |
|-----------------------------------|----------------|
| 1 DC power connector (24VDC) | 6 Power button |
| 2 2x Ethernet interface connector | 7 Reset Button |
| 3 2x USB (2.0) connector | 8 HDD-LED |
| 4 Serial port connector (RS232) | 9 Power LED |
| 5 VGA connector | |



The device is delivered with mounted covers to the LAN2, COM1 and VGA port. Do not remove these covers.

5.2.1 DC In power connector

The DC In power connector (refer to Fig. 9, pos. 2 and Fig. 10) provides the power connection of the CID1000P to the main power source via the AC/DC adapter. For the pin assignment refer to the section 10.3.1 "Power Connector".



Fig. 10: DC Power connector on the bottom (rear) side of the CID1000P

5.2.2 Reset button


To restart the device, e.g. after a system hang-up, press the RESET button (Fig. 9, pos.8).



During a reset all data in the main memory will be erased.

5.2.3 Power button on the interface side

The power button (Fig. 9, pos. 7) allows to power ON/OFF the device. Please observe the description in the section 9 “System self-protection against ambient overheating”. The power button is deactivated as long as the protection against overheating function is active.

	<p>Even when the device is turned off via the power button there is still a standby-voltage of 5 V on the SBC. The device is not completely disconnected from the main power supply by turning off via the power button.</p> <p>Hints for AC power connection via the external AC/DC adapter:</p> <p>If the CID1000P is connected to an AC power source via the AC/DC adapter, the main power cable of the external AC/DC adapter serves as disconnecting device. For this reason the outlet of the AC power source must be located near to the device and be easily accessible.</p>
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5.2.4 Power LED on the interface side and error codes

The power LED (Fig. 9, pos. 10) indicates the current device power state as shown in the Fig. 19.

5.2.5 Storage drive activity LED

Refer to (Fig. 9, pos. 9) for the storage drive activity LED location.

Power state of the device	Storage drive/s activity on the device	Color of the storage drive activity LED
ON	CF card	green
	no activity on storage drive of the device	off

5.2.6 Ethernet interface connectors

These interface connectors (refer to Fig. 9, pos.3) are provided as RJ45 sockets with integrated LEDs and supports a 10/100/1000 Mbps data transfer rate.

The device is delivered with mounted cover to the LAN2 port (see Fig. 9). Do not remove this cover.

Ethernet LED States:

Left LED state	Link activity state	Right LED state	Link speed
off	Link not active	Off	10 Base-T
green	Link active	green	100 Base-T
green	Link active	orange	1000 base-T

5.2.7 USB interface connectors

The device is equipped at the bottom side (rear) with two USB 2.0 interface connectors (refer to Fig. 9, pos. 4). These connectors provide connections for USB-compatible devices.

5.2.8 Serial interface connector

This RS232 connection is available as 9-pin D-SUB connectors (male) and provides connection (RS232) for serial devices. The CID1000P is delivered with an ESD protection cover (Fig. 11) mounted to this serial interface in order to ensure the ESD protection if no serial device is connected to this port.



Fig. 11: ESD protection cover for the male serial port

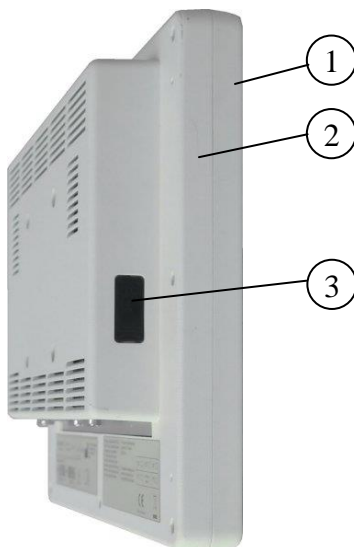


The ESD protection cover (Fig. 11) should be removed only when a serial device will be connected to the serial port.

5.2.9 VGA interface connector

An external (analog) monitor can be plugged into this interface (refer to Fig. 9, pos. 6) which is provided as a 15-pin D-SUB socket. The CID1000P is delivered with mounted dust cover to the VGA port. Do not remove this cover.

5.2.10 USB interface connector



- 1 Front part of the device
- 2 Rear part of the device
- 3 Covered USB port

Fig. 12: Left side of CID1000P

The USB connector (Fig. 12, pos. 3) is covered by an elastic captive rubber coat. The rubber coat prevents the penetration of fluid, if no device is connected. This connector USB 2.0 allows you to connect different USB-compatible devices to the CID1000P.



The CID1000P only complies with IP21 protection class if the left side USB connector is covered by the elastic captive rubber coat. At the front display side the CID1000P complies with IP65 protection class.

5.3 Rear view

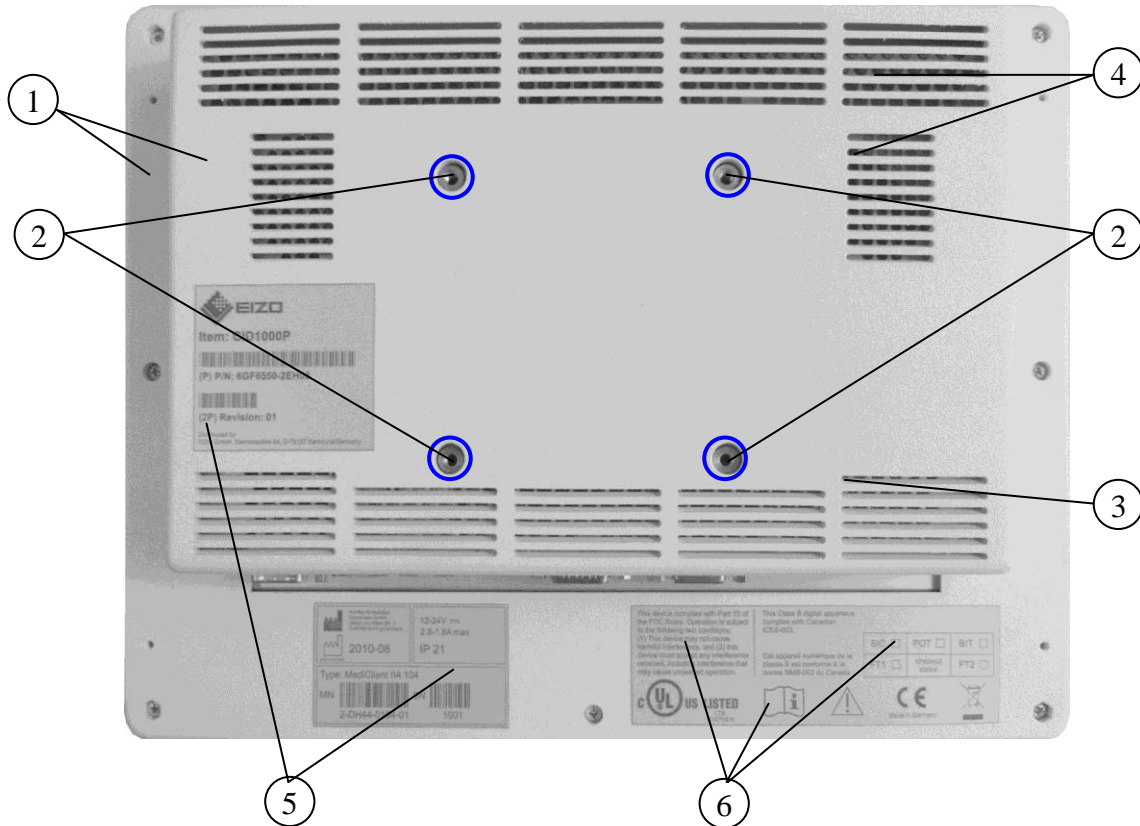



Fig. 13: Rear side of the CID1000P

- 1 Rear part of the device
- 2 4x threaded holes (marked blue in the picture) for mounting on VESA® 75 compliant mounting system
- 3 Air intake openings
- 4 Air exhaust openings
- 5 Type label of the device
- 6 FCC verification label, label for medical devices and inspection status label

Commissioning

6.1 Switching on the device

-  • Before using your CID1000P, you should first become familiar with the device, components and check that everything is connected properly.
- It is recommended that the last cable attached to the device should be the power cable.

CID1000P can be connected to the AC power source via the AC/DC adapter (refer to Fig. 14 and Fig. 15). Only EIZO tested supplies are approved for usage.

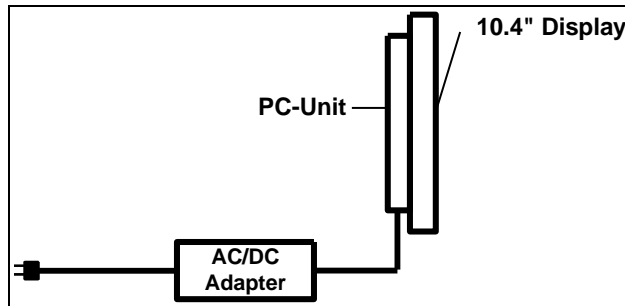


Fig. 14: Connecting to AC power source via the AC/DC adapter

EU



Fig. 15: External AC/DC adapter for with AC power cord for Class II equipment (complying to the EU requirements)

AC/DC Adapter for Class II equipment	
AC Input	DC Output
100-240 V	24 VDC
1.5 -0.7A	2.5 A
47-60 Hz	

Follow these steps in order to connect CID1000P to an AC power source via the optional AC/DC adapter:



Attach the supplied AC power cable that corresponds to the requirements of the country where the device is used.
The AC/DC adapter must stand freely and may not be covered. Do not place the AC/DC adapter onto a heat-sensitive surface.
There must be at least 100 mm (approximately 4") free space around CID1000P and around the AC/DC adapter.

- Connect the 3-pin DC power connector of the AC/DC adapter to the appropriate DC power connector of CID1000P. The DC power connector of the device is on the rear bottom side. Make sure the connector is securely locked in place.
- Connect the AC power cord to the AC/DC adapter.
- Connect the LAN cable from Large Monitor Manager (LMM0801, LMM0802 or LMM56800) to the LAN1 connector of CID1000P.
- Plug the AC connector of the adapter into an AC wall outlet of the AC power source.
- CID1000P is switched on.

6.2 Front operator controls

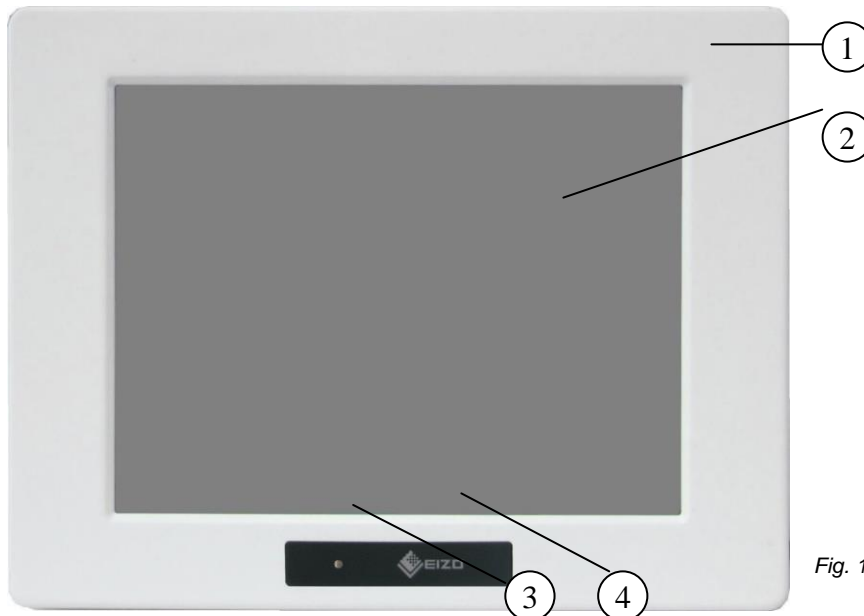


Fig. 16: Front view of the CID1000P

- 1 Front plate
- 2 10.4 "TFT display with touch screen
- 3 Power LED
- 4 Manufacturer LOGO

6.2.1 Power LED

The power LED indicates the power states of the device.

The device is connected to the power source	Power button (rear)	Power LED (front)	CID1000P status
CID1000P	Off	orange	The device is in "standby"
	On	green	The device is running.

Table 1: Power states



Even when the device is turned off via the power button there is still a standby-voltage of 5 V on the SBC board. The device is not completely disconnected from the main power source by turning off via the power button.

Hints for AC power connection via the external AC/DC adapter:

The main power cable of the external AC/DC adapter serves as disconnecting device. For this reason the outlet of the AC power source must be located close to the device and be easily accessible.

6.3 Display (10.4" touch screen)

The built-in display is a 10.4" size TFT display with corresponding resistive touch screen. The touch screen is USB connected. For technical specification of the built-in display refer to the chapter 10 "Technical specification".

The surface of the display is also mechanically protected through the touch screen. The touch screen registers contacts of a finger or a pen and allows moving the mouse pointer.



Do not use a hard or a pointed object (like screw drivers) to operate the touch screen, since it can damage the touch screen surface.
For cleaning and disinfection of the CID1000P please refer to chapter 8 "Service and Maintenance".

6.3.1 Calibrating the touch screen

Calibration serves two purposes:

- Sets the active area of the touch screen
- Aligns the active area of the touch screen to the screen's image.



Before you calibrate the touch screen, let the device warm up for 30 minutes.

Calibration aligns the active touch-sensitive area of the touch screen with the image on the display. Calibration also determines the edges of the screen's image and locates the center of the touch screen. If the touch screen is not calibrated properly, the active area of the touch screen may not be aligned with the screen's image or may be unnecessarily small in size. If necessary, in order to access the calibration routine, use an USB mouse.

The touch screen of your CID1000P is factory calibrated. Run the calibration routine when an alignment problem exists between the mouse pointer and the stylus contact location on the screen. You can adjust the touch screen calibration by:

- To open the touch screen calibration program press **<CTRL>+<ALT>+<c>** or use the menu item "TouchCalib". The following screen will appear:

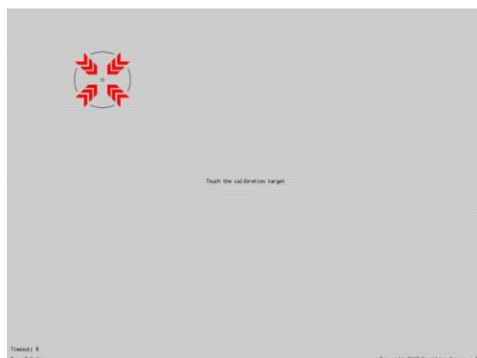


Fig. 17: touch calibration

- Touch the calibration markers on the screen.
- The program finishes automatically after the last input.

Operate

7.1 Operating system

CID1000P is delivered with an image of Linux Embedded operating system on the included CF-card. All drivers are installed in accordance with the system configuration. The device is fully functional when you turn it on for the first time.



The CID1000P is configured with a default home page of the browser, which is:
"file:/usr/local/display-manager-redirect/redirect.html? target= 169.254.213.44:8080".

For LAN1 the IP 169.254.213.11 and for LAN2 the IP 169.254.213.12 are preconfigured on CID1000P.

You can check this by using the shortcut **<Esc><Ctrl><t>** and then enter **ip addr**. Following window should appear:

```
bash-4.0# ip addr
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 16436 qdisc noqueue state UNKNOWN
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST> mtu 1500 qdisc pfifo_fast state DOWN qlen 1000
    link/ether 00:00:60:de:30:ee brd ff:ff:ff:ff:ff:ff
    inet 169.254.213.11/24 brd 169.254.213.255 scope global eth0
3: eth1: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP ql
en 1000
    link/ether 00:00:60:de:30:ef brd ff:ff:ff:ff:ff:ff
    inet 169.254.213.12/24 brd 169.254.213.255 scope global eth1
    inet6 fe80::200:60ff:fede:30ef/64 scope link
        valid_lft forever preferred_lft forever
bash-4.0#
```

eth0: LAN1 **eth1: LAN2**

Shall you change the IP address on the Large Monitor Manager (LMM), you have to reconfigure the home page of the CID1000P. Please see chapter "7.3 Change home page "

7.2 Operating with an Large Monitor Manager (LMM)

The CID1000P works together with the following Large Monitor Managers (LMMs):

- LMM56800
- LMM0801
- LMM0802
- LMM0804



LMM56800 exists in two different versions which can be distinguished by the order number. The old version has the order number 6GF6020-1AB00, the new version has the order number 6GF6020-1AB10.

The CID1000P is retrieving the layouts from the connected LMM. For doing this, CID1000P is connected to the server within a network.



Upon switch on, CID1000P will try to connect to the LMM.

If an error message will appear you have to change the home page on the CID1000P.
Follow the steps in the next chapter "7.3 Change home page".

If the error message does not disappear after 5 minutes, please check if the LAN cable is properly connected to the LAN1 connector of the CID1000P.

After the connection is established the browser (Firefox) will automatically start with the stored home page. Now you can see e. g. the layouts, which were configured before on the LMM.



Note that no special characters in the layout names may be used. Otherwise the layouts cannot be switched any longer with the CID1000P.

7.3 Change home page



If you change the IP addresses, please ensure that the new IP addresses of CID1000P and the Large Monitor Manager have the same network prefix and subnet number (for example **169.254.213.xxx**).

The CID1000P has already stored a default home page of the browser, which is only applicable for the old LMM56800. So for all other LMMs you have to change the home page. Please follow these steps:

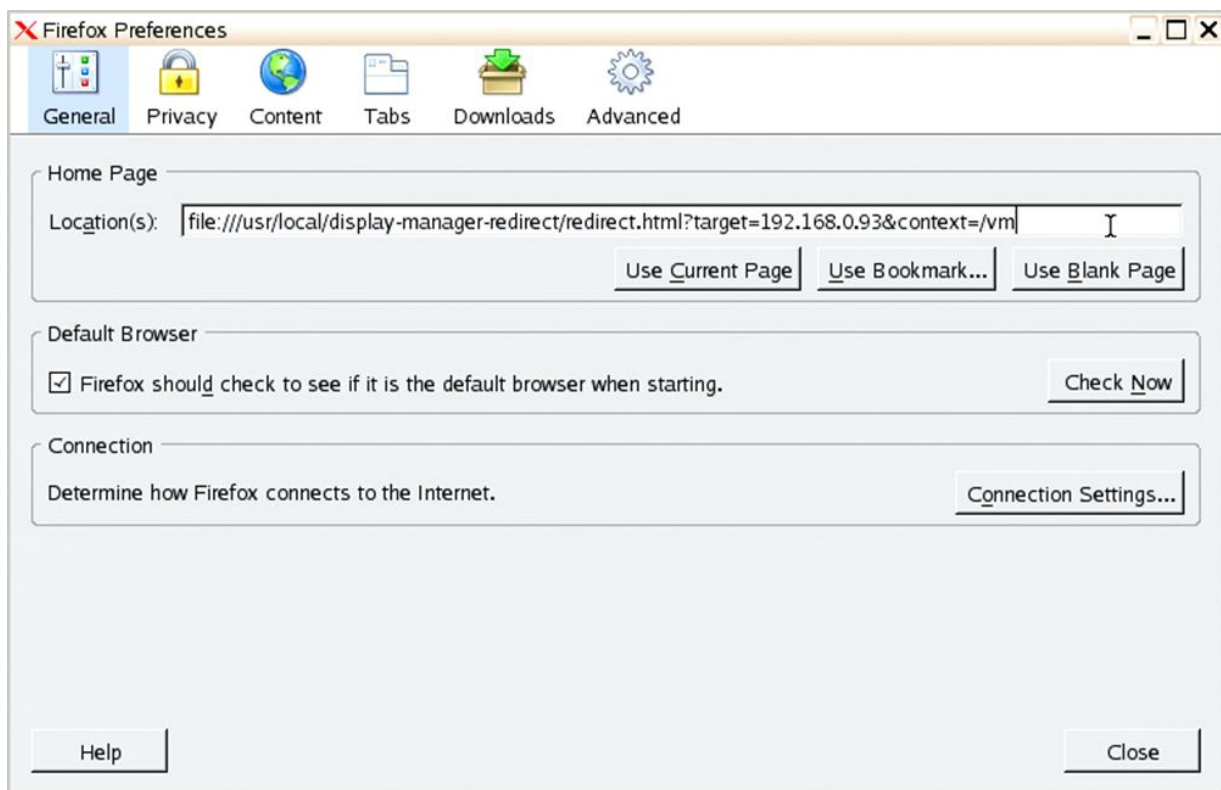


LMM0802 and LMM0804 can be operated via two different interfaces: the standard interface and the View Management. Both can be used to change layouts. The View Management additionally allows assigning instances.

1. Connect an USB-keyboard and USB-mouse to the CID1000P.
2. Press **<F11>** on the keyboard to get to the Firefox menu.
3. Open in Firefox "Edit -> Preferences -> General -> Home Page Location"
4. Depending on the LMM enter one of the following addresses:
NOTE: In the following addresses the default IP address for the LMM is used. If you have set up a new IP address for the LMM you must replace "169.254.213.xxx" by the new IP address.
 - **Old LMM56800:**
"file:///usr/local/display-manager-redirect/redirect.html?target=169.254.213.44:8080"
 - **New LMM56800 and LMM0801:**
"file:///usr/local/display-manager-redirect/redirect.html?target=169.254.213.44"
 - **LMM0802 and LMM0804 Standard Interface:**
"file:///usr/local/display-manager-redirect/redirect.html?target=169.254.213.144"
 - **LMM0802 and LMM0804 View Management:**
"file:///usr/local/display-manager-redirect/redirect.html?target=169.254.213.144&context=/vm"
5. Press "Close"
6. Press **<Esc><Ctrl>** on the keyboard.
7. Select "**BrowserPrefs**", then "**saveBrowserPrefs**".
8. Reboot the device.

The address for the home page should be changed now.

Example of a home page address



7.4 Change the static IP address on the CID1000P

The IP addresses for LAN1 and LAN2 are already preconfigured in the CID1000P. However, if you want to change them, please follow these steps:

1. Connect a USB-keyboard and USB-mouse to the CID1000P.
2. Press <Esc><Ctrl> on the keyboard.
3. Select "NetworkPrefs", then "SetupIP".



4. Confirm the first dialog question by pressing the "yes" button.



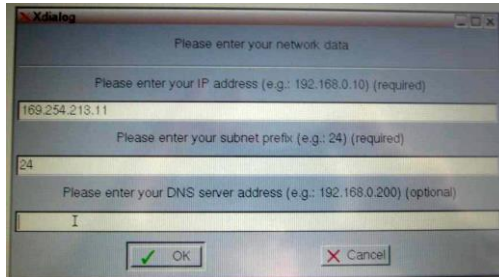
5. Then choose LAN1.



6. Now press the "static" button.



7. You get some dialog fields:
Enter you **IP address** (for example 169.254.213.11).
Enter the subnet mask 24.
DNS server is not needed.



8. Press "**no**" for gateway address.
9. Last follow the instructions.
10. Your static network address is set up now.
11. Reboot the device.


7.5 Internal storage device

The installed SBC is equipped with an on board CF-slot. The CID1000P is delivered with an internal (not accessible from the outside) CF card type I. An image with the operating system Linux embedded (read-only) is installed on this storage device. Therefore, the data integrity is guaranteed even in case of power loss.


Service and maintenance

8.1 Care and cleaning

Mild detergent and water is recommended for cleaning. Use of strong solvents, which could attack paint or plastic, should be avoided. The plastic surface of the CID1000P is subject to burning and scarring from direct heat sources such as cigarettes. The display front is sealed against dust, liquids, etc.

	<p>Use no abrasives, abrasion sponges, steel wool, metal threads, or solvent like alcohol, acetone, washing gasoline to clean the chassis or the touch screen surface of the CID1000P.</p> <p>Do not use hard or pointed objects, such as knife, pen or pencil tips, to operate the touch screen. Sharp objects can permanently damage the functionality of the touch screen.</p>
---	---

8.2 Disinfection

	<p>Disinfect CID1000P before operation with a surface disinfectant. Observe application time and concentration (according to the indications of the manufacturer of the disinfectant). The front side of the device can be spray disinfected.</p> <p>Use a cloth moistened with disinfectant to clean the rear parts of the device. Do not spray cleaning/disinfecting agent to the rear side of the CID1000P.</p> <p>Do not autoclave, immerse or rinse the CID1000P. Never immerse electrical contacts in water or other liquids.</p>
---	---

- Disconnect the CID1000P from any AC or DC power source before cleaning.
- Wipe the CID1000P with a clean cloth that has been moistened in the cleaning/disinfecting solution. The front side of the device can also be spray disinfected.
- Prepare agent per manufacturer's instructions or hospital protocol.
- Wipe thoroughly with a clean cloth.

8.2.1 Recommended surface-disinfectants:

Incidin® Extra (EAN No. 40005 16 802002)

Henkel Hygiene GmbH Düsseldorf, Postfach 130406, Germany

Telephone: 00 49 (2 11) 98 93 – 0, Emergency Number: 00 49 (2 11) 797 -3350

Cidex™ (Active Dialdehyd Solution)

Surgikos, Inc.; P.O. Box 130; Arlington, Texas 76010;

Tel.: ++800-433-5009

Manufacturer Information under:

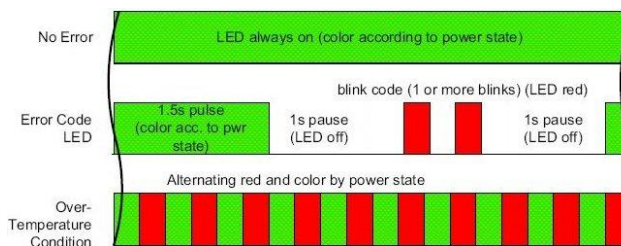
Johnson & Johnson Medical Inc. – Customer Service Tel.: ++800-423-5850

Troubleshooting

9.1 Error codes

The power LED (Fig. 9, pos. 10) indicates the current power state (S0, S3, S4, or S5) as shown in the Fig. 18. The power LED will blink red if an error condition was detected; refer to the Fig. 18 and Fig. 19. The blink code is independent from the power states LED color. The color red is reserved for error codes, only.

Power LED: Color code for current power state	
S0	S3 or S4 or S5
green	orange



State / Error	Priority (blinks)
OK	-
Voltage Error	1
Temp. Error	2
Battery Error	4

Fig. 18: Color code for current power state

Fig. 19: Example of eError codes

Fig. 20: Errors priority

An over-temperature condition has the highest of all priorities. Please observe the description the section 9.2 “System self-protection against ambient overheating”. The power button is deactivated as long as the temperature is too high.

To signalize this emergency state, the LED alternates between red and the current power state color.

Note: Higher priority codes will not interrupt a code which has started until the current blink code is completed.

9.2 System self-protection against ambient overheating

The CID 1000P is designed to be protected against ambient overheating. The integrated SBC (B649) provides a self-protection turn off function if the SBC's temperature sensors will measure a temperature level out of the limits (85°C).

During operation the device will be automatically turned off, if the ambient temperature reach a a temperature of 50°C and the internal temperature reaches the limit of 85°C (measured on the internal temperature sensor).

What happens after such a turn off?

The device should cool down until the internal measured temperature deseeds: 70°C.

The device turns on automatically and performs a system start as soon as the internal temperature decreases to 70 °C.

Please observe that as long as the internal temperature is too high:

- the color of the power LED (Fig. 9, pos. 10) on the bottom/rear side of the device alternates between red and the current power state color to signalize this emergency state (refer to the section 5.2.4 “Power LED on the interface side and error codes”).



Please observe that the power LED on the display side Fig. 16, pos. 3) does not indicate error codes if malfunction conditions of the system occur. As long as the internal temperature is too high the color of this LED (on the display side) stays permanent orange.

- the function of the power button (Fig. 9, pos. 7) is deactivated and
- the settings in BIOS Setup / Chipset Configuration / South Bridge Configuration / Restore on AC Power Loss with option settings: Power on (default)/ Power off) will also be ignored.



Attention!

In order to ensure a proper operation of the device, we recommend keeping the ambient temperature around an operating CID1000P within the specified intended use temperature range (0°C-40°C).

Technical specifications

CID1000P (Class II Equipment)	
TFT LCD Display	
Screen size, Active area (H x V) [mm]	10.4"; 211.2 x 158.4
Resolution	800 x 600 (SVGA)
Pixel Pitch	0.264mm x 0.264mm
Colour depth	262k
Backlight	1x CCFL
Brightness	230 cd/m2
Control signal	1x 6bit LVDS
Viewing angle (r / l / u / d)	70 / 70 / 55 / 65
Contrast ratio	500:1
Touch Screen	4 wire resistive analog
Single Board Computer with Intel® Atom™ Processor	<input checked="" type="checkbox"/>
Lithium Battery, 3.0 V for RTC, Type: CR2032, UL recognized	<input checked="" type="checkbox"/>
Power Button	<input checked="" type="checkbox"/>
Power LED	<input checked="" type="checkbox"/>
Reset Button	
Interfaces	
USB 2.0	3x
Ethernet (10/100/1000Mbps) (LAN1, LAN2) (LAN2 with mounted dust cover)	2x
VGA (with mounted dust cover)	1x
Serial Port RS232 (with mounted ESD protection cover)	1x
DC IN Power Connector (3-Pin Phoenix)	
Protection Class (front side) IP 65 according IEC 60529	<input checked="" type="checkbox"/>
Protection Class (device) IP 21 according IEC 60529	
CompactFlash™ Card Slot with Storage Media	1x CF Card (included)
BIOS	AMI
Operating System	Linux embedded (image stored on the CF card)
External AC/DC Adapter (Class II) equipment) with corresponding power cable for EU or for UK or for US	<input checked="" type="checkbox"/>

10.1 Electrical specifications

10.1.1 Electrical specifications for CID1000P

System Type	Product Designation	Input
Medi Client IIA	CID1000P	12-24 VDC 2.8-1.8 A max.

10.1.2 Electrical specifications for the AC/DC adapter

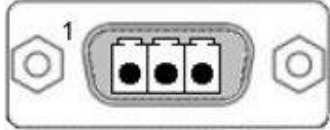
Optional Parts	AC Input	DC Output
AC/DC Adapter	100-240 V 1.5-0.7 A 47-63 Hz	24 VDC 2.5 A

10.2 Environmental specifications

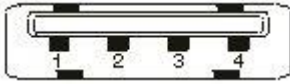
Thermal Management	Passive cooling (for CPU and device)
Operating Temperature / relative Humidity	0 ... +40 °C, 20-85% (non condensing) (32 ... 104 °F, 20-85% (non condensing))
Storage / Transit Temp. / relative Humidity	-20 ... +60 °C, 5-95% (non condensing) (-4 ... 140 °F, 5-95% (non condensing))
Operating Altitude Atmospheric Pressure (operating)	up to 3,000 m (10,000 ft) up to 1060 hPa
Storage / Transit Altitude	up to 4,622 m (15,000 ft)
Operating Shock	15 G, 11 ms duration, half-sinus
Storage / Transit Vibration	30 G, 11 ms duration, half-sinus
Operating Vibration	10-500 Hz; 1G
Storage / Transit Vibration	10-500 Hz; 2.0 G
Protection Class	IP21

10.3 Interfaces - pin assignments

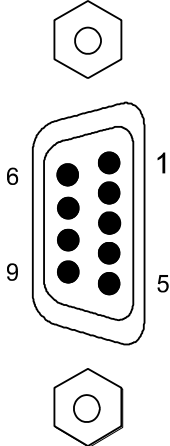
10.3.1 Power connector

Pin	Signal Name	3-pin POWER SUBCON (male)
1	0V input (-24 VDC polarity on the unit panel)	
2	NC	
3	+24 VDC (input)	

10.3.2 USB interfaces (USB)

Pin	Signal Name	4-pin USB Socket Type A Version 2.0/1.1
1	VCC	
2	Data-	
3	Data+	
4	GND	

10.3.3 Serial port RS232

Pin	Signal Name	9-pin D-SUB Plug (male)
1	DCD (Data Carrier Detect)	
2	RxD (Receive Data)	
3	TxD (Transmit Data)	
4	DTR (Data Terminal Ready)	
5	GND (Signal Ground)	
6	DSR (Data Set Ready)	
7	RTS (Request to Send)	
8	CTS (Clear to Send)	
9	RI (Ring Indicator)	

10.3.4 VGA port (VGA)

Pin	Signal Name	15-pin D-SUB Connector (female)
1	Analog red output	
2	Analog green output	
3	Analog blue output	
4	N.C.	
5-8	GND	
9	+5 V (DDC)	
10	GND	
11	N.C.	
12	SDA (DDC)	
13	TTL HSync	
14	TTL VSync	
15	SCL (DDC)	

10.4 CE directives and standards

CE Directives	
Low Voltage Directive (Electrical Safety)	2006/95/EC
EMC Directive	2004/108/EC
RoHS Directive	20011/65/EU

Electrical Safety	Standards
EUROPE	EN 60601-1 3rd Edition: 2006
USA / Canada	UL 60950-1:2006 cULus Listed
CB Scheme	CB Certification

EMC	Standards
EN 61000-3-2:2006	Limits - Limits for harmonic current emissions (equipment input current \leq 16 A per phase)
EN 61000-3-3:2006	Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current \leq 16 A per phase and not subjected to conditional connection
EN 61000-6-4: 2007 EN 55022: 2006 EN 61000-6-2: 2005 EN60601-1-2: 2007	Generic standards - Emission standard for industrial environments Emission of Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement Generic standards - Immunity for industrial environments (Immunity): Medical electrical equipment - General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests
U.S.A. Canada	FCC 47 CFR Part 15, Class B ICES-003

10.5 Instructions for the CMOS battery

The implemented SBC (Single Board Computer) is equipped with a Lithium battery. The Lithium battery should be replaced by the manufacturer only.

10.6 Electrostatic discharge (ESD)



A sudden discharge of electrostatic electricity can destroy static-sensitive devices or micro-circuitry. Proper packaging and grounding techniques are necessary prerequisites for avoiding damage. Always take the following precautions:

- Do not remove the dust and ESD protection covers Fig. 11 mounted to the LAN 2, VGA and COM1 interfaces of the CID1000P.
- Transport printed circuit boards in static-safe containers such as boxes or bags.
- Keep electrostatic sensitive parts in their containers until they arrive at a static-free station.
- Always be properly grounded when touching a sensitive PCB, component, or assembly.
- Store electrostatic-sensitive PCB's in protective packaging or on conductive foam.

10.6.1 Grounding methods

- Guard against electrostatic damage of the device by taking the following preventative steps:
- Cover workstations with approved anti-static material. Provide a wrist strap connected to a work surface and properly grounded tools and equipment.
- Use anti-static mats, heel straps, or air ionizers for added protection.
- Handle electrostatic-sensitive components, PCB's, and assemblies by the case or the edge of the board.
- Avoid contact with pins, leads, or circuitry.
- Turn off power and input signals before inserting and removing connectors or test equipment.
- Keep the work area free of non-conductive materials such as ordinary plastic assembly aids and Styrofoam.
- Use field service tools, such as cutters, screwdrivers, and vacuum cleaners that are conductive.
- Always lay drives and PCB's with the component-side down on the foam. Electromagnetic Compatibility (EN 60650-1)

10.7 Electromagnetic compatibility (EN 60650-1)

10.7.1 FCC statement (USA)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

10.7.2 EMC-compliance for Canada

(English): This Class B digital apparatus complies with the Canadian ICES-003.

(French) : Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

10.7.3 Electromagnetic compatibility for EU

This product has been designed for low level of radiated emission for residential, commercial and light-industrial environments and high immunity level for industrial environmental. This product complies with the European Council Directive on the approximation of the laws of the member states relating to electromagnetic compatibility (2004/108/EC).

If the user modifies and/or adds to the equipment (e.g. installation of add-on cards) the prerequisites for the CE conformity declaration (safety requirements) may no longer apply.

10.8 Electromagnetic compatibility (EN60601-1-2)

The separation distances are written with regard to the CID1000P. The numbers provided will not guarantee faultless operation but should provide reasonable assurance of such. This information may not be applicable to other medical electrical equipment, and older equipment may be particularly susceptible to interference.

General information

Medical electrical equipment needs special precautions regarding electromagnetic compatibility (EMC) and needs to be installed and put into service according to the EMC information provided in this document.

Portable and mobile RF communications equipment can affect medical electrical equipment.

Cables and accessories not specified within this document are not authorized. Using other cables and/or accessories may adversely impact safety, performance and electromagnetic compatibility (increased emission and decreased immunity).

Caution:

The CID1000P should not be used adjacent to or stacked with other equipment; if adjacent or stacked use is inevitable, the equipment should be observed to verify normal operation in the configuration in which it will be used.

Note

The CID1000P is intended for use in the electromagnetic environments specified below. The user of this equipment should assure that is used in such an environment.

Electromagnetic emissions		
CID1000P is intended for use in the electromagnetic environment specified below. The operator should assure that it is used in such an environment.		
Emissions	Compliance according to...	Electromagnetic environment
RF emissions (CISPR 11)	Group1	The CID1000P uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
CISPR Emissions Classification	Class B	The CID1000P is suitable for use in establishments including domestic establishments and those directly connected to the public low voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions (IEC 61000-3-2)	Class A	
Voltage fluctuations / flicker (IEC 61000-3-3)	Complies	

Table 2: Information regarding electromagnetic emissions (IEC 60101-1-2, table 201)

Electromagnetic immunity			
The CID1000P is intended for use in the electromagnetic environment specified below. The operator should assure that it is used in such an environment.			
Immunity against...	IEC 60601-1-2 test level	Compliance level (CID1000P)	Electromagnetic environment
electrostatic discharge, ESD (IEC 61000-4-2)	contact discharge: ± 6 kV air discharge: ± 8 kV	$\pm 2, 4, 8$ kV, except for the interfaces marked with the ESD symbol	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
electrical fast transients / bursts (IEC 61000-4-4)	power supply lines: ± 2 kV longer input / output lines: ± 1 kV	± 2 kV, ± 1 kV	Mains power quality should be that of a typical commercial or hospital environment.
surges on AC mains lines (IEC 61000-4-5)	Common mode: ± 2 kV differential mode: ± 1 kV	± 2 kV, ± 1 kV	Mains power quality should be that of a typical commercial or hospital environment.
power frequency magnetic field 50/60 Hz (IEC 61000-4-8)	3 A/m	30 A/m	If high levels of power frequency magnetic fields occur, the device maybe influenced, so therefore avoid device operating nearby AC-mains cable runway or cable bundle.
voltage dips and short interruptions on AC mains input lines (IEC 61000-4-11)	>95% Interruption for 10 ms 30% Dips for 500ms 60% Dips for 100ms >95% Interruption for 5000ms	according the test levels from IEC60601-1-2	

Table 3: Electromagnetic Immunity


Electromagnetic immunity			
The CID1000P is intended for use in the electromagnetic environment specified below. The customer or the user of the CID1000P should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level (CID1000P)	Electromagnetic environment - guidance
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz	[V ₁] V V ₁ =10V	Portable and mobile RF communications equipment should be used no closer to any part of the CID1000P, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance $d[m] = \left[\frac{3,5}{V_1} \right] \sqrt{P} = 0,35\sqrt{P}$
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2,5 GHz	[E ₁] V/m E ₁ =10V/m	80 MHz to 800 MHz: $d[m] = \left[\frac{3,5}{E_1} \right] \sqrt{P} = 0,35\sqrt{P}$ 800 MHz to 2,5 GHz: $d[m] = \left[\frac{7}{E_1} \right] \sqrt{P} = 0,35\sqrt{P}$ where P is the maximum output power rating of the transmitter in watts [W] according to the transmitter manufacturer and d is the recommended separation distance in meters [m]. Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, (a.) should be less than the compliance level in each frequency range. (b.) Interference may occur in the vicinity of equipment marked with the following symbol: 
<p>a. Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the CID1000P is used exceeds the applicable RF compliance level above, the CID1000P should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the CID1000P.</p> <p>b. Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 10 V/m.</p>			

Table 4: Guidance and manufacturer's declaration - Electromagnetic Immunity

Recommended separation distances between portable and mobile RF communications equipment and the CID1000P			
The CID1000P is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the CID1000P can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the CID1000P as recommended below, according to the maximum output power of the communications equipment.			
Rated maximum output power of transmitter [W]	Separation distance according to frequency of transmitter [m]		
	150 kHz to 80 MHz $d = \left[\frac{3,5}{10} \right] \sqrt{P}$	80 MHz to 800 MHz $d = \left[\frac{3,5}{10} \right] \sqrt{P}$	800 MHz to 2,5 GHz $d = \left[\frac{7}{10} \right] \sqrt{P}$
0,01	0,12	0,04	0,07
0,1	0,37	0,11	0,22
1	1,17	0,35	0,70
10	3,96	1,11	2,21
100	11,67	3,50	7,00

For transmitters rated at a maximum output power not listed above, the recommended separation distance **d** in metres [m] can be estimated using the equation applicable to the frequency of the transmitter, where **P** is the maximum output power rating of the transmitter in watts [W] according to the transmitter manufacturer.

NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

Table 5: Recommended separation distances between portable and mobile RF communications equipment and the CID1000P



Attention:

Use of mobile phones or other HF power transmitting devices nearby the CID1000P maybe influence the function and correct visualization of signals. Therefore please switch off any HF energy emitting devices or keep a distance of minimum 3 m (10 feet) to the CID1000P. Please observe the value included in the “Table 5”.

Caution:

This device works without deviation and the safe operation is ensured only, if the safety, the EMC and the ESD precautions contained in the “Instructions for Use” are observed by the user. Also the labels, stickers and markings on device itself shall be taken into consideration. Please observe the warnings and follow the instructions contained in this document or on the labels of the device.

Don't stack this device with other electronic devices. Interacting EMC influence may be happen.

	<p>CAUTION</p> <p>The device is not Defibrillation proved! Be careful, device maybe destroyed by disregarding of this hint.</p>
	<p>CAUTION</p> <p>Possible fire hazard, explosion or ignitions will be happen, when used this device in oxygen enriched atmosphere or mixtures of oxygen and flammable vapors, such as alcohol, ether, ethylene and cyclopropane. The device is not AP or APG classified!</p>

Safe networking with CID1000P

For a safe networking with electrical equipment, the user is responsible to ensure that the resulting device meets the requirements set forth by the following standards for medical equipment:

EN 60601-1 (IEC 60601-1)	Part 1: General requirements for safety
EN 60601-1-2 (IEC 60601-1-2)	Part 1-2: General requirements for safety Electromagnetic compatibility; Requirements and tests

Dimensional drawings

Dimension for	CID1000P
Height	226 mm (8.898")
Width	296 mm (11.563")
Depth (total)	58.5 mm (1.953")
Depth (without front plate)	30.5 mm (1.201")
Weight	2.2 kg (4.85 lbs)

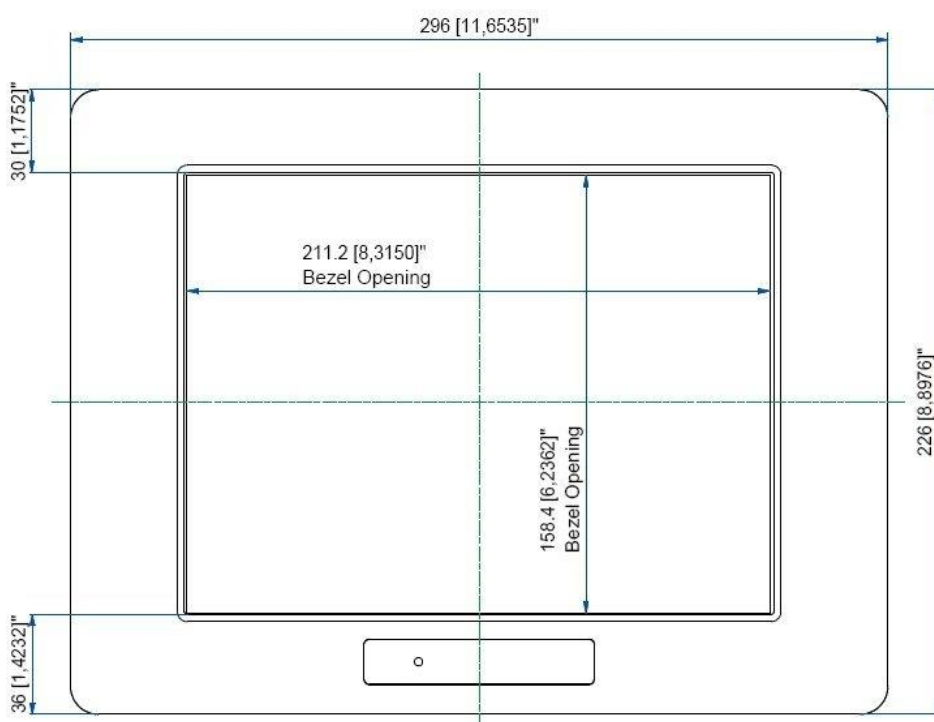


Fig. 21: Frontal view of the CID1000P

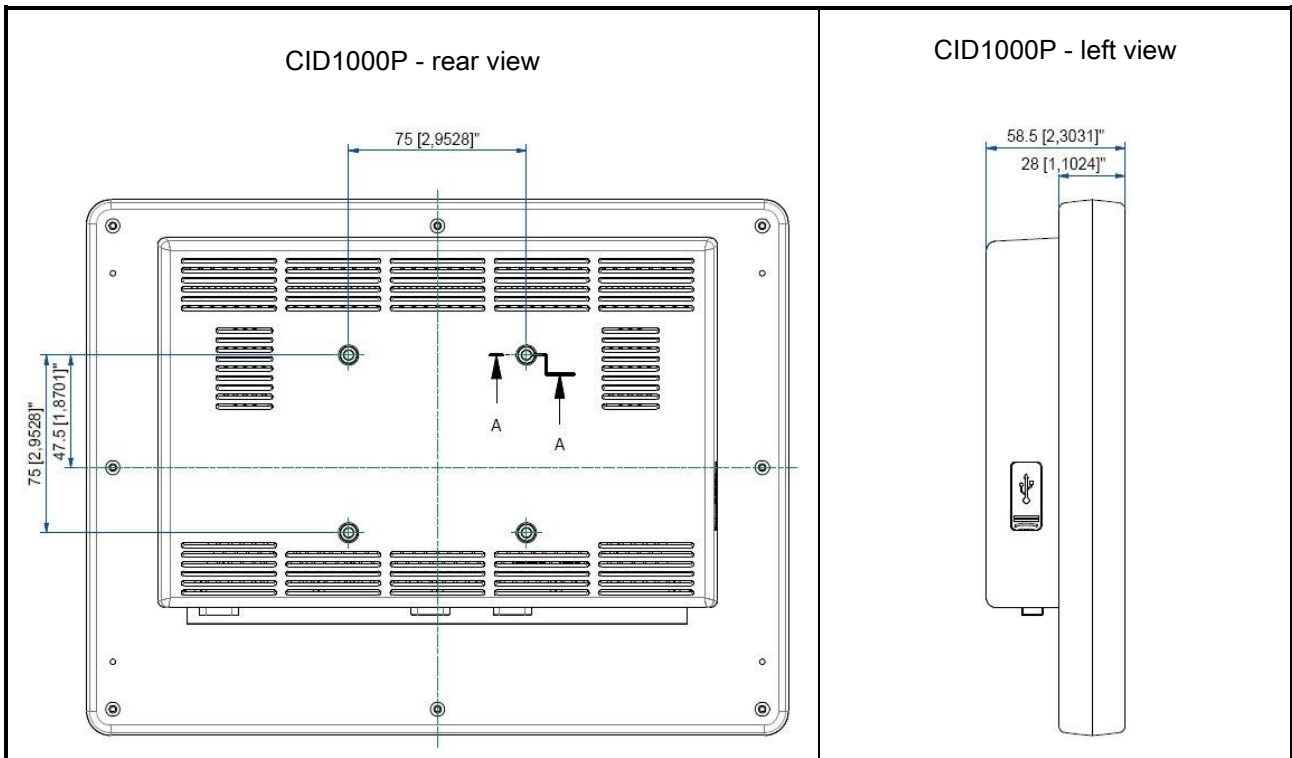


Fig. 22: Rear and left side view of the CID1000P

Appendix

A.1 Warranty

Opening of the housing, or electrical or mechanical changes on or in the device, result in cancellation of the warranty. For warranty details, please contact the sales partner from whom you purchased the product. These warranty conditions are neither extended nor limited by the contents of this user manual.

A.2 Repairs

Please contact the sales partner from whom you purchased the product.

A.3 Environmental protection

Please observe all local requirements and laws pertaining to the disposal of displays.

A.4 Accessory devices

Devices connected to the display (e.g. PC) must also comply with the relevant safety specifications.

A.5 Trademarks

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A.6 Contact

Support during installation and for technical questions

<http://www.eizo.com>

A.7 Manufacture information

EIZO is only a distributor of the CID1000P. It is manufactured by Kontron Embedded Computers. The manufacturer name for CID1000P is Medi Client IIA 104. You will find this name also on the name plate of the unit.



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