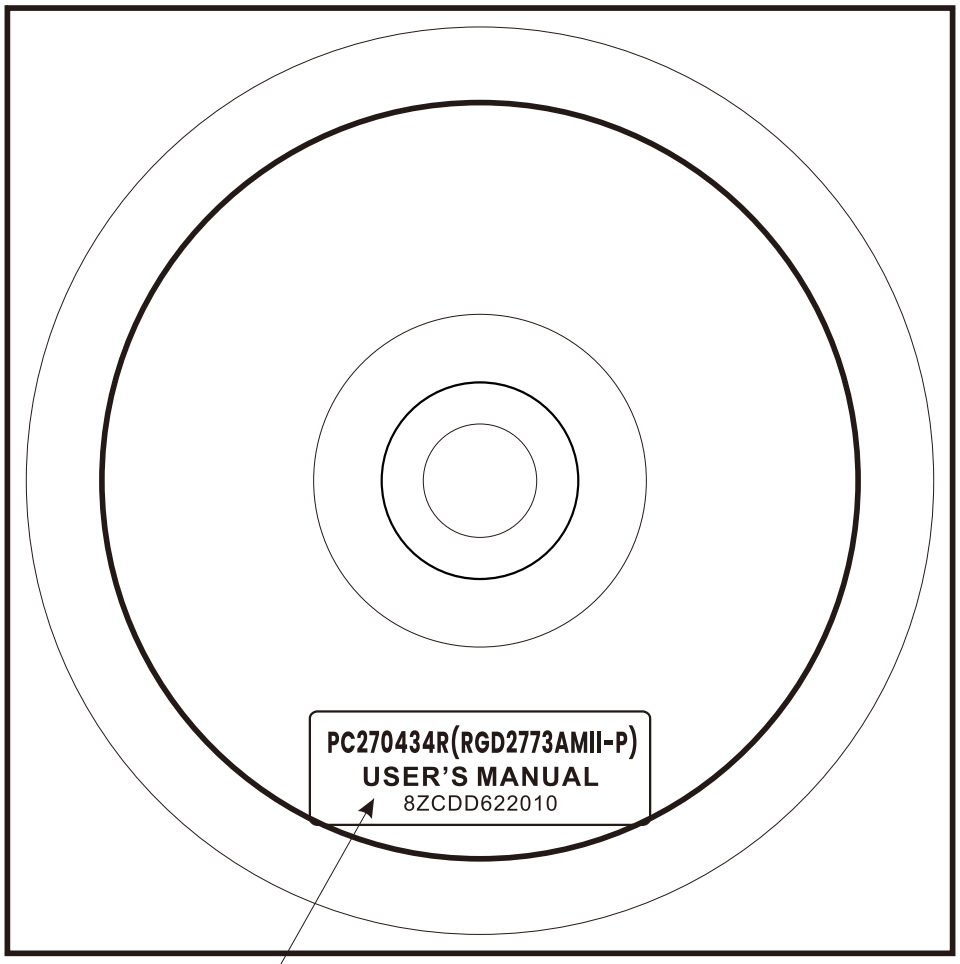


設計驗證
工程課
2025-01-14
發行

REV.	DATE	DESCRIPTION	BY	APVD



Label

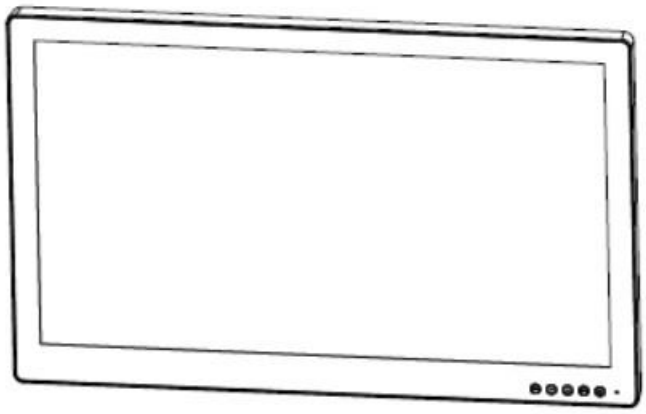
Note:
1. Use 3ZCDDLCK020 blank CD-ROM.
2. CD Files made in DIVA.
3. Use 3MDL4XLB580, Blank Label
   Use Ricoh #B110CR ribbon.
4. IQC inspection document: QWI-021

設計驗證
工程課
2025 -01- 14
發行
建碩科技開發股份有限公司

PM / SALES	PE/PCD	SAFETY
Morris Pan 2025/01/13	Kench 0113 1520 Joanne 0113 1815	0113 1400

THIRD ANGLE PROJECTION	UNITS: mm	SCALE: 1/1	SHEET: 1/1	MODEL NO.: PC270434R (RGD2773AMII-P)
	MATERIAL: SEE NOTES		TREATMENT: SEE NOTES	
DSGD by Killy	2024/10/25	PART NAME: CD MANUAL		
APVD by	2025/01/14	PART NO.: 8ZCDD622010		VER.0
APVD NO.: (Z0542)	FILE NAME: PC270434R(RGD2773AMII-P) _CD Manual _8ZCDD622010.cdr	DIVA Laboratories, Ltd.		

MEDICAL GRADE DISPLAY



User Guide

27” LCD Monitor

Model: RGD2773AMII-P

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1. Revision History

The revision letter changes with related comments each time the document is updated.

Revision	Comment
A	Initial release of this document

2. Introduction

2.1 Monitor description

The equipment is applied for healthcare that is intended for general use in hospital environment for data collection and display for reference. It shall not be used with life support system or for medical diagnosis. It may provide simple image review software functionality for medical image processing and manipulation, such as grayscale window and level, zoom and pan, user delineated geometric measurements, compression, or user added image annotations. The device does not perform advanced image processing or complex quantitative functions. This does not include electronic transfer of medical image software functions.

Intended Use
This monitor is only used to display and review medical digital images and can be used as a part of the medical system for diagnosis. Complete diagnostic capabilities are provided by the medical system.

Type of equipment: Portable (on a table)
Intended location: Medical environment

Intended User Profile
Classification:

Age:	Adult (Age specify range 21~70)
Gender:	Can be use by all genders
Linguistic/ Cultural Background:	At least English
Education/ Professional Competence:	General level of education
Intended User Group:	Hospital staff
Knowledge Base:	User should possess basic medical knowledge
Type of equipment:	Portable (on a table)
Mode of operation:	Continuous Operation
Intended location:	Medical environment
Parts of the device:	No Applied parts
Product Lifetime:	5 years
Unsuitable environment:	The equipment not suitable for use in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide; Not AP or APG Category.
Ingress Protection:	Front side: IPx1 Back side: IPx0
Electrical Safety:	Class I, IEC/EN 60601-1; IEC/EN60601-1-2; ANSI/AAMI ES60601-1 AND CAN/CSA-C22.2 NO. 60601-1

2.2 Box of contents

- 27” LCD Monitor
- User Guide
- Power Adapter (24V)
- AC Cord
- DC Extension Cord

NOTE

- The accessories of the LCD monitor include relevant items mentioned in the user’s manual only but do not include graphic cards.

  Remember to save your original box and packing material to transport or ship the display.

2.3 Product overview

Front View

The image below shows the front view of the display.

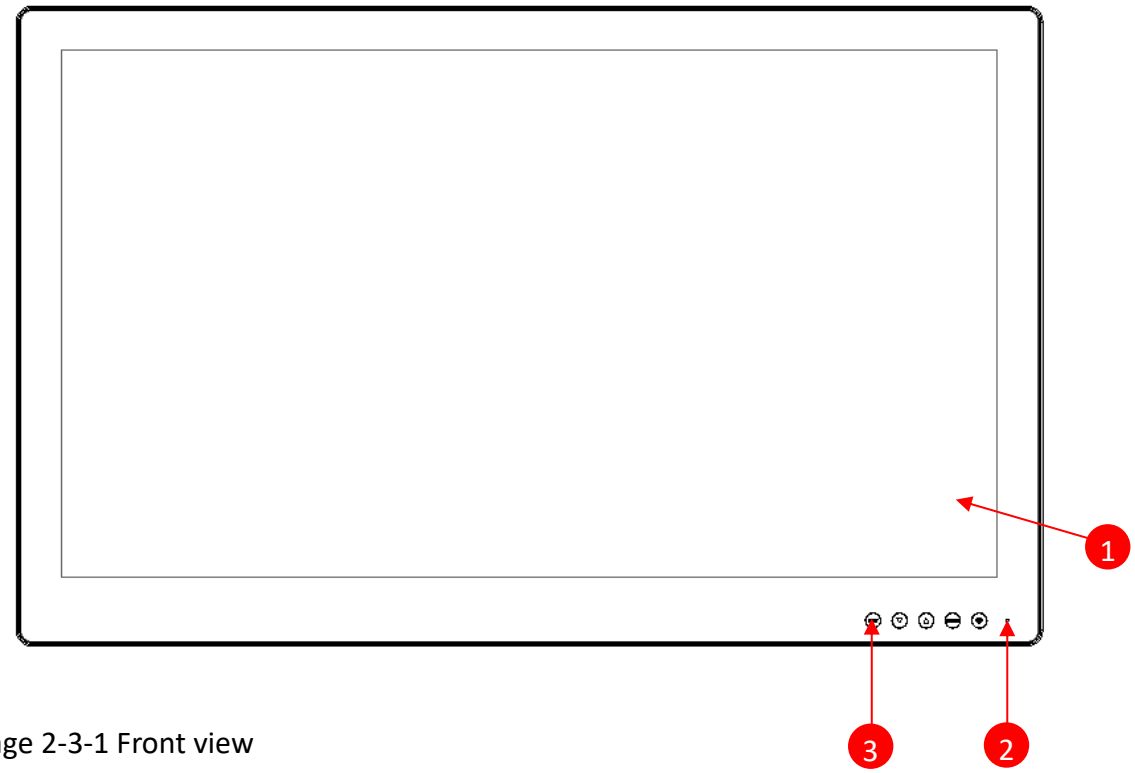


Image 2-3-1 Front view

1. P-CAP touch / GLASS
2. LED

Image 2-3-2 Control Touch Key

3. Power/ Menu / Upward / Downward / Exit key

Rear View

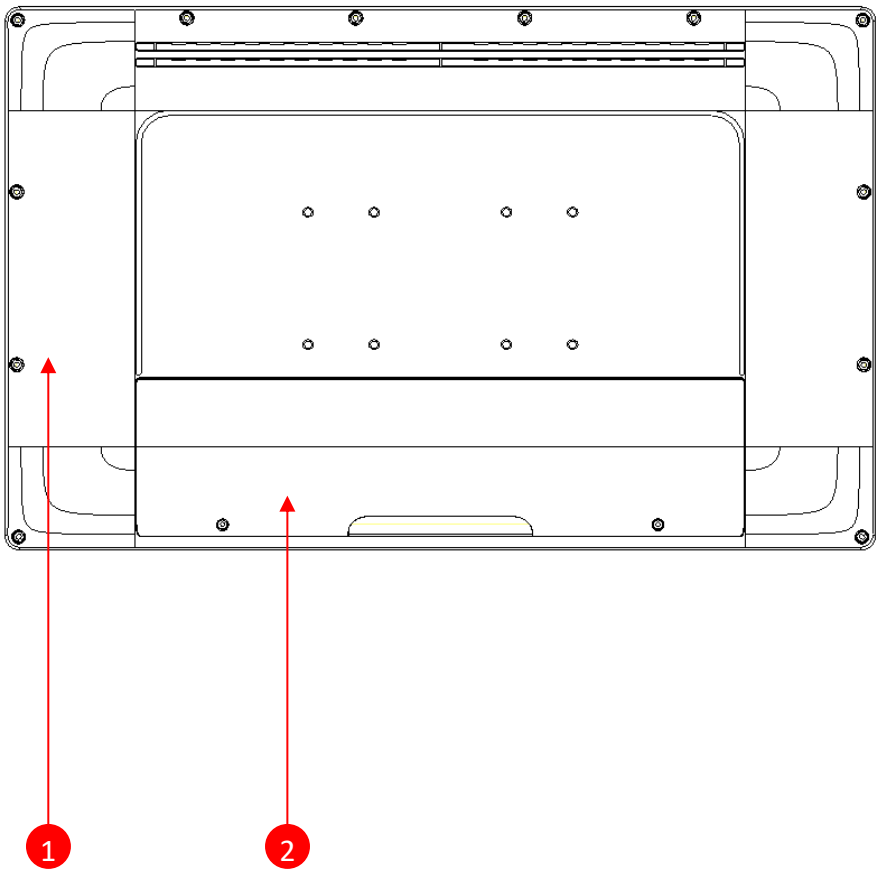


Image 2-3-3 Rear view

1. Rear cover
2. IO cover

3. Important information

3.1 Safety information

General recommendations

Read the safety and operating instructions before operating the device. Save the safety and operating instructions for future reference.Adhere to all warnings on the device and in the operating instructions manual. Follow all instructions for operation and use.

Electrical Shock or Fire Hazard

To prevent an electrical shock or fire hazard, do not remove the cover.

No serviceable parts are inside. Refer servicing to qualified personnel. Do not expose this apparatus to rain or moisture.

Modifications to the unit:

Do not modify this equipment without authorization of the manufacturer.

Degree of safety (flammable anesthetic mixture):

Equipment is not suitable for use in the presence of a flammable anesthetic mixture of air, oxygen, or nitrous oxide.

Non-patient care equipment

- Equipment primarily for use in a health care facility. It is intended for use when contact with a patient is unlikely (no applied part).
- The equipment may not be used with life support equipment.
- The user should not touch the equipment, nor its signal input ports (SIP) /signal output ports (SOP) and the patient at the same time.

Mission critical applications

We strongly recommend for there to be a replacement monitor immediately available in mission critical applications.

Power connection – Equipment with external power supply

- This equipment must be grounded.
- Power requirements: The equipment must be powered by the DC mains voltage.
- The equipment is intended for continuous operation.

Contraindications

The monitor shall not be used for a life-support system.
The monitor shall not be used in digital mammography.
The monitor shall not be used for diagnostic purpose.
This monitor is not intended to be used for direct diagnosis and therapeutic interventional radiology.

Power cords:

- For ME EQUIPMENT provided with NEMA configuration non-locking plug types 120V/ 15 A, 125V/ 15A, 250V/ 20A, maximum 3 m long, "Hospital Grade" mains plug shall be provided and the POWER SUPPLY CORD shall be marked.
- Do not overload wall outlets and extension cords as this may result in fire or electric shock.
- Main leads protection (U.S.: Power cord): Power cords should be routed so that they are not walked upon or pinched by items placed upon or against them. Pay particular attention to cords at plugs and receptacles.
- The power supply cord should be replaced by the designated operator only at all time.
- Use a power cord that matches the voltage of the power outlet, which should be approved and in compliance with the safety standard of your particular country.
- Avoid placing the monitor near places that is hard to reach or difficult to disconnect the power supply cord.

Grounding reliability

Grounding reliability can only be achieved when the equipment is connected to an equivalent receptacle.

Liquids and moisture

Never expose the monitor to liquids or moisture.

Never use the monitor near water - e.g. near a bathtub, washbasin, swimming pool, kitchen sink, laundry tub or in a wet basement.

Ventilation

Do not cover or block any ventilation openings in the cover of the set. When installing the device in a cupboard or another closed location, heed the necessary space between the set and the sides of the cupboard.

Installation

Place the device on a flat, solid, and stable surface that can support the weight of at least 3 devices. If you use an unstable cart or stand, the device may fall, causing serious injury to a child or adult, and serious damage to the device.

Accessory equipment connected to the analog and digital interfaces must be in compliance with the respective nationally harmonized IEC standards (i.e. IEC/EN 60601-1 for medical equipment.) Furthermore all configurations shall comply with the system standard in IEC/EN 60601-1. Anyone who connects additional equipment to the signal input part or signal output part is configuring a medical system, and is therefore, responsible that the system complies with the requirements of the system standard IEC/EN 60601-1. The unit is for exclusive interconnection with IEC/EN 60601-1 certified equipment in the patient environment and IEC 60XXX certified equipment outside of the patient environment.

Ergonomics

- Position your monitor no closer than 40 cm and no further away than 70 cm from your eyes.

The optimal distance is 50cm.

- Use the preset Color Setting. Do not use primary color blue on a dark background, as it is difficult to see and may produce eye fatigue to insufficient contrast.
- Adjust the monitor height so that the top of the screen is at or slightly below eye level. Your eyes should look slightly downward when viewing the middle of the screen.

3.2 Precautions

- Make sure to carefully read the User Manual prior to using the monitor in order to properly use the monitor.
- Note that, excluding those cases where a responsibility for legal compensation is recognized, the manufacturer shall bear absolutely no responsibility for damage to this product by a customer or a third party that results from the ignoring of contents entered in this User Manual and mistaken use.
- Place the monitor on a flat and leveled surface.
- Place the monitor in a well-ventilated place.
- Keep the monitor away from:
- overly hot, cold or humid places, places directly under sunlight, dusty surroundings,
- Equipment that generate strong magnetic fields.
- The display mounting direction is landscape only.

CAUTION and Warning:

1. The unit is for exclusive interconnection with IEC 60XXX certified equipment outside of patient environment and IEC 60601-1 certified equipment inside the patient environment.
2. This device complies with EN60601-1-2, To minimize the interference from other equipment, a minimum 0.5 m distance shall be kept form other potential electromagnetic sources, such as the Cell Phone.
3. The power cable connector is the primary means of detaching the system from the power supply. The monitor should be installed close to a power outlet, which is easily accessible.
4. Handle with care when transporting. Save packaging for transporting.
5. AC power inlet is considered as Disconnect Device.
6. To prevent fire or shock hazards, do not expose this unit to rain or moisture. Also, do not use this unit's polarized plug with an extension cord receptacle or other outlets unless the prongs can be fully inserted.
7. Do not modify this equipment without authorization of the manufacturer.
8. To prevent the risk of electric shock, make sure power cord is fully disengage the power to the unit. Please disconnect the power cord from the AC outlet.
9. To prevent electric shock, please do not remove cover or any internal components. Refer to a qualified technician for service.
10. This device is intended to be used (1) outside the "patient vicinity" area or (2) within the "patient vicinity" to the patient such as consulting rooms.
11. To avoid risk of electric shock, this equipment must only be connected to a supply mains with protective earth.
12. The LCD monitor become heat when it's working, please do not touch the panel and plastic enclosure over 10 seconds, and do not touch the mental enclosure on the back of the LCD monitor over 1 second.
13. For safety reasons, turn-off the power switch and unplug the monitor before cleaning.
14. Equipment with SIP/SOP connectors should either comply with IEC 60601-1 and/or IEC 60601-1-1 harmonized national standard or the combination should be evaluated.
15. Power cord shell be connected to a socket-out with earthing connection
16. The monitor series requires special precautions regarding EMC and need to be installed. You need to carefully read EMC Information and the "PRECAUTIONS" section in this document, and observe the following instructions when installing and operating the product.

17. The monitor series should not be used adjacent to or stacked with other equipment. If adjacent or stacked use is necessary, the equipment or system should be observed to verify normal operation in the configuration in which it will be used.
18. Anyone who connects additional equipment to the signal input part or signal output parts, configuring a Medical system, is responsible that the system complies with the requirements of IEC/EN60601-1-2.
19. Be sure to use the cables attached to the product, or cables specified by DIVA. Use of cables other than those specified or provided by DIVA of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and improper operation.
20. If this equipment is modified, appropriate inspection and testing must be conducted to ensure continued safe use of the equipment.
21. CAUTION: Double pole, neutral fusing. Disconnect mains before servicing.
22. No modification of this equipment is allowed

⚠ ATTENTION ET ⚠ AVERTISSEMENT

1. L'unité est destinée à une interconnexion exclusive avec des équipements certifiés IEC 60XXX en dehors de l'environnement du patient et des équipements certifiés IEC 60601-1 à l'intérieur de l'environnement du patient.
2. Cet appareil est conforme à la norme EN60601-1-2. Pour minimiser les interférences provenant d'autres équipements, une distance minimale de 0,5 m doit être maintenue par rapport à d'autres sources électromagnétiques potentielles, comme les téléphones cellulaires.
3. Le connecteur du cordon d'alimentation est le principal moyen de débrancher le système de l'alimentation électrique. Le moniteur doit être installé à proximité d'une prise de courant facilement accessible.
4. À manipuler avec précaution lors du transport. Conservez l'emballage pour le transport.
5. L'entrée d'alimentation CA est considérée comme un dispositif de déconnexion.
6. Pour éviter tout risque d'incendie ou de choc électrique, n'exposez pas cet appareil à la pluie ou à l'humidité. En outre, n'utilisez pas la fiche polarisée de cet appareil avec une prise de rallonge ou d'autres prises, à moins que les broches puissent être complètement insérées.
7. Ne pas modifier cet équipement sans l'autorisation du fabricant.
8. Pour éviter tout risque de choc électrique, assurez-vous que le cordon d'alimentation est débranché de la prise murale. Pour désactiver complètement l'alimentation de l'appareil, débranchez le cordon d'alimentation de la prise CA.
9. Pour éviter les chocs électriques, n'enlevez pas le couvercle ou des composants internes. Faites appel à un technicien qualifié pour l'entretien.
10. Ce dispositif est destiné à être utilisé (1) à l'extérieur de la zone « proximité du patient » ou (2) à l'intérieur de la zone « proximité du patient », par exemple dans les salles de consultation.
11. Pour éviter le risque de choc électrique, cet équipement doit être uniquement raccordé à un réseau d'alimentation avec protection par mise à la terre.
12. LCD L'écran LCD devient chaud lorsqu'il fonctionne, ne touchez pas le panneau et le boîtier en plastique pendant 10 secondes et ne touchez pas le boîtier mental à l'arrière du moniteur LCD pendant 1 seconde.
13. Pour des raisons de sécurité, éteignez l'interrupteur d'alimentation et débranchez le moniteur avant de le nettoyer.
14. Les équipements dotés de connecteurs SIP / SOP doivent être conformes à la norme nationale harmonisée CEI 60601-1 et / ou CEI 60601-1-1 ou la combinaison doit être évaluée.
15. Le connecteur du cordon d'alimentation est le principal moyen de débrancher le système de l'alimentation électrique. Le moniteur doit être installé à proximité d'une prise de courant facilement accessible.
16. La série de moniteurs nécessite des précautions particulières concernant EMC et doit être installée. Vous devez lire attentivement les informations EMC et la section « PRÉCAUTIONS » de ce document, et respecter les instructions suivantes lors de l'installation et de l'exploitation du produit.
17. La série de moniteurs ne doit pas être utilisée à côté ou empilée avec d'autres équipements. Si l'utilisation adjacente ou empilée est nécessaire, l'équipement ou le système doit être observé pour vérifier le

fonctionnement normal dans la configuration dans laquelle il sera utilisé.

18. Quiconque relie des équipements supplémentaires à la pièce d'entrée du signal ou aux pièces de sortie du signal, configurant un système médical, est responsable que le système soit conforme aux exigences de l'IEC/EN60601-1-2.
19. Assurez-vous d'utiliser les câbles fixés au produit, ou les câbles spécifiés par DIVA. L'utilisation de câbles autres que ceux spécifiés ou fournis par DIVA de cet équipement pourrait entraîner une augmentation des émissions électromagnétiques ou une diminution de l'immunité électromagnétique de cet équipement et un mauvais fonctionnement.
20. Si cet équipement est modifié, des inspections et des essais appropriés doivent être effectués afin d'assurer une utilisation sécuritaire continue de l'équipement.
21. ATTENTION : Double poteau, neutre futilisation. Débranchez les conduites avant l'entretien.
22, Aucune modification de cet équipement n'est autorisée

Notice for this monitor

- This product is not used in relation to nuclear, biological or chemical weapons, or missiles capable of delivering these weapons.
- This product has been adjusted specifically for use in the region to which it was originally shipped. If the product is used outside the region, it may not operate as specified in the specifications.
- This product may not be covered by warranty for uses other than those described in this manual.
- The specifications noted in this manual are only applicable for power cords and signal cables specified by us.
- As it takes about 30 minutes for the performance of electrical parts to stabilize, adjust the monitor 30 minutes or more after the monitor power has been turned on.
- In order to suppress the luminosity change by long-term use and to maintain stable luminosity, use of the monitor set to lower brightness is recommended.
- The screen may have defective pixels. These pixels may appear as slightly light or dark area on the screen.
- This is due to the characteristics of the panel itself, and not the product.
- The backlight of the LCD panel has a fixed life span. When the screen becomes dark or begins to flicker, please contact your dealer.
- Staring at the monitor for a long time tires your eyes. Take a 10-minute rest every hour.

- Maintenance/repair personnel – only by manufacturer trained and authorize technician.
- Make sure to carefully read the User Manual prior to using the monitor in order to properly use the monitor.
- Note that, excluding those cases where a responsibility for legal compensation is recognized, the manufacturer shall bear absolutely no responsibility for damage to this product by a customer or a third party that results from the ignoring of contents entered in this User Manual and mistaken use.
- Place the monitor on a flat and leveled surface.
- Place the monitor in a well-ventilated place.
- Keep the monitor away from:
- overly hot, cold or humid places, places directly under sunlight, dusty surroundings,
- Equipment that generate strong magnetic fields.
- The display mounting direction is landscape only.

3.3 Electromagnetic Compatibility Notice

- This product requires special EMC precautions and needs to be installed and used according to the following information.
- Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.
- Cable length: 3.0 m or less.
- Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.
- Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the LCD including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.
- Any additional equipment connected to this product needs to comply with the requirements of IEC60601-1-2:2014/EN60601-1-2:2015.

<table>
<tr><td colspan="3">Guidance and manufacturer’s declaration – electromagnetic emissions</td></tr>
<tr><td colspan="3">The monitor is intended for use in the electromagnetic environment specified below. The customer or the user of the monitor should assure that it is used in such an environment.</td></tr>
<tr><td>Emissions test</td><td>Compliance</td><td>Electromagnetic environment – Guidance</td></tr>
<tr><td>RF emissions
CISPR 11</td><td>Group 1</td><td>The monitor uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference with nearby electronic equipment.</td></tr>
<tr><td>RF emissions
CISPR 11</td><td>Class B</td><td rowspan="3">The monitor is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.</td></tr>
<tr><td>Harmonic emissions
IEC 61000-3-2</td><td>Class D</td></tr>
<tr><td>Voltage fluctuations/ flicker emissions
IEC 61000-3-3</td><td>Complies</td></tr>
</table>

Guidance and manufacturer's declaration – electromagnetic emissions			
The monitor is intended for use in the electromagnetic immunity environment (Home healthcare environment defined in IEC60601-1-2) specified below. The customer or the user of the monitor should assure that it is used in such an environment.			
Immunity test	**IEC 60601 Test levels**	**Compliance level**	**Electromagnetic environment – guidance**
Electrostatic discharge (ESD) IEC 61000-4-2	± 8kV contact ± 15kV air	± 8kV contact ± 15kV air	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 transient/burst IEC 61000-4-4	±2 kV for power supply lines 100 kHz ±1 kV for input/output lines 100 kHz	±2 kV for power supply lines 100 kHz	Mains power quality should be that of a typical commercial or hospital environment
Surge IEC61000-4-5	± 1 kV line(s) to line(s) ± 2 kV line(s) to earth	± 1 kV line(s) to line(s) ± 2 kV line(s) to earth	Mains power quality should be that of a typical commercial or hospital environment
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0 % UT(100 % dip in UT) 0.5 cycles and 1 cycle 70 % UT (30 % dip in UT) 25/30 cycles 0 % UT (100 % dip in UT) 250/300 cycles	0 % UT(100 % dip in UT) 0.5 cycles and 1 cycle 70 % UT (30 % dip in UT) 25/30 cycles 0 % UT (100 % dip in UT) 250/300 cycles	Mains power quality should be that of a typical commercial or hospital environment. If the user of the monitor requires continued operation during power mains interruptions, it is recommended that the monitor be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m 50Hz or 60Hz	30 A/m 50Hz or 60Hz	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

Guidance and manufacturer's declaration – electromagnetic emissions

The monitor is intended for use in the electromagnetic immunity environment (Home healthcare environment defined in IEC60601-1-2) specified below.
The customer or the user of the monitor should assure that it is used in such an environment.

Immunity test	IEC 60601 Test levels	Compliance level	Electromagnetic environment – guidance
	Proximity electromagnetic field from RF wireless communication equipment (Specified the table below)		Portable and mobile RF communications equipment should be used no closer to any part of the monitor, including cables, than the recommend separation distance calculated from the equation applicable to the frequency of the transmitter.
Conducted RF IEC 61000-4-6	3 V 0.15 MHz to 80 MHz 6V ISM bands and amateur radio between 150 kHz and 80 MHz 80% AM at 1kHz	3 V 0.15 MHz to 80 MHz 6V ISM bands and amateur radio between 150 kHz and 80 MHz 80% AM at 1kHz	**Recommended separation distance** **$d = 1.2\sqrt{P}$**
Radiated RF IEC 61000-4-3	10 V/m 80 MHz to 2.7 GHz	10 V/m 80 MHz to 2.7 GHz	**$d = 1.2\sqrt{P}$** 80 MHz to 800 MHz **$d = 2.3\sqrt{P}$** 800 MHz to 2.5 GHz 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 symbol: 

NOTE 1：UT is the a.c. mains voltage prior to application of the test level.
NOTE 2：At 80 MHz and 800 MHz, the higher frequency range applies.
NOTE 3：Guidelines regarding conducted disturbances induced by RF fields or radiated RF fields may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.
NOTE 4：The ISM (industrial, scientific and medical) bands between 0.15 MHz and 80 MHz are 6.765 MHz to 6.795 MHz; 13.553 MHz to 13.567 MHz; 26.957 MHz to 27.283 MHz; and 40.66 MHz to 40.70 MHz . The amateur radio bands between 0.15 MHz and 80 MHz are 1.8 MHz to 2.0 MHz, 3.5 MHz to 4.0 MHz, 5.3 MHz to 5.4 MHz, 7 MHz to 7.3 MHz, 10.1 MHz to 10.15 MHz, 14 MHz to 14.2 MHz, 18.07 MHz to 18.17 MHz, 21.0 MHz to 21.4 MHz, 24.89 MHz to 24.99 MHz, 28.0 MHz to 29.7 MHz and 50.0 MHz to 54.0 MHz.

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 monitor is used exceeds the applicable RF compliance level above, the monitor should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the monitor .

b. Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 10 V/m.

Recommended separation distances between portable and mobile RF communications equipment and the monitor

The monitor is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the monitor can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the monitor as recommended below, according to the maximum output power of the communications equipment.

Immunity to proximity fields from following RF wireless communication equipment has been confirmed:

Test frequency (MHz)	Bandwidth a) (MHz)	Service a)	Modulation b)	Maximum power (W)	Minimum separation distance (m)	IEC/EN60601 test level (V/m)	Compliance level (V/m)
385	380-390	TETRA400	Pulse modulation b)	1.8	0.3	27	27
450	430-470	GMRS 460, FRS 460	FM ±5 kHz deviation 1 kHz sine	2	0.3	28	28
710	704-787	LTE Band 13, 17	Pulse modulation b) 217 Hz	0.2	0.3	9	9
745							
780							
810	800-960	GSM 800 / 900, TETRA 800, iDEN 820 CDMA 850, LTE Band 5	Pulse modulation b) 18 Hz	2	0.3	28	28
871							
930							
1720	1700-1990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS	Pulse modulation b) 217 Hz	2	0.3	28	28
1845							
1970							
2450	2400-2570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation b) 217 Hz	2	0.3	28	28
5240	5100-5800	WLAN 802.11 a/n	Pulse modulation b) 217 Hz	0.2	0.3	9	9
5500							
5785							

- For some services, only the uplink frequencies are included.
- The carrier shall be modulated using a 50 % duty cycle square wave signal.

The monitor is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the monitor can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the monitor 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		
	150kHz to 80MHz **d=1.2√P**	**80MHz to 800MHz** **d=1.2√P**	**800MHz to 2.5GHz** **d=2.3√P**
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (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.

NOTE 3 The screen of EUT flickers during testing, but it is self-recoverable after test.

NOTE 4 The EUT was stopped operating during the test, but it is self-recoverable after test.

3.4 Environmental information

Disposal Information

Waste Electrical and Electronic Equipment

- Within the European Union



This symbol on the product indicates that under the European Directive 2012/19/EU, governing waste from electrical and electronic equipment, this product must not be disposed of with other municipal waste. Please dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

For more information about recycling of this product, please contact your local city office or your municipal waste disposal service.

ROHS

EU Directive 2011/65/EC; 2015/863/EU
On the restriction of certain hazardous substances in electrical and electronic equipment.
This product is RoHS compliant.

3.5 Regulatory information

FCC class B

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device 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 device 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 device does cause harmful interference to radio or television reception, which can be determined by turning the device 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 device and receiver.
- Connect the device to 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.

To assure continued FCC compliance, the user must use a grounded power supply cord and the provided shielded video interface cable with bonded ferrite cores. Also, any unauthorized changes or modifications to this monitor would void the user's authority to operate this device.

Canadian notice

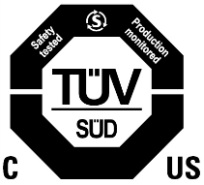
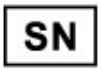
This ISM device complies with Canadian ICES-003.

Cet appareil ISM est conforme à la norme NMB-003 du Canada.

3.6 Equipment Symbols

Electrical and electronic equipment symbols

In addition to the equipment symbols described in your user's manual, the following symbols may be appear on the monitor.

LOGO	Description	
	Indicates the device meets the requirements of the applicable EC directives.	*Indique que l'appareil satisfait aux exigences des directives CE en vigueur.*
	Indicates compliance with Part 15 of the FCC rules.	*Indique la conformité à la partie 15 des règles de la FCC.*
	Indicates the device is approved according to the TUV regulations for Canada and US. *Authentication sign of Standard Inspection Bureau for U.S.A.Complies with cTÜVus (ANSI/AAMI ES60601-1, CAN/CSA C22.2 No.60601-1).*	*Indique que l'appareil est approuvé conformément à la réglementation TUV pour le Canada et les États-Unis. Signe d'authentification du Standard Inspection Bureau pour les États-Unis. Conforme à cTÜVus (ANSI/AAMI ES60601-1, CAN/CSA C22.2 No.60601-1).*
	ATTENTION: Consult accompanying documents.	*Attention : Consultez les documents accompagnés.*
	Indicates the manufacturing date.	*Indique la date de fabrication.*
	Indicates the legal manufacturer.	*Indique le fabricant légal.*
	Indicates this device must not be thrown in the trash but must be recycled, according to the European WEEE (Waste Electrical and Electronic Equipment) directive.	*Indique que cet appareil ne doit pas être jeté à la poubelle mais doit être recyclé, conformément à la directive européenne DEEE (déchets d'équipements électriques et électroniques).*
	DANGER - Shock Hazard. Dangerous voltage. To reduce the risk of electric shock, do not remove cover. Refer servicing to qualified service personnel.	*DANGER - Risque d'électrocution. Tension dangereuse. Pour réduire le risque d'électrocution, ne retirez pas le capot. Faites toujours appel à un personnel qualifié pour les réparations.*
	CAUTION : Consult accompanying documents.	*Attention : Consultez les documents accompagnés.*
	Indicates the device serial number.	*Indique le numéro de série de l'appareil.*

	Indicates the device part number or catalog number.	*Indique le numéro de référence de l'appareil ou le numéro de catalogue.*
	Indicates Direct Current (DC).	*Indique le courant continu (CC).*
	Indicates Alternating Current (AC).	*Indique le courant alternatif (CA).*
	Stand-by or power indicator.	*Indicateur de veille ou d'alimentation.*
	Power ON. Power connection to the mains.	*Allumer. Raccordement électrique au réseau.*
	Power OFF.	*Éteindre.*
	Protective earth (ground).	*Protection par mise à la terre (masse).*
	Equipotentiality. Connect device to a potential equalization conductor.	*Équipotentialité. Raccordez l'appareil à un conducteur de liaison équipotentielle.*
	USB connector port.	*Port de connexion USB.*
	Temperature limit (for Transport/Storage)	Limite de température (pour le transport / stockage)
	Storage humidity range(for Transport/Storage)	Plage d'humidité de stockage (pour le transport / stockage)
	Atmospheric Pressure(for Transport/Storage)	Pression atmosphérique (pour le transport / stockage)

When operating the Display with a 240V AC power source in Europe, use the power cord provided with the monitor. In the UK, a BS approved power cord with a molded plug has a Black (five Amps) fuse installed for use with this equipment. If a power cord is not supplied with this equipment please contact your supplier.

When operating the Display with a 240V AC power source in Australia, use the power cord provided with the monitor. If a power cord is not supplied with this equipment please contact your supplier.

For all other cases, use a power cord that matches the AC voltage of the power outlet and has been approved by and complies with the safety standard of your particular country.

4. Cleaning the display

4.1 Cleaning instructions

To Cleaning the Display

Cleaning the display using a sponge, cleaning cloth, or soft tissue with lightly moistened recognized cleaning product for medical equipment. Read and follow all labeled instructions on the cleaning product. In case of doubt about a certain cleaning product, use plain water.

- Isopropanol (IPA) 100%
- Ethanol 75%
- Chlorehexidine 0.5% in 70% Ethanol
- Artificial sweat (5% KCL, pH=3)

CAUTION:

- **Take care not to damage or scratch the front glass or LCD. Be careful with rings or other jewelry and do not apply excessive pressure on the front glass or LCD.**
- **Do not apply or spray liquid directly to the display as excess liquid may cause damage to internal electronics. Instead, apply the liquid to a cleaning sponge, cloth, or tissue.**

ATTENTION:

- **Veillez à ne pas endommager ou rayer la vitre avant ou l'écran LCD. Soyez prudent lorsque vous portez des bagues ou autres bijoux et n'appliquez pas une pression excessive sur le verre avant ou l'écran LCD.**
- **N'appliquez ou ne vaporisez pas de liquide directement sur l'écran car l'excès de liquide peut endommager l'électronique interne. Appliquez plutôt le liquide sur une éponge, un chiffon ou un mouchoir en papier.**

5. Monitor installation

WARNING: Sufficient expertise is required to install this equipment. All devices and complete setup must be tested before operation.

AVERTISSEMENT : Une expertise suffisante est requise pour l'installation de cet équipement. Tous les appareils et la configuration complète doivent être testés avant d'être mis en service.

5.1 Installation procedure

Available Connections

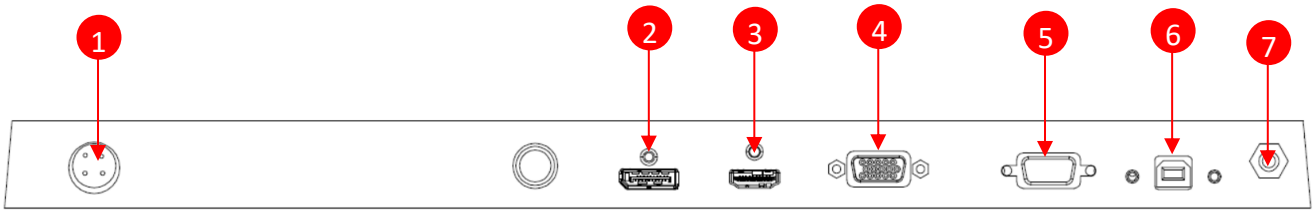


Image 5-1 Available connections (bottom view)

No	Name	Connection Type	Remarks
1	DC 24V IN	Power Din-4pin	DC 24V input
2	DP	DisplayPort	DisplayPort signal input
3	HDMI	HDMI	HDMI signal input
4	VGA	D-sub 15	VGA signal input
5	RS232	D-sub 9	Touch screen signal output
6	USB	USB type-B	Touch screen signal output
7	GND Post	Ground stud	Connect to the system to earth ground

NOTE

- The configuration of the connectors of the display may vary from product to product.

5.2 VESA mount installation

1. Attach the monitor in landscape position to a 200 mm VESA mounting bracket. Mounting in portrait position is not feasible. To be installed by skilled person only.

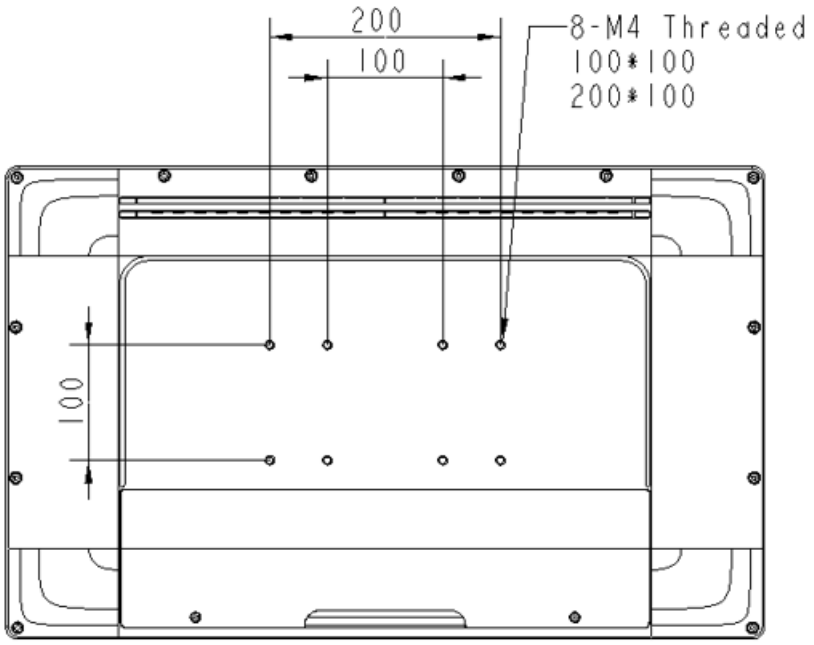


Image 5-2-1 VESA mount is located at the back of the monitor.

Mounting

The Monitor can be mounted onto the wall

If you intend to mount the monitor on the wall, we strongly recommend that you use wall mount kits with attached M4*10mm screws and can load more than monitor weight, that you ensure it is securely and safely installed.

CAUTION:

When mounting the monitor, take care to tighten the retention screws or bolts until fully secure,

but do not over tighten. Over tightening the retention screws or bolts may cause them to become stripped, rendering them useless.

ATTENTION

Lors du montage du moniteur, prenez soin de serrer les vis ou boulons de fixation jusqu'à ce qu'ils soient bien serrés, évitez toutefois de trop serrer. Le serrage exagéré des vis ou des boulons de fixation peut endommager leur filetage, les rendant inutiles.

Wall Mounting Installation

The Monitor has Video Electronics Standards Association (VESA 100x100 , 100X200) standard mounting holes

tapped into the rear panel. The standard holes are M4*4.

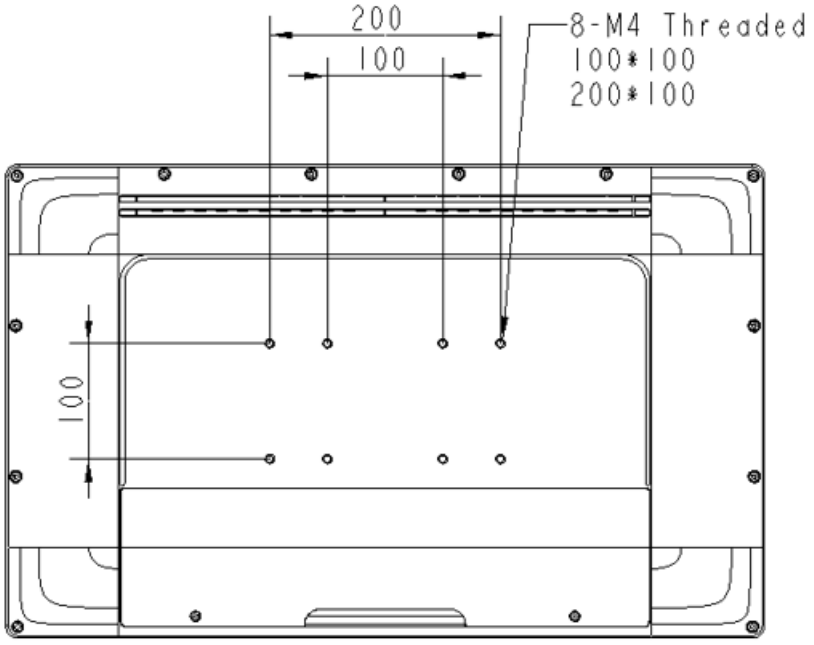


Image 5-2-2 VESA mount is located at the back of the monitor.

To mount the Monitor onto the wall please follow the steps below.

Step 1: Select the location on the wall for the wall-mounting bracket.(Listed VESA)

Step 2: Carefully mark the locations of the four screw holes in the bracket on the wall

Step 3: Drill four pilot holes at the marked locations on the wall for the bracket retention screws.

Step 4: Align the wall-mounting bracket screw holes with the pilot holes.

Step 5: Secure the mounting-bracket to the wall by inserting the retention screws into the four pilot holes and tightening them.

Step 6: Insert the four monitor mounting screws provided in the wall mounting kit into the four screw holes on the real panel of the LCD Monitor and tighten until the screw shank is secured against the rear panel.

Step 7: Align the mounting screws on the monitor rear panel with the mounting holes on the bracket.

Step 8: Carefully insert the screws through the holes and gently pull the monitor downwards until the monitor rests securely in the slotted holes. Ensure that all four of the mounting screws fit snuggly into their respective slotted holes.

Step 9: Secure the LCD Monitor by fastening the retention screw of the wall-mounting bracket.

Caution, Stability Hazard

● The Monitor may fall, causing serious personal injury or death. To prevent injury, this Monitor must be securely attached to the wall in accordance with the installation instructions.

Attention, risque de stabilité

● Le moniteur pourrait tomber et causer des blessures graves, voire mortelles. Pour éviter les blessures, ce moniteur doit être solidement fixé au mur conformément aux instructions d'installation.

6. Daily Operation

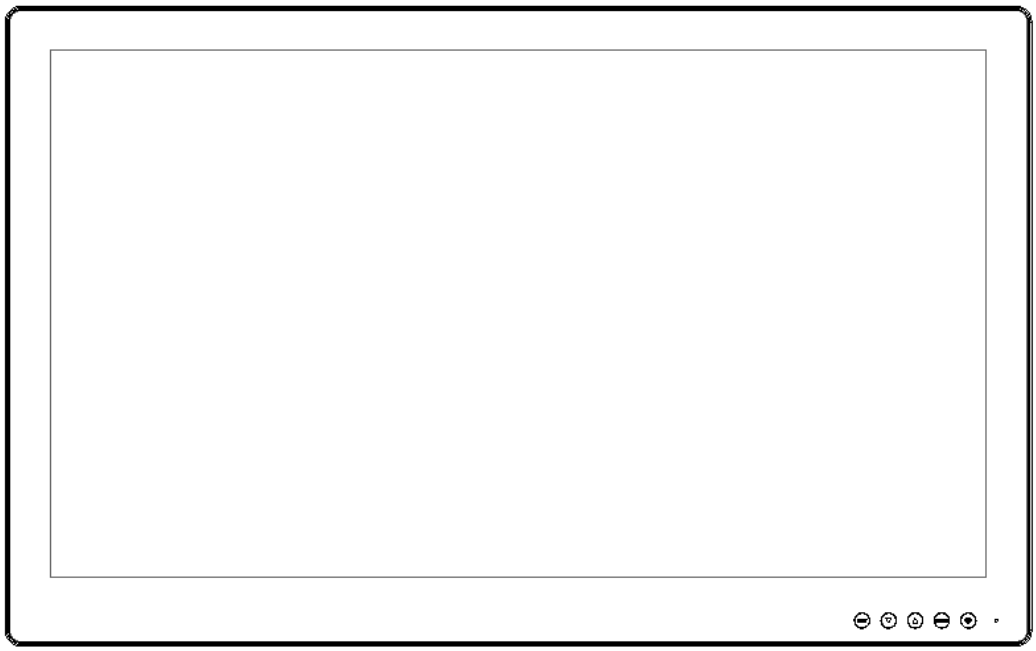


Image 6-1 Touch button operation

Touch Button

The Touch Button is a multi-functional device located behind the LED Indicator on the right side of the front bezel. It has five key buttons: Power, Menu, Upward, Downward and Exit.

1. Power On/Off

Press the Power button to power the unit on from the off stage (the LED is orange). To turn the power off, press the Power button and hold for at least 1 second until the LED turns orange.

2. OSD Control

While the monitor is on (green LED and image on the screen), pressing on the Menu button to activate the OSD. While the OSD menu is active, use the Upward/Downward/Menu to adjust the monitor.

Upward button: Move Up/Right, Increase, Larger, More

Downward button: Move Down/Left, Decrease, Smaller, Less

Menu button: Execute, Do, Save

Exit button: Escape the OSD operation

LED Indicator

This LED indicator turns green when the power is switched ON and the power cord is properly attached. It turns orange when the monitor goes into a power saving mode (Active Off).Please refer to the Power Management section of manual for more information.

7. OSD Menu Operation

The Charts displays the function tree and brief explanations of the functions. Color, OSD, and other adjustments have submenus under each tree.

7.1 On-Screen Display

The LCD monitor features an On-Screen Display (OSD) menu with easily identifiable icons designed to make adjustment of your monitor display settings a more user-friendly process. When highlighted, the icon illustrates the control function and brief instruction to assist the user in identifying which control needs adjustment.

The OSD menu is activated by pressing the Menu button and you can select and adjust the function of your choice by pressing the Upward/Downward/Menu button. The main menu displays a list of sub menu icons and the current video input mode. Press Upward/Downward to move the highlights to the control you would like to adjust, then press the Menu button to select that control or to activate that function. Depending on the control you selected, a submenu of the control with a status bar will appear. The status bar indicates in which direction, form the factory preset; your adjustments are being made. Press Upward/Downward button to adjust the control.

When you have finished making the adjustments, the setting is saved automatically by activating the control function.

7.2 OSD Structure

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
Exit			
Auto Setup	Yes / No		
Brightness	Brightness bar		
Contrast	Contrast bar		
Display	Exit		
	H. Position		
	V. Position		
Color Mode	Exit		
	Color Temperature	Exit	
		9300K	
		6500K	
		5400K	
		User	Exit
			Red
			Green
			Blue
	Gamma	Exit	
		Neutral	
		Gamma 2.2	
		DICOM	
Clock/Phase	Exit		
	Clock		
	Phase		
Management	Exit		
	Scaling	Exit	
		Full	
		5:4	
		4:3	
		16:9	
		1:1	
	OSD Display	Exit	
		OSD H. Position	
		OSD V. Position	
	Language	English	
		Francais	
		Deutsch	

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
		Italiano	
		Español	
		ニホンゴ	
	Source	Exit	
		Auto Source	On / Off
		VGA	
		HDMI	
		DP	
	Power Key Lock	On / Off	
	Recall	Exit / Yes	
Operation Hours			

7.3 Main Menu



Image 7-3 Main OSD menu

7.3.1 Exit

Exit Current OSD Menu go back to previously.

7.3.2 Auto Setup (Only Support Analog)

Auto setup the image of an analog signal.

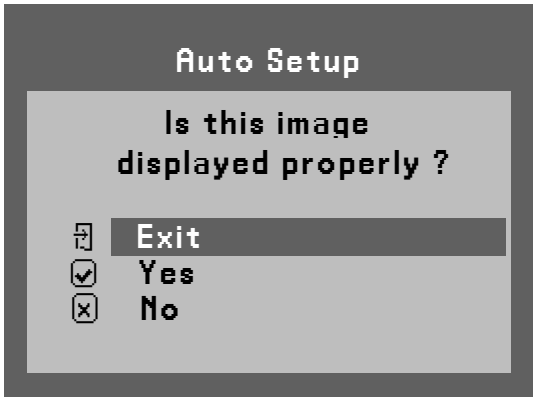


Image 7-3-2 Auto Setup OSD menu

7.3.3 Brightness

Adjust the brightness of the monitor.

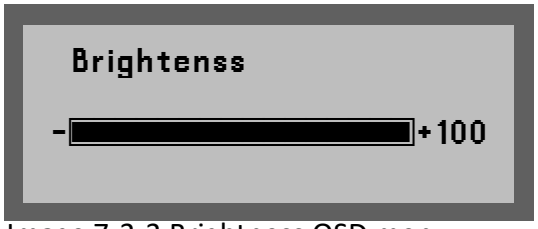


Image 7-3-3 Brightness OSD menu

7.3.4 Contrast

Adjust the contrast value.



Image 7-3-4 Contrast OSD menu

7.3.5 Display (Only Support Analog)

Setup the image position on the screen.

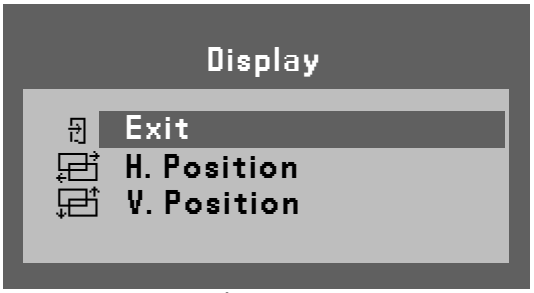


Image 7-3-5 Display OSD menu

- H. Position: Adjust the horizontal position of the analog image.



Image 7-3-5-1 H. Position OSD menu

- V. Position: Adjust the vertical positon of the analog image.



Image 7-3-5-2 V. Position OSD menu

7.3.6 Color Mode

Setup the Color Temperature and Gamma.

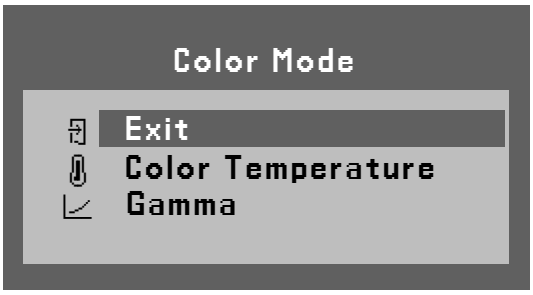


Image 7-3-6 Color Mode OSD menu

- Color Temperature: Setup the Color temperature.

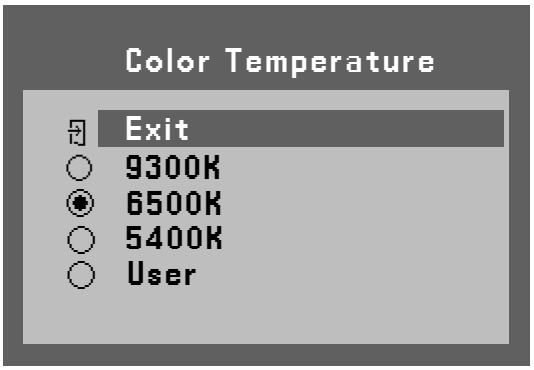


Image 7-3-6-1 Color Temperature OSD menu

- User: Adjust the color of the image independently.

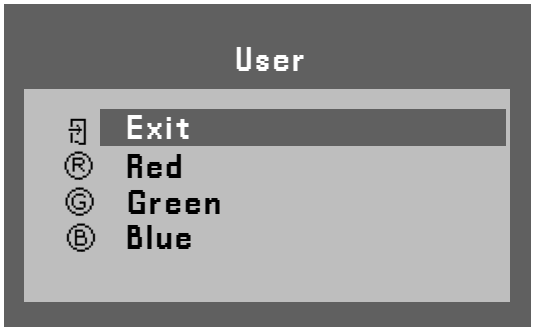


Image 7-3-6-2 User OSD menu

- Gamma: Allows users to select preset gamma curve of the display setting.
  Preset gamma curve are Neutral , Gamma 2.2 & DICOM.

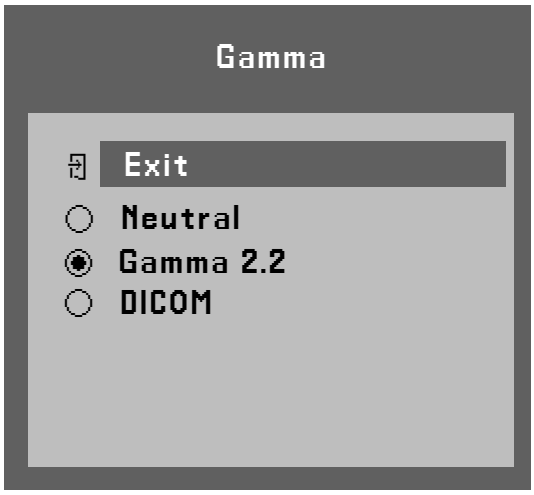


Image 7-3-6-3 Gamma OSD menu

7.3.7 Clock / Phase (Only Support Analog)

Adjust the clock or phase of an analog image manually.

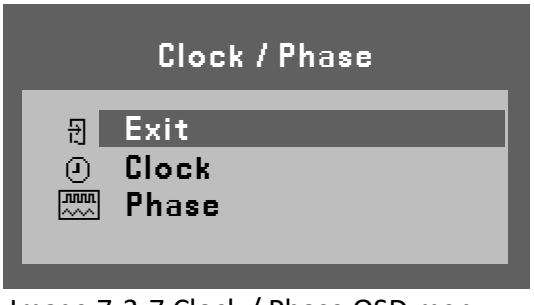


Image 7-3-7 Clock / Phase OSD menu

- Clock: Adjust the clock of the analog image manually if Auto Setup didn’t catch the image correctly.

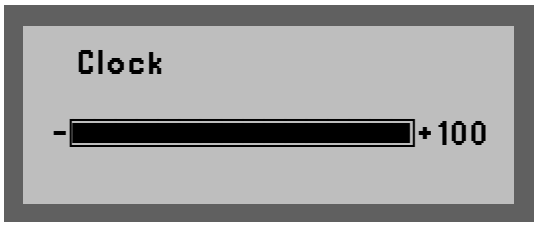


Image 7-3-7-1 Clock OSD menu

- Phase: Adjust the phase of the analog image manually if Auto Setup didn’t catch the image correctly.

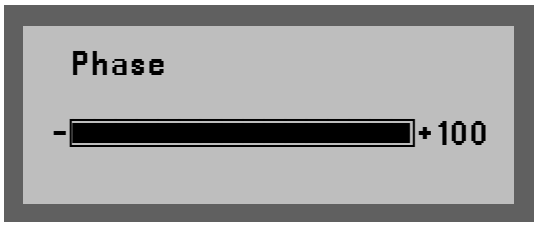


Image 7-3-7-2 Phase OSD menu

7.3.8 Management

To manage the monitor.

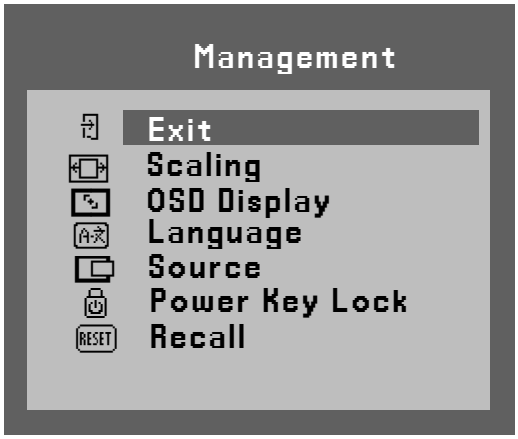


Image 7-3-8 Management OSD menu

7.3.8.1 Scaling

Setup the display ratio of the image.

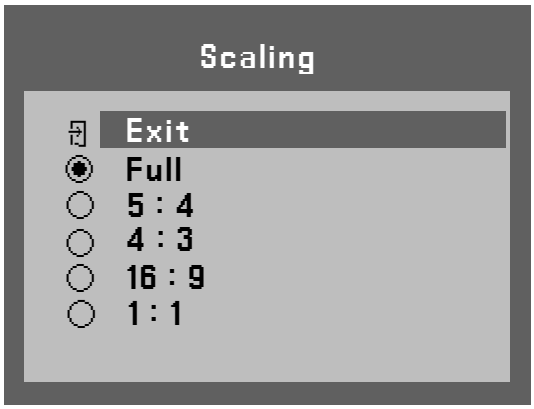


Image 7-3-8-1 Setuping OSD memu

7.3.8.2 OSD Display

Adjust the OSD position on the screen.

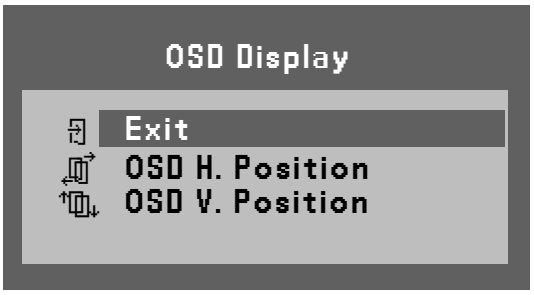


Image 7-3-8-2 OSD Display menu

- OSD H. Position: Allows users to set OSD menu in horizontal position on the display.

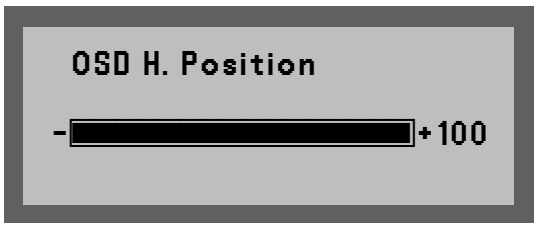


Image 7-3-8-2a OSD Horizontal Position OSD menu

- OSD V. Position: Allows users to set OSD menu in vertical position on the display.

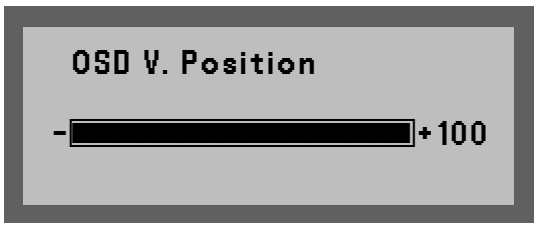


Image 7-3-8-2b OSD Vertical Position OSD menu

7.3.8.3 Language

Select this item to change the OSD language



Image 7-3-8-3 Language OSD menu

7.3.8.4 Source

Select an input source.

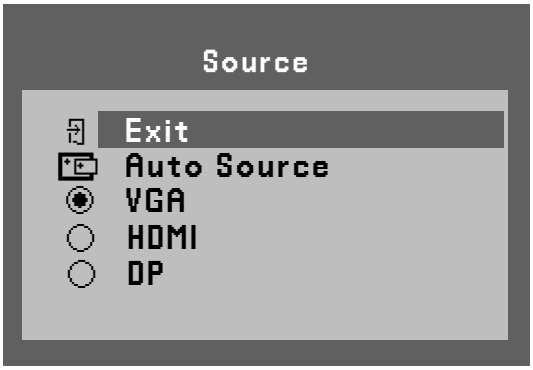


Image 7-3-8-4 Source OSD menu (RGD)

7.3.8.5 Power Key Lock

To lock the power key for accidental operation.

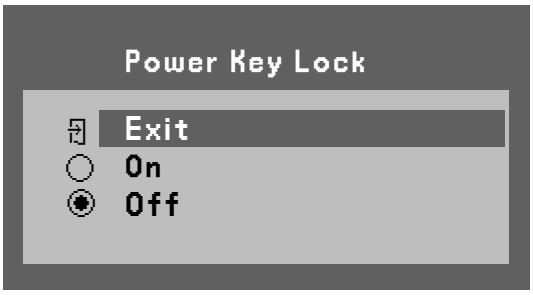


Image 7-3-8-5 Power Key Lock OSD menu

7.3.8.6 Recall

Reset OSD value to the default setting.

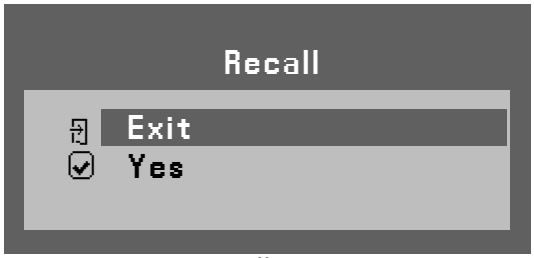


Image 7-3-8-6 Recall OSD menu

7.3.9 Operating Hours

Keep records of the monitor operating hours.



Image 7-3-9 Operation Hours OSD menu

7.4 Supported Video Modes

※The display may not work correctly with timings other than listed below.
◎ : Recommended timing ○ : Applied timing

Resolution	Pixel-rate [MHz]	Line-rate [kHz]	Frame-rate [Hz]	VGA	HDMI	DP
640x480	25.200	31.500	60.000	O	O	O
640x480	31.500	37.861	72.809	O		
640x480	31.500	37.500	75.000	O		
720x400	28.322	31.469	70.087	O	O	O
800x600	36.000	35.156	56.250	O		
800x600	40.000	37.879	60.317	O	O	O
800x600	50.000	48.077	72.188	O		
800x600	49.500	46.875	75.000	O		
1024x768	65.000	48.363	60.004	O	O	O
1024x768	75.000	56.476	70.069	O		
1024x768	78.750	60.023	75.029	O		
1280x1024	108.000	63.981	60.020	O	O	O
1280x1024	135.000	79.976	75.025	O		
1600x1200	162.000	75.000	60.000	O	O	O
1920x1080	148.504	67.502	60.002	◎	◎	◎

NOTE

- Modes not listed in the table may not be supported. For optimal resolution, we recommend you to choose a mode listed in the above table.

8. Technical Specifications

Product description	27” LCD Monitor (RGD2773AMII-P)
Screen technology	AHVA
Active screen size (H x V)	597.888 mm (H) x 336.312 mm (V)
Aspect ratio (H:V)	16 : 9
Resolution	FHD (1920 x 1080)
Pixel pitch	0.3114 mm x 0.3114 mm
Color support	1.07B colors
Viewing angle (H, V)	178 / 178 (CR>10)
Panel Brightness	1000(Typ.) cd/m²
Response time	14ms (Typ.)
Video input signals	1xDP 1xHDMI 1xVGA
Monitor Rating	24Vdc,3.75A
Power Supply	Delta Electronics, Inc. Model MDS-090AAS24 F Input: 100-240Vac, 1.5-0.75A, 50-60Hz Output: 24Vdc, 3.75A
Power consumption (maximum)	< 55W
Power consumption (stand-by)	< 3 W
Dimensions (W x H x D)	656.8(L)x409.4(W)x69(H) mm
Net Weight	8 kg ± 0.2 kg
Certifications	IEC/EN 60601-1; IEC/EN62368-1, ANSI/AAMI ES60601-1;CAN/CSA-C22.2 No. 60601-1; IEC/EN 60601-1-2 ; EN55032,EN55035, FCC Part 15 subpart B; RoHS (2011/65/EU & 2015/863/EU)
Operating temperature	0°C to 40°C
Transport / Storage temperature	-20°C to 60°C
Operating humidity	30% - 75% (performance; non-condensing)
Transport / Storage humidity	10% - 90% (non-condensing)
Operation altitude	5000m

NOTE

- The specifications shown above may be changed for quality improvement without prior notice.

9. **Outline Dimension**

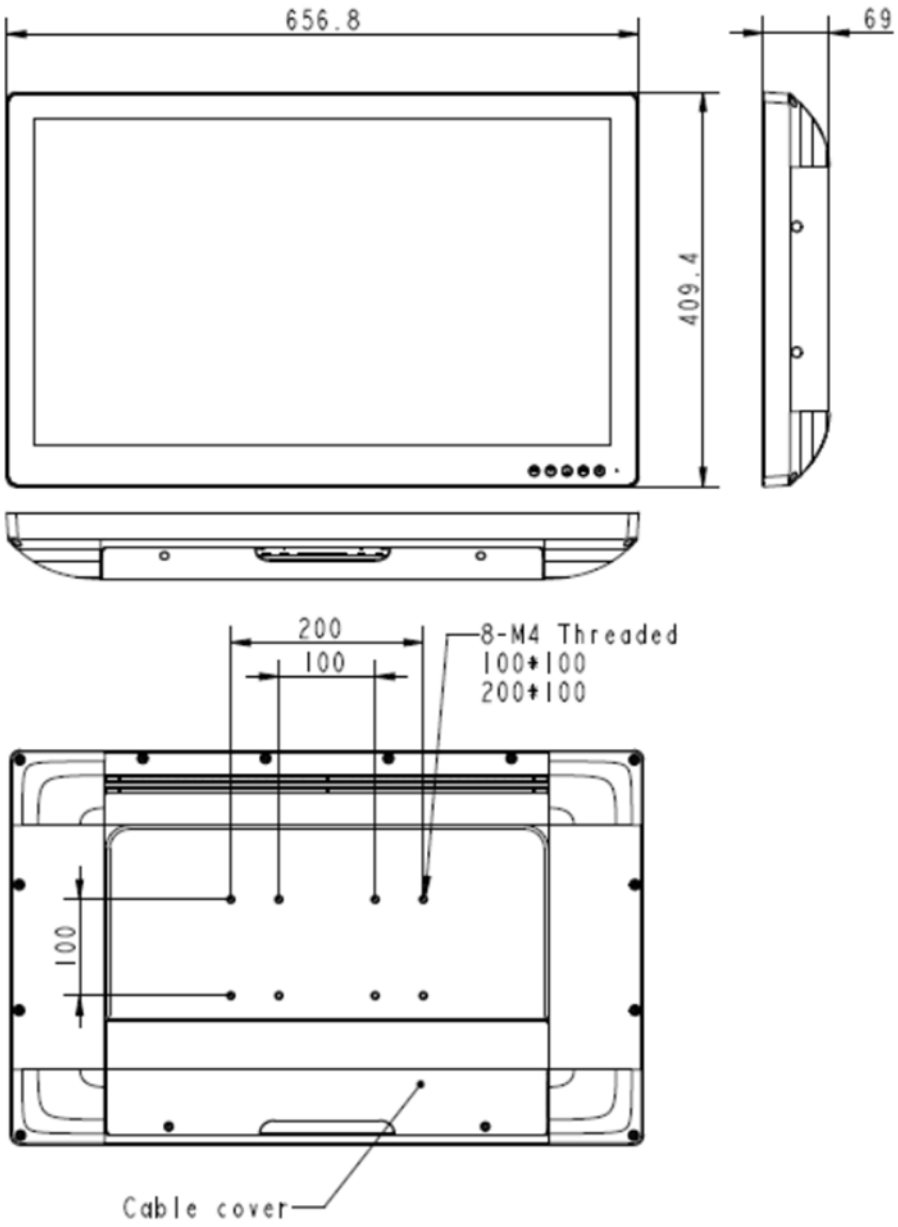


Image 9-1 Outline dimension

10. Troubleshooting

If the Display fails to function correctly, please follow these steps for a possible solution.

1. Perform the adjustments according to **Installation procedure** section.
2. Refer to the following troubleshooting chart if you cannot resolve the problem from other sections of this User's Manual.
3. If the problem is not described below or you cannot correct the problem, stop using the monitor and contact your dealer or the nearest service center for further assistance.

Problem	Check to see
No picture	The signal cable should be completely connected to the display card/computer.
	The display card should be completely seated in its slot.
	Check the AC Switch should be in the ON position. (AC Switch models only)
	DC Power Switch and computer power switch should be turned on.
	Check to make sure that a supported mode has been selected on the display card or system being used.(Please consult display card or system manual to change graphics mode.)
	Check the monitor and your display card with respect to compatibility and recommended settings.
	Check the signal cable connector for bent or pushed-in pins.
Image persistence (Image Sticking)	Image persistence is when a residual or "ghost" image of a previous image remains visible on the screen. To alleviate image persistence, turn off the monitor for as long as the previous image was displayed.
	Ensuring that a single image isn't on-screen all the time or more than thirty minutes.
The screen has defective pixels	The screen has defective pixels (e.g. slightly light or dark). This is due to the characteristics of the panel itself and not the LCD product.
Image is unstable, unfocused or swimming is apparent	Signal cable should be completely attached to the computer.
	Check the monitor and your display card with respect to compatibility and recommended signal timings.
	If your text is garbled, change the video mode to non-interlace and use 60 Hz refresh rate.
OSD is not sized	Use the OSD Image Adjust controls to increase or decrease the Coarse total.

Problem	Check to see
properly	Check to make sure that a supported mode has been selected on the display card or system being used.
No signal	Signal cable should be completely attached to the computer.
	Make certain the computer is not in a power-saving mode (touch the keyboard or mouse).
	If no video is present on the screen, turn the Power button off and on again.
LED on monitor is not lit (no blue or amber color can be seen)	Power Switch should be in the ON position and power cord should be connected.
	Check the power cable should be connected surely.

Notes for the User's Manual

- The content of this manual is subject to change without notice.
- Although this manual has been prepared carefully, please let us know if you find any errors, omissions, or ambiguous explanations.

Legal information and responsibility

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Please use following link for the registration of service issues:
http://www.canvys.de/support/teklink/

Model: RGD2773AMII-P
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