

Product Overview

The WM15 Series hereon in called The Wall Mounted Computer has been designed to provide practical computing power in a package that is rugged, space saving and ergonomic. Designed specifically for a medical industry, the Wall Mounted Computer is intended to be used in the patient care environment, and as such meets the requirements of EN60601-1, as well as EMC Directive 89/336/EEC.

Although no directives are currently in place to cover the infection control aspects of using computer equipment in operating theatres, The Wall Mounted Computer has been designed with infection control in mind.

This user manual is written with the assumption that the user already has a good working knowledge of PC hardware and operating systems, and as such provides information specific only to the Wall Mounted Computer.

Any issues not covered by this manual may be addressed by the following contact methods;

RDP
62 Victoria Road
Victoria Industrial Estate
Burgess Hill
West Sussex
RH15 9LR

Tel: 01444 245123 Fax: 01444 245124

Email: support@rdphealth.com Website: www.rdphealth.com



Attention, consult ACCOMPANYING DOCUMENTS before attempting to change power supply selection or carry out interconnections. Equipment connected should comply with EN60601-1.



Fuse type/rating.

Trade Marks

Microsoft and Windows are registered trademarks of the Microsoft Corporation

All other company and product names are registered trademarks and/or trademarks of their respective owners



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Classification

- Protection against electric shock: This equipment is class I - It must be connected to a protective earth (normally achieved by the use of a standard 3 pin plug - wall socket)
- Degree of protection against electric shock: This equipment is not classified - it has no applied part
- This equipment is not protected against ingress of water
- All accessible surfaces of the wall mounted computer should be cleaned with alcohol/chlorine based sterilisation products using a clean, soft, lint free cloth.
- This equipment is NOT suitable for use in the presence of flammable anaesthetic gases
- This equipment is suitable for continuous use.

Important Safety Information

A power cable is included with The Wall Mounted Computer. If another power cable is used, use only a cable that meets the correct specifications for use with the product.

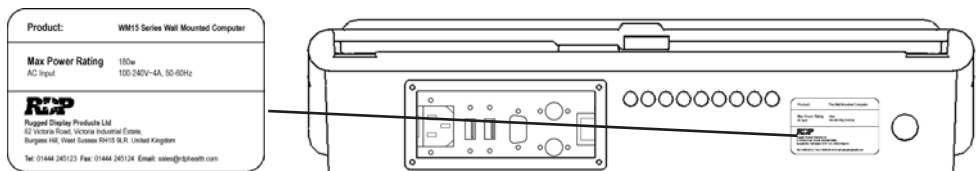
Power Cord Set Requirements

The plug on the cordset is the disconnect device. It and the wall socket must be kept accessible at all time.

The mains supply arrangement consists of an IEC60320 appliance inlet and connector, as for a detachable mains cord system. This is recessed inside the enclosure and covered with a plate removable with the aid of a tool.

Maximum power rating of The Wall Mounted Computer is 180W. AC input is 100V-240V ~ 4A, 50-60 Hz. The flexible power cord received with The Wall Mounted Computer meets the requirements for use in the country in which it was purchased.

Where to find the product ratings label



Should you wish to use The Wall Mounted Computer in another country, you should purchase a power cord that is approved for use in that country.

The power cord must be rated for the product and for the voltage and current marked on the products electrical ratings label.

The voltage and current rating of the cable should be greater than the ratings marked on the product. In addition, the diameter of the wire must be a minimum of 0.75 mm² or 18AWG and the length of the cord must be between 1.8m and 3.6m. If you have any questions concerning the type of cord to use, please contact RDP.

When replacing the power cord, please ensure that the strain relief bracket on the glanding plate has been re-secured around the IEC connector within the unit. Failure to do so may result in the power cable becoming loose and loss of power to the Wall Mounted Computer.

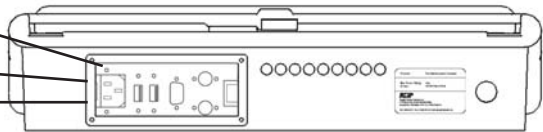
 **IEC Power Input**

The Wall Mounted Computer is fitted with a twin fused IEC power inlet module. The fuse holder is situated to the left hand side of the inlet module (shown below) and is visible only once the power cable has been removed.

Location of the fused IEC power inlet module.

Fuse 1

Fuse 2



The fuses are accessible from the outside of the unit, through the access hole at the bottom of the Wall Mounted Computer. A pair of long nose pliers will be required to remove and replace the fuses from the holder.

Both fuses are 20mm, ceramic, slow blow fuses rated at 250V. In the unlikely event of failure, only ceramic fuses rated T2AH250V should be used.

If in doubt, contact RDP Support on 01444 24512.

 **WARNING**

To reduce the risk of electric shock or damage to the unit, do not disable the power cord grounding feature. This product is designed to be connected to a grounded power outlet. The grounding plug is an important safety feature.

When you need to disconnect the power to the equipment, unplug the power lead from the power outlet by grasping the plug firmly. Never pull on the cable itself.

Electromagnetic Interference

This equipment has been tested and found to comply with the limits of EN60601-1-2. These limits are designed to provide reasonable protection against harmful interference and 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:

- Relocate the receiving antenna of the radio or television
- Increase the distance between the television or radio and the computer
- 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 or television technician for help

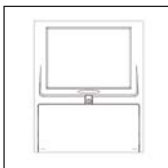
Health & Safety Warning

The Wall Mounted Computer is over 13kg in weight and does not have any carry handles. We therefore strongly recommend that you take necessary precautions when handling this product and always use 2 people to mount and dismantle the unit from the wall channel.

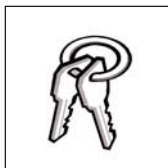
Unpacking the Wall Mounted Computer

The unit should be unpacked carefully and checked against the shipping documentation. The packaging should be retained in case the unit needs to be returned to RDP for service.

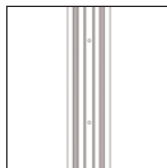
Where numerous units are installed on site, we strongly recommend that at least a small number of complete packaging is kept. In each box there will be:



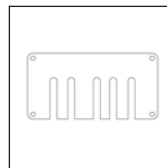
Wall Mounted Computer



2 x Keyboard Door Keys



Wall Channel + Fixings



Vanity Cover + Fixings



5 x Tie Wraps

All Wall Mounted Computers have same key locks. This means that keys from one unit may be used to access any other unit.

Please notify us immediately should you suspect any items to be missing.

System Drivers

Please note that, unless otherwise requested, The Wall Mounted Computer will be preloaded with required operating system, and configured with all relevant drivers. Should you need to reload the OS and require additional drivers, these are available from the RDP website; www.rdphealth.com.

IMPORTANT

If you have ordered a touch screen model, the touch drivers will already be installed, configured and calibrated. Do not use any touch driver other than those supplied with the unit as this may cause system conflicts.

Powering On

As the unit is intended to be wall or post mounted, there is no convenient way of using the unit before it has been mounted. If you need to power the unit up for test and further configuration prior to being mounted, we suggest that you prop the unit up against the back of a chair or on a workbench against a wall.



WARNING

The Wall Mounted Computer weighs over 13kg and has no carry handles. We strongly recommend that the necessary precautions are taking when handling this product. Where possible, always use 2 people to position the unit.

Should this prove impracticable, RDP can supply a free standing self supporting post, part number (MNT9060) that allows the unit to be mounted in a convenient position for configuration prior to wall mounting. Should this be required, please contact our customer support team on 01444 245123.

If you prop The Wall Mounted Computer up on a work bench whilst configuring the unit, please take adequate precautions to prevent the unit slipping out of position. The unit does not have rubber feet and as such is prone to slippage if not properly secured.

The unit is cooled by airflow entering the unit at the bottom, and being expelled at the back. If the unit is laid on its back, it is vitally important that the rear vent is not blocked, as this will cause the unit to overheat. Please ensure that adequate precautions are taken to ensure that the vents remain free of obstruction at all times.

On/Off Switch

This is located underneath the unit on the right hand side. It is a momentary switch, meaning that pushing the button once turns the unit on. Pushing it again will turn it off.

After the unit has been turned on there will be a delay of approximately 3 seconds before any screen activity.



Mounting the Wall Channel

Locating the Wall Mounted Computer.

This product is intended to be mounted onto a wall or other vertical surface. When positioning the unit please adhere to the following guidelines:

- Do not position the unit above or next to a direct heat source such as a radiator as this will impair the unit's cooling and may cause product failure.
- Do not position the unit where it is likely to receive direct sunlight. The unit's housing is solid aluminium which, whilst good at dissipating heat, also absorbs heat should it be in direct sunlight.
- Once mounted, the unit will protrude from the wall surface by approximately 4 inches, (10cm). Please ensure that this will not interfere with the operation of nearby doors, and that it does not present an obstruction if mounted in a corridor

Detailed instructions on mounting the wall channel are included separately. RDP strongly recommend that these instructions are followed precisely in order to secure the wall channel safely.

The channel should only be mounted by a member of the hospital estates department with local knowledge of the wall construction. Failure to follow the mounting instructions can result in possible damage to property and injury to persons.

If for any reason these instructions are missing from the pack, they can be downloaded from our website : www.rdphealth/rdp_support/

Alternatively, RDP can fax or email these instructions. Please call our customer support team on 01444 245123 for further assistance.

Optional Roll Pole Mount

The RDP Roll Pole Mount (Part# MNT9060) is intended to be used where it is not practical to mount the unit directly onto a wall. This may be due to poor quality of the walls or insufficient wall space.

The Roll Pole is a free standing support, enabling the unit to be moved quickly and easily from one location to another with the minimum of effort.

This mounting configuration should not be considered a truly mobile solution, as the Wall Mounted Computer still required to be hard wired to a power socket.

For RDP solutions with integrated battery support, please see our range of mobile computer carts on www.rdphealth.com



The Roll Pole has been designed to have the smallest possible footprint whilst still providing adequate stability. It is not intended to be rolled down steps, and should always be used on a flat and even surface. The 5 star base has 2 locking castors. When assembling the unit, ensure the locking castors are facing the front.

Always applying locks to both castors when the unit is stationary. Take care not to leave power and network cables trailing in such a manner as may provide a trip hazard.

A hook is provided on the rear of the post in order to retain the cables when the roll pole is being moved from one location to another. It is strongly recommended that when moving the Roll Pole configuration, that the power and network cabling be detached from the wall NOT the wall mounted computer. Leave the cables attached and hook around the cable tidy hook.

Optional UPS

Should it be required to give Wall Mounted Computer and Roll Pole a level of true mobility, the unit can be fixed with an additional carriage (Part# MTL1009) in order to support a small Uninterruptible Power Supply (UPS). This can be fitted at time of order, or retro fitted on-site by the user. Typically the UPS will support the Wall Mounted Computer for a period of 15 minutes, allowing it to be moved from one location to another without having to shut down and reboot the machine.

Product Features

Product Usage

This product is typically used in Operating Theatre environments, supporting patient booking applications, but the Wall Mounted Computer has not been designed to fulfil only a single function. It is after all, a computer workstation, and as such can be used in a wide variety of applications where a space saving, infection control friendly and EN60601 compliant product is required.

Display

The Wall Mounted Computer incorporates a 15" industrial grade flat panel display. The display can operate resolutions of 1024 x 768, 800 x 600. The display cannot operate at any resolution greater than 1024 x 768.

The TFT panel is protected by a sheet of 3mm toughened glass, which has two functions.

Firstly it is bonded into the housing to form a watertight seal to protect the TFT panel, permitting the front of the unit to be swabbed down with a cloth soaked in alcohol or other chlorine based sterilisation fluids.

Secondly, this glass also protects the fragile display module from vandalism and accidental damage. Although not completely unbreakable, the toughened glass will protect the unit against all but the most determined attempts of vandalism.



LCD Monitor Quality and Pixel Policy

The TFT panel in the Wall Mounted Computer uses high-precision technology to guarantee trouble free performance. Nevertheless, the display may have cosmetic imperfections that appear as small light or dark spots. This is common to all LCD displays from all TFT manufacturers, and is not specific to RDP. These imperfections are caused by one or more defective pixels or sub-pixels.

A pixel consists of one red, one green, and one blue sub-pixel. A defective pixel is always turned on (a bright spot on a dark background), or it is always turned off (a dark spot on a bright background). The first is the more visible of the two.

A defective sub-pixel will display as a permanently red green or blue pixel, and is less visible than the first two defects.

The panel used in the Wall Mounted Computer will not have more than:

- 3 bright spots
- 5 dark spots
- 5 total bright and dark spots
- No more than two adjacent defective pixels (less than 2.5mm edge-to-edge)

Touch Screen Option

If you have purchased a Wall Mounted Computer with integrated touch screen, the drivers will already have been installed and the factory calibrated by RDP. Unless specifically requested by the customer, the touch sensor will always be installed on COM1. Do not attempt to install any touch drivers other than those supplied by RDP, as this may cause system conflicts and render the system inoperable.

The unit is installed with a resistive touch sensor. This means that the touch screen is activated by any pressure on the surface of the sensor, whether finger tip, stylus, gloved hand or any other pointing device.

If you are using an application that has been developed for a touch screen interface, we would generally suggest that the bare finger is probably the best pointing device. However, if some of the buttons appear to be too small to be consistently hit with the finger, RDP is able to supply a stylus pointing device that will allow the screen icons to be activated with greater accuracy.

We would not recommend the use of a ball-point pen on the touch screen. Although this is unlikely to damage the sensor, over time, ink will build up on the display and be difficult to clean. We would also ask you to guard against using any sharp objects such as screw drivers as pointing devices. Over time, this will cause abrasions to the sensor that will impair viewing quality and trap dirt.

What applications will work with the touch screen?

Touch screens operate using mouse emulation drivers. This means that generally speaking, any application that works with a mouse will work with a touch screen. Any application intended for the Windows GUI will therefore function as a touch screen application.

However, some applications are not as 'touch friendly' as others. A touch friendly application will largely be menu driven with large, clear buttons that operate on a single click. Although right clicks, double clicks and drag/drop functionality are supported by the touch driver, they tend to make the application feel for awkward to use.

It is always a good idea to ask the software vendor how touch friendly the application. Just because it works in Windows does not mean it will be an intuitive interface once used with a touch screen. If in doubt about what questions to ask the software vendor the simple rules are;

Touch friendly - single clicks, large buttons

Non-Touch friendly - double clicks, right clicks, drag and drop required, small buttons.

The Keyboard

The Keyboard will always be supplied with a UK legend set unless another language layout has been specifically requested. Any Wall Mounted Computer part number ending in a 2 (e.g. WM15-22-002) will have this keyboard fitted.

Replacing the keyboard

In the unlikely event of keyboard failure, the following steps will guide the user to change the keyboard.

It is important that the keyboard be replaced centrally so as not to interfere with the door hinges and lock mechanism.

Step 1

Remove glanding cover for keyboard cable.

Step 2

From within the access plate, tie a piece of string around the connectors of the keyboard to be removed. Unplug the keyboard and mouse connectors, noting which connector was attached to which port. The keyboard connector coloured purple is on the top when the unit is laid on its back.

Step 3

Remove the keyboard from the door. The keyboard is secured to the inside of the drop down door by strips of 3M dual sided tape. The keyboard can be removed but some force may be required.

Step 4

The cables can now be pulled through the access hole. Removed the string and tie it around the connectors of the new keyboard. With the help of the string, guide the connectors back through the keyboard glanding hole, and pull the string to bring the connectors back to the glanding plate.

Step 5

Attach the connectors to the correct ports, and refit the keyboard to the door, paying particular attention to the correct alignment of the keyboard on the door.

Removable Hard Drive

The Wall Mounted Computer is equipped with a removable hard drive accessible to the user. In the event of a failure requiring the hard drive to be replaced the user can access the hard drive by removing the access cover on the rear of the unit.

1. Unscrew the 4 screws securing the hard drive access plate. The hard drive is fixed on the reverse side of this plate.
2. Remove the hard drive from the access cover and replace with the new hard drive. Re-attach the IDE cable, and re-secure the access plate.



CAUTION

The hard drive is a sensitive electronic device, and suitable antistatic precautions should be taken before handling this component.

At time of ordering, RDP may have supplied the units already pre-ghosted with your applications as well as the operating system. If this is the case, RDP will securely hold a 'gold drive' of your setup and can send a replacement hard drive preconfigured to your precise requirements.

Environmental Considerations

This unit is an extremely robust wall mounted computer, It has been designed to withstand a certain amount of unwelcome tampering, but is not designed to be used in a 'hose down' environment.

All areas of the product that are likely to come into human contact can be considered as sealed and suitable for sterilisation with a damp cloth.

The unit is vented at the back and at the bottom, and so should not be used in a spray down environment, or one open to the elements.

The display is protected by 3mm toughened glass. Whilst protecting the unit from accidental damage, this should not be considered as completely vandal proof.

The aluminium casting has been finished using durable powder coating paint. This has been tested with alcohol and chlorine based sterilisation products. If you have any specific queries concerning the suitability of the unit to withstand particular cleansing products, please contact our customer support team on 01444 245123

The operational temperature range of the product is 5°C to 40°C. It is vital that the ventilation holes on the bottom of the unit and those on the back-plate are unobstructed at all times in order to maintain adequate cooling.



WARNING

Ensure the space between the Wall Mounted Computer and the wall is left unencumbered to allow the free circulation of air behind the unit. This is vital for adequate cooling.

IMPORTANT NOTICE

In order to help maintain the unit as cool as possible and reduce the need for the fan, we recommend that the unit be setup with aggressive power saving features to put the unit into standby when not in use.

Power saving is not factory set by RDP, but we advise users to set these features as aggressively as is convenient for their particular environment. RDP does not recommend the use of screen savers as these use power and generate heat.

In a Microsoft Windows environment, Power Saving features can be found in the Display Settings Properties from within the Control Panels.

Connectivity Ports

The Wall Mounted Computer has a concealed connectivity plate mounted in the bottom of the unit. The standard product is shipped with the following ports:

- 1 x 10/100BaseT network port
- 2 x Type II USB ports
- 2 x PS2 ports (Keyboard/Mouse)
- 1 x IEC power inlet.

In the accessory box shipped with the unit, are a number of cable ties. These are to be used as strain relief ties for cables being connected to the IO plate.

Attaching other devices to the IO plate.

- Attach the cable to the relevant port.
- Securely attach a cable tie around the cable just below the access hole.
- Push the cable inside the unit
- Attach the glanding plate, ensuring the cable passed through a suitably sized slot in the glanding plate.
- The slot should be narrow enough to allow the affixed tie wrap to act as a strain relief, but not so tight as to crimp the cable itself.

Wireless Network

If installed on a wireless network, The Wall Mounted Computer can be used with a USB wireless network device. Please contact RDP for details of which devices can be supported.



Maintaining EN60601-1

The Wall Mounted Computer has been manufactured to comply with EN60601-1 as a stand alone unit. In order to maintain this compliance final installation and connection to the LAN must be in accordance with EN60601-1-1.

Please call our support line on 01444 245123 should you have any questions relating to maintaining the compliance of this product during installation.

Cleaning & Maintenance

All Parts of the wall mounted computer should be cleaned with alcohol and chlorine based sterilisation products using a clean, soft, lint free cloth.

Do not use any abrasive product on any part of the unit as this will impair the finish of the paintwork and may impair the viewing properties of the display.

Isopropyl alcohol has been tested on the unit and can be used safely in all areas. We recommend the unit be cleaned as often as is required by local clinical guidelines.

Regular Maintenance Inspections

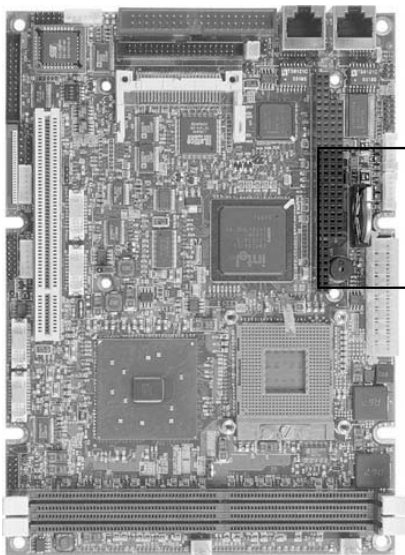
The user should regularly check that:

- The cables for power, keyboard, and other attached devices are firmly secured and not frayed or chafed in any way.
- Ensure that the space between the unit and the wall is free to allow proper air circulation.

Battery Replacement

The battery that is installed on the motherboard (see image below) provides power to the real-time clock. When replacing the battery, use a battery equivalent to the one originally installed in the computer. The unit is shipped with a 3V lithium coin cell battery.

The lifetime of the battery can be extended by plugging the computer into a live AC socket. The lithium battery is only used when the computer is NOT plugged into a live AC socket



Location of CMOS battery

WARNING

The computer contains an internal lithium manganese dioxide battery. There is risk of fire and burns if the battery is not handled properly. To reduce the risk of personal injury:

- Do not attempt to recharge the battery
- Do not expose to temperatures higher than 60°C
- Do not disassemble, crush, puncture, short contacts, or dispose of in a fire or in water
- Replace the battery only with a spare obtained through RDP



Batteries, battery packs, and accumulators should not be disposed of together with the general household waste. In order to forward them to recycling or proper disposal, please use the public collection system or return them to RDP.



Caution

The Wall Mounted Computer is not constructed like a standard computer, and access to the CMOS battery is not straight forward.

Opening the back of the unit to gain access to the battery can cause damage to cables if done incorrectly.

Because of this we strongly recommend that the unit is only opened by technical staff who have already received the relevant training from the RDP Technical Department.

The product warranty will be invalidated if the unit is opened by users who have not received the relevant training.

Please call our customer support team on 01444 245123 should you need further information concerning such training.

Transportation and Storage Conditions

Temperature Range

Operating	10° to 35°C
Nonoperating	-30° to 60°C

Relative Humidity (noncondensing)

Operating	20% to 80%
Nonoperating (38.7°C max wet bulb)	10% to 90%

Maximum Altitude (unpressurized)

Operating	10,000 ft
Nonoperating	30,000 ft

The Wall Mounted Computer weighs over 13kg, and as such should only be shipped in the original packaging. If you need to return a unit to us for service and no longer have suitable packaging, please call our customer support team on 01444 245123 for advise on obtaining replacement packaging.



Warranty Information

WARRANTY CERTIFICATE COMPLETE AND RETAIN THIS DOCUMENT FOR YOUR RECORDS

Rugged Display Products Ltd (RDP) products are manufactured to the highest industry standards and are fully assembled in our own factory. All our products are protected by a 1 Year On Site Parts & Labour Warranty.

RDP will repair or replace, at our option, any of the parts determined upon inspection to be defective in workmanship or material. In case of product failure, call RDP requesting an RMA Number. Products returned without an RMA number will be refused.

Exclusions to Warranty:

- Operator Misuse
- Unauthorised Repairs
- Unauthorised Modifications
- Improper Installation
- Maintenance for normal wear and tear (beginning from the date of purchase)
- Under no circumstances will RDP be liable for loss of time where a product fails

Customer	<input type="text"/>
Product	<input type="text"/>
Serial Number	<input type="text"/>
Date of Purchase	<input type="text"/>
Signed	<input type="text"/>
Dated	<input type="text"/>



Service and Support

If you need to call for Technical Support please have available the product part number and serial number. The product part number (starting with WM15) and serial number can be found on the bottom of the unit

If you suspect a unit needs to be serviced or repaired, please call our Technical Department first on 01444 245123.

We will initially attempt to solve the problem by telephone. If it becomes apparent that the unit needs to be looked at by an engineer, you will be issued with a Support Reference Number and given relevant instructions.

Under no circumstances should any item be sent back to RDP for repair without first contacting the Support Department. Under such circumstances the unit will be returned to the sender unopened.

Information on accessories, along with downloadable drivers and user manuals are all available from www.rdphealth.com

Replacement/Upgrade Part Numbers

ELE1064

Trackpad Sealed Keyboard with PS2 Connectors

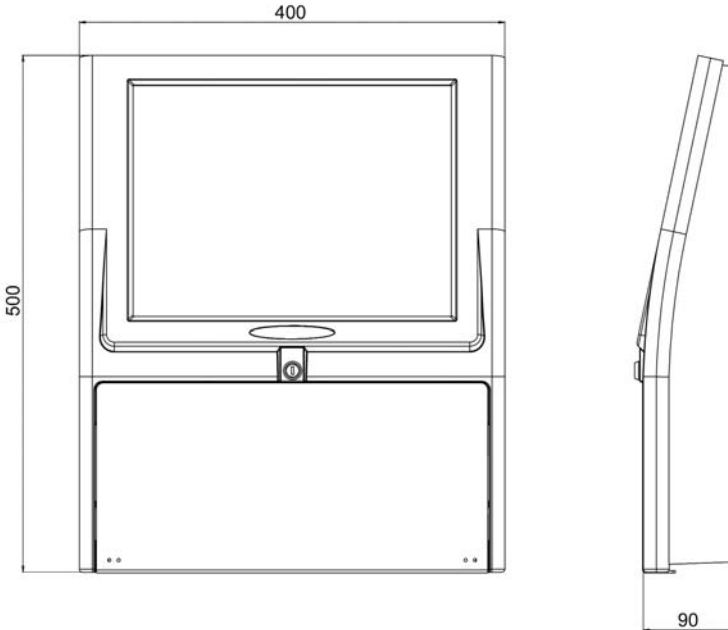
MNT9060

Mobile Mount. 1.6m high post on a star base with lockable castors

MIS1029

802.11b Wireless Lan key type adapter

Technical Specifications



Dimensions (inc wall channel):	Hx500, Wx410, Dx87mm
Weight:	14kg
Construction:	Cast Aluminium
Actual screen size:	15" TFT
Resolution:	XGA 1024x768
Viewing angle:	L-65, R-65, U-50, D-60
Touch option:	Resistive 5 wire
Computer processor:	Intel Pentium M 1.7Ghz
RAM:	512MB
Hard drive:	40GB
Networking:	10/100 BaseT (USB Wireless Optional)

EN60601-1 Certificate

Intertek ETL SEMKO

Certificate of Compliance

Issued to: Rugged Display Products Ltd
Item: Wall mounted computer
Type Reference: WM 15 Series Wall Mounted Computer
Rated Voltage: 100-240 V, 4 A, 50-60 Hz
Protection Classification: Class I equipment
No applied part
Not protected against ingress of dust or water
Not suitable for use in the presence of flammable mixtures
Suitable for continuous operation

This is to certify that a sample of the equipment defined above has been tested by Intertek Testing & Certification Ltd and found to comply with the following requirements:

- EN 60601-1: 1990 + A1: 93, A11: 93, A12: 93, A2: 95, A13: 96, Corrigendum: 94.

Medical electrical equipment. Part 1: General requirements for safety

Excluding:

- clause 10.1 (declared transport and storage conditions)
- clause 36 (electromagnetic compatibility to IEC/EN 60601-1-2)
- clause 48 (biocompatibility to ISO10993-1)
- clause 52.1 (Programmable electronic medical systems to IEC/EN 60601-1-4).
- EN 60601-1-1: 2001 (safety requirements for medical electrical systems)

Full details are given in Report No. 04014792 TRF issue 1

Certificate approved by:



G A Hines
Principal Engineer
Consumer Products Department

Certificate No: 04 3307

This certificate is dated: November 2004



Intertek Testing & Certification Ltd

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For Terms & Conditions please see reverse

