Medi-View AID-156

15.6" Intel® ATOM™ Z3735F Processor Touch Panel PC

Quick Reference Guide

1st Ed – 29 July 2020

Part No. E2017A5C0A0R

Content

1. Getting Started

1.1 About the product

The Medi-View AID-156 is a multimedia Intel® processor-based computer that is designed to serve as a Point of Care (POC) and Point of Information terminal (POI) within healthcare applications. It is a PC based system with 15.6" WXGA LED display, Gigabit Ethernet, multi-COM port and USB 2.0 interfaces and High Definition Audio codec.

The Medi-View is as compact and user-friendly as a notebook computer. This simple, complete and highly integrated multimedia system lets system integrators easily build the Medi-View into their applications.

The Medi-View is intended to be used for general purpose in healthcare related field as an assisting device for data access.

1. This device is to assist clinicians to access and display medical data at the bedside (this is not for diagnostic use). It connects to the internal database through the Ethernet and display the information to doctors, nurses, patients, and so on. The doctors, nurses, patients can record data back to the HIS (Hospital Information System).
2. Patient information, medical records, and other information.
3. The device does not sustain or support life.
4. In case of failure of this device, no special intervention is necessary

The device is not intended to be used in patient monitoring, diagnosis, treatment, alleviation or prevention of diseases, injuries and handicaps.

CAUTION: Read all the important safety information before installing and operating your Medi-View. Please refer to the dedicated chapter in this user guide.

1.2 What's in the box

Overview

Your Medi-View comes with:

1 x AID-156 Panel PC
1 x 19V 90W Adapter
1 x Power Cord

Keep your original packaging. It is designed for this terminal and is the ideal protection during transport and storage.

WARNING: To prevent electric shock, DO NOT remove covers.
No user serviceable parts inside, refer servicing to qualified personnel.

Attention : Pour éviter des chocs électriques, NE PAS retirer les couvercles.
Aucune pièce réparable par l'utilisateur dans l'appareil, contultez au personnel qualifié pour tout service technique.

2. PARTS, CONTROLS AND CONNECTORS

2.1 System setup

Become familiar

Before you set up the Medi-View, take a moment to become familiar with the locations and purposes of the controls, drives, connections and ports, which are illustrated in the figures below.

Front

When you place the Medi-View upright on the desktop, its front panel appears as shown in the figure below.

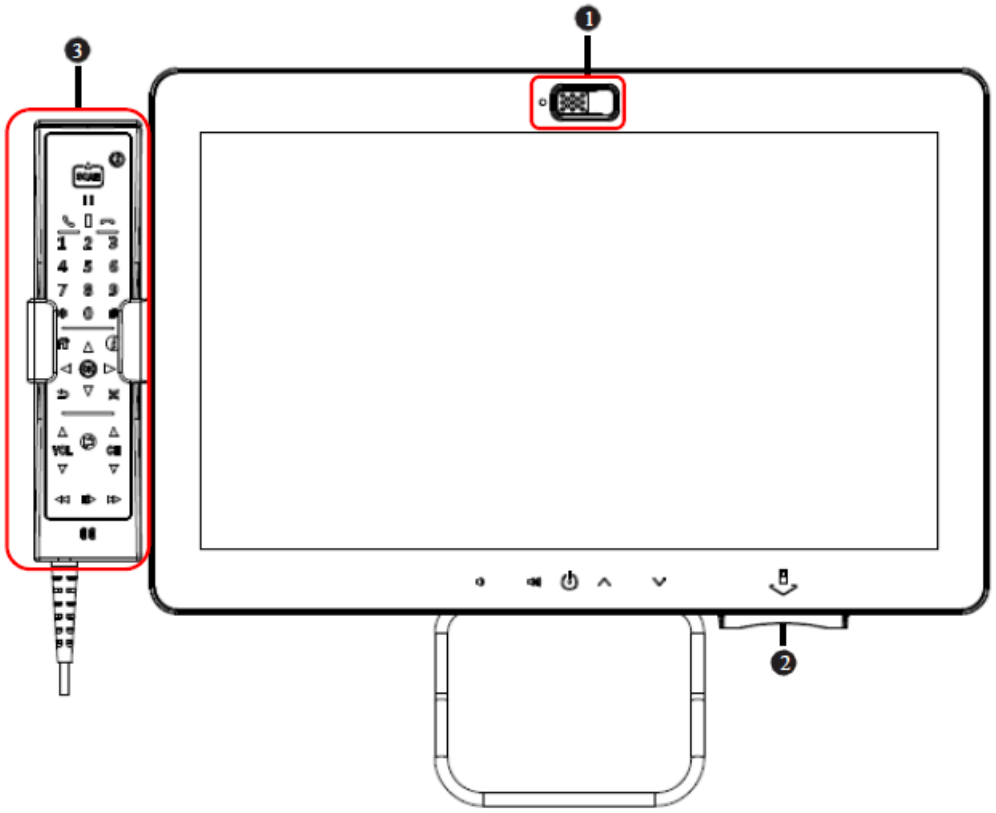


Image 2-1
Front view of the Medi-View AID-156

1. Webcam
2. Contact Card Reader
3. Multimedia Handset (2D BCS Optional)

Left and Right

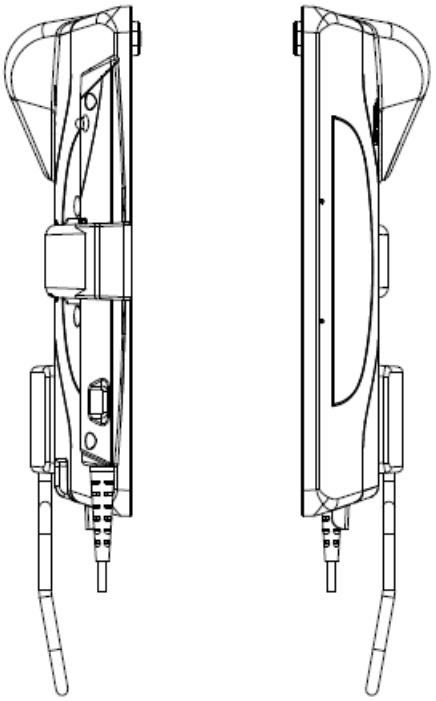


Image 2-2
Left and Right side view of the Medi-View AID-156

Bottom

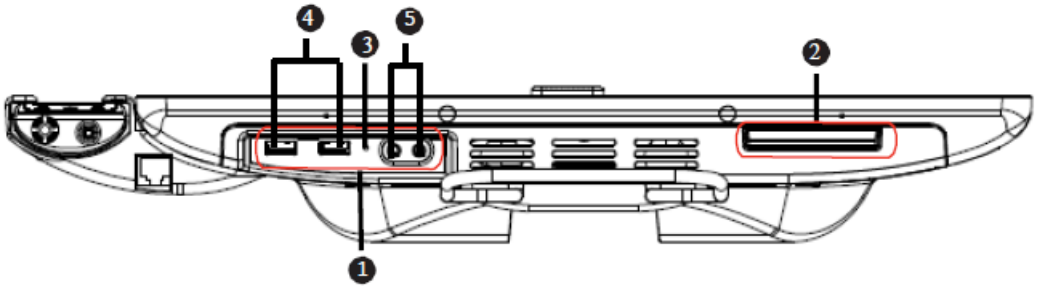


Image 2-3
Bottom view of the Medi-View AID-156

1. I/O area bottom
2. Contact Card Reader
3. Reset button
4. USB 2.0 (2x)
5. Audio Jack (2x)

Medi-View AID-156

Rear

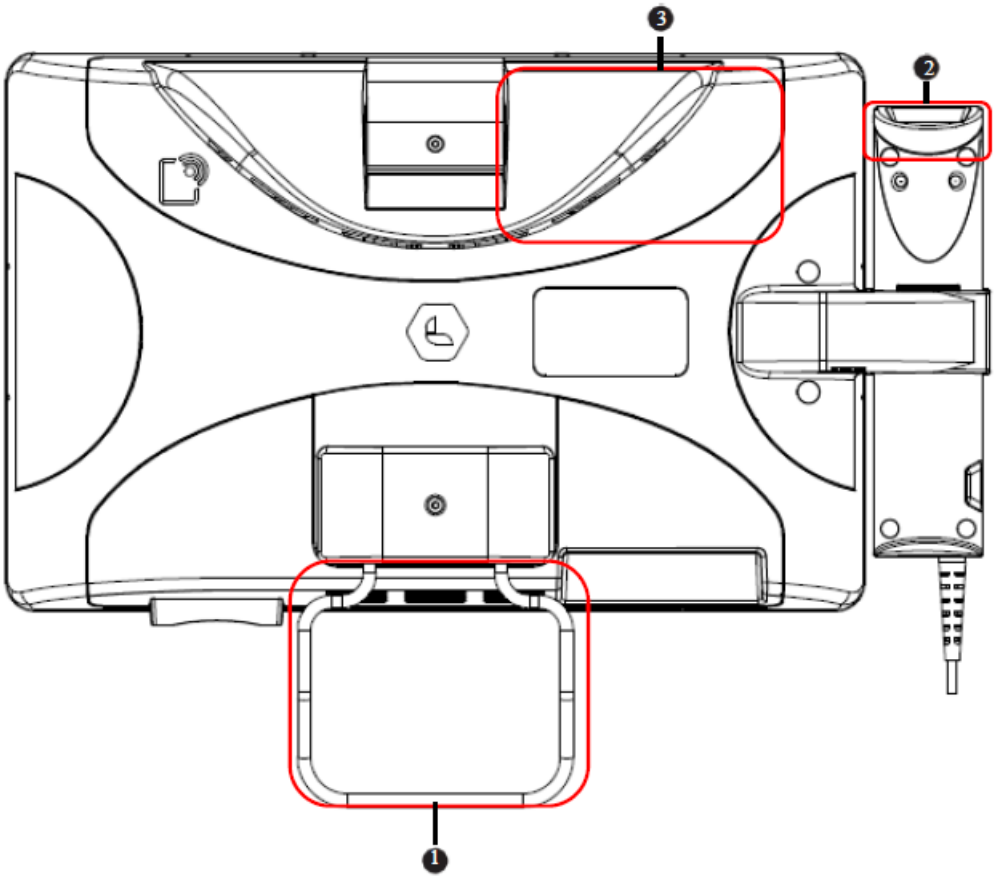


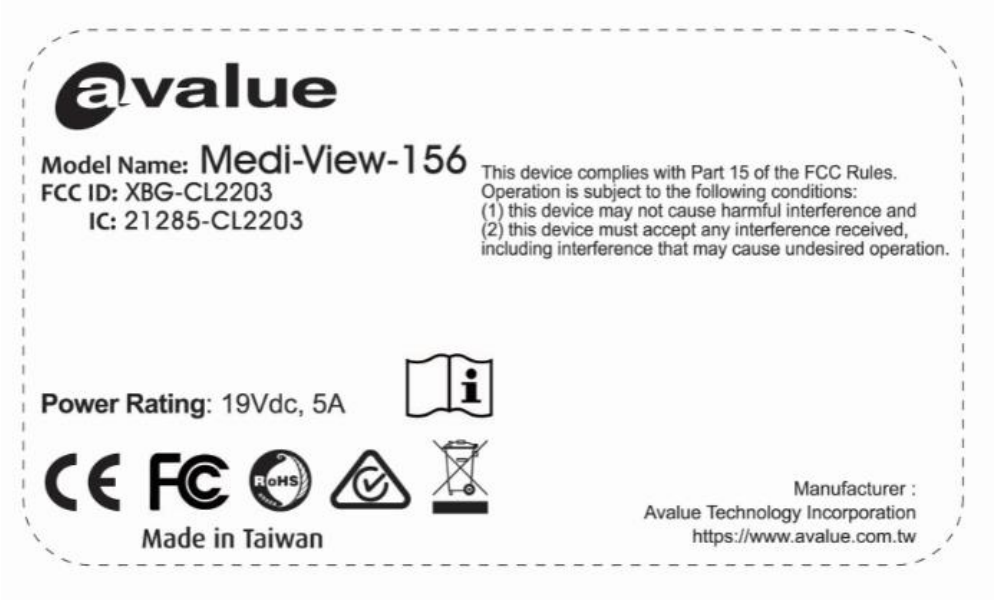
Image 2-4
Rear view of the Medi-View AID-156

1. Simple grab handle
2. 2D BCS (Optional)
3. I/O inside the cover

CAUTION: * The access doors may only be opened by qualified service personal, no user serviceable parts inside.

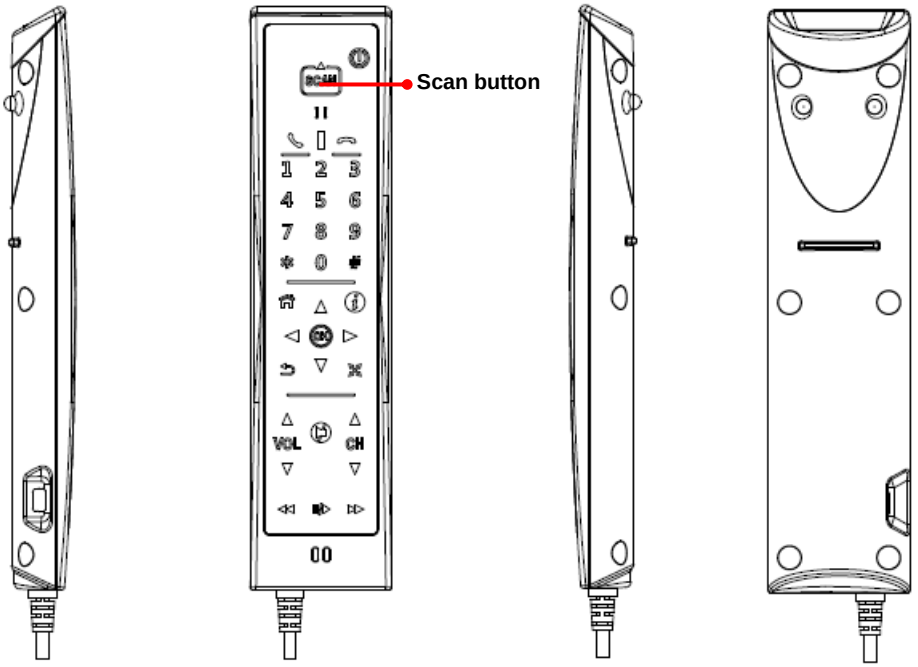
CAUTION: * The grab handle is designed at user's convenience to move the Medi-View around, DO NOT use it for any other purposes, ex. as a hanger.

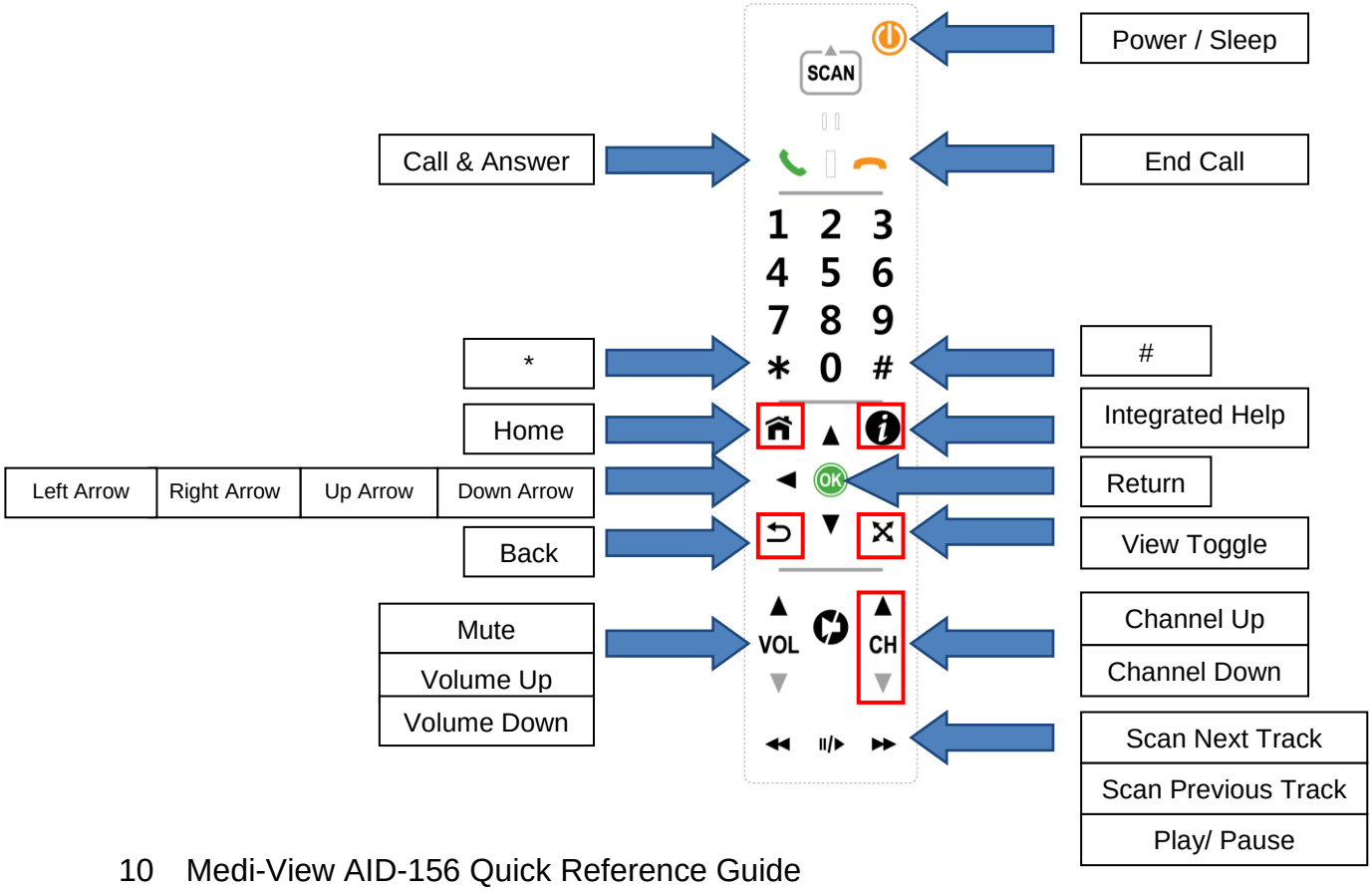
Label

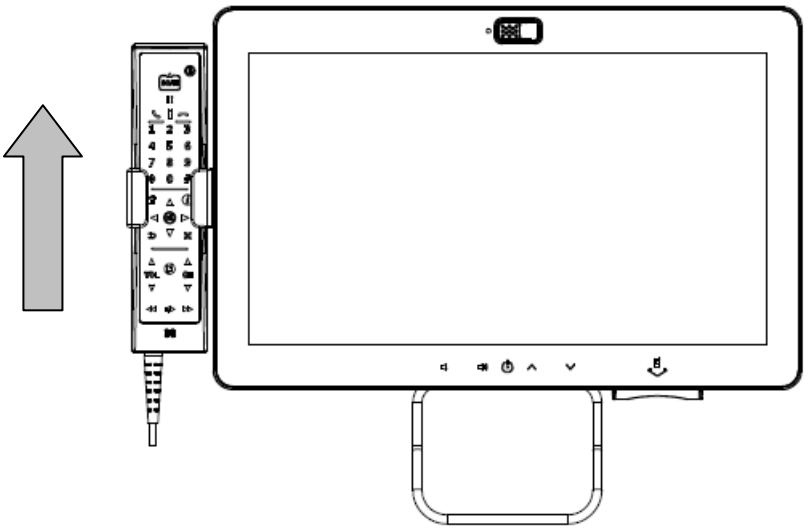

avalue
Model Name: Medi-View-156
FCC ID: XBG-CL2203
IC: 21285-CL2203
This device complies with Part 15 of the FCC Rules.
Operation is subject to the following conditions:
(1) this device may not cause harmful interference and
(2) this device must accept any interference received,
including interference that may cause undesired operation.
Power Rating: 19Vdc, 5A
Made in Taiwan
Manufacturer :
Avalue Technology Incorporation
https://www.avalue.com.tw

Medi-View AID-156

Using Handset (If Applicable)

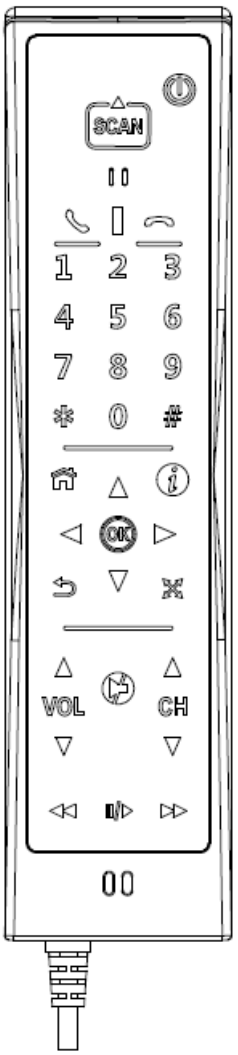






Take the Handset

1. When you want to use the handset, lift the handset from the cradle.
2. Replace the handset back to the handset cradle with keypad facing inside.



Start and End a Phone Conversation

1. To make a phone call, enter the numbers by press the number on the keypad and press “Dial” icon.
2. To end a phone conversation, press the “Hang Up” icon.
3. Use the volume control to adjust the volume of the handset.

Note:
Phone application software and Internet connection are required.

3. SYSTEM INSTALLATION

3.1 VESA Mounting (For VESA SKU)

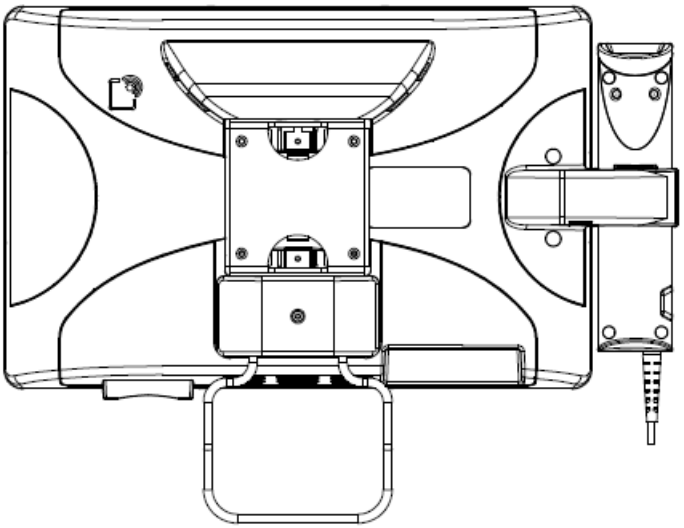
Medi-View AID-156 also provides VESA mounting SKU to help system integrators conveniently integrate the panel PC into their system.

Never use mounting brackets except as provided by Avalue to prevent unreliable mounting of the Medi-View AID-156. VESA mount installation should be carried out by a professional technician; please contact a service technician or your retailer if you need this service.

Installation instructions follow:

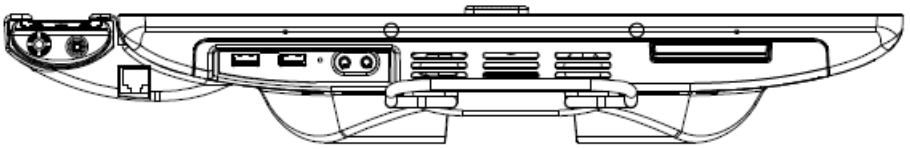
1. First attach the wall-mounting to the heat-sink of the Medi-View AID-156, securing it in place with four of the M4 x 6mm screws provided.

2. Mount the system on the wall, stand or other flat surface.



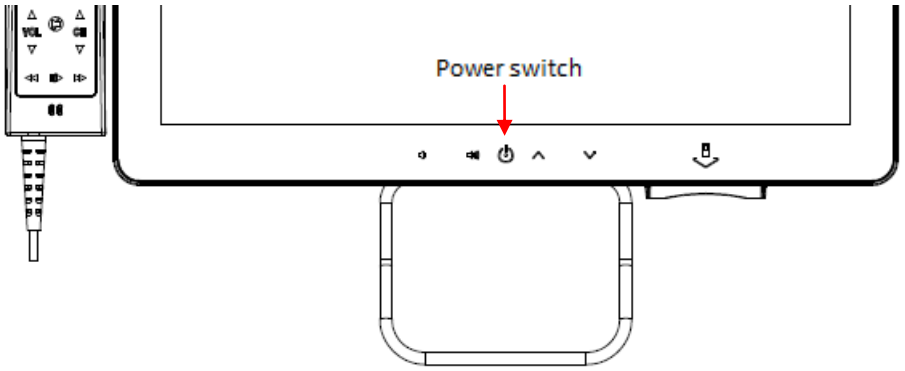
3.2 Booting up the Medi-View

Connect the male plug of the power supply to an electrical outlet.



Switching on the power

Switch on the Medi-View via the power switch on the front cover (See figure below).



3.3 Installation of HDD, SSD (optional)

CAUTION: The installation of the optional HDD and/or SSD drive should be carried out by a professional technician.

Please contact a service technician or your reseller if you need this service.

3.4 Running the BIOS setup program

BIOS setup

Your Medi-View is likely to have been properly set up and configured by your dealer prior to delivery. If you still find it necessary to use the BIOS (Basic Input-Output System) setup program to change system configuration information please contact vendor for support.

The settings you specify with the setup program are recorded in a special area of memory called CMOS RAM. This memory is backed up by a battery so that it will not be erased when you turn off or reset the system. Whenever you turn on the power, the system reads the settings stored in CMOS RAM and compares them to the equipment check conducted during the power on self-test (POST). If an error occurs, an error message will be displayed on screen, and you will be prompted to run the setup program.

3.5 Installing the drivers

Drivers

After installing the system software, you will be able to install the necessary drivers.

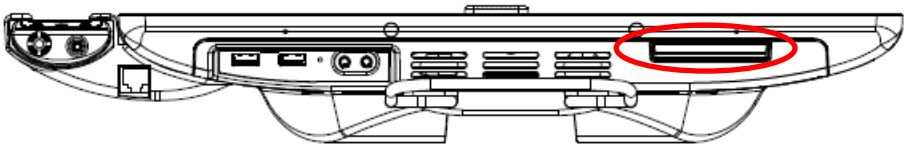
The drivers and utilities used for the Medi-View are subject to change without notice. If in doubt, check with our application engineers for the latest information regarding drivers and utilities.

4. SYSTEM OPERATION

4.1 Frequently used functions

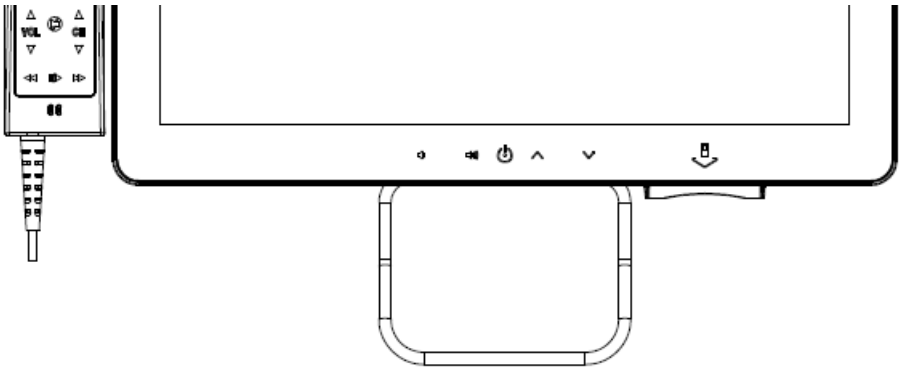
Using the Smart Card Reader (SCR)

1. Insert the card firmly into the allocated slot with the chip facing towards the front of the terminal. (See figure below). The Smart Card will be recognized by the terminal.



Using the RFID Reader

Present the card to the RFID readers by tapping and holding it briefly onto the clearly reader-marked area until the card is read.



4.2 Power on, Reset and shut down

Power on:

The following methods are available to turn on the system.

1. Connect the 19V power supply to the DC jack, the system will boot up automatically.
2. Press the power button on the front of the Terminal while the power supply has been connected.

Reset:

1. Enter the OS, select restart and the system will reboot.
2. Press the reset button located at the I/O recess. The system reset itself.

Shut down:

1. Enter the OS, select shutdown and the system will shut down.

4.3 The LED color definition

Green: Back light powered on.
Orange: Back light powered off (Stand-by mode).

5. IMPORTANT INFORMATION

5.1 Cleaning agents tested.

The Medi-View AID-156 is designed to be easily cleaned and can use the same standard cleaning solutions used by the hospitals to clean other IT Equipment. When using a cloth or similar please ensure that the cloth is damp / moist and not overly wet, and avoid applying pressure when cleaning the LCD. Cleaning on Medi-View is suggested once a week or whenever it's necessary. We have also listed a number of medical cleaning solutions we have tested to date. This is not a finite list and if there is any special requirement for cleaning solutions we will be happy to have them tested and approved by our team.

Product Model	Description	Result
Diversey Oxivir Wipes	Cleaning cloth	Pass
Actichlor Plus	Actichlor Plus tablet	Pass
Surfanios	Cleaning solution	Pass
SEPTANIOS MD	Cleaning solution	Pass
Anti-Bacterial Tablets	Anti-Bacterial Tablets	Pass
Mould & Bathroom Stain Remover	Cleaning solution	Pass
Clinell Universal Sanitising Wipes	Cleaning wipe	Pass
VIROX 5 RTU	Cleaning wipe	Pass
Rescue Sporicidal Liquid	Cleaning solution	Pass
ED EVERYDAY DISINFECTANT	Cleaning solution	Pass
Clorox Professional Disinfecting Bleach Wipes	Cleaning wipe	Pass

5.2 Safety information

General recommendations

Read the safety and operating instructions before operating the device. Retain 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

- Do not modify this equipment without authorization of the manufacturer.
- No user-serviceable part inside. The equipment should be opened only by qualified service personnel.

Safety instructions

- The equipment must be powered using the delivered medical approved DC power supply only.
- The medical approved DC power supply must be powered by the AC mains voltage (protective earth terminal).

1. **To avoid the risk of electric shock, this equipment must only be connected to a supply mains with protective earth.**
2. **Caution: This adaptor EDAC/EM11013C is a forming part of the medical device**

- Make sure the voltage of the power source is correct before connecting the equipment to the power outlet.
- Position the power cord so that it is not a hazard. Do not place anything over the power cord.
- If the equipment is out of use for an extended period, make sure to disconnect it from the power source to avoid damage in the event of a power surge.
- Earth the Medi-View 1 by connecting the protective earth pin to a grounded outlet by means of the sup- plied wire.
- If one of the following situations arises, ensure you get the equipment checked by service personnel:
  a) The power cord or plug is damaged.
  b) The equipment has been exposed to moisture.
  c) The equipment is not functioning properly, or you cannot get it to work according to the user manual.
  d) The equipment has been dropped and damaged.
  e) The equipment has obvious signs of breakage.
- To disconnect the device: Remove the rear power supply power connection.
- If your computer is losing time or the BIOS configuration resets to default settings, the battery most likely has no power.
- Do not replace the battery yourself. Please contact a qualified technician or your supplier of the Medi-View. The Medi-View is provided with a battery-powered real-time clock circuit. There is a danger of leakage or explosion if the battery is incorrectly replaced. Replace only with same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.
- Place the terminal on a stable surface that can support the weight of at least 4 terminals or hang from a reliable structure during installation. Dropping the equipment is likely to cause serious injury to a child or adult, and serious damage to the equipment.
- Improper installation of VESA mounting can result in serious personal injury! Use a VESA mounting

solution that can support a weight of at least 10kg. VESA mount installation should be carried out by a professional technician. Please contact the service technician or your reseller if you need this service.

- Keep this equipment away from excessive humidity.
- Do not pour any liquid into the vents on the terminal. This may cause fire or electrical shock.
- The vents on the enclosure are for air convection and protect the equipment from overheating. Do not cover the vents.
  When installing the terminal in a cupboard or another closed location, heed the necessary space between the set and the sides of the cupboard.
- Do not leave this equipment in an uncontrolled environment where the storage temperature is below -20 °C or above 60°C. This may damage the equipment.
- Equipment not suitable for use in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide.
- For more information about recycling of this product, please contact your local city office, your municipal waste disposal service or the shop where you purchased the product.
- This equipment is not intended to be used in life support systems, operating rooms or for diagnostic purposes.
- External equipment intended for connection to signal input/output or other connectors, shall comply with relevant UL / IEC standard (e.g. UL 1950 for IT equipment and ANSI/AAMI ES 60601-1: 2005 AND CAN/CSA-C22.2 No. 60601-1:08 / IEC 60601 series for systems – shall comply with the standard IEC 60601-1-1, Safety requirements for medical electrical systems. Equipment not complying with UL 60601-1 shall be kept outside the patient environment, as defined in the standard."

Type of protection (electrical):

Display with external power supply: Class I equipment.

Degree of safety (flammable anesthetic mixture):

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

Non-patient care equipment

- Equipment primarily for use in a health care facility that is intended for use where contact with a patient is unlikely (no applied part).
- The equipment may not be used with life support equipment.
- The user is not supposed to touch SIP/SOPs and the patient at the same time.

Power connection – Equipment with external 120Vac~240Vac Power input

- Power requirements: The equipment must be powered using the delivered medical approved 120Vac~240Vac AC Input.
- The medical approved DC (⎓) power supply must be powered by the AC mains voltage.
- The power supply is specified as a part of the ME equipment or combination is specified as a ME system.
- To avoid the risk of electric shock, this equipment must only be connected to a supply mains with protective earth.
- The equipment should be installed near an easily accessible outlet.
- The equipment is intended for continuous operation.

Transient over-voltage

If the device is not used for a long time, disconnect it from the AC inlet to avoid damage by transient over-voltage.

To fully disengage the power to the device, please disconnect the power cord from the AC inlet.

Power cords:

- Utilize a UL-listed detachable power cord, 3-wire, type SJ or equivalent, 18 AWG min., rated 250 V min., provided with a hospital-grade type plug 5-15P configuration for 120V application, or 6-15P for 240V application.
- Do not overload wall outlets and extension cords as this may result in fire or electric shock.
- Mains lead protection (U.S.: Power cord): Power cords should be routed so that they are not likely to be walked upon or pinched by items placed upon or against them, paying particular attention to cords at plugs and receptacles.
- The power supply cord should be replaced by the designated operator only at all time.

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.

This apparatus conforms to:

ANSI/AAMI ES 60601-1:2005; CAN/CSA-C22.2 No.60601-1:08; FCC-Class A; CE

5.3 Environmental information

Disposal Information

Waste Electrical and Electronic Equipment

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. For details, please visit the Remedi website at: http://www.remedi-tech.com/

Disposal of batteries in the product

This product contains batteries covered by the Directive 2006/66/EC which must be collected and disposed of separately from municipal waste.

If the battery contains more than the specified values of lead (Pb), mercury (Hg) or cadmium (Cd), these chemical symbols will appear below the crossed-out wheeled bin symbol.

By participating in separate collection of batteries, you will help to ensure proper disposal and to prevent potential negative effects on the environment and human health.

Turkey RoHS compliance

Türkiye Cumhuriyeti: AEEE Yönetmeliğine Uygundur. [Republic of

Turkey: In conformity with the WEEE Regulation] 中国大陆

RoHS

Chinese Mainland RoHS

根据中国大陆《电子信息产品污染控制管理办法》(也称为中国大陆 RoHS)，以下部分列出了 Remedi 产品中可能包含的有毒和/或有害物质的名称和含量。中国大陆 RoHS 指令包含在中国信息产业部 MCV 标准：“电子信息产品中有毒物质的限量要求”中。

According to the “China Administration on Control of Pollution Caused by Electronic Information Products” (Also called RoHS of Chinese Mainland), the table below lists the names and contents of toxic and/or hazardous substances that Remedi’s product may contain. The RoHS of Chinese Mainland is included in the MCV standard of the Ministry of Information Industry of China, in the section “Limit Requirements of toxic substances in Electronic Information Products”.

零件项目(名称) **Component name**	有毒有害物质或元素 **Hazardous substances and elements**					
	铅 **Pb**	汞 **Hg**	镉 **Cd**	六价铬 **Cr6+**	多溴联苯 **PBB**	多溴二苯醚 **PBDE**
印制电路配件 Printed Circuit Assemblies	X	O	O	O	O	O

零件项目(名称) **Component name**	有毒有害物质或元素 **Hazardous substances and elements**					
	铅 **Pb**	汞 **Hg**	镉 **Cd**	六价铬 **Cr6+**	多溴联苯 **PBB**	多溴二苯醚 **PBDE**
外接电(线)缆 External Cables	x	o	o	o	o	o
内部线路 Internal wiring	o	o	o	o	o	o
塑胶外壳 Plastic enclosure	o	o	o	o	o	o
电源供应器 Power Supply Unit	x	o	o	o	o	o
风扇 Fan	o	o	o	o	o	o
文件说明书 Paper Manuals	o	o	o	o	o	o
光盘说明书 CD manual	o	o	o	o	o	o
O: 表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T 11363-2006 标准规定的限量要求以下 O: Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.						
X: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T 11363-2006 标准规定的限量要求. X: Indicates that this toxic or hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363-2006						

在中国大陆销售的相应电子信息产品(EIP)都必须遵照中国大陆《电子信息产品污染控制标识要求》标准 贴上环保使用期限(EFUP)标签。Remedi 产品所采用的 EFUP 标签(请参阅实例，徽标内部的编号使用于制 定产品)基于中国大陆的《电子信息产品环保使用期限通则》标准。

All Electronic Information Products (EIP) that are sold within Chinese Mainland must comply with the “Electronic Information Products Pollution Control Labeling Standard” of Chinese Mainland, marked with the Environmental Friendly Use Period (EFUP) logo. The number inside the EFUP logo that Remedi uses (please refer to the photo) is based on the “Standard of Electronic Information Products Environmental Friendly Use Period” of Chinese Mainland.

5.4 Regulatory compliance information

Indications for use

The Medi-View is not intended to be used in patient monitoring, diagnosis, treatment, alleviation or preven- tion of diseases, injuries and handicaps.

FCC class A

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruc- tion manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

5.5 Explanation of symbols

Symbols on the device

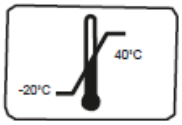
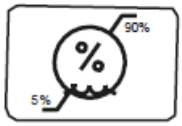
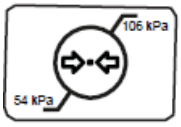
On the device or power supply, you may find the following symbols (nonrestrictive list):

	Indicates the device meets the requirements of the applicable EC directives.
	Indicates compliance with Part 15 of the FCC rules (Class A or Class B)
	Warning: dangerous voltage
	Caution
	Consult the operating instructions
	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

Symbols on the box

On the box of the device, you may find the following symbols (nonrestrictive list):

5. Values for xx and yy can be found in the technical specifications paragraph.

	Indicates a device that can be broken or damaged if not handled carefully when being stored.
	Indicates a device that needs to be protected from moisture when being stored.
	Indicates the storage direction of the box. The box must be transported, handled and stored in such a way that the arrows always point upwards.
	Indicates the maximum number of boxes to be stacked on each other.
	Indicates that the box should be carried with two persons.
	Indicates that the box should not be cut with a knife, a cutter or any other sharp object.
	Indicates the temperature limits[6] to which the device can be safely exposed when being stored.
	Indicates the range[6] of humidity to which the device can be safely exposed when being stored.
	Indicates the range[6]of atmospheric pressure to which the device can be safely exposed when being stored.

5.6 Legal disclaimer

Disclaimer notice

Although every attempt has been made to achieve technical accuracy in this document, we assume no responsibility for errors that may be found. Our goal is to provide you with the most accurate and usable documentation possible; if you discover errors, please let us know.

The specifications of Remedi products are subject to change without notice.

Trademarks

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6. Values for xx and yy can be found in the technical specifications paragrap

5.7 Technical specifications

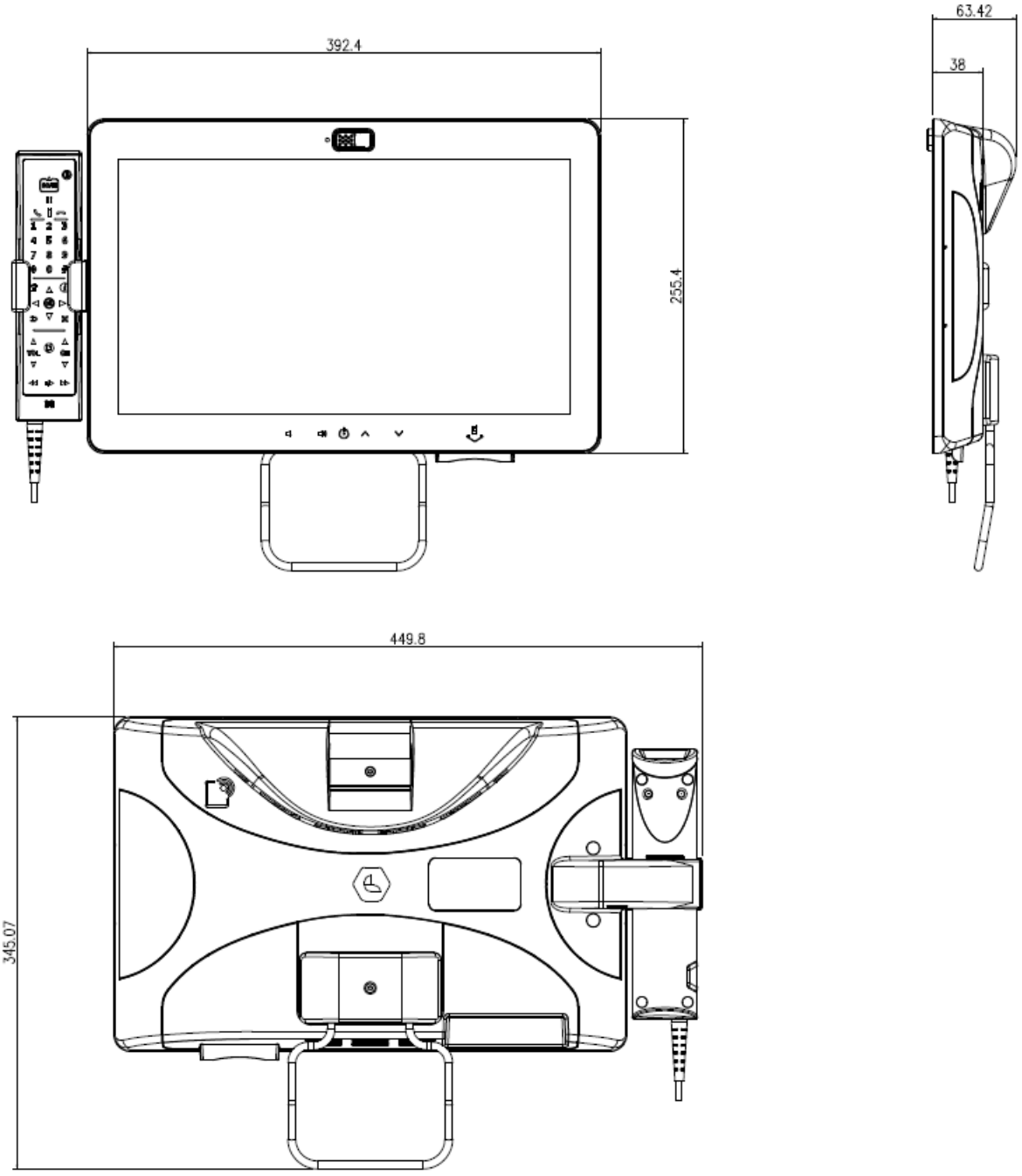
Technical specifications for the Medi-View AID-156

Component	
Mother Board	AID-156 Mother board (BCX30)
CPU	Onboard Intel® Atom™ Processor Z3735F
CPU Cooler (Type)	Passive cooling
Memory	2GB DDR3L on board
Power Supply	14~26V DC input
Adapter	AC/DC adapter 19V/4.73A
System Fan	Fanless
Microphone	1 x Mic-in and Line-out
Speaker	4ohm 3W
Camera	5.0M CMOS Camera
Wireless LAN	WIFI 802.11 a/b/g/n on board
Bluetooth	BT 4.0+class 1 on board
Operating System	Android 4.4 / Win 10 professional & Win 10 IoT (Windows BIOS: BCX30 V1.60A. i32 Image P/N: E1589185B00R R-V8HN(AID-185B)_STD Win10 IoT Ent. 2016)
Storage	
Other Storage Device	32GB eMMC on board
Panel	
LCD Panel	15.6" AUO:B156XTN02.0 220nit 1366*768
Touch Screen	15.6" PCAP
Touch Controller	EETI EXC80H4254STBG
External I/O	
USB Port	3 x USB 2.0
LAN Port	1 x LAN
Others	1 x Micro USB Client
Mechanical	
Power Type	ATX
Power Connector Type	2.5mm DC Jack
Dimension	393 x 256 x 58mm
Weight	2.82kg
Color	White
Fanless	Yes
OS Support	Android 4.4 / Win 10 professional & Win 10 IoT

Reliability	
EMI Test	CE CLASS B FCC Part 15, CLASS B IEC/EN60601-1 3rd Edition
Vibration Test	With SSD/mSATA : 1.5Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 30min/axis
Mechanical Shock Test	With CF/SSD : 10Grms, IEC 60068-2-27, Half Sine, 11ms
Drop Test	Package drop test Reference ISTA 2A, Method : IEC-60068-2-32 Test:Ed Test Ea : Drop Test 1 Test phase : One corner, three edges, six faces 2 Test high : 3 Package weight : 4 Test drawing
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Operating Humidity	0% ~ 90% Relative Humidity, Non-Condensing
Storage Temperature	-10°C ~ 60°C (14°F ~ 140°F)

Note: Specifications are subject to change without notice.

5.8 System Dimensions



Unit: mm