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Medical AI All-in-one PC USER Manual V1.3

USER MANUAL 用户手册



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User Guidelines

This document provides a comprehensive overview of the system through text and illustrations. Information is organized in sequential steps to guide users in operating the device safely and effectively.

Definitions

图示	Definitions
	<i>WARNING!</i> Indicates a potentially hazardous situation that may result in death or serious injury.
	<i>CAUTION!</i> Indicates a situation that may cause minor/moderate injury or equipment damage.
	NOTE! Provides supplementary information to optimize operations.

Safety Instructions

1	Strictly adhere to all instructions. Read safety guidelines thoroughly before use.
2	Keep this user manual for future reference. Proper use of this product requires a thorough understanding of and strict compliance with all instructions. Please adhere to all warnings and precautions stated in this manual and on the device labels.
3	Only trained technicians may perform repairs.Warning!To avoid the risk of electric shock, do not remove the device cover while the unit is operating or connected to a power outlet.
4	 If any of the following occurs, contact qualified service personnel. The power cord or plug is damaged. Liquid has entered the device. The device has been exposed to moisture. The device is not operating properly or cannot be used as described in the user manual. The device has been dropped or damaged. The device shows visible signs of damage.
5	Improper VESA mount installation may cause serious injury. Installation should be performed by qualified professionals.





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14	 When connecting to electrical equipment, the operator is responsible for ensuring that the final system complies with the requirements of the relevant standards. GB 9706.1-2020 Medical Electrical Equipment Part 1: General Requirements for Basic Safety and Essential Performance YY 9706.102-2021 Medical Electrical Equipment Part 1-2: General Requirements for Basic Safety and Essential Performance – Collateral Standard: Electromagnetic Compatibility – Requirements and Tests All configurations comply with system standard GB 9706.1-2020. Anyone connecting additional equipment to signal input or output parts of the medical system is responsible for ensuring the
15	system continues to meet the requirements of GB 9706.1-2020. If in doubt, please contact technical support or your local authority. Caution! Use proper mounting equipment to avoid risk of injury.
16	Grounding reliability can only be ensured when the device is connected to an outlet marked "Hospital Only" or "Hospital Grade."
17	Use a power cord that matches the voltage of an approved outlet compliant with safety standards in your country or region. Note! For environmental protection, dispose of the device in accordance with national regulations.
18	Warning – Do not modify this device without authorization from the manufacturer.
19	Warning – To avoid the risk of electric shock, this device must be connected to a power supply with protective grounding.
20	In the event of a serious incident, immediately contact the manufacturer and local authorities, if applicable. Consult local authorities and healthcare professionals to verify the device' s suitability and to select appropriate software and accessories.
21	It is recommended to install the suggested software. If you have any questions, please contact the manufacturer for further assistance.
22	Note: To prevent unauthorized access, it is recommended to install appropriate antivirus software or avoid connecting to unsecured external networks.
23	Note: The adapter is a component of the medical device.
24	Unplug the power cord to completely turn off the device.
25	For use in the US/Canada market, only use power cords that meet the following specifications: UL/CSA certified, minimum 18AWG, maximum length of 3m, hospital grade.



26 The device should remain upright during operation. Do not lay either side or the back of the LCD panel flat on any surface while in use.
 27 Do not touch the back of the device during operation. If necessary, limit contact to no more than one second to avoid injury. For cleaning, turn off the device before touching the back.

Explanation of Graphical Symbols

Symbols	Definitions
4	Warning: Hazardous Voltage
\triangle	Note: Refer to accompanying documents.
С U	Standby
\sim	AC (Alternating Current)
	DC (Direct Current)
Å	Equipotential
	Follow operating instructions
X	Dispose of properly according to regulations; do not discard casually.

Environmental Protection

Please follow the national/regional requirements for device disposal.

Accessories List

Before installing the medical all-in-one PC, please ensure you have received the below materials:

Medical all-in-one PC

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- Power adapter
- 4*M4x12L screws



Warning! There are no user-serviceable parts inside. Repairs should be handled by qualified personnel. Only the accessories listed above have been tested and approved for use with the device. Therefore, it is strongly recommended to use only these accessories with the specific device; otherwise, the proper functioning of the device may be affected.

Other Information and Assistance

If you need further assistance, please contact your dealer or sales representative for technical support. Before calling, have the following information ready:

- Product name and serial number
- Description of peripheral device accessories
- Your software description (operating system, version, application software, etc.)
- A full description of the issue
- The exact wording of any error messages
- The device is a source of electromagnetic waves. Before use, ensure there are no nearby EMI-sensitive devices that may not function properly.

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One Product Brief

1.1 Product Introduction

The MSC-2401 is a medical all-in-one device designed for healthcare applications, featuring an Intel® Core[™] i9, i7, or i5 processor. It is a PC-based system equipped with a 23.8-inch widescreen TFT LCD display, HDMI, and 2 LAN connections. The device includes 1 USB 3.0, 3 USB 2.0 ports, and 1 Line Out + Mic (4-segment 3.5mm). Additionally, it can be equipped with an optional 2.5-inch SSD storage device. **Intended Use:** The MSC-2401 is designed for medical imaging AI analysis, serving as an accessory for CT, ultrasound, endoscopy, and other medical devices. It is used to perform AI analysis on captured images, assisting doctors in reviewing images, improving efficiency and quality, and empowering healthcare professional.

1.2 Specifications

Model		MSC-2401
Configuration	Specification	Description
	Model	LM238WR2
	Panel Type	IPS
	Backlight Type	LED
	Color Bit	10bit
	Dimensions	544.7(H)*323.2(V)*13.8(D)mm(Typ.)
	Display Size (H*V)	525.66(H)*295.70(V)mm
	Resolution	3840*2160
Display	Brightness	540cd/m2(Center 1 Point, Typ.)
	Color Temperature	6500K
	Contrast (static state)	1200:1
	Chromatic Number	1.07B
	Color Gamut (DCI-P3)	98%
	Response Time	14ms
	Pixel Pitch	0.2745(H)*0.2745(V)mm



	Frame Frequency	60Hz				
	View Angle	R/L 178(Typ.) U/D 178(Typ.))				
	Curvature	N/A				
	Touch Panel	10 point projected capacitive touch panel				
	CPU	Intel 13 th Raptor Lake-H i5/i7/i9				
	CPU	i5-13500H	i7-13700H	i9-13900H		
	Core Number	12	14	14		
	Base Frequency	3.5GHz	3.7GHz	4.1GHz		
СРО	Max. Speed	4.7GHz	5.0GHz	5.4GHz		
	L2 Cache	18MB	24MB	24MB		
	TDP (W)	45W	45W	45W		
	BIOS	256Mb SPI FLASH (128Mb compatible)				
	Туре	DDR5 5200MH				
Memory	Max. Capacity	64GB				
	Socket	1*SO-DIMM				
Expansion Slot	M.2 1*M.2 Key-M(2242/2280) for PCIe x4 1*M.2 Key-B (3042 /3052) for 4G/5G 1*M.2 Key-E(2230) for WIFI 1*M.2 Key-M(2242/2280) for PCIe x4 SDI Capture Ca		pture Card			
	SIM	1*SIM				
Storage	SATA	1*SATA3.0				
	Controller	ALC897				
Audio	Rear I/O	1*Line Out 1*MIC In				



	I/O	1*HDMI(From CPU)			
GPU	Resolution	4096*2160@60Hz			
	Graphics Card (Optional)	RTX3080m 16G RTX3060m 6/12G (support NVIDIA GeForce/Quadro series GPU)			
USB	Rear I/O	1*USB3.0 3*USB2.0 2*USB3.0 aviation port(Optional)			
	Controller	Intel® Ethernet Controller i225-AT			
Ethernet	Rear I/O	2*RJ45 10/100/1000M			
	Function	Support wake up and PXE			
Front Panel	Function	MENU, Lighting Switch, +/-, Esc, Power Indicator, LCD off			
Buttons	Language	Chinese/English (language can be customized)			
Back Panel Buttons	Rear I/O	2* Power Button 1* Reset Button			
	LED	LED Light Bar(Optional)			
Others	2D Scanner	2D Scanner(Option)			
	Power Type	1*DC In(4P In)			
Power Supply	Output Voltage	100~240Vac 50~60Hz、5.0A			
	Input Voltage	24V 12.5A(300w)			
	Working Temperature	-10~35°C at 0.7m/s air flow			
Environment	Storage Temperature	-20~70℃			
	Working Humidity	20~80%@40°C(non-condensing)			
	Storage Humidity	10~90%@40°C(non-condensing)			
	Altitude	≤2000m			
Oppration System	Microsoft	Windows 10、Windows 11			
Operation System	Linux	Support			



	Dimension	566(L)*375.5+95(W)*240(D)mm
Physical	Net Weight	~10 kg (15.43 lb)
	Color	White
Certificate	Medical Certificate	GB9706.1、GB9706.102
Structure	Enclosure	Antibacterial plastic enclosure
	Base	Lifting and rotating base
	Package	High-strength, eco-friendly material package, one unit per box
	Gross Weight	~10kg
	Wall Mounting	VESA holes 100*100mm(Optional)
	Screws	(Optional)
	Base tilt adjustment (forward and backward)	forward and backward support
	Base height and swivel adjustment (travel and angle)	Support

1.3 Optional Configuration

Options	Specification
RAM	Up to 64GB DDR5 SO-DIMM
Touch Panel	Anti-flare / Anti-reflection touch panel
Auxiliary SSD	2.5" SSD



1.4 Photos





Two Installation Instructions

2.1 Ports/Size

When installing the device, refer to this diagram and carefully read the instructions below. Handle all components with care—improper installation of certain parts may result in device malfunction.







Back View



2.2 Pront Panel Button Functions

	lcon	Button	Definition
	00 04	MENU	Press the Menu button to open the OSD menu. It also functions as the confirmation key for submenu selection.
00		UP	(In desktop mode, press to toggle the lighting on/off) — functions as the up navigation key within the menu.
		DOWN	Down button in the menu
	Į	ESC	(In desktop mode, press to quickly switch input signals) — functions as the return and exit key within the menu.
	0	Status Indicator	A green light indicates normal display; a red light indicates no signal or monitor standby.
	U	Power	Press once to turn off the LCD screen; press and hold for 2 seconds to turn it back on.

2.3 Back Panel IO Functions



- 1. Connect the power adapter to the power input port, ensuring the correct orientation.
- 2. The power switch is the main system switch. After connecting power, press the switch to start the system, then use the front panel LCD power button to turn on the display (refer to Front Panel Button Functions).



2.4 Installation Instructions



lcon	Description
1	2.5 HDD Cover
2	M4 screw
3	Captive pressure rivet screw
4	Self-locking module
5	Lifting and rotating base

Configurations	Description
Lifting and rotating base	Remove the four screws at ② to take off the lifting bracket and base at ⑤.
Host Pull-Out Tray	First, loosen the two captive pressure rivet screws (③), then press the self-locking module (④) and pull the two handles to release.
HDD	When removing the back cover, be sure to remove the hard drive at position ①.



2.5 Cleaning and Disinfection

During regular use of the medical all-in-one device, the equipment may accumulate dust or dirt and should be cleaned on a routine basis.

Steps	Note
1	Prepare mild cleaning solvents
2	Use a clean cloth dampened with an appropriate cleaning solution to wipe the surface of the all-in-one device.
3	Use a clean, dry cloth to wipe the surface.

Caution!

-- Do not immerse or rinse the all-in-one device or its peripherals. If liquid is spilled, unplug the device and contact IT support before reuse.



-- Do not spray cleaners directly on the chassis.

-- Avoid disinfectants containing phenol.

-- Do not use strong solvents (e.g., aromatic hydrocarbons, chlorinated compounds, ketones, ethers), sharp tools, or abrasives. Never immerse connectors in water or any liquid.

2.6 Working Principle

The device accepts input via the touch panel, USB, or LAN connection. Input data is received by the processing unit and then output through I/O ports or LAN to the LCD panel, accessories, or other connected devices. The device is capable of local data storage and can retain data in its memory unit even when powered off.

2.7 Connecting Power Cable

lcon	Steps	Note
	1	Connect the female end of the power cord to the AC adapter.
Step 2 Step 1 Step 1	2	Plug the 3-prong male connector of the power cord into a power outlet.



2.8 Conntecting DC-In

Connect the DC output plug of the AC adapter to the DC-IN port of the medical all-in-one system. Ensure the adapter is securely inserted into the DC-IN connector.



Caution! The DC-IN plug of the adapter has a specific orientation. Please align the plug correctly with the DC-IN connector.



Warning! Inserting the DC-IN plug incorrectly may damage the medical all-in-one system or the adapter.



Caution! The adapter's DC-IN plug must be properly and securely connected to the medical all-in-one system (as shown below), with no gaps between them.

Right way for DC-In connection	Gap-free DC-IN connection

2.9 Connect the Grounding Pin

lcon	Steps	Description
	1	After the system is ready, locate the grounding screw on the back of the medical all-in-one device.
	2	Connect the grounding cable and the other terminal to the hospital grounding/earthing system.



Three BIOS Setup

AMI BIOS Refresh

RefreshThe BIOS provides low-level hardware drivers and acts as a bridge between hardware and the operating system. As hardware and software applications are constantly updated, you may need to update your BIOS when issues arise, such as the system not supporting the latest CPU.

Note:

- 1. 1. Only update the BIOS when necessary, such as when encountering system issues.
- 2. 2. Do not power off or restart the system during the update process to avoid BIOS
- 3. corruption and potential system failure.
- 4. 3. To prevent data loss, back up the current BIOS before proceeding with the
- 5. update.

AMI BIOS Description

During startup, the BIOS performs self-diagnosis on the motherboard hardware, configures hardware timing parameters, and finally hands over control to the operating system. Correctly configuring BIOS settings is crucial for system stability and optimal performance.

Accessing BIOS Settings:

When the computer starts, after completing the self-diagnosis, a message like "Del->SETUP" will appear on the screen. Press the Del key at this point, and once the BIOS finishes detecting IDE and other devices, it will automatically enter the SETUP screen.

- 1. Turn on the system or restart it. The monitor will display self-test information.
- 2. When the prompt "Press to enter setup" appears in the middle of the screen, press Del to access the BIOS setup utility.
- 3. Use the arrow keys to navigate to the option you want to modify, then press Enter to access its submenu.
- 4. 4.Use the arrow keys and Enter to adjust values and select BIOS



Four Notice

General Safety Guidelines

For your safety and the safety of the device, always observe the following precautions. Unplug the power cord from the computer by pulling the plug (not the cord) if any of the following occur:

- The power cord or plug is worn or damaged.
- Something has been spilled inside the enclosure.
- The computer has been dropped or the casing is damaged.
- You suspect the computer requires service or repair.
- You want to clean the computer or screen.
- You want to remove or install any components.

Cooling

The ventilation holes on the back cover allow cooling airflow to remove heat. Do not block these vents with soft materials.

The metal heat sink may become hot during use. Avoid touching the back while operating. If necessary, touch briefly (less than one second) to prevent injury. Always turn off the device before cleaning the back.



Warning! Do not place the medical all-in-one device on pillows or other soft materials while it is turned on, as this may block airflow and cause overheating. The device should remain upright during operation. Do not lay the LCD panel, any side, or the back flat on any surface while operating.

Power Disconnection

The only way to completely disconnect power is to unplug the power cord. Ensure that at least one end of the power cord is easily accessible so you can unplug the device when needed.



Warning! Your AC power cord is equipped with a three-prong grounding plug (which has a third grounding pin). This plug must be used only with a properly grounded AC outlet. If you cannot insert the plug because the outlet is not grounded, contact a licensed electrician to replace the outlet with a properly grounded one. Do not defeat the purpose of the grounding plug.



Warning!

Do not insert objects into openings of the device. This may cause fire or electric shock. Do not place items on the chassis before powering off. Only open the computer if all parts are installed. Operating with open or missing parts is dangerous and may cause damage.



Appendix

Appendix 1: Indicators and Manufacturer's EMC Statement

1. Electromagnetic emissions for all devices and systems

Emission Test	Compliance	Electromagnetic Environment Guidance
Radiated Emission GB4824	1 Group	Only internal function frequency energy is used. Therefore, its radiated emission is very low, and the possibility of causing interference to nearby electronic equipment is very small.
Radiated Emission GB4824	Class A	
Conducted Emission GB17625.1	Class A	Suitable for use in all facilities (residential facilities).
Conducted Emission GB17625.2	Compliant	

2. Electromagnetic Immunity for All Equipment and Systems

Immunity Test	YY0505 Test Standard	Compliance	Electromagnetic Environment Guidance
Electrostatic Discharge GB/T17626.2	±6kV Contact ±8kV Air	±6kV Contact ±8kV Air	Ground should be wood, concrete, or ceramic. If the ground is composite or synthetic material, humidity should be \geq 30%.
Electrical Fast Transient/Burst GB/T17626.4	±2kV Power Supply Lines	±2kV Power Supply Lines	Network power supply is a typical commercial or hospital power environment quality.
Surge GB/T17626.5	±1kV Differential Mode ±2kV Common Mode	±1kV Differential Mode ±2kV Common Mode	Network power supply is a typical commercial or hospital power environment quality.
Voltage Dips and Interruptions on Power Supply Input Lines GB/T 17626.11	<5% UT, 0.5 cycles (at UT, >95% voltage dip) 40% UT, 5 cycles (at UT, 60% voltage dip) 70% UT, 25 cycles (at UT, 30% voltage dip) <5% UT, 5 s (at UT, >95% voltage dip)	<5% UT, 0.5 cycles (at UT, >95% voltage dip) 40% UT, 5 cycles (at UT, 60% voltage dip) 70% UT, 25 cycles (at UT, 30% voltage dip) <5% UT, 5 s (at UT, >95% voltage dip)	The mains power should be of typical quality as used in commercial or hospital environments. If continuous operation during power interruptions is required, it is recommended to use an uninterruptible power supply (UPS) or battery power.
Industrial Frequency Magnetic Field (50Hz /60Hz) GB/T 17626.8	3A/m	3A/m	Industrial frequency magnetic field is typical in commercial or hospital environments with strong industrial magnetic field interference.

Note: UT refers to the AC mains voltage prior to the application of the test voltage.



3. Electromagnetic Immunity for Non-Life-Supporting Equipment and Systems

Immunity Test	YY9706.102 Test Standard	Compliance Level	Electromagnetic Environment — Guidance
			Portable and mobile RF communications equipment should not be used closer to any part of the device, including cables, than the recommended separation distance calculated using the formula appropriate for the transmitter frequency:
			d =1.2 d =1.2
Conducted RF GB/T 17626.6	3V(rms) 150kHz-80MHz	3V(rms)	80MHz -800MHz
Radiated RF GB/T 17626.3	3V/m 80MHz-2.5GHz	3V/m	d =2.3 800MHz - 2.5GHz P — maximum rated output power of the transmitter in watts (W) according to the transmitter
			 (w) according to the transmitter manufacturer; d — recommended separation distance in meters (m) Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, should be less than the
			frequency range. If abnormal performance is observed, it may
			be necessary to reposition the device, such as changing its orientation or location.

Note: At 80MHz and 800MHz, the higher frequency formula applies.

- 1. Field strength from fixed transmitters such as base stations for radio (cellular/cordless) telephones, land mobile radios, amateur radio, AM/FM radio broadcasts, and TV broadcasts cannot be predicted theoretically with accuracy. To assess the electromagnetic environment in relation to fixed RF transmitters, an electromagnetic site survey should be conducted. If the measured field strength at the device location exceeds the applicable RF compliance level, verify whether the device operates normally. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the device.
- 2. Over the frequency range 150kHz to 80MHz, field strengths should be less than 3V/m.



4. Recommended Separation Distances

It is intended that the equipment be used in an electromagnetic environment controlled for radiated RF disturbances. Based on the maximum rated output power of the communication equipment (transmitter), purchasers or users can use the table below to determine the minimum recommended separation distance between portable and mobile RF communication devices (transmitters) and this equipment, in order to prevent electromagnetic interference.

Recommended separation distances between portable and mobile RF communication devices and the equipment:

Maximum Rated Output	Separation Distance by Frequency / m			
Power of Transmitter (W)	150 kHz - 80 MHz d =1.2	80MHz -800MHz d =1.2	800 MHz-2.5GHz d =2.3	
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	

The recommended separation distance d (in meters) for transmitters with a maximum rated output power not listed in the table can be calculated using the appropriate formula based on the transmitter frequency. Here, P is the maximum rated output power of the transmitter in watts (W) as specified by the manufacturer.

Note:

At 80 MHz and 800 MHz, the higher frequency range formula is applied.

These guidelines may not apply to every situation. Electromagnetic propagation is affected by

absorption and reflection from buildings, objects, and people.



Appendix II: Glossary

ACPI (Advanced Configuration and Power Interface)

A specification that allows the operating system to manage power usage of the computer and peripheral devices.

BIOS (Basic Input/Output System)

Firmware stored in a ROM chip that initializes hardware during startup and provides an interface between the OS and hardware.

BUS

A set of hardware lines used for data transfer between components, typically referring to internal connections between the CPU and memory.

Chipset

An integrated set of chips (usually Northbridge and Southbridge) that determines the motherboard architecture and main functions.

CMOS (Complementary Metal-Oxide-Semiconductor)

A type of semiconductor known for high speed and low power consumption; CMOS RAM stores system settings such as time and configuration.

COM Port

A standard serial communication interface, typically using a DB9 male connector.

DIMM (Dual In-line Memory Module)

A small circuit board with memory chips, offering a 64-bit data path.

DRAM (Dynamic Random Access Memory)

The most common system memory type in computers, storing data using a transistor and capacitor. Variants include SDRAM, DDR SDRAM, and RDRAM.

LAN (Local Area Network)

A network of computers within a limited area such as an office or building, enabling resource sharing and data exchange.

LED (Light Emitting Diode)

A semiconductor device that lights up when current passes through it, often used for power and activity indicators.

I²C (Inter-Integrated Circuit)

A two-wire serial bus developed by Philips, used to connect microcontrollers to peripheral devices.



PnP (Plug and Play)

A specification that allows the PC to automatically configure connected devices without user intervention. BIOS support and a compatible expansion card are required.

POST (Power-On Self-Test)

A diagnostic process run by the BIOS during system startup to check hardware components such as RAM, keyboard, and hard drive for proper function and connection.

PS/2

An interface standard developed by IBM for connecting keyboards and mice. The PS/2 port is a 6-pin DIN connector, also used for other devices like modems.

USB (Universal Serial Bus)

A hardware interface for connecting low-speed peripherals such as keyboards and mice. A PC can support up to 127 USB devices with a data rate of 12 Mbit/s. USB supports hot-plugging and multiple data streams, allowing devices to be connected and recognized while the system is running.



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