

NuboMed | 诺博医疗



# NUBOMED X Series Intelligent Mobile Cart

NuboMed

ShenZhen · HeFei · California, USA

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## Statement

Thank you for purchasing the X Series Intelligent Mobile Cart by NuboMed.

Before operating this product , please read this manual carefully. Special attention should be paid to for your safety.

This general manual is suitable for all models of the X Series Intelligent Mobile Cart . Please use and maintain the equipment according to the instruction in this manual. Equipment repair can only be carried out by NuboMed personnel or its authorized service personnel.

As the products are constantly updated, NuboMed retains the right to change the technical specifications without notice.

If you feel that our equipment has room for improvement, or you have any comments or suggestions on our products, please feel free to share them with us at any time. We will answer your questions with the up most sincerity and resolve your problems as soon as possible.

NuboMed

October , 2019

## 1. Introduction of X Series Products

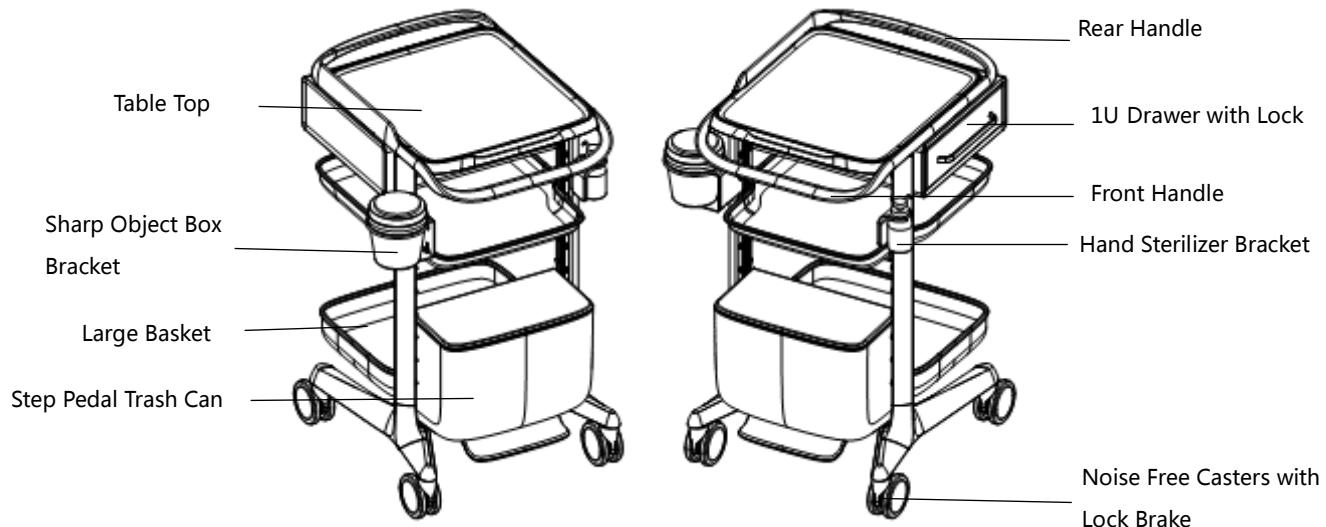
NuboMed's new X Series Intelligent Mobile Cart continues the tradition of S Series, and provides visible improvement for medical staff and clinical environment while focusing on different scenarios of clinical use. X Series is an era crossing product of Nursing 2.0 in the true sense. An all around nursing cart that achieves full closed-loop medication management, so that medical staff can embrace technology and return to the bedside.

X Series is categorized into X1000, X2000, X3000, X4000, X5000, a total of five different models.

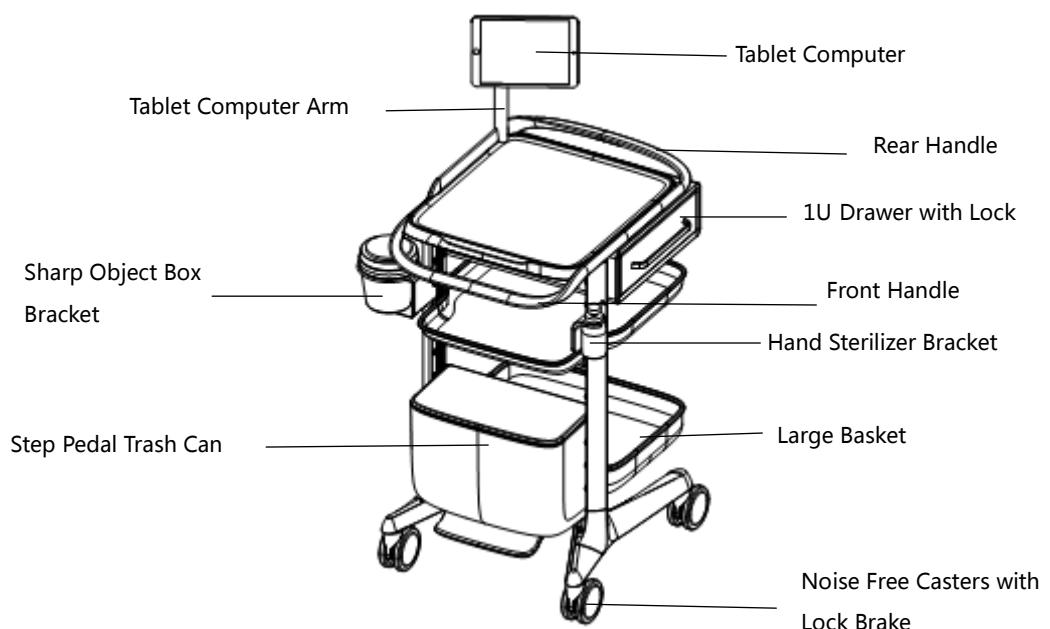
## 2. Product Specification

### 2.1 Physical Structure

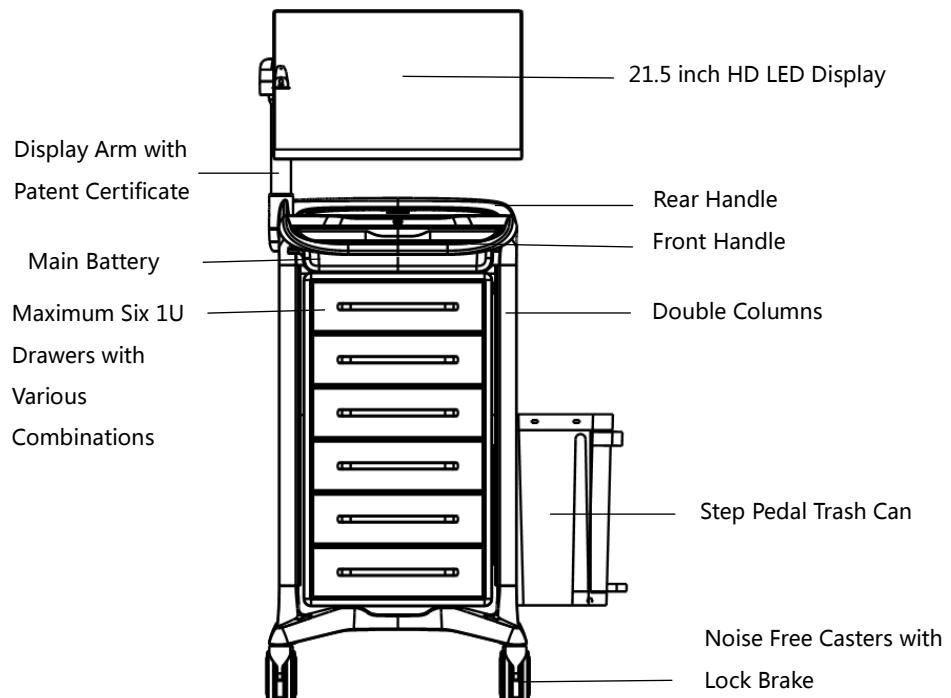
#### X1000 Mobile Cart :



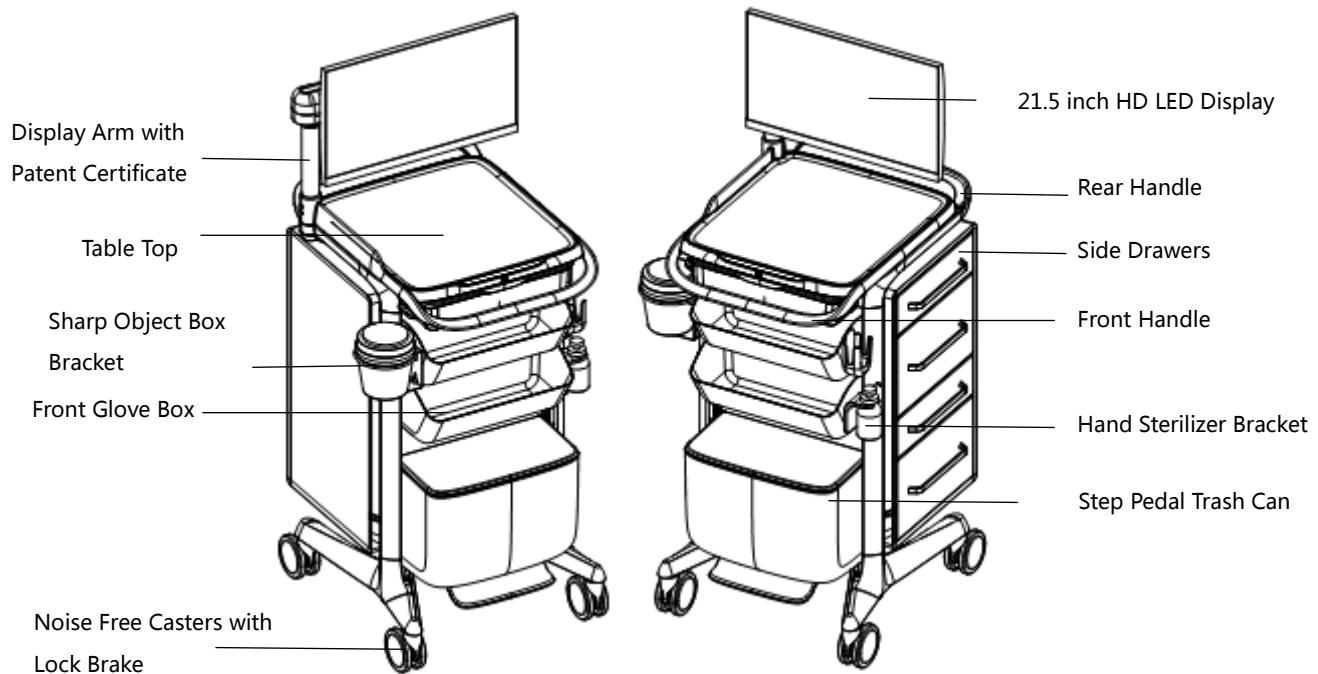
#### X2000 Mobile Lite Cart :



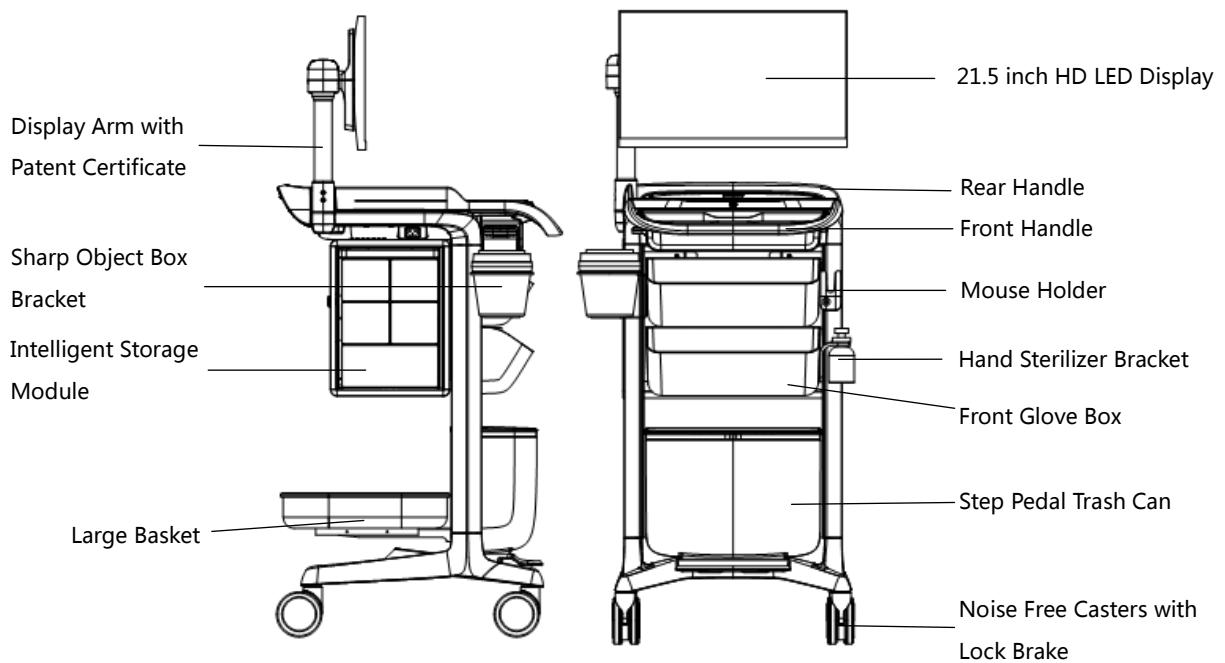
## X3000 Mobile Lite Cart :



## X4000 Advanced Mobile Cart :

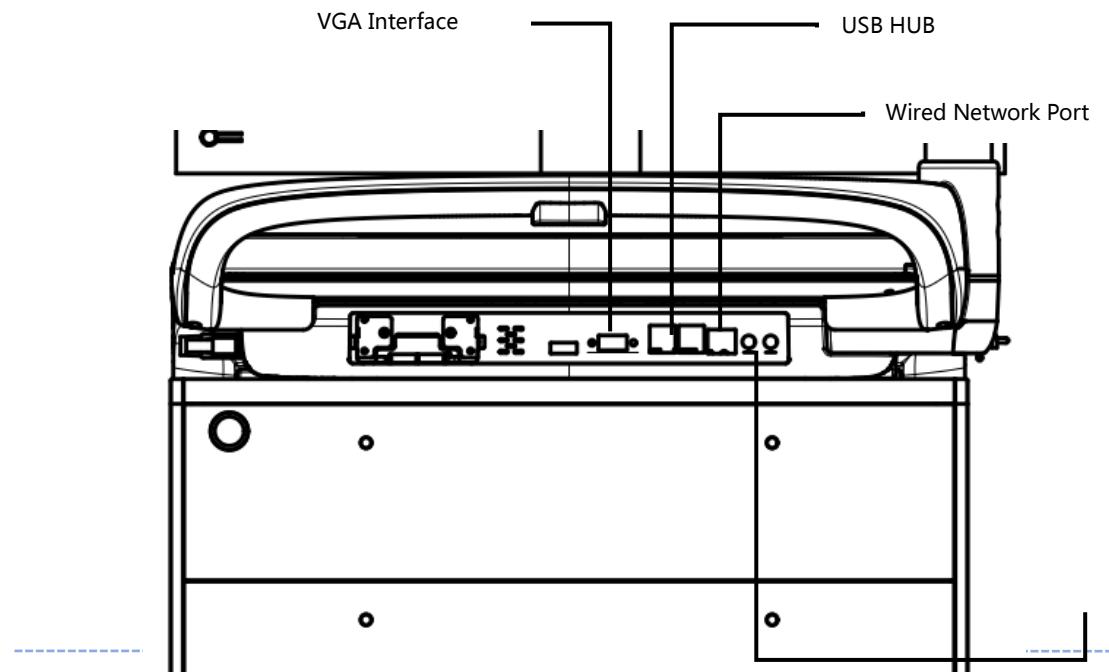


## X5000 Intelligent Mobile Cart :



Note: As the product will be partially adjusted to meet the needs of the hospital, the physical objects may not be completely consistent with the above illustrations in the manual.

## 2.2 Back End of the Desktop



## 2.3 Detail Specification

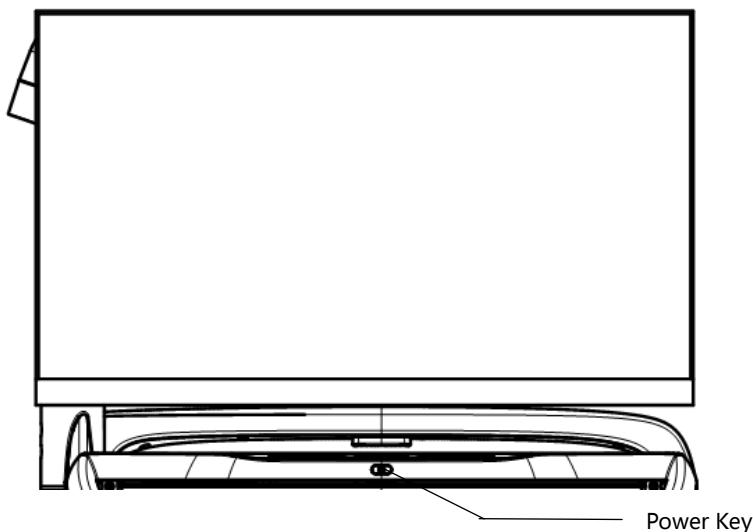
Microphone Jack  
Headphone Jack

<b>Physical Specification</b>	
<b>Dimension</b>	X1000 : Length*Depth*Height : 616*623*948 mm  X2000 : Length*Depth*Height : 616*623*948 mm  X3000 : Length*Depth*Height : 713*635*1392 mm  X4000 : Length*Depth*Height : 529*846.8 *1392 mm  X5000 : Length*Depth*Height : 529*850*1392 mm
<b>Computer Configuration ( X3000、X4000、X5000 )</b>	
CPU	Intel Core i5 CPU (Upgradable to i7 CPU) ;
Network card	Intel series , Support 802.11b/g/n , Optional ac ,  Compatible with All Netcom 4G ;
RAM	4G ( Upgradable to 8G ) ;
Hard disk	128G ( Upgradable to 256G ) Solid State Disk
System	Win7/10
Monitor	21.5 inch LED display, Resolution : 1920 x 1080 ,  Response time : 5ms ;

In/Out Interface	Wired Network x1 , Headphone x1 , Mic x1 , VGAx1 , USB 3.0x2 , USB 2.0x5 , RS-232 x2
<b>Power Parameter ( X2000、X3000、X4000、X5000 )</b>	
Power Input	AC100-240V, 2A, 50-60Hz
Rated Power	120W
Duration	≥9h
24-Hour Uninterrupted Power Support	Dual battery design, supports optional hot swappable auxiliary battery

## 3. Operating Instructions

### 3.1 Power On/Off Instruction



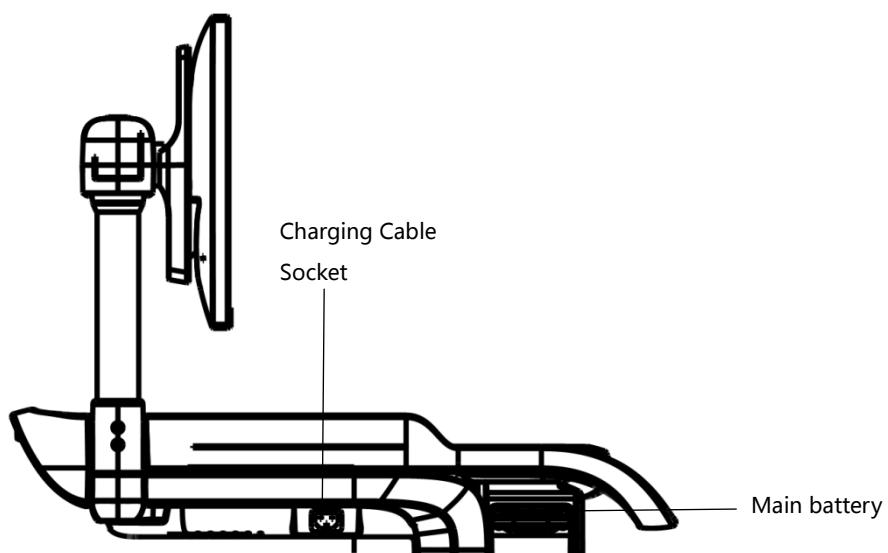
**Turn on/off** : Beneath the desktop smart power panel, “” switch key.

**Turn on** : Press the button for 3 seconds then release to turn on the system (power up the computer, power system and LED display), power panel indicator will light up;

**Turn off** : When the OS is shut down, the computer, LED display and power system will all shut down automatically. Alternatively, pressing the power key for more than 3 seconds will force shut down the system.

Note: Power switch instructions are applicable to X2000/X3000/X4000/X5000

## 3.2 Charging Instruction

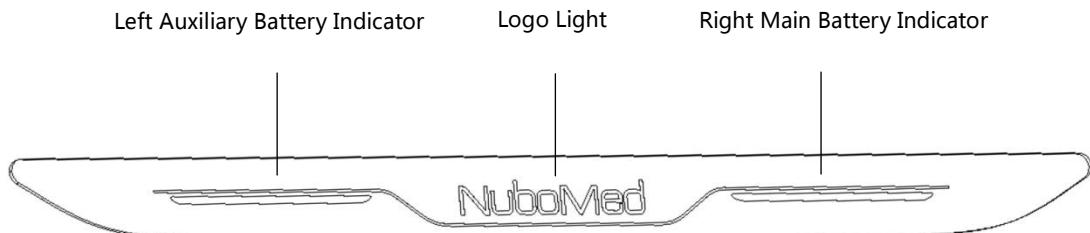


**Charging** : Take out the charging cable, insert the plug into a wall socket, and the system will start charging.

Note: Charging instructions are applicable to X2000/X3000/X4000/X5000.



## 3.3 Power Display Panel



**Logo Indicator** : Indicate that the computer and power system is on when lit ;

**Right Indicator** : Main battery power indicator light;

**Left Indicator** : Auxiliary battery power indicator light (if no auxiliary battery is inserted, the default is to show the main battery power just like the right indicator);

**System ON and Discharging** : The logo indicator stays lit, and the left and right lights are on to display the power of the main and auxiliary batteries;

**While Charging** : Left and right indicator shows running lights for the 4 segments while charging; When charging is completed, the left and right lights will stay lit ;

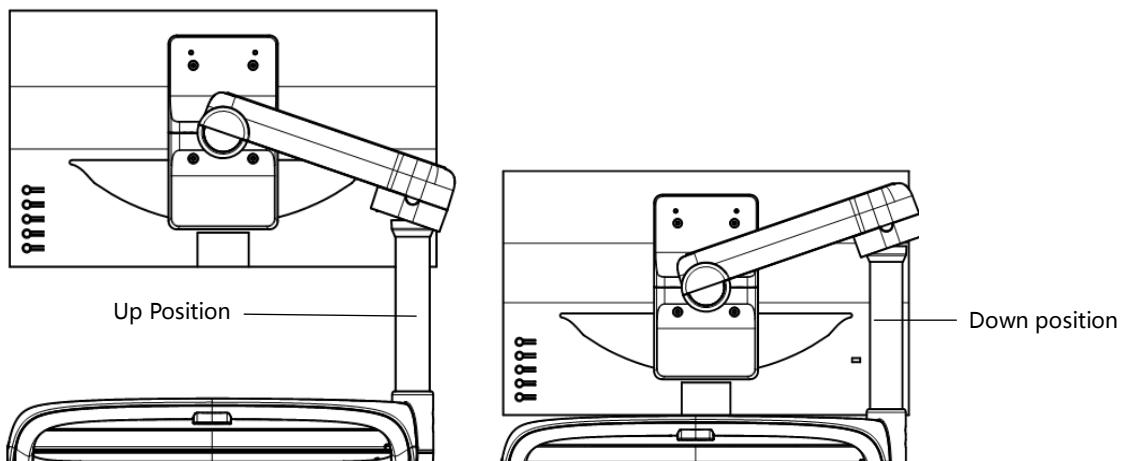
**Power Indication** : The left and right lights shows the remaining power and stay lit. If no auxiliary battery is not present, both indicators shows the power for the main battery;

**When power is less than 20%** : Logo light stays lit, and left and right indicators are in orange color.

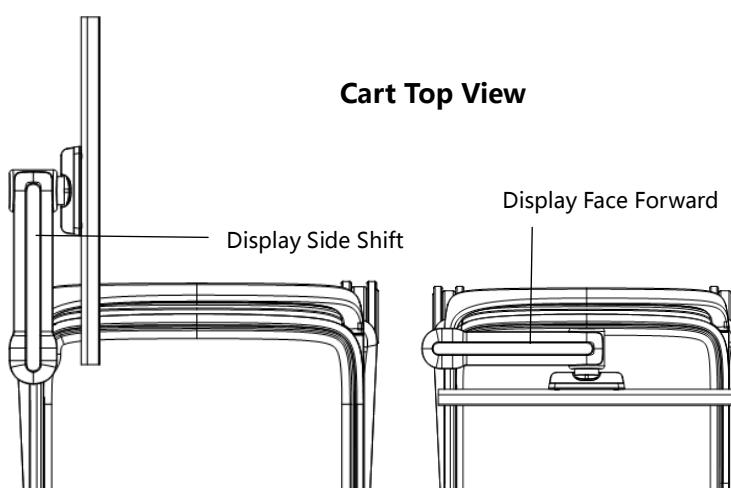
**When power is less than 12% :**Logo light blinks, and left and right indicators are in orange color.

Note: Display panel is applicable to X2000/X3000/X4000/X5000

## 3.4 Display Arm Angle Adjustment

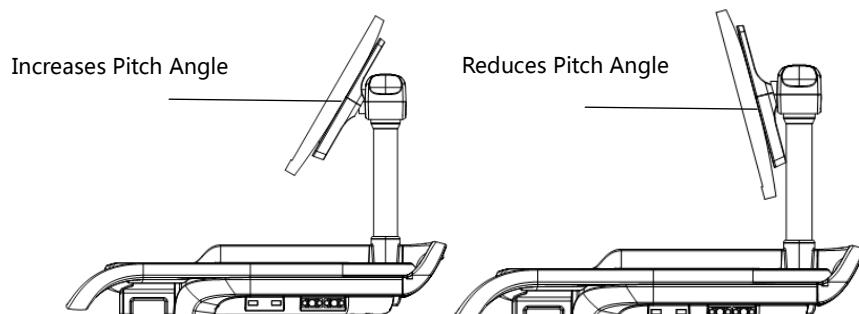


**Display Up and Down :** Hold the edge of the monitor tightly with both hands and adjust it up and down until it meets the height requirement.

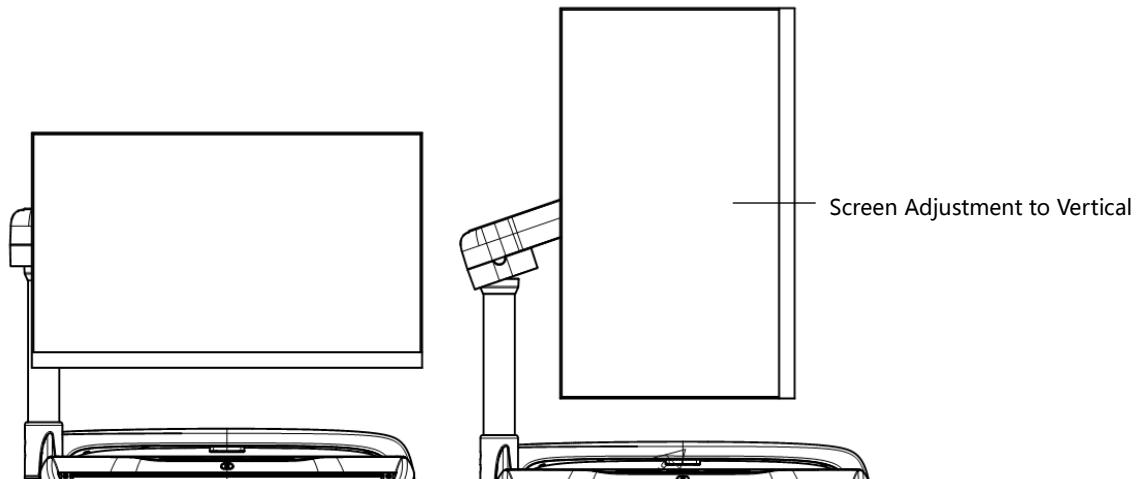


**Display front-side movement :** Hold the edge of the monitor and push back to

move the monitor sideways.



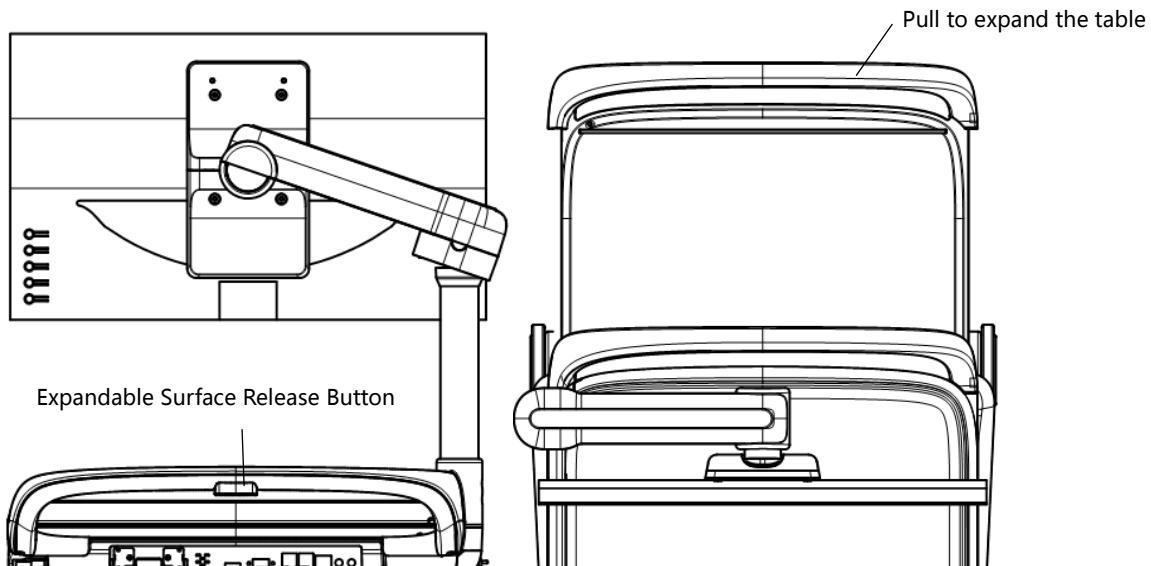
**Display pitch :** Grasp the upper or lower edges of the display to adjust the angle.



**Display Horizontally or Vertically :** Hold the left and right edges of the display tightly and rotate counter clock wise to turn it to vertical or clockwise to turn it to horizontal.

Note: The arm adjustment instructions are applicable to X3000 / X4000 / x5000

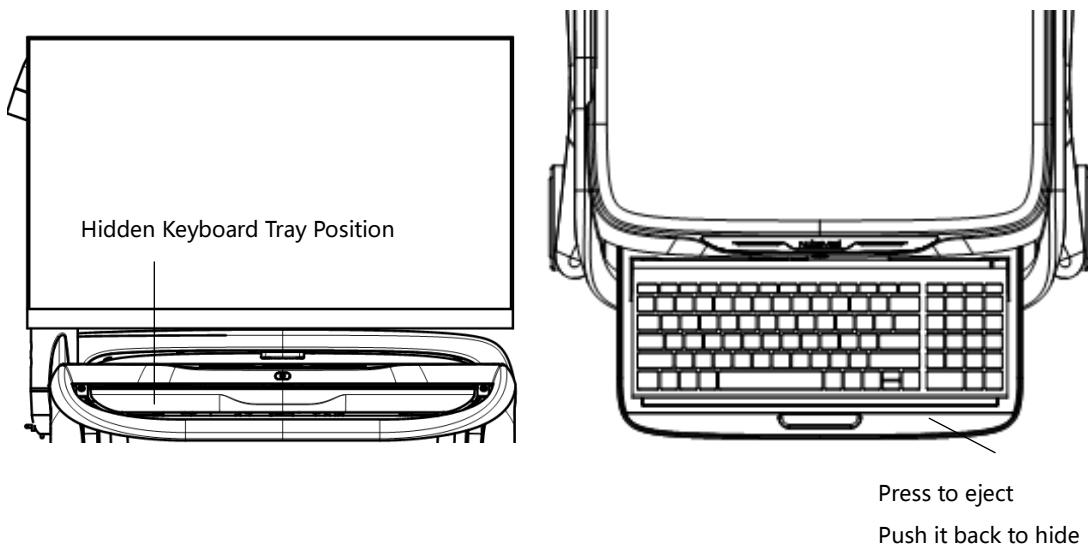
## 3.5 Expandable Surface Instruction



**Expandable Surface (Optional) :** Press the release button to unlock, the expandable surface will pop open. Pull to fully expand the additional surface.

Note: The expandable surface instructions are applicable to X3000/X4000/X5000.

## 3.6 Hidden Keyboard Tray Description

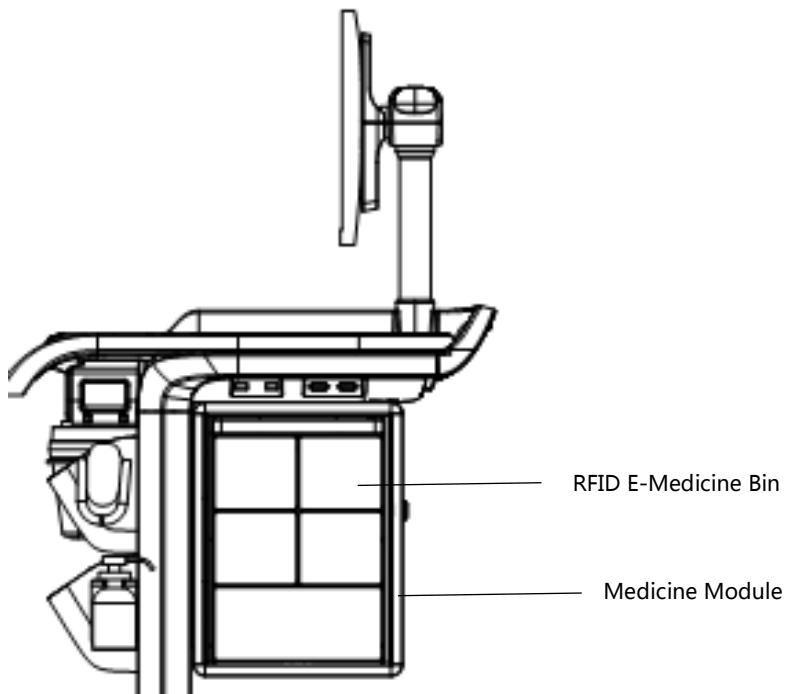


**Hidden Keyboard Tray** : Push to release the locking mechanism, tray will pop open

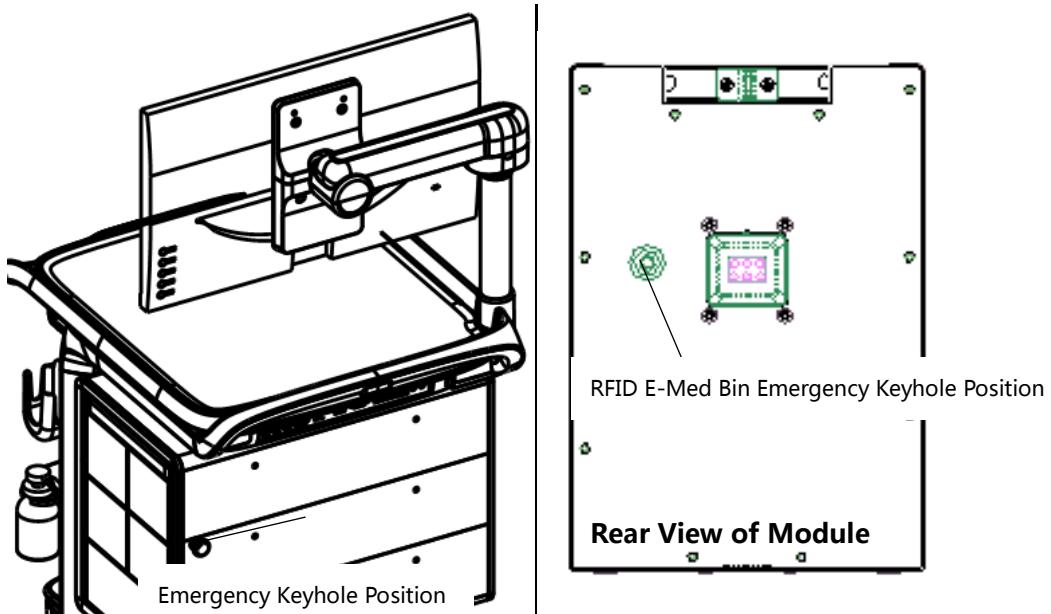
to release the hidden tray.

Note: Hidden keyboard tray instructions are applicable to X3000/X4000/X5000.

## 3.7 Intelligent Medicine Module/Bins



**RFID E-Medicine Bin** : The corresponding bin can be ejected by scanning the patient's wrist strap, which also supports unlocking in case of emergency.

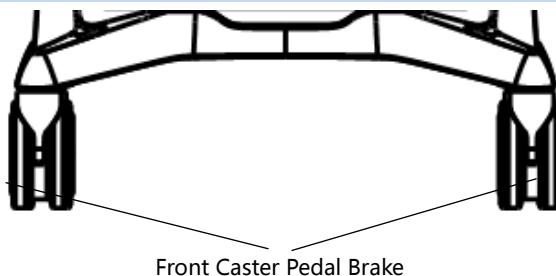


**Emergency Module Unlock :** Insert the key into the medicine module unlock keyhole to release the entire module for replacement.

**Emergency Bin Unlock :** Insert the key into the bin unlock keyhole to pop open all medicine bins.

Note: The module and bin instructions are only applicable to X5000

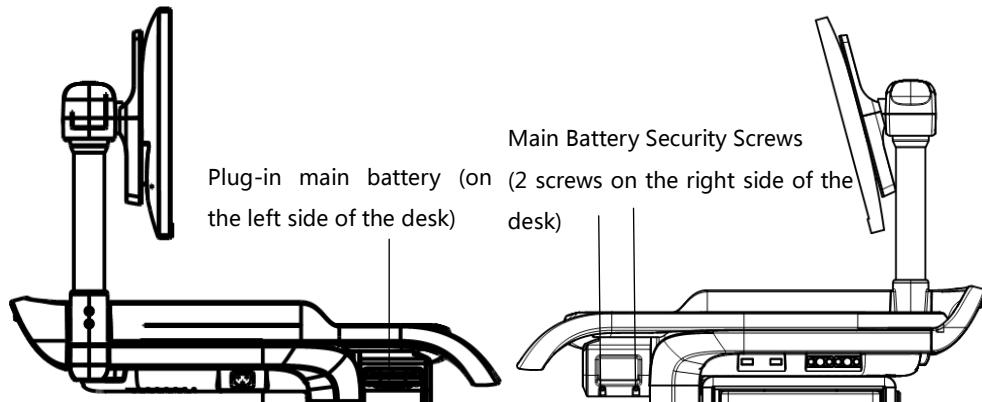
## 3.8 Caster Brake Instruction



**Cart Park :** The two front casters of the cart are equipped with brake devices. The cart body can be fixed in place by pressing the brake pedals and to release by lifting

the brake pedal.

## 3.9 Battery Release Instruction



**Battery Release :** First, loosen two main battery security screws from the right side of the desk, then pull out the main battery from the left side of the table to complete the disassembly. (Note: The main battery has been screwed in before they leave the factory. For disassembly, please contact NuboMed after-sales service personnel for operation unless emergency. It is only applicable for X2000/X3000/X4000/X5000).

## 4. Safety Precautions

### 4.1 Service and Repair Instruction

Users are required to operate in accordance with the NuboMed X series user manual or instructions. It is prohibited to dismantle or replace any parts of the NuboMed Smart Mobile Workstation without NuboMed's authorization. Only NuboMed engineers or accredited

personnel can disassemble and or replace any parts.

## 4.2 Do NOT Disassemble Equipment

Do NOT disassemble the cart body without permission. If there is any problem, contact the after-sales service personnel for resolution.

## 4.3 Do not Dismantle Battery

Unauthorized dismantling of battery may cause personal injury by short circuiting the power supply. If the power supply system does not work properly, please contact the after-sales engineer of NuboMed.

## 4.4 Prevent Water Damage

If the Mobile Workstation is wet, unplug the power plug immediately. Wipe off any excess liquid and leave dry before using it again.

## 4.5 Attention in Battery Maintenance

The battery should be operated in a well ventilated, dry and clean environment. When the battery power is insufficient, it should be charged immediately, which is crucial in extending the life of the battery. Please contact NuboMed to replace the battery when the capacity is less than 80% of the rated performance.

## 4.6 Attention in Battery Use

Avoid charging while using the system. If abnormal conditions such as overheating or smoke occur during charging or discharging, please

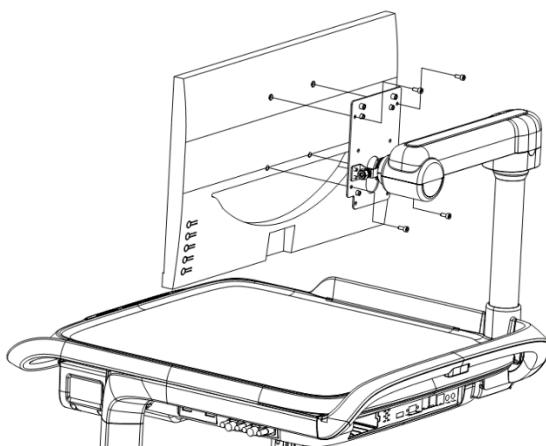
disconnect the power plug immediately. Push the cart to a place that is well ventilated, dry and away from people, and inform personnel from your IT equipment department immediately.

## 4.7 Not in Use for Extensive Period

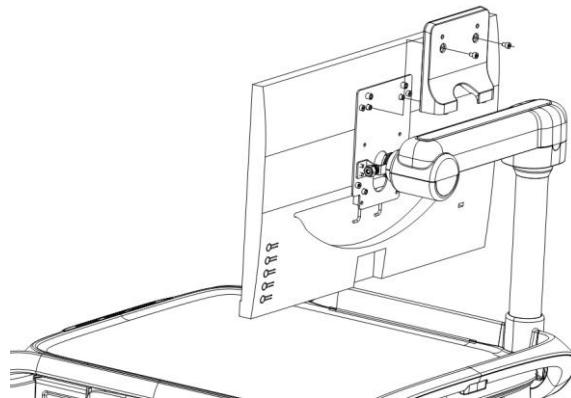
It is recommended to charge and discharge electricity once a month when the [medical](#) cart is not in used for an extensive period of time. If the battery needs to be shelved for a long time, it is better to keep the battery in a half-current (capacity 50%) state, and charge the battery once a month for an hour.

## 5. Initial Installation Instructions

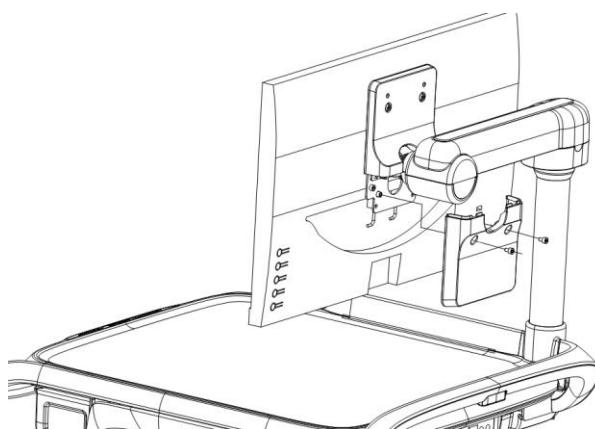
NuboMed Mobile Workstation has been partially assembled when it leaves the factory, and can be switched on and off at any time. Only display arm, monitor, keyboard and mouse requires simple and intuitive installation.



- Affix the monitor to the VESA bracket and tighten four screws to fix the display onto the display arm plate;



- Install the upper part of the reinforcement module and tighten the two screws;



- Finally, install the lower part of the reinforcement module and tighten two screws to complete the installation of the display.

## 6. Troubleshooting

Problem	Potential Cause	Solution
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Equipment will not turned on	The equipment has not been used for a long time, and the battery power is too low and entered the dormant state	Please charge and reactivate the device immediately
Equipment can not be charged	The power plug is not plugged in properly, or voltage is not suitable	Plug in again or try a different wall plug
Device is on but displays stays black	The display is powered off, the power cord is not connected, or the signal cable is not connected	Turn on the display, check the connection of the power cord and/or signal cable such as HDMI, VGA
Computer won't enter the Operating System	Damage or loss of system files	Please contact the IT engineer to re-install or restore the system,
	Computer data is	

	damaged by virus	cleaning up the virus, etc.
Wireless networks are not connected	Wireless network failure	Please contact the IT department to check and repair the wireless network
	Computer wireless network card hardware disabled	Enabling wireless network card hardware
	WLAN password is not correct	Re-enter with the correct password
	The network needs to bind MAC addresses or assign IP	Please contact the IT department to resolve the problem
The device won't stay put in one place	Caster brake not activated.	Step down on the caster brake

## 7. Cleaning Instructions

- Please clean the workstation with a mild detergent. It is forbidden to

use corrosive detergent, solvent, wax, paraffin or steam to clean this product.

- Testing the detergent: users can reduce damage to the workstation surface by reducing exposure time and the amount of detergent (dilution according to supplier's recommendation) in open space.
- Colored substance, such as iodine, coffee, mustard, curry or red wine, must be removed immediately.

## FCC statement

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.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### FCC Radiation Exposure Statement

This device complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device must operate with a minimum distance of 20 cm between the radiator and user body.