DT590B/ DT592B/DT594B

BASIC OPERATION GUIDE

ENGLISH

INTRODUCTION

Thank you for acquiring DT Research's medical cart computer medical cart computer. With a 19-inch, 22-inch or 24-inch TFT display and powered by the Intel Core™ i7 processor, the medical cart computer offers optimal combinations of performance and power savings. With fully-integrated point-of-care modules within an elegant, space-saving design, the medical cart computer is the optimum solution to enhance workflow and service.
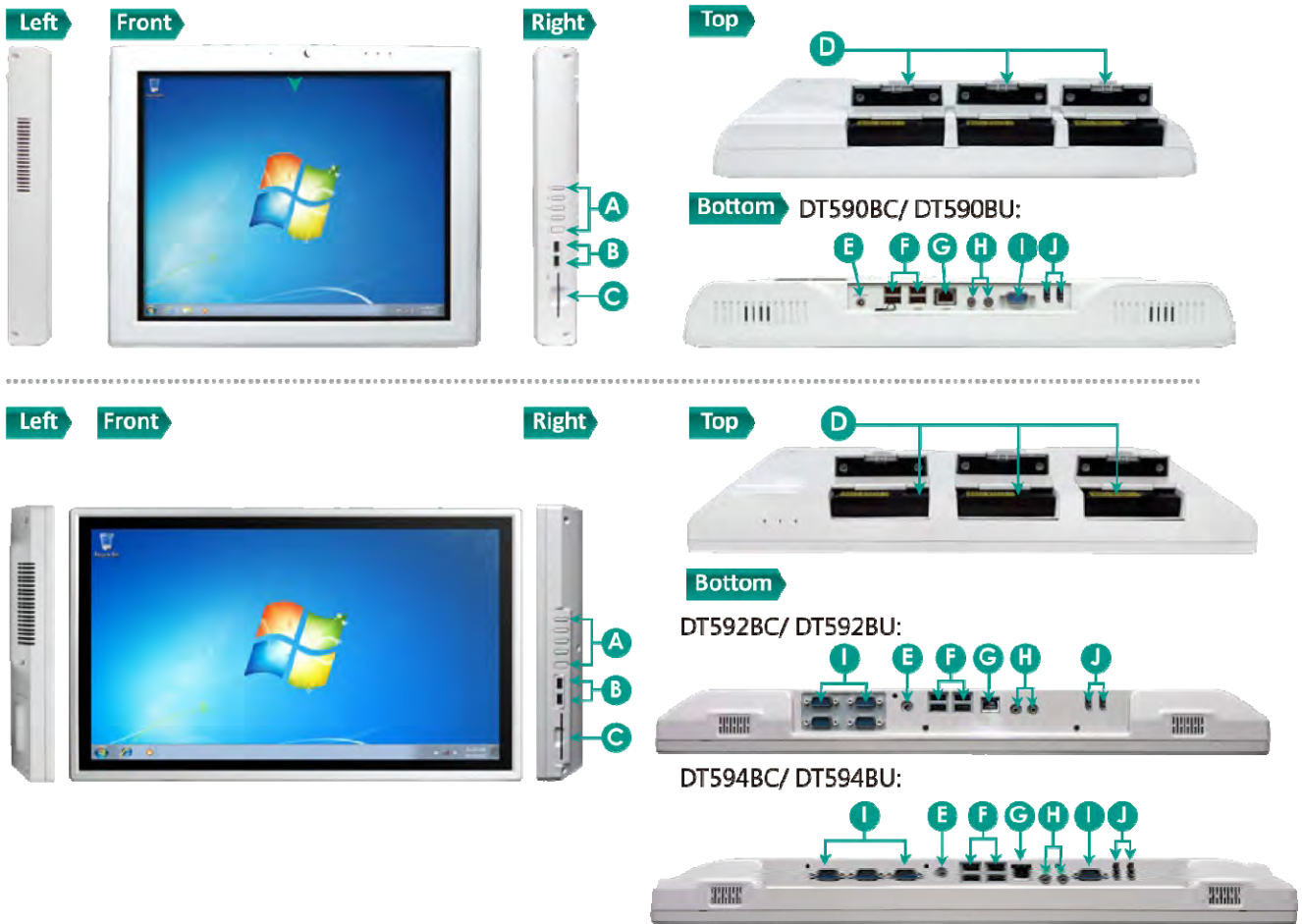
Please take a few moments to review the contents of this document to ensure that the setup and startup proceed smoothly. The medical cart computer medical cart computer is ready for use, out of the box, in its default configuration when powered by the power source provided. The following discussion offers guidance on the hardware elements and features of the computer. Please refer to your device provider for information pertaining to the software operating system or software applications.

Package Contents

One DT590B, DT592B or DT594B

Three DR202 Li-ion batteries (optional)

AC-DC power adapter with power cord

Basic operation guide

I/O Ports:

The medical cart computer has a comprehensive set of I/O ports. The following ports are located along the lower rear edge of the display unit.

Ⓐ Side panel function buttons	Ⓔ DC-in	Ⓘ COM port
Ⓑ USB 2.0 ports	Ⓕ USB 3.0 ports	Ⓙ HDMI (1.4a)
Ⓒ Smart card reader (optional)	Ⓖ Ethernet port (RJ45)	
Ⓓ Battery packs (optional)	Ⓗ Audio jacks	

Cleaning the Screen:

• A screen cleaning solution that is non-alcohol and non-abrasive can be used to clean the touch screen.

• We suggest cleaning with a micro-fiber cloth.

• Please spread the solution on to the cloth and then clean the touch screen.

Cleaning the Anti-microbial Enclosure:

• Use a soft/non-abrasive cloth moistened with water to clean the enclosure.

• If using a cleaner, an alcohol-free and oxide-free cleaning liquid is recommended.

• To prevent scratching the anti-microbial coating, please wipe gently.

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Precautions:

Always exercise care when operating • and handling the medical cart computer.

- Never disassemble any portion of the enclosure, as this will void any product warranty on the medical cart computer.
- Do not use any AC/DC adapter other than the one provided with the device or a replacement acquired from the manufacturer.
- In the unlikely event that smoke, abnormal noise or strange odor is present, immediately power down the medical cart computer and disconnect all power sources. Please report the problem to your device provider immediately.

Basic Features

The medical cart computer integrates a bright 19", 22" or 24" display with optional capicitive touch, USB ports, and is complemented by a smart card reader option for comprehensive point-of-care applications.

Powering ON and OFF

If your medical cart computer comes with the battery packs, please open the battery slot caps and then put in the battery packs one by one. If not, please use the AC-DC adapter with the medical cart computer for the power supply. To activate the medical cart computer, push and quickly release the Power Button and the display will come on in a few seconds. To put in Standby mode, push and quickly release the Power Button. To turn off for extended storage, power off the device safely using any software function that "shuts down computer" provided in the software operating system.

NOTE:
The battery packs shipped with your device may be low in power—please use the AC-DC adapter with the medical cart computer when setting up the device for the first time to fully charge the internal battery packs.

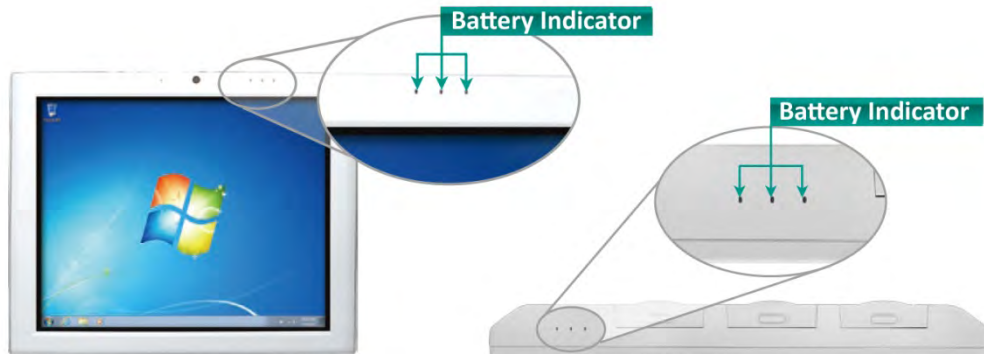| NOTE: |
| --- |
| When the battery pack(s) is (are) charging, the blue-colored Battery LED should blink slowly. If plugging in the AC-DC adapter does not trigger this blinking activity and the LED stays dark, the battery pack(s) may have been drained substantially. Try unplugging/ replugging the AC-DC adapter to the medical cart computer a few times to activate the charging process. |

NOTE:
To conserve power, use (push and quick release) the Power Button to put the device in "Standby"mode while not in use. Pushing briefly on the same button will wake up the system within seconds.

NOTE:
Avoid using the Power Button ("hold 4+ seconds" feature) to turn off the device—this form of hardware shutdown is intended to be a means of recovery from device lockups, and not as normal operation.

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Power/Battery LED Status

• Blue indicates the battery is 25% to 100% charged

• Blinking blue indicates the battery is charging

• Orange indicates that the battery is between 11% to 25%

• Blinking Orange indicates that the battery is below 10%

Wireless Networking

Wireless LAN

The medical cart computer is often delivered with an embedded (user-inaccessible) 802.11ac WLAN adapter equipped with a hidden custom antenna.

•   Through the support of typical WLAN adapters, the medical cart computer should be able to detect all 802.11 access points in the vicinity for you to select the access point of your choice for connection.

•   The SSID and WEP/WPA/WPA2 (if enabled) parameters on the medical cart computer and the access points have to match. The SSID is case-sensitive and it is recommended that you enable WEP/WPA/WPA2 encryption (or advanced alternatives) for secure access.

•   When WEP/WPA/WPA2 is enabled, you may need to consult your network administrator or your networking equipment literature to properly configure associated settings such as Authentication mode, etc.

•   Refer to the access point operating manuals for setting up the 802.11 access points.

Bluetooth

The medical cart computer features a built-in Bluetooth adapter that operates on the Microsoft Windows Bluetooth protocol. The Bluetooth configuration application is invoked from the System Tray or from the Control Panel. Follow the instructions and options provided within the application to configure and invoke Bluetooth connectivity with the corresponding peripherals.

> **NOTE:**
>
> Bluetooth devices or accessories that are not compatible with the Microsoft Windows Bluetooth protocol may not work with the medical cart computer.

SPECIFICATIONS:

Iten	DT590B	DT592B	DT594B
CPU	Intel® Core™ i7, 2.4GHz	Intel® Core™ i7, 2.4GHz	Intel® Core™ i7, 2.4GHz
RAM	4GB to 16GB	4GB to 16GB	4GB to 16GB
Storage	64GB to 256GB Flash	64GB to 256GB Flash	64GB to 256GB Flash
Operating System	Microsoft® Windows® 7 Professional 或 Windows® 8.1 Pro Industry		
Display	19" TFT-LCD	21.5" TFT-LCD	23.6" TFT-LCD
Display Resolution	1280 X 1024	1920 X 1080	1920 X 1080
Touch Screen	Optional capacitive touch	Optional capacitive touch	Optional capacitive touch
Network Interface	Ethernet 10/ 100/ 1000 MB Base-T LAN; Wi-Fi 802.11ac, 2.4GHz/ 5GHz dual band;		
Bluetooth	Bluetooth 4.0 LE	Bluetooth 4.0 LE	Bluetooth 4.0 LE
Control Buttons	5 side buttons: 1 power and 4 functional buttons	5 side buttons: 1 power and 4 functional buttons	5 side buttons: 1 power and 4 functional buttons
Speaker	Built-in speaker	Built-in speaker	Built-in speaker
I/O Ports			
USB Port	2 (USB 2.0)，4 (USB 3.0)	2 (USB 2.0)，4 (USB 3.0)	2 (USB 2.0)，4 (USB 3.0)
COM Port	1	4	4
HDMI (1.4a)	2	2	2
Microphone-in	1	1	1
Audio-out	1	1	1
Ethernet	RJ45 connector for Ethernet x 1	RJ45 connector for Ethernet x 1	RJ45 connector for Ethernet x 1
DC-in	1	1	1
Mechanical and Environmental			
Battery Pack	DR202 Li-ion battery; 10.9V, 7800mA x 3 (optional)	DR202 Li-ion battery; 10.9V, 7800mA x 3 (optional)	DR202 Li-ion battery; 10.9V, 7800mA x 3 (optional)
AC/DC Adapter	Input: 100 – 240V AC; Output: 19V DC, 6.31A	Input: 100 – 240V AC; Output: 19V DC, 6.31A	Input: 100 – 240V AC; Output: 19V DC, 6.31A
Enclosure	ABS + PC plastics, anti-microbial plastics	ABS + PC plastics, anti-microbial plastics	ABS + PC plastics, anti-microbial plastics
Dimensions (H x W x D)	14.9 x 17.7 x 2.2 in/ 380 x 450 x 65mm	12.5 x 20.8 x 2.3 in/ 318 x 529 x 58 mm	14.2 x 22.9 x 2.3 in/ 361 x 582 x 57 mm
Weight	15.4 lbs/ 7kg	14.3 lbs/ 6.5 kg	20.5 lbs/ 9.3 kg
Temperature	Operation: 0°C – 40°C; Storage: -20°C – 60°C		
Humidity	0% – 90% non-condensing		

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FCC Regulations:

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

●This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiated 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:

-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.

▶ RF Exposure Warning

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.