Wireless Networking

Wireless LAN

The Battery Powered Computer is often delivered with an embedded (user-inaccessible) 802.11ax WLAN adapter equipped with a hidden custom antenna.

- Through the support of typical WLAN adapters, the Medical-Grade Integrated LCD System 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-Grade Integrated LCD System 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.

Cleaning the Screen

- A screen cleaning solution that is alcohol-free and non-abrasive can be used to clean the touch screen.
- Cleaning with a micro-fiber cloth is recommended.
- Please spread the solution onto 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.

CAUTION:

– Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion;

– Leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas.

OPERATION

Moun◆ng the Ba◆ery Power Computer

The Battery Power Computer supports 100 × 100 mm VESA standard mounting option. So, it can be easily attached onto a medical cart.

Please use four M4 * 17 type screws to install the Battery Power Computer onto the medical cart.

DT Research
www.dtresearch.com
DT Research, Inc.
2000 Concourse Drive, San Jose, CA 95131

BOG030824 584TM ENG

DT Research

Battery Powered Computer

BASIC OPERATION GUIDE

584TM

INTRODUCTION

Thank you for purchasing DT Research 584TM All-in-One Battery Powered Computer. Available in 24” display and powered by an Intel® Core™ Ultra processor, the 584TM guarantees high-performance yet energy-efficient functionality while offering at-a-glance examination thanks to its big, easy-to-read display. With the optional hot-swappable batteries, patient data can be managed fluidly without operations being interrupted due to the act of replacing batteries, while the built-in Wi-Fi and other optional data-capture modules further improve any point-of-care applications.

Please examine the contents below to ensure a smooth set-up and startup. The All-in-One Medical-Cart Computer is ready for use out of the box in its default configuration when powered by the energy source provided. The following contents include instructions and guidance on hardware features and applications for the computer.

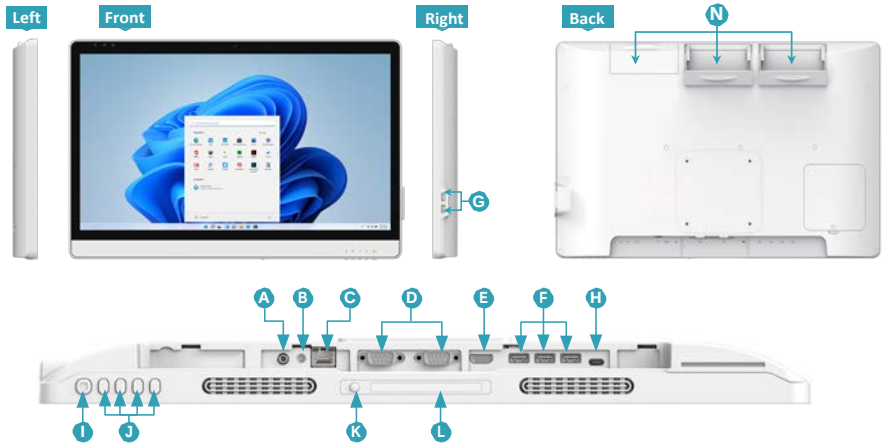
Please contact your device provider for information pertaining to software operating systems or relevant software applications.

PACKAGE CONTENTS

- 584TM
- 3 DR202 Li-ion batteries (optional)
- AC-DC power adapter with power cord
- Basic operation guide

I/O Ports

The Battery Powered Computer has a comprehensive set of I/O ports. The following ports are located along the lower rear edge of the unit.



A	Audio jack	H	USB Type-C Port
	DC-in	I	Power
C	Ethernet port (RJ45)	J	Function buttons
D	COM ports	K	Reading light on/off button
E	HDMI (1.4a)	L	LED reading light
F	USB 3.0	M	Battery slots
G	USB 2.0		

Battery Replacement

Hot-swappable batteries allow for quick and easy changes without interrupting a continuous operation for computer systems. To insert/ replace the hot-swappable batteries for 584TM:

1. Open the battery lid.
2. Hold the battery with its yellow label facing backwards and insert it into the battery slot.
3. Close the battery lid. Make sure the lid shuts tightly when closing the lid.

PRECAUTIONS

- Always exercise care when operating and handling the Battery Powered Computer.
- Never disassemble any portion of the enclosure, as this will void any product warranty on the Battery Powered 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 Battery Powered Computer and disconnect all power sources. Please report the problem to your device provider immediately.

BASIC FEATURES

The Battery Powered Computer integrates a bright 24” display with a high performance system, USB ports, and integrated options such as capacitive touch, hot-swappable batteries, and smart card reader for a comprehensive point-of-healthcare solution.

Powering ON and OFF

If your Battery Powered 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 Battery Powered Computer for the power supply. To activate the Battery Powered 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 (optional) shipped with your device may be low in power—please use the AC-DC adapter with the Battery Powered Computer when setting up the device for the first time to fully charge the battery packs. You may charge the battery packs with them attached to the Battery Powered Computer, or with the optional battery charger kit.

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 Battery Powered 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.

NOTE:

If connecting an external monitor to the Battery Powered Computer (via HDMI port), you must power the Battery Powered Computer with the provided AC-DC power adapter.

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%

RF Exposure Information (RED & UKCA)

To be protected against all verified adverse effects, the separation distance of at least 200mm must be maintained between the antenna of the radio having max. 3.1dBi antenna and all persons.

Hereby, [DT Research, Inc.] declares that the radio equipment type [584TM] is in compliance with Directive 2014/53/EU and UK Radio Equipment Regulations 2017. The full text of the EU and UK declaration of conformity is available at the following internet address: http://www.dtresearch.com.

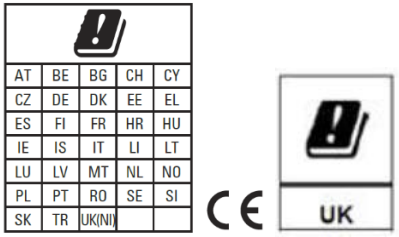
The functions of Wireless Access Systems including Radio Local Area Networks(WAS/RLANs) within the band 5150-5350 MHz and 5945-6425MHz for this device are restricted to indoor use only within all European Union countries (BE/BG/CZ/DK/DE/EE/IE/EL/ES/FR/HR/ IT/CY/LV/LT/LU/HU/MT/NL/AT/PL/PT/RO/SI/SK/FI/SE/TR/N O/CH/IS/LI/UK(NI).

Maximum EIRP for EU

Bluetooth:2402MHz-2480MHz	11.87dBm
Bluetooth LE:2402MHz-2480MHz	8.17dBm
Wifi: 2412MHz-2472MHz/2422MHz-2462MHz	19.09dBm
Wifi: 5150MHz-5725MHz	19.97dBm
Wifi: 5725MHz-5875MHz	13.62dBm
Wifi: 5925MHz-6425MHz	18.58dBm

CE

Operating authorizations must exist to operate the product in the following member states of the European Union, refer to the table below.



CE

Importer Name: Concept International GmbH

Importer Address: Zweibrückenstr. 5-7 80331 München Germany

Federal Communication Commission Interference

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 aredesigned to provide reasonable protection against harmful interference ina 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 of thefollowing 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operatethis equipment.

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interferencereceived, including interference that may cause undesired operation.

This device and its antenna(s) must not be co-located or operating inconjunction with any other antenna or transmitter.

RF Exposure Compliance

To maintain compliance with FCC's RF Exposure guidelines, this equipment should be installed and operated with minimum distance between 200mm the radiator your body: Use only the supplied antenna.

Indoor Client 6XD statement

1. FCC regulations restrict the operation of this device to indoor use only.
2. The device will only associate and connect with a low-power indoor access point or subordinate device and never directly connect to other client devices.
3. The device will always initiate transmission under the control of a low-power indoor AP or subordinate except for brief transmissions before joining a network. These short messages will only occur if the client has detected an indoor AP or subordinate operating on a channel. These brief messages will have a time-out mechanism such that if it does not receive a response from an AP it will not continually repeat the request.
4. transmissions will be lower or equal to the power advertised by the indoor low-power access point or subordinate and never above the maximum output power allowed by the FCC grant for equipment class 6XD.
5. Prohibited for control of or communications with unmanned aircraft systems, including drones.

Supplier's Declaration of Conformity

47 CFR § 2.1077 Compliance Information

Unique Identifier Trade Na

Model No.: 584TM

Responsible Party – U.S. Contact Information
DT Research, Inc.
2000 Concourse Drive, San Jose, CA 95131
http://www.dtresearch.com

IC Compliance Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

(1) L'appareil ne doit pas produire de brouillage;

(2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Cet équipement est conforme aux limites d'exposition aux radiations IC CNR-102 établies pour un environnement non contrôlé.

This Class [B] digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe [B] est conforme à la norme NMB-003 duCanada.

RF Exposure Compliance

To maintain compliance with RSS's RF Exposure guidelines, this equipment should be installed and operated with minimum distance between 200mm the radiator your body: Use only the supplied antenna.
Pour rester conforme aux directives d'exposition aux radiofréquences de RSS, cet équipement doit être installé et utilisé à une distance minimale de 200mm du radiateur de votre corps : Utilisez uniquement l'antenne fournie

The functions of Wireless Access Systems including Radio Local Area Networks(WAS/RLANs) within the band 5150-5250 MHz for this device are restricted to indoor use only.

Les fonctions des systèmes d'accès sans fil, y compris les réseaux locaux radioélectriques (WAS/RLAN), dans la bande 5150-5250 MHz de cet appareil sont limitées à une utilisation en intérieur.

IC Wi-Fi 6E Statement:

Devices shall not be used for control of or communications with unmanned aircraft systems.
Low-power indoor access points and indoor subordinate devices shall bear statements acknowledging both of the following restrictions in the user manual and, where feasible, in a conspicuous location on the device:
Operation shall be limited to indoor use only.
Operation on oil platforms, automobiles, trains, maritime vessels and aircraft shall be prohibited except for on large aircraft flying above 3,048 m (10,000 ft).
L'équipement ne doit pas être utilisé pour le contrôle ou la communication des systèmes d'aéronefs sans pilote. Les points d'accès intérieurs de faible puissance et les accessoires intérieurs doivent indiquer les restrictions suivantes dans le manuel de l'utilisateur et, si possible, à un endroit bien en vue de l'appareil: Le fonctionnement doit être limité à un usage intérieur. Il est interdit de travailler sur les plates - formes pétrolières, les voitures, les trains, les navires maritimes et les aéronefs, à l'exception des gros aéronefs de plus de 3 048 mètres (10 000 pieds).