Wireless Networking

Wireless LAN

The Graphics Station System 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 Graphics Station 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 Graphics Station 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.

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.

The 554GR supports VESA standard (100mm * 100mm) mounting brackets and arms. Attach （Arms TBD）
- the bracket or the arm to the back of 554GR , then screws four M4*15mm screws to fix the
- VESA bracket or arm.

DT Research
23.8" Graphics Station
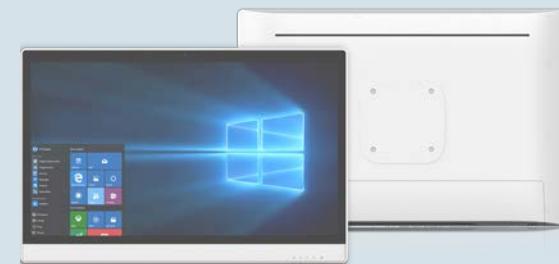
BASIC OPERATION GUIDE

554GR

INTRODUCTION

Thank you for acquiring DT Research's Graphics Station System. With a 23.8" TFT-LCD display and powered by an Intel® Core™ i processor, the All-In-One Computer 554GR offers an optimal functionality combining excellent performance and power-saving capability. The 554GR equipped with powerful Graphics and processing capabilities, and available with a choice of the Microsoft Windows 11 IoT Enterprise or Ubuntu operating systems. It is also fitted with
dedicated NVidia Graphics cards (RTX A2000, RTXA4000), and up to 64GB of RAM, which make them ideal for handling complex medical imaging applications.

Please take a few moments to review the contents of this document to ensure that the setup and startup proceed smoothly. The Graphics Station System is ready for use, out of the box, in its default configuration when powered by the power source provided. The following documentation 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

- 554GR
- AC-DC power adapter with power cord
- Basic operation guide

MEDICAL – GENERAL MEDICAL EQUIPMENT
AS TO ELECTRICAL SHOCK, FIRE AND MECHANICAL HAZARDS ONLY IN ACCORDANCE WITH ANSI/AAMI ES60601-1 (2005) + AMD (2012) & "CAN/CSA-C22.2 No. 6060-1 (2008) + (2014)

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I/O Ports

The Graphics Station System has a comprehensive set of I/O ports located at the bottom side of the unit.

554GR

A Power button		**G** Microphone	
B Brightness +/-		**H** Potential Equalization Conductor(optional)	
C Display Port		Headphone	
D DC-In Jack		**J** COM	
E USB 3.0		**K** USB Type-C	
F Ethernet		**L** USB 2.0	
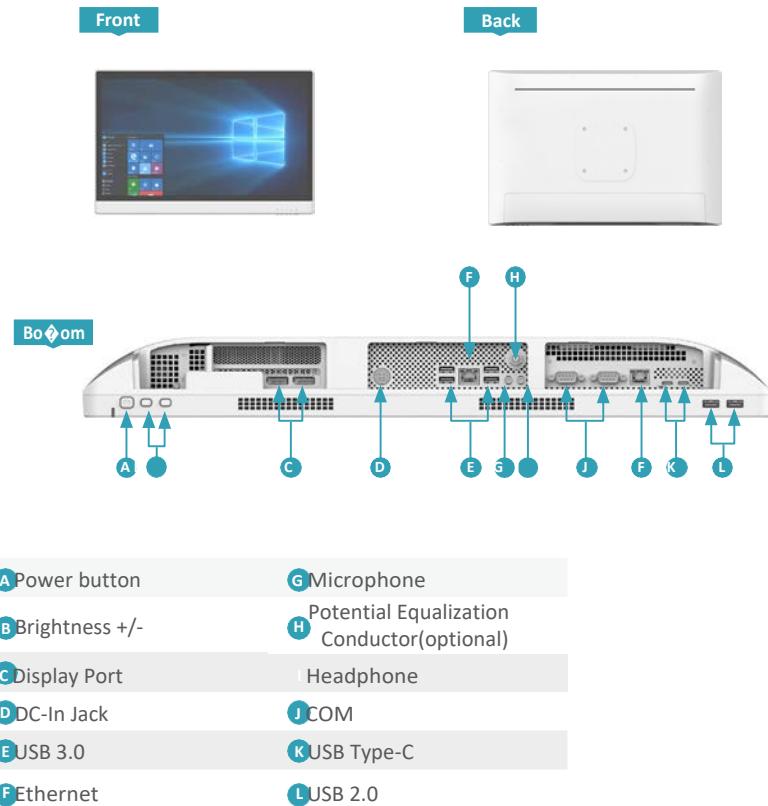
PRECAUTIONS

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

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.

BASIC FEATURES

The Graphics Station System integrates a high-brightness 23.8" display with a high-performance system and USB ports to satisfy the varying needs for comprehensive point-of-care applications.

Attach The Tabletop Stand (Optional)

1. Insert the top two tabs of the tabletop stand into the top two open slots on the 554GR back panel.
2. Push the latch to pivot the two lower tabs of the tabletop stand.
3. Push the two lower tabs into the two lower slots on the 554GR back panel. Make sure the latch locks back into position so the stand is securely attached.

Detach the Tabletop Stand (Optional)

1. Push the latch to pivot the two lower tabs.
2. Pull out the two lower tabs, then the two upper tabs from the 554GR back panel.

Powering ON and OFF

Please use the AC-DC adapter with the Graphics Station System for the power supply. To activate the Graphics Station System, 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:

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.

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. 4.1dBi antenna and all persons.

Hereby, [DT Research, Inc.] declares that the radio equipment type [554GR] 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	11.64dBm
Bluetooth LE:2402MHz-2480MHz	8.52dBm
Wifi: 2412MHz-2472MHz/2422MHz-2462MHz	19.54dBm
Wifi: 5150MHz-5725MHz	19.55dBm
Wifi: 5725MHz-5875MHz	13.02dBm
Wifi: 5925MHz-6425MHz	20.33dBm

CE

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

AT	BE	BG	CH	CY
CZ	DE	DK	EE	EL
ES	FI	FR	HR	HU
IE	IS	IT	LI	LT
LU	LV	MT	NL	NO
PL	PT	RO	SE	SI
SK	TR	UK(NI)		

CE   UK
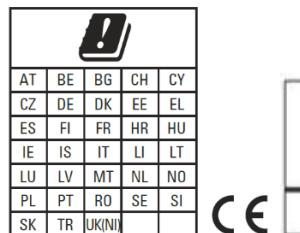
Importer Name: Concept International GmbH

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 interference received, 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 Name:
Model No.: 554GR   **DT Research**
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).