

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.

DT Research Rugged Tablet



BASIC OPERATION GUIDE

DT381RP

INTRODUCTION

The DT381RP Rugged Tablet features the integration of a LED-backlit, high-brightness (800 nits) 8" touchscreen and a powerful Intel® Core™ i processor within a slim, lightweight, and durable enclosure. With the built-in Wi-Fi, BT and optional advanced data capture modules, DT381RP is capable of operating at high performance while providing optimized operating efficiency. MIL-STD-810H certified, the DT381RP Rugged Tablet is ideal for operations in harsh, mission-critical environments.

PACKAGE CONTENTS

- One DT381RP
- One Battery Pack and Handstrap
- AC-DC Power Adapter
- Basic Operation Guide

* The actual package contents may vary depending on the configuration acquired.

The DT381RP



Input/Output Ports

- A USB Type-C Port
- B Audio Jack
- C USB Port
- D Ethernet Port

Data Capture Modules

- E Micro SD Card Slot
- F Front/Back Cameras

Button Functions

BUTTON	ACTION
1	Power Button
2	Windows Key Button
3	Programmable Buttons
4	Brightness Control Buttons

PRECAUTIONS

- Always exercise care when operating and handling the DT381RP.
- Do NOT apply excessive pressure to the display screen.
- We recommend using the Digital Pen (optional) to keep the screen clean.
- Avoid prolonged exposure of the display panel to any strong heat source. Wherever possible, the DT381RP should face away from direct light to reduce glare.
- If the AC-DC power adapter is used to recharge or power the tablet, do NOT use any AC-DC adapter other than the one provided or acquired from the manufacturer or its partners.
- In the unlikely event that smoke, abnormal noise, or strange odor is present, immediately power off the DT381RP and disconnect all power sources. Report the problem to your device provider immediately.
- Never attempt to disassemble the DT381RP, as this will void the warranty.

BASIC FEATURES

The DT381RP rugged tablet integrates a bright display, USB ports, and embedded networking elements such as wireless LAN.

A DT381RP typically integrates an 802.11ac wireless LAN (WLAN) adapter that may connect to other wireless devices or access points. If your DT381RP does not come with such a network adapter, please consult your device provider to establish the desired network connectivity.

OPERATION

Powering ON and OFF

To activate DT381RP, push and quickly release the Power Button. The display will come on in a few seconds. To put the DT381RP in standby mode, push and quickly release the Power Button. To turn the DT381RP off for extended storage, power off safely using any software function that "shuts down computer" provided in the software operating system.

NOTE:

The battery packs shipped with your tablet may be low in power - please use the AC-DC adapter with the DT381RP when setting up for the first time to fully charge the battery pack.

NOTE:

To conserve power, push and quick release the Power Button to make the tablet in standby mode while not in use. Pushing briefly on the same butt on will wake up the system.

NOTE:

Devices shall not be used for control of or communications with unmanned aircraft systems.

NOTE:

When the battery pack is 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. Unplug/replug the AC-DC adapter to the DT381RP a few times to activate the charging process.

NOTE:

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

Start Up

If the power up (from Standby mode or otherwise) is successful, the appropriate interface will be displayed after a launch sequence of several seconds. The wireless LAN connection may take 10-15 seconds to be established.

Configuring the Rugged Tablet

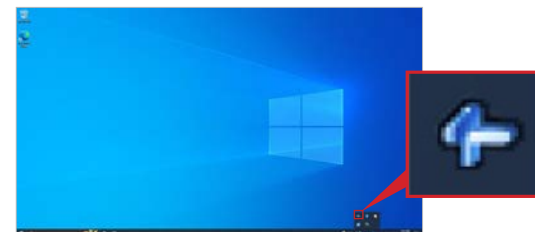
The DT381RP may be configured using the utilities and methods dictated by the software operating system. The DT381RP should be configurable for various properties such as user profiles, network features, and several system elements.

For the convenience of the user, DT Research offers two applications to assist in the configuration of the Windows-based tablets. These comprise the Control Center and the Button Manager.

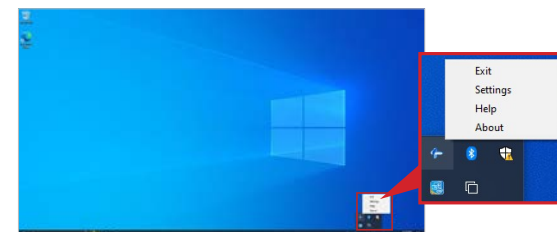
Information and instructions on these applications are available online https://www.dtresearch.com/support/bog/RTL_BM_BOG.pdf and https://www.dtresearch.com/support/bog/RTL_CC_BOG.pdf. They are also available locally on the tablet as described below:

The **Button Manager** is a graphics-based tool for managing the physical buttons on DT Research computing systems. Most of the DT Research devices have physical buttons that allow users to quickly access certain functions and features, including Barcode Scanner trigger, On-Screen keyboard, Windows Key, system volume/screen brightness adjustment, and launching of user-defined applications. Some buttons may be pre-defined out-of-the-box to accommodate common uses.

The application can be launched from the Windows System Tray by tapping on the  icon to show the corresponding configuration user interface (UI).



NOTE: User could “Press, briefly hold and release (Right-click)” the  icon to launch a pop-up menu. This pop-up menu allows user to choose from a selection of options (e.g., About, Settings, Help) related to the application and its usage.



Notably, under Help, the user is able to view locally (on-device) a tutorial on the usage of the tool or application.

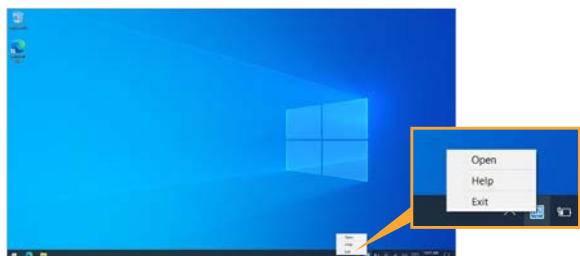
The **Control Center** is a custom portal for accessing major system modules and settings on DT Research systems. Authorized users may enable/disable communication (e.g., Wi-Fi and optional WWAN) and/or optional productivity modules. All users have the authority to manipulate the settings related to display brightness, screen orientation, and touch modes to accommodate specific applications and user preferences.

The application can be launched from the Windows System Tray. Tap on the Control Center icon  to launch the software.



User may “Press, briefly hold and release (Right-click)” the  icon to launch a pop-up menu.

This pop-up menu allows user to choose from a selection of options (e.g., About, Help) related to the application and its usage.



Notably, under Help, the user is able to view locally (on-device) a tutorial on the usage of the tool or application.

Wireless Networking

Wireless LAN

The DT381RP is often delivered with an embedded (user-inaccessible) 802.11ax LAN adapter equipped with a hidden custom antenna.

- Through the support of typical WLAN adapters, the DT381RP 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 DT362G 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.

USING THE TABLET

To Hold the Tablet

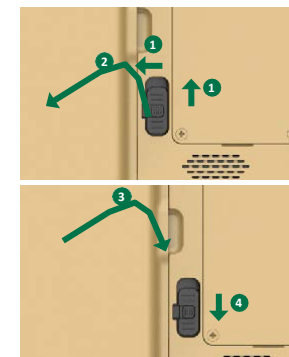
Left hand: grip the left back side of the tablet with your left hand four index fingers, with thumb resting on the top of the back side of the tablet and palm securely against the back.

Right hand: grip the right back side of the tablet with your right hand four index fingers, with thumb resting on the top of the back side of the tablet and palm securely against the back.



Replacing the Battery Pack

1. Slide the battery latch to the unlocked position.
2. Lift the battery pack off the compartment.
3. Fit another battery pack into place.
4. Slide the latch to the locked position.
5. If you want to purchase extra battery packs, please contact your dealers, or visit our Support page:
<https://www.dtresearch.com/en/Support/contact.html>



CAUTION:

There is danger of explosion if the battery is incorrectly replaced. Replace the battery only with the Tablet manufacturer's battery. Discard used batteries according to the dealer's instructions.

CAUTION:

Do not attempt to disassemble the battery pack.

Battery Usage and Maintenance

DT Research tablets and laptops are powered by lithium polymer battery packs in proprietary form factors. Battery configurations for the DT Research devices include internal (bridge or backup), removable or swappable implementations.

Battery usage cycles, or duration between necessary re-charge, vary with a number of factors, including device model, device usage pattern and battery health/aging. The DTR battery packs may be charged while attached to the device or when separated from the device and docked in proprietary battery charging cradles. Following the guidelines on good practice below can help to keep a battery pack healthy and prolong battery usage cycles and battery lifespan.

Avoid high heat conditions during operation, idle, charging, and storage states.

Avoid letting the battery pack remain in very highly charged state or overly low charged state for extensive periods of time. Keeping the battery capacity between 30% and 80% of maximum capacity is recommended. The prevailing battery level(s) can be read from the Battery utility within the Windows operating system.

Avoid letting the battery be over-discharged or depleted. Over-discharge can occur when a fully-discharged (0% level or thereabouts) battery pack is allowed to remain in such a state for an extended period of time (weeks or months). The embedded battery controls enter a protection mode and recharging will be prevented for safety reasons. To reduce the likelihood of over-discharge, consider recharging idle batteries regularly to some level between 30%-80% of capacity.

For long term storage, it is recommended that removable battery packs be stored separated from the device. Otherwise, the system should be placed in Shutdown mode. The battery level will decrease with time and it is recommended that the battery packs be monitored or recharged every 2-3 months to maintain

WM281 Wall Mount Cradle Installation Guide

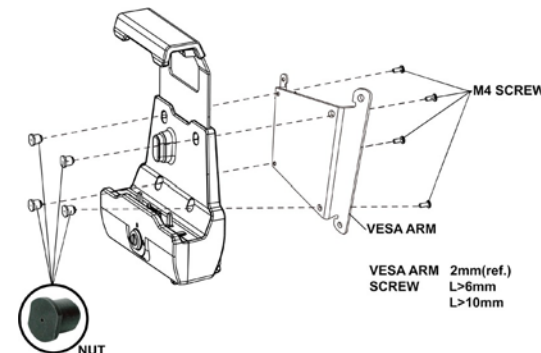
- 1 Use the key to unlock, and slide the latch on the bottom of the Cradle to loosen the Top Clasp.
- 2 Insert the bottom part of the Tablet into the cradle first with the connector parts correctly lined up.
- 3 When the bottom of the Tablet is in place, push the Tablet against the back and into the Cradle.
- 4 Push down on the Top Clasp, so the top portion of the cradle slides down and locks into the locked-down position.
- 5 Lock the Cradle with the key.



OPERATION

Mounting the Cradle

The Tablet Mount Cradle supports VESA standard mounting options (75 mm x 75 mm or 100 mm x 100 mm) so it can be easily attached onto a wall, in a vehicle, and on a VESA arm.



NOTE: If using a 100 x 100 VESA stand or arm, the VESA Conversion Bracket is needed. Please place the VESA Conversion Bracket on the back side of the Cradle, and apply the four M4 screws.

For More Support

Users can download the Tablet Modules Basic Operation Guides from the DT Research website.



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2000 Concourse Drive, San Jose, CA 95131
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BOG080723 DT381RP ENG

RF Exposure Information (RED & UKCA)

To be protected against all verified adverse effects, the separation distance of at least 0mm must be maintained between the antenna of the radio having max. 4.0dBi antenna and all persons.

Hereby, [DT Research, Inc.] declares that the radio equipment type [DT381RP] 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 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	11.49dBm
Bluetooth LE:2402MHz-2480MHz	8.56dBm
Wifi: 2412MHz-2472MHz/2422MHz-2462MHz	18.76dBm
Wifi: 5150MHz-5725MHz	20.00dBm
Wifi: 5725MHz-5850MHz	13.55dBm
Wifi: 5955MHz-6415MHz	20.12dBm

This equipment complies with Directive 2014/53/EU and UK Radio Equipment Regulations 2017 radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The portable device is designed to meet the requirements for exposure to radio waves established by European Union market(France). These requirements set a SAR limit of 2W/kg averaged over 10 gram of tissue. The highest SAR value 1.81 W/kg reported under this standard during product certification for use when properly worn on the body.

The equipment has been tested with radios set to their highest transmission levels with following setup:

Mode	use against the head	worn or carried against the torso of the body	Worn on limbs
Separation	/	0 mm	/
SAR Value	/	1.81 W/kg	/
Sar Limit	2W/kg (over 10 g)	2W/kg (over 10 g)	4W/kg (over 10 g)

Body-worn accessories (e.g., carry case, belt clip) containing metallic components which has not been tested or certified may change the RF performance of the device, including its compliance with RF exposure. User shall avoid using such accessories and should

operate at least the above stated separation distance to maintain RF exposure compliance.



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)		

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 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 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 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this 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 in conjunction with any other antenna or transmitter.

RF Exposure Compliance

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The portable device is designed to meet the requirements for exposure to radio waves established by the FCC. These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for use when properly worn on the body, with 0mm separation.

FCC ID Label is in removable battery compartment, it could be easily found by removing the battery cover.

Supplier's Declaration of Conformity

47 CFR § 2.1077 Compliance Information

Unique Identifier Trade Name:

Model No.: DT381RP



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 du Canada.

RF Exposure Compliance

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The portable device is designed to meet the requirements for exposure to radio waves established by the ISED. These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for use when properly worn on the body, with 0mm separation.

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. L'utilisateur final doit suivre les instructions spécifiques pour satisfaire les normes. Cet émetteur ne doit pas être co-implanté ou fonctionner en conjonction avec toute autre antenne ou transmetteur.

Le dispositif portatif est conçu pour répondre aux exigences d'exposition aux ondes radio établie par le développement énergétique DURABLE. Ces exigences un SAR limite de 1,6 W/kg en moyenne pour un gramme de tissu. La valeur SAR la plus élevée signalée en vertu de cette norme lors de la certification de produit à utiliser lorsqu'il est correctement porté sur le corps, avec une séparation de 0mm.

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.